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SENT VIA OVERNIGHT COURIER

Resubmittal: December 6, 2024
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Taylor Monnin
Division of Environmental Remediation
New York State Department of Environmental Conservation
700 Delaware Avenue, Buffalo, NY 14209

**Re: Charles Gibson Site, Niagara Falls, New York
Site No. 932063
Annual Periodic Review Report – 2023
Post Closure Operation, Maintenance, and Monitoring Activities**

Dear Taylor Monnin:

Olin hereby submits the 2023 Annual Periodic Review Report on the Post-Closure Operation, Maintenance, and Monitoring activities for the Charles Gibson Site. The annual certification is included as part of the attached report.

Please direct any questions or comments to me at (423) 508-2768 or by email at abcarringer@olin.com.

Sincerely,
OLIN CORPORATION

A handwritten signature in black ink, appearing to read "Adam B. Carringer".

Adam Carringer, CHMM
Sr. Environmental Specialist



**Charles Gibson Site
Site No. 932063
2023 Periodic Review Report**

**Revision 1
December 6, 2024**

Prepared for:

**New York State Department of Environmental Conservation
Division of Environmental Remediation
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1

Introduction

This Periodic Review Report (PRR) presents an assessment of Remedial Action Objectives (RAOs) for the Charles Gibson Site (the Site) in Niagara Falls, New York. New York State Department of Environmental Conservation (NYSDEC) reduced the status of the Site in the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites in 1993 from 2 (poses significant threat to the public health- action required) to 4 (Site property closed- requires continued management) due to the successful lining and capping of the Site and the beginning of the Long-Term Monitoring Program (LTMP). The implementation of the LTMP is required under this site designation. In accordance with the Site Management Plan (SMP), a PRR is provided annually to assure that the RAOs are maintained and that the Site Institutional Controls/Engineering Controls (IC/ECs) remain effective in protecting the public health and environment. **Table 1** outlines the sampling and analysis plan agreed upon with NYSDEC to satisfy the LTMP. This PRR will discuss the protections in place and their effectiveness over the 2023 Certifying Period.

1.1 Site Description

The Site incorporates approximately two acres bounded to the east and north by Cayuga Creek, to the west is Tuscarora Road and to the south the Niagara Mohawk Power Corporation right-of-way and the Auto Zone Incorporated auto parts store and parking lot. The Site is a capped landfill that is slightly mounded with the center of the capped area essentially flat. The capped area is enclosed by a chain link fence. A wooden privacy fence is immediately next to and outside of the chain link fence on portions of the perimeter. **Figures 1-1** and **1-2** show an overview the Site and the IC/ECs.

As written in the SMP, the eastern portion of the Site was originally low-lying marsh land; the western portion contained a residence that is no longer present. In 1957, the Site was filled with chemical wastes from manufacturing, soil, and building debris. The chemical wastes consisted of two main sources: approximately 400 metal drums containing HBC, used as a fungicidal by-product from related chemical syntheses, and approximately 100 tons of BHC residue in the form of alpha-beta cake. A 1981 test indicated levels of contamination up to 7.7% in soil samples from the Site; analyses of surface water and sediment from the on-site portion of Cayuga Creek did not reveal contamination at that time. However, after a Remedial Investigation (RI) was completed in 1989, it was determined that Site soil and groundwater were impacted by the Site contaminants. A Feasibility Study

(FS) was completed in 1988 which concluded that the most significant risk of exposure to Site contaminants was via shallow groundwater discharge to Cayuga Creek.

1.2 Remediation Chronology

Construction of the remedy on the Site concluded in 1990. A summary of remedial measures implemented at the Site in 1989 and 1990 included:

- Excavation of a new creek channel on the eastern portion of the Site, stabilization of the new channel using geotextile, and construction of new stream banks with riprap.
- Stabilization of the former creek bed with shot rock, pieces of concrete, excavated soil from on-site trenching, and structural fill.
- Installation of a leachate collection system consisting of a 6-inch chlorinated polyvinyl chloride (CPVC) drain pipe in a 4-foot trench along the southern through western banks of the creek and lined with stabilizing geotextile and coarse drainage aggregate stone, two manholes on the northeastern and southeastern corners of the Site with related pipe connections.
- Installation of a fully circumscribing soil-bentonite slurry barrier wall from the original site grade into the underlying red-brown clay layer to serve as a physical deterrent to infiltration of Site groundwater into the Cayuga Creek.
- Capping of the landfill with compacted clay, two 40-millimeter layers of flexible membrane lining (FML) with welded seams, 110-millimeter geotextile, 40-millimeter geotextile to prevent infiltration of precipitation through the waste.
- Placement of topsoil and seeding the capped area.
- Installation of a perimeter chain-link fence and wood privacy fence along portions of the Site readily visible to the public.
- Implementation of a long-term monitoring program (LTMP).

In 1990 following the remedial construction, a Closure Certification Report was issued. NYSDEC approved an Operations and Maintenance (O&M) Manual, and a Release of Liability was issued for the Site in 1992, stating field investigation and remediation implementation were complete, but requiring Olin to continue to monitor the effectiveness of the remedy into the future.

The first year of O&M of the containment remedy for the Site and the groundwater monitoring program was 1993. In 1997, a direct discharge line was installed, routing collected leachate to the local sanitary sewer system. Waters collected in the Site perimeter collection drain system were managed by direct discharge to the Niagara Falls Wastewater Treatment Facility (WWTF). Until 1999, the Site held a

City discharge permit; the Site was later reclassified as a commercial/small industrial/residential user (CSIRU) and does not require a permit.

Further details pertaining to the remedial actions on the Site can be found in the SMP.

2

Remedy Performance, Effectiveness, and Protectiveness

The work performed for the Site during 2023 was reviewed and found to be in accordance with the approved O&M Manual (Revised 2019), and the SMP approved by NYSDEC on July 17, 2020. Groundwater monitoring indicates there are no increased concentrations of the Site compounds being monitored. Evaluation of the groundwater elevation data generated during the 2023 monitoring year indicates that the containment remedy is effective. Drawdown in both manholes was effectively maintained. Based on these observations, the Site IC/ECs appear to be effective in protecting human health and the surrounding environment. The IC/EC Certification Form for this Certifying Period is included in **Appendix A**.

3

IC/EC Plan

Since remaining contamination exists at the Site, IC/ECs are required to protect human health and the environment. Below is a brief summary of the IC/EC Plan, which describes the procedures for the implementation and management of all IC/ECs at the Site. Details of the IC/EC Plan can also be found in the SMP.

3.1 IC/EC Requirements

A series of ICs is required by the SMP to: (1) maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the Site to existing uses only. Details of ICs are outlined in the SMP.

IC/ECs include the following:

- Landfill Cover System that is comprised of a landfill cap, slurry wall barrier, and leachate/groundwater collection system.
- Excavation Work Plan (EWP) to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed.
- Groundwater sampling activities to monitor Site water quality.
- Groundwater elevation monitoring to verify Landfill Cover System maintains inward gradients.
- A chain link fence to secure the Site from unauthorized access.

Details on the operation and maintenance of the ECs are provided in O&M Plan included with the SMP.

3.2 Assessment of IC/EC

Based on quarterly inspections, the Landfill Cover System remains active and intact. Quarterly inspection documentation can be reviewed in **Appendix B**. All ECs are of acceptable condition with the following exception:

- On March 15, 2023, a fence post by the man door was noted to be loose. A fencing contractor promptly repaired the post within one week of this observation. No further issues were detected during subsequent inspections and Site security was maintained.

- The Site sign had fallen and was resecured to the chain-link fence.

Verification of the effectiveness of the Landfill Cover System is performed through the quarterly site inspections and measurement of groundwater elevations of piezometers (P-1 through P-6) and Manhole A and B during the quarterly inspections. Groundwater elevations demonstrate that the hydraulic control system remains in place, effectively controlling groundwater flow direction (see **Figures 3-1a, 3-1b, 3-1c and 3-1d**). Piezometers P-1, P-3, and P-5 are located outside of the slurry wall that runs along the perimeter of the Site. Piezometers P-2, P-4, and P-6 are inside the slurry wall and paired opposite the three piezometers outside the slurry wall. Leachate collected along the inside perimeter of the slurry wall is routed to Manhole A then Manhole B. A submersible sump pump, installed at the bottom of Manhole B, is set to turn on when groundwater reaches 563.32 feet above mean sea level (msl), and turn off when groundwater falls to 560.34 feet above msl. The depth to water for Manholes A and B are measured to see that they are less than or equal to 14.07 feet and 17.07 feet, respectively, indicating that the automatic sump pump is functioning.

Water level elevations are measured by means of an acoustical sounder or electronic water level probe. The sounder or probe is lowered into the manhole or piezometer until it makes contact with the free water surface. The depth from the top of the piezometer riser pipe or manhole rim to the water surface is measured to an accuracy of 0.01 ft. Depth to water measurements is converted into mean sea level elevations by referring to the surveyed elevation of the top of the piezometer riser pipe or manhole rim provided on the Groundwater Elevation Form. A summary of 2023 and historical groundwater elevations are shown in **Tables 3-1 and 3-2** and are visualized in graphs shown in the **Figure series 3-2a-c, 3-3a-c, 3-4a-c and 3-5**. The slurry wall elevation is also depicted on these figures for reference. Because the slurry wall elevation varies slightly depending on location, the elevation in the area near the applicable piezometer pair is used in each figure. For Figure 3-5, the slurry wall elevation depicted is the average of the elevations near Manhole A and Manhole B. The data presented in the forementioned Tables and Figures verify that groundwater elevations in MHB never exceeded 563.32 feet above msl during the Certifying Period and therefore the pump system is working correctly. In addition, elevation data shows fluctuations consistent with historical data.

Currently there are no outstanding maintenance items to be addressed. No excavations, change of use, or groundwater use occurred during the Certifying Period.

3.3 Certification

IC/EC certification is included in **Appendix A**.

4

Monitoring and Sampling Plan Compliance Report

4.1 Components of Monitoring and Sampling Plan

Operation, maintenance, and monitoring activities to be performed are presented in **Table 1** and include:

- Sitewide inspection of IC/ECs (See Section 4)
- Monitoring of the Landfill Cover System (See Section 4)
- Maintaining the current groundwater level monitoring system for the Site consisting of six piezometers (P-1 through P-6) and two manholes (A and B) to verify the inward hydraulic gradient within the capped area (See Section 4)
- Collecting sediment samples annually during “low water” periods from sediment traps located upstream and downstream of the Site. This includes an additional sample adjacent to a remediated portion of the Cayuga Creek bed.
- Remedial system sampling – routinely collecting water samples from Manhole B.
- Annual monitoring well sampling of upgradient and downgradient wells in accordance with the SMP to monitor groundwater quality at the Site.

4.2 Summary and Comparison to Remedial Objectives

The isolation of groundwater within the capped area has been established and is being maintained by current operation and maintenance activities. The groundwater monitoring and sampling is performed on an annual basis in rotating quarters to help assess seasonal variability with groundwater sampling field parameters presented in **Appendix B**.

Tables 4-1 through 4-3 present analytical results for monitoring wells, manholes, and sediment sampling locations. Results are compared to Groundwater Quality Standards (GWQS) and Sediment Guidance Values (GV) as applicable. Non-detect results are reported as less than the laboratory reporting limits (RLs), which for certain parameters are higher than GWQS or GVs. Future laboratory analysis will be performed to method detection limits (MDLs) below the allowable limits wherever possible.

4.2.1 Groundwater Results

Groundwater samples are taken from three locations offsite to verify that Site contaminants is not migrating. Samples are collected after purging three well casing volumes using a peristaltic pump with dedicated tubing. Collection intervals are taken on alternating seasons annually, this reporting period was during the Spring. The spring 2023 data show no detections in any of the groundwater monitoring locations offsite (See **Table 4-1**). Hexachlorobenzene is only required to be analyzed every other year of sampling for monitoring wells and is anticipated to be scheduled for 2024. Manhole B is required to be analyzed every 5 years and is anticipated to be sampled in 2026.

An additional sample is taken from Manhole B to verify that the system is capturing contaminants within the capped area and to monitor concentrations over time. This reporting period a slight increase was observed in delta-BHC (1.1 µg/L) compared to the two previous years and a decrease in beta-BHC was observed compared to last year. The results of Manhole B are negligible in regard to overall Site conditions; however, it does indicate possibly more leaching activity within the capped area resulting in slightly higher concentration of delta-BHC. A summarized table of results in 2023 for Manhole B is presented in **Table 4-2** and Historical Detections are provided in **Appendix C**.

4.2.2 Sediment Results

Currently two sediment locations are sampled: one immediately upstream of the Site and one downstream. These locations are sampled once per year, in the Fall or 'low water' period. Beginning with the October 2000 sample event, annual creek sediment samples have been analyzed for hexachlorocyclohexane (BHC) isomers only. Sample collection and analysis of creek sediments are performed annually during the second half of the calendar year. The fall 2023 data showed no detections in sediment sampling locations, consistent with historical results (See **Table 4-3**).

4.2.3 Groundwater Elevations

Water elevation data collected from the piezometers and manholes were used to determine whether an inward hydraulic gradient exists. Gradient direction was evaluated by comparing water level elevation measurements within the slurry wall. The groundwater elevation data indicates that groundwater within the slurry wall is consistent with historical data and remains at lower elevation of the slurry wall through the four quarters. An evaluation of data from the piezometer pairs at the Site indicates that historically an inward gradient toward the leachate capture system exists during all seasons and groundwater elevations never exceed above the top of the slurry wall. An evaluation of the seasonal trends from 2008 through 2023 shows that the spring elevations have remained consistent with all piezometers (**Table 3-2**). Piezometers P-1 and P-2 observe an outward gradient historically during both seasons; however, neither elevation observed reach above the slurry wall elevation. Furthermore, the nearby Manhole A groundwater elevation would indicate that an inward gradient toward the leachate collection system is still maintained. The fall data has shown roughly a 1.3 to 1.6 foot drop among the wells outside the slurry wall particularly in the northeast corner of the

Site. However, elevations within the slurry wall have remained consistent and remained below the slurry wall elevation during the Certifying Period. This is further evidence that the remedy has remained effective. Potentiometric maps shown in **Figures 3-1a-d** support effective remedy of continued inward capped area gradient toward the leachate collect system. Groundwater elevations from piezometers outside the slurry wall did not exceed the top of the slurry wall elevation during the Certifying Period; therefore, no groundwater from outside the capped area was captured.

Historical and 2023 elevation data are presented in **Tables 3-1** and **3-2** and are visualized in graphs, including the slurry wall elevations, shown in the **Figure series 3-2a-c, 3-3a-c, 3-4a-c** and **3-5**.

4.3 Deficiencies

None

4.4 Recommendations for Changes

No recommendations. Conditions at the Site are stable.

5

Operation & Monitoring (O&M) Plan Compliance Report

5.1 Components of the O&M Plan

Site remediation requirements have been met by Olin through rerouting of Cayuga Creek around and away from the waste, by constructing a fully circumscribing soil-bentonite slurry wall barrier, and through installing a double flexible membrane liner cap as part of the final cover with a perimeter collection drain system. The O&M Plan safeguards that remedy and provides for monitoring of the Site in compliance with the Settlement Agreement.

Quarterly inspections of the Site are conducted to identify potential problems with physical deterioration of structures, identify possible malfunctions of the slurry wall or of the perforated chlorinated polyvinyl chloride (CPVC) drain system, and to check that all Site remedial measures components are operating effectively, in accordance with the Settlement Agreement.

The Environmental Inspector conducts the inspections to confirm that the remedial measures at the Site remain operative. Additionally, the inspections address the safeguards to control, minimize or eliminate threats to human health and the environment. Operation, maintenance, and monitoring activities are conducted to identify proposed changes to the O&M Manual or Site procedures that may provide a safer and/or more efficient and cost-effective operation.

Recordkeeping is conducted for each Site visit and inspection which can be found in **Appendix B**.

5.2 O&M Summary

The groundwater collection system is inspected for the buildup of hard or soft scale-like deposits. The inspection is performed concurrently with inspection of the capped area. No components of the groundwater collection system were found to be damaged or malfunctioning; therefore no need for repairs or replacement were identified.

The capped area is mowed on a regular basis to prevent establishment of woody vegetation. The capped area functions as designed and complies with the O&M Plan.

Inspections are conducted using the items listed on the Site Inspection Form presented in **Appendix B**. Information to be entered on these forms includes the inspector's name, date, time of inspection, item inspected, and comments. The inspector indicates on the forms whether the condition of each item was acceptable or unacceptable to confirm that the requirements of the O&M Plan are fulfilled. The scheduled Site monitoring inspections are performed by a qualified individual assigned to inspect the items and systems noted on the Site Inspection Form. The completed Site Inspection Forms are maintained at Olin Environmental Remediation offices in Cleveland, TN. Inspections are performed, at a minimum, on a quarterly basis.

5.3 Evaluation of Remedial Systems

All components are performing as designed. Manhole B sump was online for the entire Certifying Period.

5.4 O&M deficiencies

None. There are no outstanding maintenance items.

5.5 Conclusions

The O&M system is being run and maintained properly and does not require additions or modifications at this time.

6

Overall PRR Conclusions and Recommendations

6.1 Compliance with SMP

Based on information provided in Sections 3, 4 and 5 Olin has adhered to the requirements outlined in the SMP. There are no new exposure pathways present at the Site, and additional plans/modifications are not necessary.

6.2 Remedy Effectiveness

The groundwater elevation data indicates that groundwater within the capped area is consistent with historical data and is being maintained by current operation and maintenance activities.

Review of the groundwater elevation data also indicate that inward hydraulic gradients were observed between piezometers within the capped area and piezometers outside of the capped area with previously noted exceptions. Fluctuations of groundwater elevations indicate that minor outward hydraulic gradients historically occur, but typically revert back to inward gradients by the next quarter and that elevations within the capped area during these fluctuations remain relatively stable in comparison to those outside the slurry wall.

There are no observations indicating impact to the adjacent Cayuga Creek bed, as the sediment sample results indicate non-detections in all three locations.

Based on the data developed to date, the remedy has been effective in attaining the remedial objectives.

6.3 Recommendations

Historically, O&M activities, inspections and sampling activities yield expected results which ultimately conclude that remedial measures remain effective over a long-term monitoring program. In addition, the Site has historically improved since the implementation of Site remedies, as evidenced by the allowance of directly discharging Site wastewater to the Niagara Falls WWTP and the downgrading of the Site to a NYSDEC Registry of Inactive Hazardous Waste Disposal Sites Level 4. The Site does not pose an immediate threat to human health or the environment with the current remedy in place.

6 Overall PRR Conclusions and Recommendations

Hydraulic control continues to be maintained on Site, and recent groundwater and sediment data are generally non-detect or below guidance values, a reduction in sampling locations, parameters, and/or frequency may be warranted. Olin will perform an evaluation of historical groundwater and sediment data and prepare a Monitoring Optimization Request for NYSDEC approval, with a goal of establishing a reduced LTMP in 2024.

6.4 Future Submittals

Future submittals of this report will continue to be submitted annually, typically on or around March 1 of each year, as dictated by NYSDEC.

Tables

TABLE 1-1
CHARLES GIBSON SITE
NIAGARA FALLS, NEW YORK

SAMPLING AND ANALYSIS PLAN

Requirement	Element	Frequency
Inspections	Fencing, gates, and Site access	Quarterly
	Monitoring well integrity	
	Landfill Cover System	
Monitoring	Hydraulic Monitoring	Quarterly
	Manhole B water samples	Annual (BHC Isomers)
		Every 5 Years (HBC)
Monitoring wells MW-A3, MW-4, MW-5	Annual (BHC Isomers)	
Maintenance	Pump maintenance	As needed
	Landfill cover mowing	Annual
Reporting	Periodic Review Report	Annual

Notes:

BHC = hexachlorocyclohexane

HCB = hexachlorobenzene

**TABLE 3-1
CHARLES GIBSON SITE
NIAGARA FALLS, NEW YORK**

**GROUND WATER ELEVATIONS
ELEVATION MEASUREMENTS 2008-2023**

Groundwater Elevations (Feet Above Mean Sea Level)

PIEZOMETER								
DATE	P1	P2	P3	P4	P5	P6	MHA	MHB
MP	572.86	575	574.18	576.4	575.09	578.34	575.27	577.41
2/13/2008	NA	NA	NA	NA	NA	NA	NA	NA
4/3/2008	565.44	565.50	567.55	565.44	569.84	567.99	564.13	564.17
9/11/2008	566.13	565.28	566.31	565.20	568.37	567.39	564.11	564.23
11/5/2008	565.46	565.24	566.52	565.17	568.76	567.43	563.81	563.89
2/13/2009	NA	NA	NA	NA	NA	NA	NA	NA
4/2/2009	565.46	565.43	566.81	565.34	569.11	567.77	563.97	564.03
9/17/2009	566.37	565.42	566.51	565.29	568.60	567.58	563.67	563.74
11/23/2009	565.31	565.29	566.41	565.24	568.70	567.37	563.52	563.61
3/3/2010	565.27	565.42	566.18	565.22	568.83	567.57	563.77	563.84
4/14/2010	565.72	565.46	567.05	565.19	569.45	567.77	564.02	564.09
9/17/2010	566.40	565.20	564.91	565.07	567.23	566.93	564.20	563.68
11/11/2010	564.53	565.16	565.57	565.02	567.40	566.78	563.82	563.88
3/9/2011	565.05	565.49	568.11	565.42	569.75	567.88	563.94	564.03
4/19/2011	565.50	565.48	567.74	565.26	569.46	567.77	564.01	564.15
9/22/2011	565.54	565.28	565.11	565.18	567.27	567.09	563.42	563.46
11/8/2011	565.33	565.41	567.41	565.28	568.77	567.53	563.32	563.40
3/15/2012	565.36	565.54	568.25	565.34	569.23	567.75	564.21	567.27
5/22/2012	566.01	565.50	567.40	565.46	569.01	567.75	563.40	563.49
9/17/2012	564.50	565.26	564.37	565.16	566.77	566.80	563.47	563.53
11/9/2012	564.51	565.38	568.28	565.22	568.40	567.25	563.62	563.99
3/6/2013	565.32	565.54	569.56	565.34	569.35	567.83	563.92	564.09
5/13/2013	565.63	565.43	567.74	565.24	568.75	567.63	563.67	563.73
9/18/2013	565.62	565.33	566.04	565.26	567.79	567.24	563.29	563.33
11/6/2013	565.35	565.51	569.11	566.09	569.17	567.70	563.36	563.42
3/18/2014	565.34	565.49	569.24	565.19	569.35	567.76	563.86	563.89
5/9/2014	565.50	565.50	568.44	565.35	569.36	567.82	563.83	563.91
9/18/2014	565.54	566.88	565.37	568.55	567.76	567.17	563.27	563.32
12/8/2014	566.65	565.08	568.15	565.15	568.14	566.86	563.50	563.56
3/11/2015	565.15	564.68	567.45	565.15	568.39	567.07	568.80	563.89
5/27/2015	565.84	565.53	566.71	565.44	568.46	567.49	563.84	563.83
9/1/2015	565.16	565.41	565.17	565.49	567.46	577.07	563.51	563.54
11/10/2015	564.97	565.40	566.11	565.34	568.92	567.07	563.67	563.76
3/8/2016	565.08	565.67	570.39	565.46	569.34	567.67	563.51	563.59
5/27/2016	565.87	565.56	567.24	565.50	568.60	567.88	563.94	563.48
9/8/2016	564.27	565.37	563.95	565.33	566.18	566.53	563.32	563.49
11/11/2016	563.28	565.11	565.17	565.17	565.44	566.13	563.36	563.39
3/7/2017	565.22	565.58	570.75	565.37	568.68	567.07	563.64	563.74
5/30/2017	566.00	566.31	568.71	565.43	569.09	567.63	563.57	563.63
9/6/2017	565.12	565.48	565.88	565.49	566.60	567.33	563.40	563.49
11/21/2017	565.01	565.51	569.92	565.43	569.24	567.60	563.52	563.60
3/13/2018	565.64	565.54	568.64	565.49	568.26	567.77	563.77	563.79
5/24/2018	565.90	565.53	567.21	565.35	568.70	567.57	563.24	563.31
9/25/2018	564.33	565.34	563.86	569.13	566.20	567.12	563.10	563.14
11/18/2018	563.33	565.19	568.91	568.16	568.85	566.57	563.21	563.25
3/7/2019	565.52	565.58	567.96	567.75	569.08	567.67	563.90	563.99
5/21/2019	566.11	565.58	568.87	565.46	569.43	567.88	563.63	563.69
9/24/2019	564.91	565.35	564.71	565.22	567.90	567.17	562.94	563.03
11/6/2019	564.74	565.40	567.51	565.19	568.85	567.36	563.08	563.14
3/19/2020	565.57	566.69	568.44	566.59	569.24	567.78	566.53	566.62

Groundwater Elevations (Feet Above Mean Sea Level)

PIEZOMETER								
DATE	P1	P2	P3	P4	P5	P6	MHA	MHB
MP	572.86	575	574.18	576.4	575.09	578.34	575.27	577.41
5/18/2020	566.49	565.55	567.55	565.51	568.85	567.58	560.67	560.72
9/22/2020	563.89	565.36	563.63	565.19	566.49	566.62	561.88	561.98
11/12/2020	563.02	565.17	562.54	564.89	565.75	566.16	562.03	562.09
3/17/2021	563.99	570.51	567.72	565.28	568.79	567.12	562.61	562.66
5/12/2021	565.47	565.44	568.11	565.18	568.62	567.15	562.87	562.94
9/20/2021	564.73	565.48	564.28	565.78	567.75	567.13	562.81	562.90
11/8/2021	565.18	565.54	567.7	565.49	569.17	567.68	562.81	562.90
3/16/2022	565.39	565.57	570	565.53	569.34	567.66	563.04	563.14
5/18/2022	565.85	565.58	567.36	565.46	568.85	567.58	563.02	563.09
9/20/2022	564.37	565.39	563.76	565.3	566.73	566.68	563.18	563.25
11/17/2022	564.45	565.31	567.26	565.49	568.01	566.99	563.01	563.06
3/15/2023	565.36	565.57	568.43	565.79	569.54	567.79	562.97	563.30
5/18/2023	565.86	565.59	567.17	565.77	568.76	567.54	563.06	563.12
8/22/2023	565.41	565.4	565.38	565.31	567.54	566.95	562.78	563.04
11/15/2023	563.92	565.28	563.63	565.21	567.29	566.7	563.16	563.24

Notes:

MP - Measuring Point

NA - Not Available

2023 Certifying Period

**TABLE 3-2
CHARLES GIBSON SITE
NIAGARA FALLS, NEW YORK**

**SEASONAL GROUND WATER ELEVATIONS
ELEVATION MEASUREMENTS 2008-2023**

Seasonal Groundwater Elevations (Feet Above Mean Sea Level)

PIEZOMETER - Spring								
DATE	P1	P2	P3	P4	P5	P6	MHA	MHB
2/13/2008	NA	NA	NA	NA	NA	NA	NA	NA
4/3/2008	565.44	565.50	567.55	565.44	569.84	567.99	564.13	564.17
2/13/2009	NA	NA	NA	NA	NA	NA	NA	NA
4/2/2009	565.46	565.43	566.81	565.34	569.11	567.77	563.97	564.03
3/3/2010	565.27	565.42	566.18	565.22	568.83	567.57	563.77	563.84
4/14/2010	565.72	565.46	567.05	565.19	569.45	567.77	564.02	564.09
3/9/2011	565.05	565.49	568.11	565.42	569.75	567.88	563.94	564.03
4/19/2011	565.50	565.48	567.74	565.26	569.46	567.77	564.01	564.15
3/15/2012	565.36	565.54	568.25	565.34	569.23	567.75	564.21	567.27
5/22/2012	566.01	565.50	567.40	565.46	569.01	567.75	563.40	563.49
3/6/2013	565.32	565.54	569.56	565.34	569.35	567.83	563.92	564.09
5/13/2013	565.63	565.43	567.74	565.24	568.75	567.63	563.67	563.73
3/18/2014	565.34	565.49	569.24	565.19	569.35	567.76	563.86	563.89
5/9/2014	565.50	565.50	568.44	565.35	569.36	567.82	563.83	563.91
3/11/2015	565.15	564.68	567.45	565.15	568.39	567.07	568.80	563.89
5/27/2015	565.84	565.53	566.71	565.44	568.46	567.49	563.84	563.83
3/8/2016	565.08	565.67	570.39	565.46	569.34	567.67	563.51	563.59
5/27/2016	565.87	565.56	567.24	565.50	568.60	567.88	563.94	563.48
3/7/2017	565.22	565.58	570.75	565.37	568.68	567.07	563.64	563.74
5/30/2017	566.00	566.31	568.71	565.43	569.09	567.63	563.57	563.63
3/13/2018	565.64	565.54	568.64	565.49	568.26	567.77	563.77	563.79
5/24/2018	565.90	565.53	567.21	565.35	568.70	567.57	563.24	563.31
3/7/2019	565.52	565.58	567.96	567.75	569.08	567.67	563.90	563.99
5/21/2019	566.11	565.58	568.87	565.46	569.43	567.88	563.63	563.69
3/19/2020	565.57	566.69	568.44	566.59	569.24	567.78	566.53	566.62
5/18/2020	566.49	565.55	567.55	565.51	568.85	567.58	560.67	560.72
3/17/2021	563.99	570.51	567.72	565.28	568.79	567.12	562.61	562.66
5/12/2021	565.47	565.44	568.11	565.18	568.62	567.15	562.87	562.94
3/16/2022	565.39	565.57	570	565.53	569.34	567.66	563.04	563.14
5/18/2022	565.85	565.58	567.36	565.46	568.85	567.58	563.02	563.09
3/15/2023	565.36	565.57	568.43	565.79	569.54	567.79	562.97	563.30
5/18/2023	565.86	565.59	567.17	565.77	568.76	567.54	563.06	563.12

Notes:

NA-Not Available

2023 Certifying Period

PIEZOMETER - Fall								
DATE	P1	P2	P3	P4	P5	P6	MHA	MHB
9/11/2008	566.13	565.28	566.31	565.20	568.37	567.39	564.11	564.23
11/5/2008	565.46	565.24	566.52	565.17	568.76	567.43	563.81	563.89
9/17/2009	566.37	565.42	566.51	565.29	568.60	567.58	563.67	563.74
11/23/2009	565.31	565.29	566.41	565.24	568.70	567.37	563.52	563.61
9/17/2010	566.40	565.20	564.91	565.07	567.23	566.93	564.20	563.68
11/11/2010	564.53	565.16	565.57	565.02	567.40	566.78	563.82	563.88
9/22/2011	565.54	565.28	565.11	565.18	567.27	567.09	563.42	563.46
11/8/2011	565.33	565.41	567.41	565.28	568.77	567.53	563.32	563.40
9/17/2012	564.50	565.26	564.37	565.16	566.77	566.80	563.47	563.53
11/9/2012	564.51	565.38	568.28	565.22	568.40	567.25	563.62	563.99
9/18/2013	565.62	565.33	566.04	565.26	567.79	567.24	563.29	563.33
11/6/2013	565.35	565.51	569.11	566.09	569.17	567.70	563.36	563.42
9/18/2014	565.54	566.88	565.37	568.55	567.76	567.17	563.27	563.32
12/8/2014	566.65	565.08	568.15	565.15	568.14	566.86	563.50	563.56
9/1/2015	565.16	565.41	565.17	565.49	567.46	577.07	563.51	563.54
11/10/2015	564.97	565.40	566.11	565.34	568.92	567.07	563.67	563.76
9/8/2016	564.27	565.37	563.95	565.33	566.18	566.53	563.32	563.49
11/11/2016	563.28	565.11	565.17	565.17	565.44	566.13	563.36	563.39
9/6/2017	565.12	565.48	565.88	565.49	566.60	567.33	563.40	563.49
11/21/2017	565.01	565.51	569.92	565.43	569.24	567.60	563.52	563.60
9/25/2018	564.33	565.34	563.86	569.13	566.20	567.12	563.10	563.14
11/18/2018	563.33	565.19	568.91	568.16	568.85	566.57	563.21	563.25
9/24/2019	564.91	565.35	564.71	565.22	567.90	567.17	562.94	563.03
11/6/2019	564.74	565.40	567.51	565.19	568.85	567.36	563.08	563.14
9/22/2020	563.89	565.36	563.63	565.19	566.49	566.62	561.88	561.98
11/12/2020	563.02	565.17	562.54	564.89	565.75	566.16	562.03	562.09
9/20/2021	564.73	565.48	564.28	565.78	567.75	567.13	562.81	562.90

11/8/2021	565.18	565.54	567.7	565.49	569.17	567.68	562.81	562.90
9/20/2022	564.37	565.39	563.76	565.3	566.73	566.68	563.18	563.25
11/17/2022	564.45	565.31	567.26	565.49	568.01	566.99	563.01	563.06
8/22/2023	565.41	565.4	565.38	565.31	567.54	566.95	562.78	563.04
11/15/2023	563.92	565.28	563.63	565.21	567.29	566.7	563.16	563.24

Notes:

2023 Certifying Period

**TABLE 4-1
CHARLES GIBSON SITE
NIAGARA FALLS, NEW YORK**

**ANALYTICAL SUMMARY
GROUND WATER SAMPLING 2017-2023**

MONITOR WELL: MW-A3

	GA	2017	2018	2019	2020	2021	2022	2023
Parameter		May	September	May	September	March	September	March
Alpha-BHC	0.01	0.047U	-	-	-	0.049U	-	0.046U
Beta-BHC	0.04	0.047U	-	-	-	0.049U	-	0.046U
Gamma-BHC	0.05	0.047U	-	-	-	0.049U	-	0.046U
Delta-BHC	0.04	0.047U	-	-	-	0.049U	-	0.046U
Hexachlorobenzene	0.04	NR	-	-	-	NR	-	0.046U

MONITOR WELL: MW-4

		2017	2018	2019	2020	2021	2022	2023
Parameter		May	September	May	September	March	September	March
Alpha-BHC	0.01	0.047U	0.047U	0.13	0.047U	0.045U	0.046U	0.045U
Beta-BHC	0.04	0.047U	0.047U	0.047U	0.047U	0.045U	0.046U	0.045U
Gamma-BHC	0.05	0.047U	0.047U	0.48	0.047U	0.045U	0.046U	0.045U
Delta-BHC	0.04	0.047U	0.047U	0.18	0.047U	0.045U	0.046U	0.045U
Hexachlorobenzene	0.04	NR	9.4U	NR	9.4U	NR	8.8U	NR

MONITOR WELL: MW-5

		2017	2018	2019	2020	2021	2022	2023
Parameter		May	September	May	September	March	September	March
Alpha-BHC	0.01	0.047U	0.047U	0.1	0.047U	0.050U	0.044U	0.045U
Beta-BHC	0.04	0.047U	0.047U	0.047U	0.047U	0.050U	0.044U	0.045U
Gamma-BHC	0.05	0.047U	0.047U	0.41	0.047U	0.050U	0.044U	0.045U
Delta-BHC	0.04	0.047U	0.047U	0.25	0.047U	0.050U	0.044U	0.045U
Hexachlorobenzene	0.04	NR	9.4U	NR	9.4U	NR	8.8U	NR

Notes:

Concentration in ug/l

- insufficient sample

U Not detected at reported quantitation limit

J Estimated value

NR Not required

Next hexachlorobenzene (HCB) sampling scheduled for 2025.

GA Guidance value for groundwater effluent limitations as established by 6CRR-NY 703.6

Shaded values indicated exceedances of GA values

Table 4-2
Charles Gibson Site
Niagara Falls, New York

Analytical Results
Annual Manhole B Leachate Sampling

MANHOLE B (MHB)

PARAMETER	15-Mar-23
alpha-BHC	0.046U
delta-BHC	1.1
gamma-BHC	0.046U
Hexachlorobenzene	NR

Notes:

U - Not detected at reported quantitation limit

J - Estimated value (see data narrative)

NR - Not Required

Concentration in ug/L

Field blank was non-detect for all parameters of interest.

Data has been validated and judged acceptable as qualified.

Next hexachlorobenzene (HCB) sampling scheduled for 2025.

**TABLE 4-3
Charles Gibson Site
Niagara Falls, New York**

**ANALYTICAL SUMMARY
ANNUAL CAYUGA CREEK SEDIMENT SAMPLING
RESULTS 2010 - 2023**

UPSTREAM

Parameter	Class A GV	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2021	2022	2023
		September	September	September	September	September	September	September	September	September	September	September	May	September	September	September
Alpha- BHC	NA	94	200J	17	170J	120	NS	9.7	200	57U	3200	270	32U	150U	66UJ	22U
Beta- BHC	NA	97	120J	48	190J	280	NS	25	190	57U	1100	350	32U	150U	66U	22U
Gamma- BHC	47	33J	190U	5.5U	28U	49U	NS	5.6U	51U	57U	510U	59U	32U	150U	66UJ	22U
Delta- BHC	NA	52J	140J	23	28U	49U	NS	19	51U	57U	510U	59U	32U	150U	66U	22U

DOWNSTREAM

Parameter	Class A GV	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		2021	2022	2023
		September	September	September	September	September	September	September	September	September	September	September	May	September	September	September
Alpha- BHC	NA	53J	230J	9.8	29U	55	52U	7	69U	63U	NS	73U	40U	NS	81UJ	29U
Beta- BHC	NA	62J	130J	37	89	100	76	18	87	63U	NS	110	40U	NS	81U	29U
Gamma- BHC	47	63U	220U	5.9U	29U	52U	52U	4.9U	69U	63U	NS	73U	40U	NS	81UJ	29U
Delta- BHC	NA	56J	170J	18	29U	52U	52U	15	69U	63U	NS	73U	40U	NS	81U	29U

Notes:

Concentration in microgram per kilogram (ug/kg)

U Not detected at reported quantitation limit

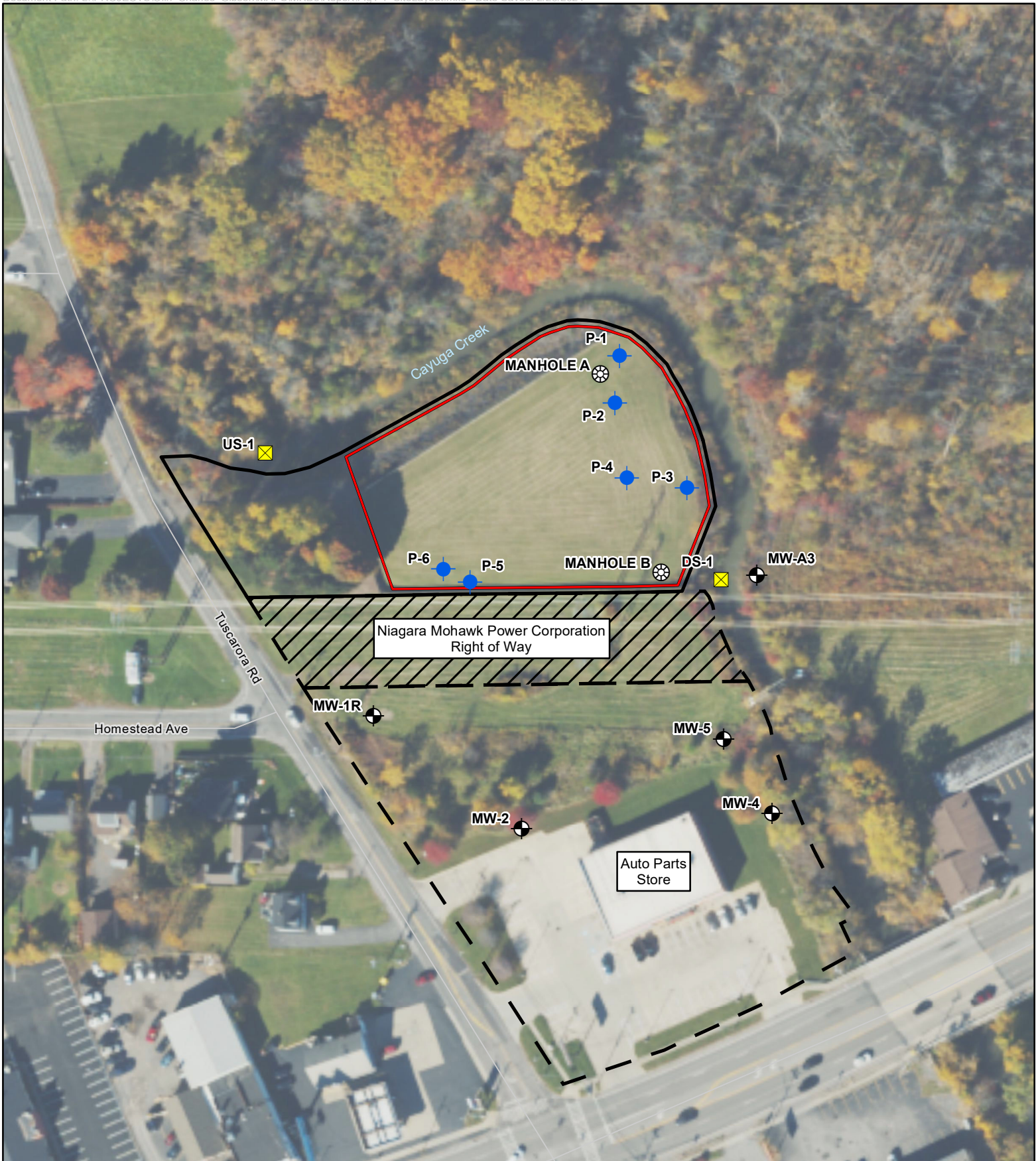
J Estimated value

NA Not Applicable

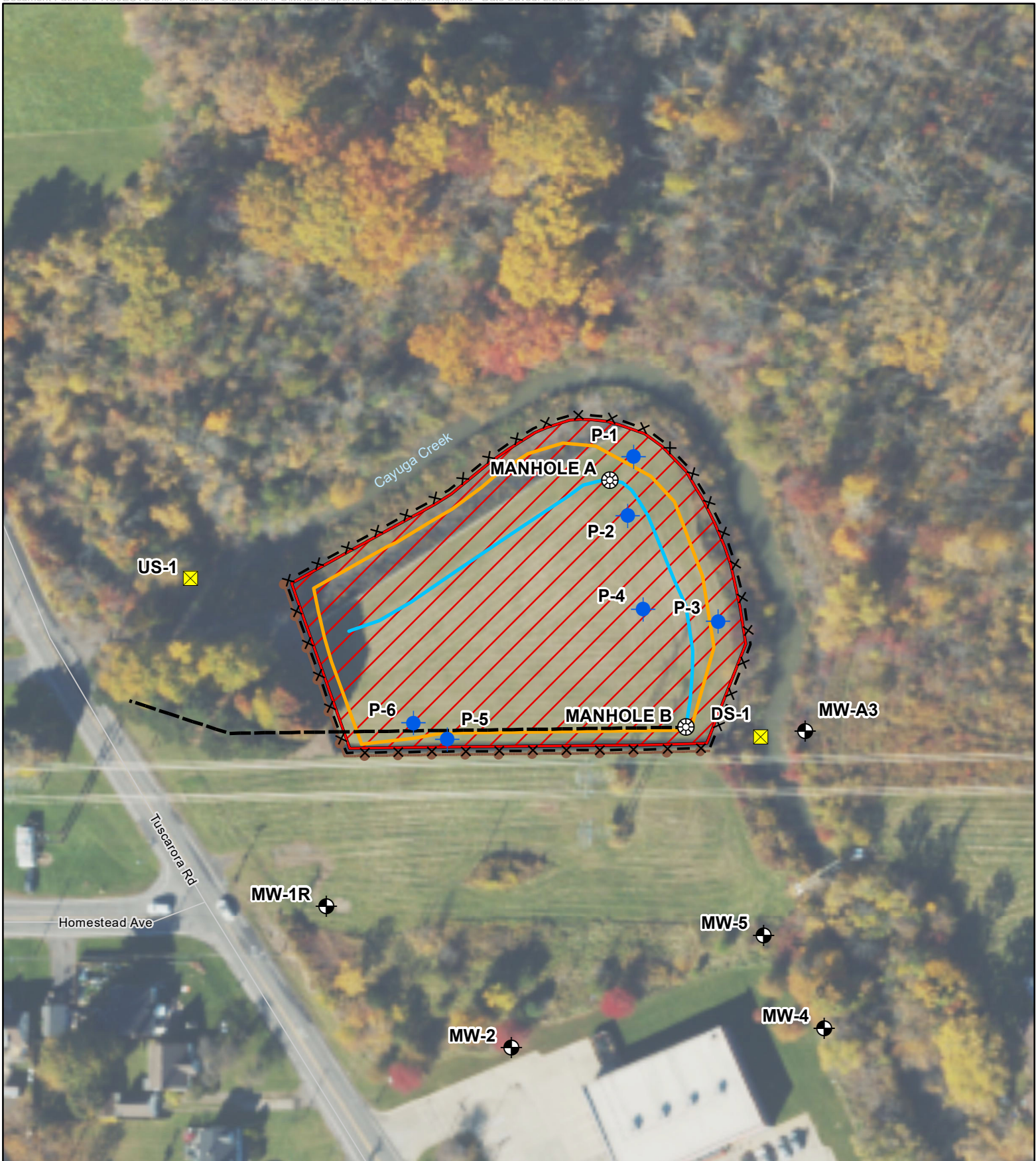
NS No sample in trap

Class A GV Guidance value for groundwater effluent limitations as established by 6CRR-NY 703.6

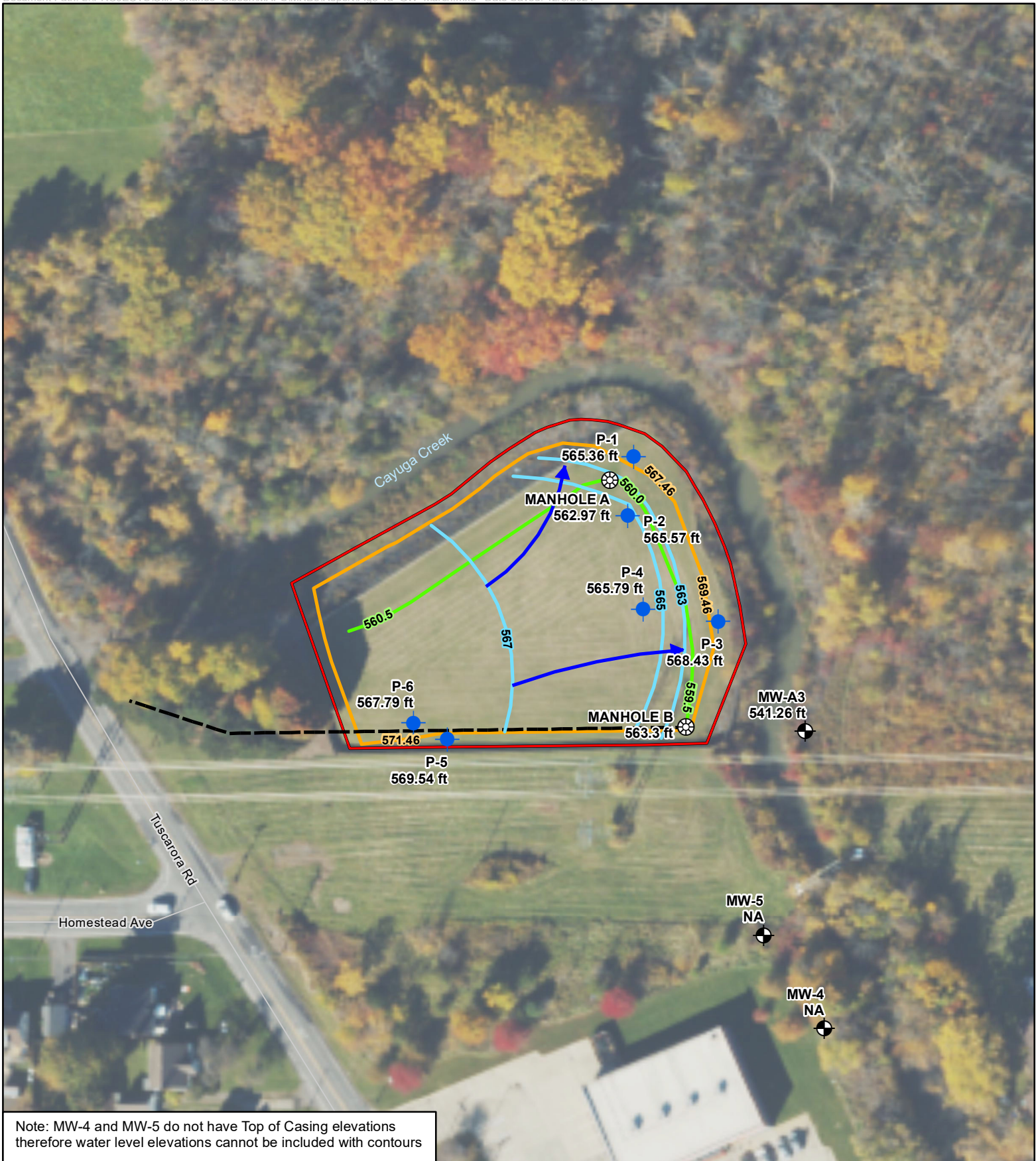
Figures



<ul style="list-style-type: none"> Street Site Boundary Former Property Boundary Former Property Boundary (ROW) Current Property Boundary 	<ul style="list-style-type: none"> Monitoring Well Piezometer Manhole Sediment Trap 		<p>Figure 1-1 Site Layout 2023 Periodic Review Report Olin Charles Gibson</p> <p>Niagara Falls, New York</p>
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<ul style="list-style-type: none"> × — Chain Link Fence — Direct Discharge Line to Niagara Falls Waste Water Treatment Facility — Wooden Picket Fence — Drain Pipe — Slurry Wall ▨ Landfill Cap 	<ul style="list-style-type: none"> ⊕ Monitoring Well ● Piezometer ⊗ Manhole ⊠ Sediment Trap 		<p align="center">Figure 1-2 Engineering and Institutional Control Boundaries 2023 Periodic Review Report Olin Charles Gibson</p> <p align="center">Niagara Falls, New York</p>
<p>0 50 100 Feet</p>			



Note: MW-4 and MW-5 do not have Top of Casing elevations therefore water level elevations cannot be included with contours

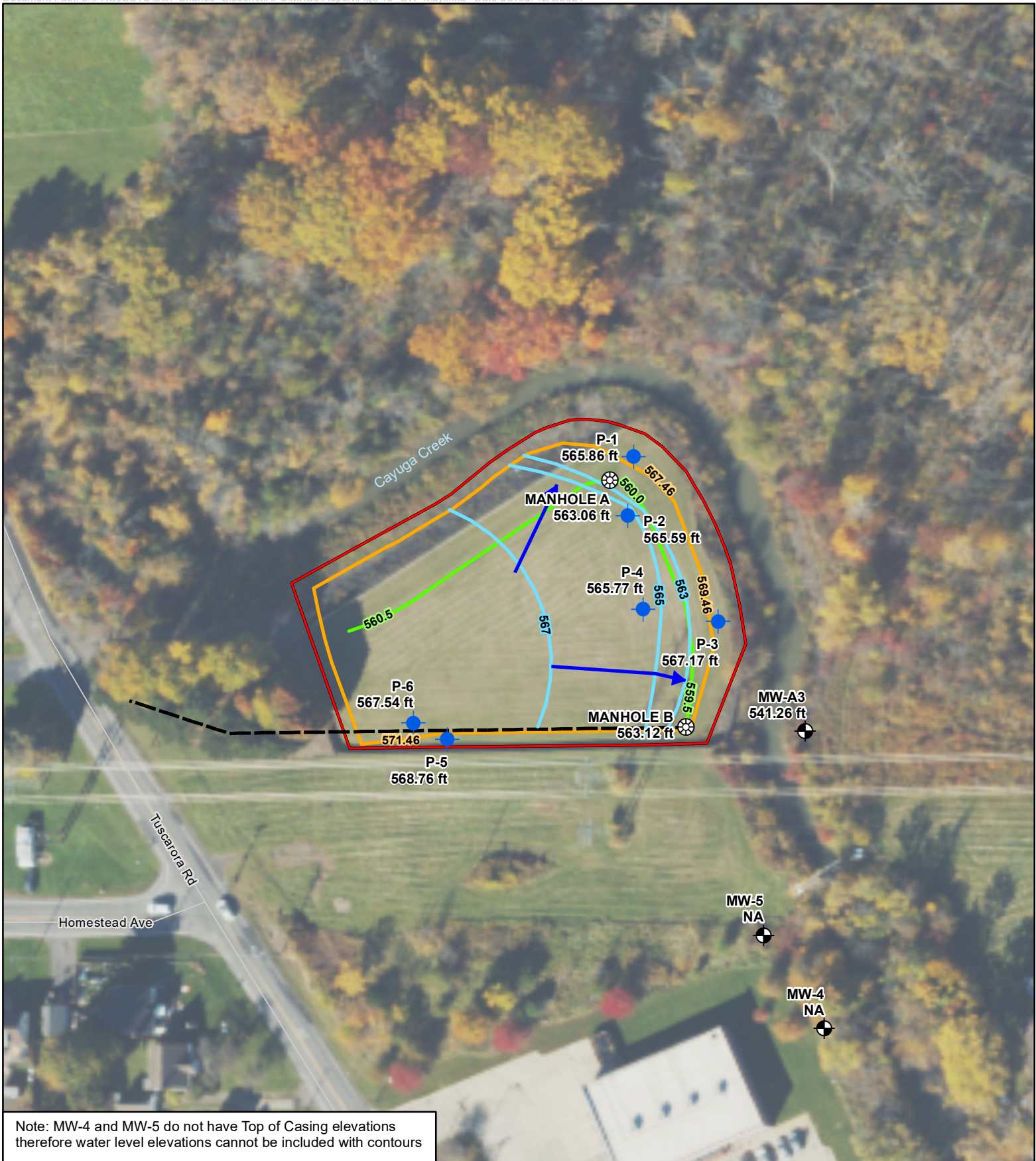
- Groundwater Contour
- Flow Direction
- Direct Discharge Line to Niagara Falls Waste Water Treatment Facility
- Drain Pipe
- Slurry Wall
- Site Boundary
- Monitoring Well
- Piezometer
- Manhole

0 50 100 Feet



Figure 3-1a
Q1 March 15, 2023
Groundwater
Potentiometric Map of
Piezometer/Manhole
Elevations

2023 Periodic Review Report
 Olin Charles Gibson
 Niagara Falls, New York



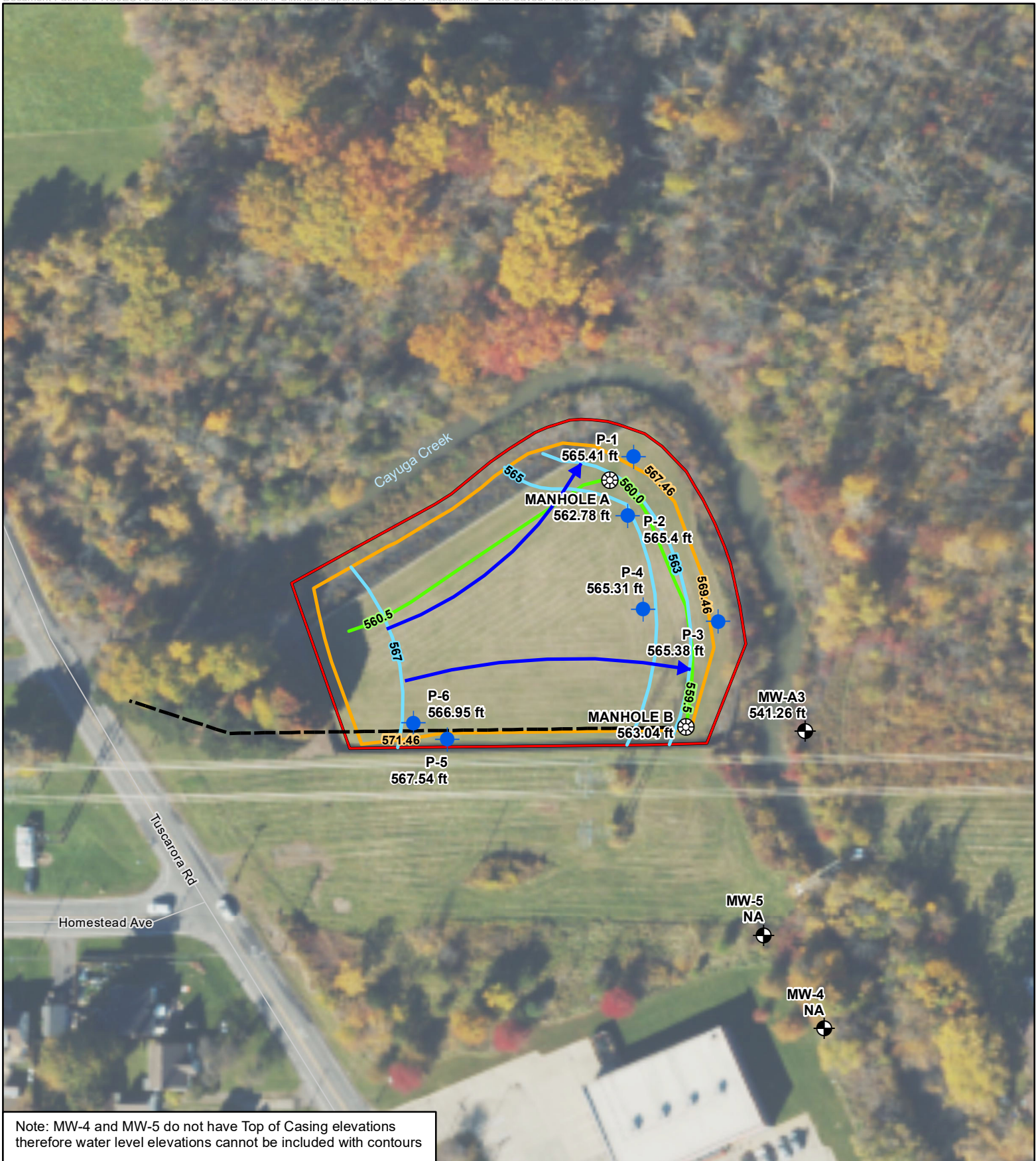
Note: MW-4 and MW-5 do not have Top of Casing elevations therefore water level elevations cannot be included with contours

Groundwater Contour	Monitoring Well
Flow Direction	Piezometer
Direct Discharge Line to Niagara Falls Waste Water Treatment Facility	Manhole
Drain Pipe	
Slurry Wall	
Site Boundary	

0 50 100 Feet

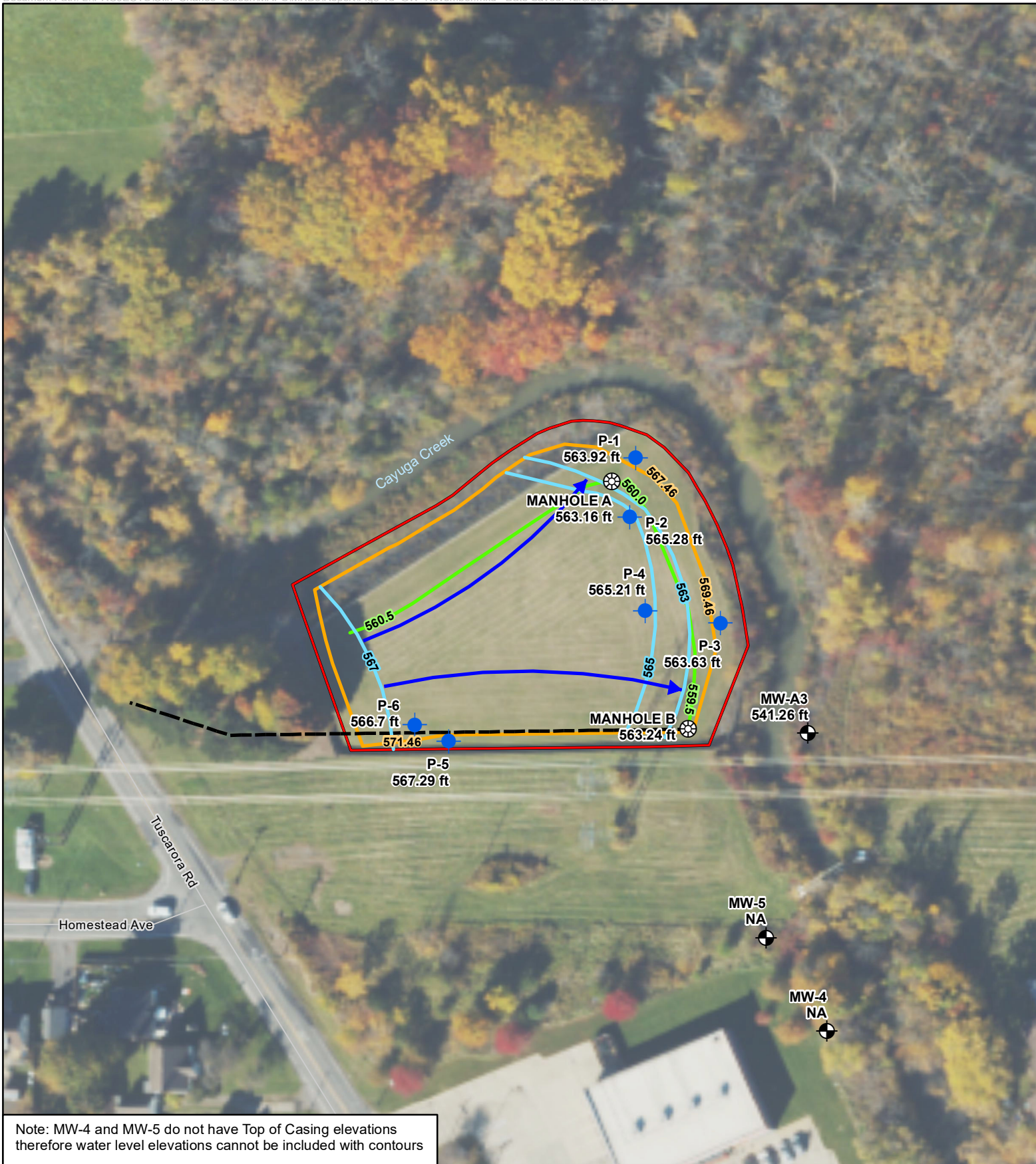
Figure 3-1b
Q2 May 8, 2023
Groundwater
Potentiometric Map of
Piezometer/Manhole
Elevations

2023 Periodic Review Report
 Olin Charles Gibson
 Niagara Falls, New York



Note: MW-4 and MW-5 do not have Top of Casing elevations therefore water level elevations cannot be included with contours

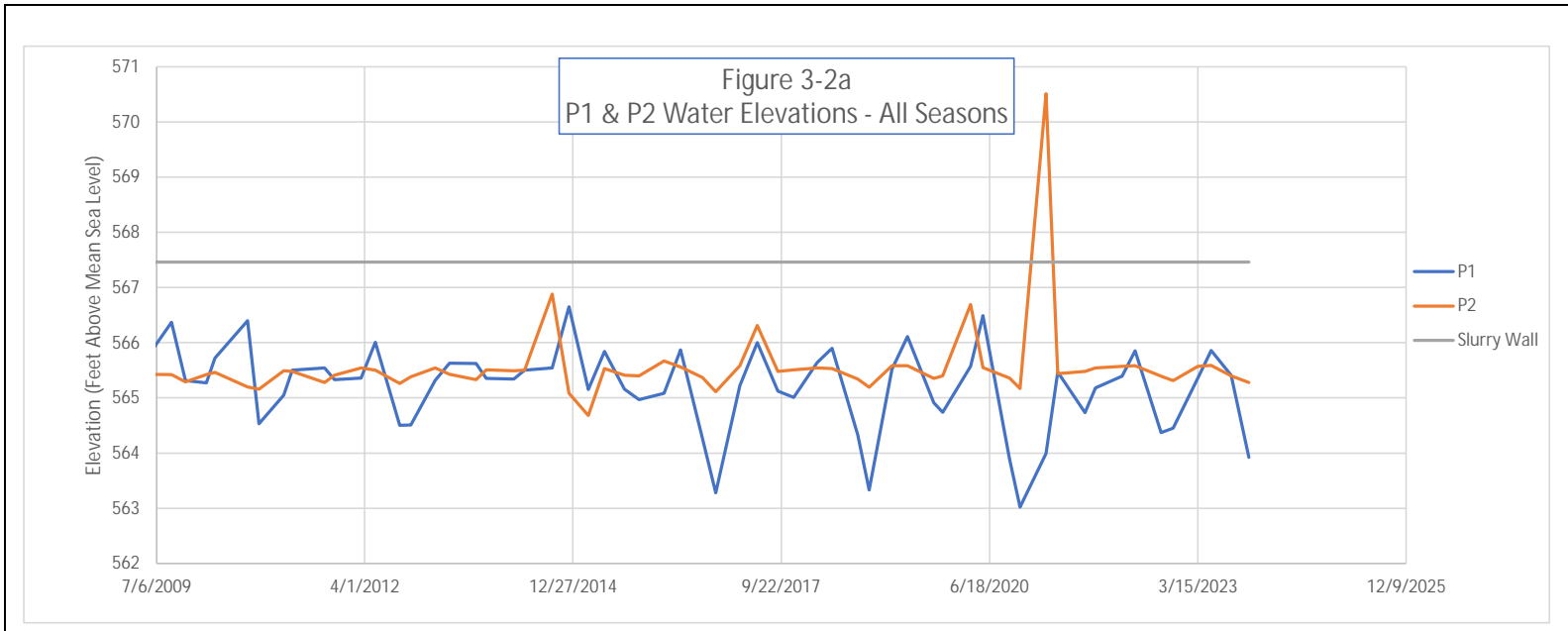
Groundwater Contour	Monitoring Well		<p>Figure 3-1c Q3 August 22, 2023 Groundwater Potentiometric Map of Piezometer/Manhole Elevations</p> <p>2023 Periodic Review Report Olin Charles Gibson Niagara Falls, New York</p>
Flow Direction	Piezometer		
Direct Discharge Line to Niagara Falls Waste Water Treatment Facility	Manhole		
Drain Pipe			
Slurry Wall			
Site Boundary			

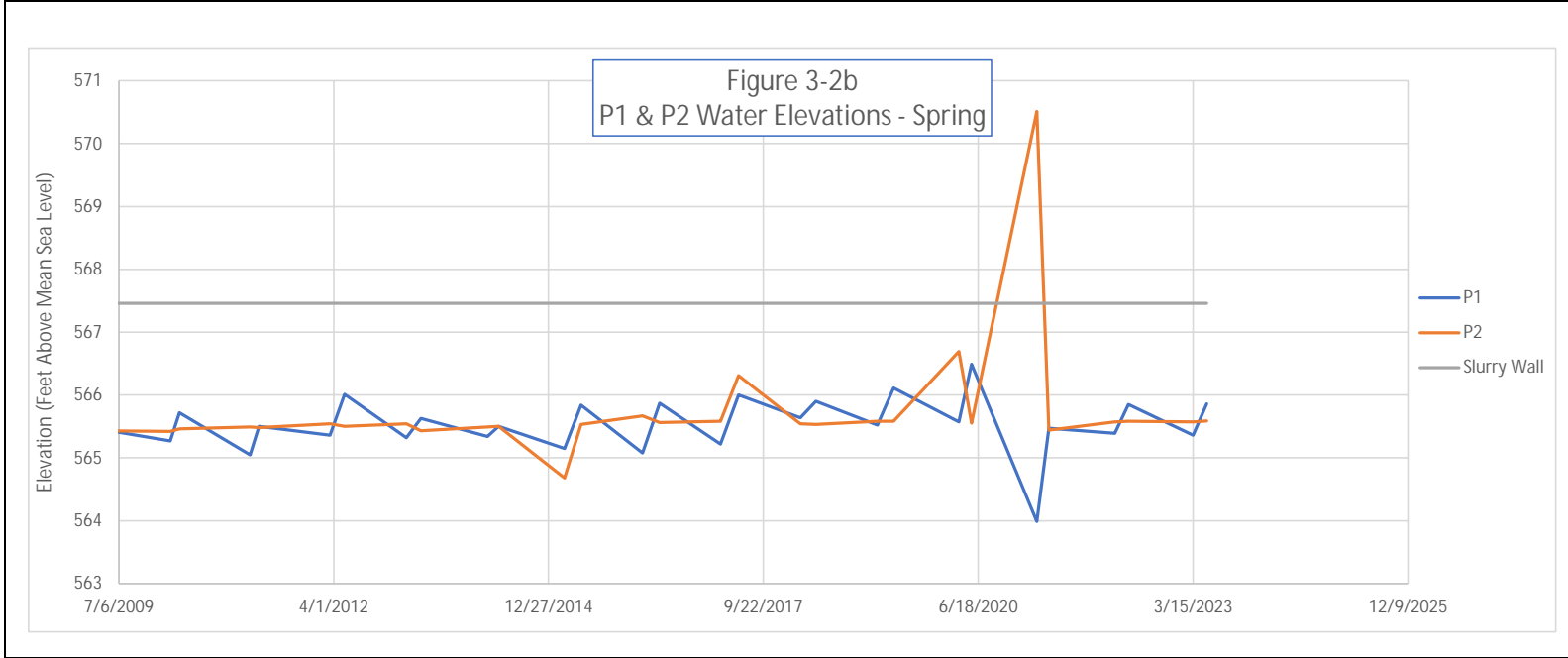


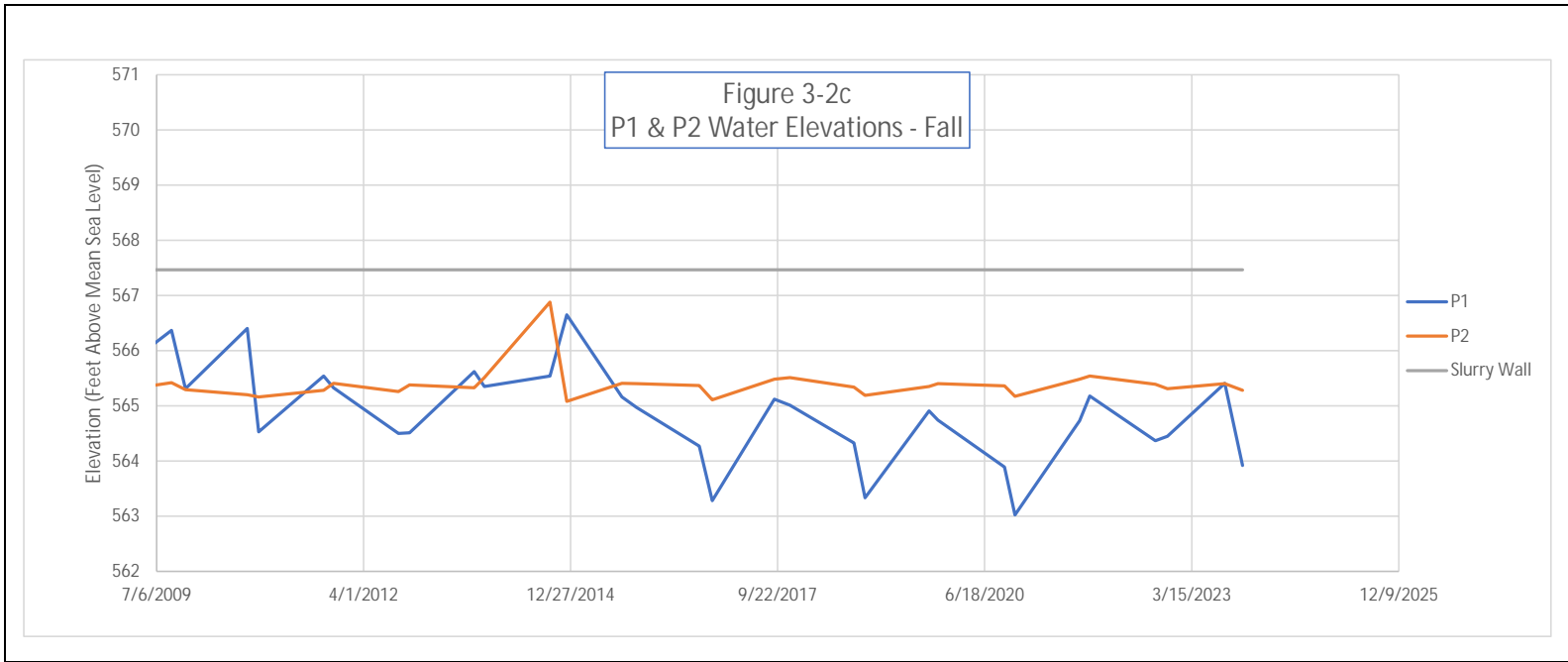
Note: MW-4 and MW-5 do not have Top of Casing elevations therefore water level elevations cannot be included with contours

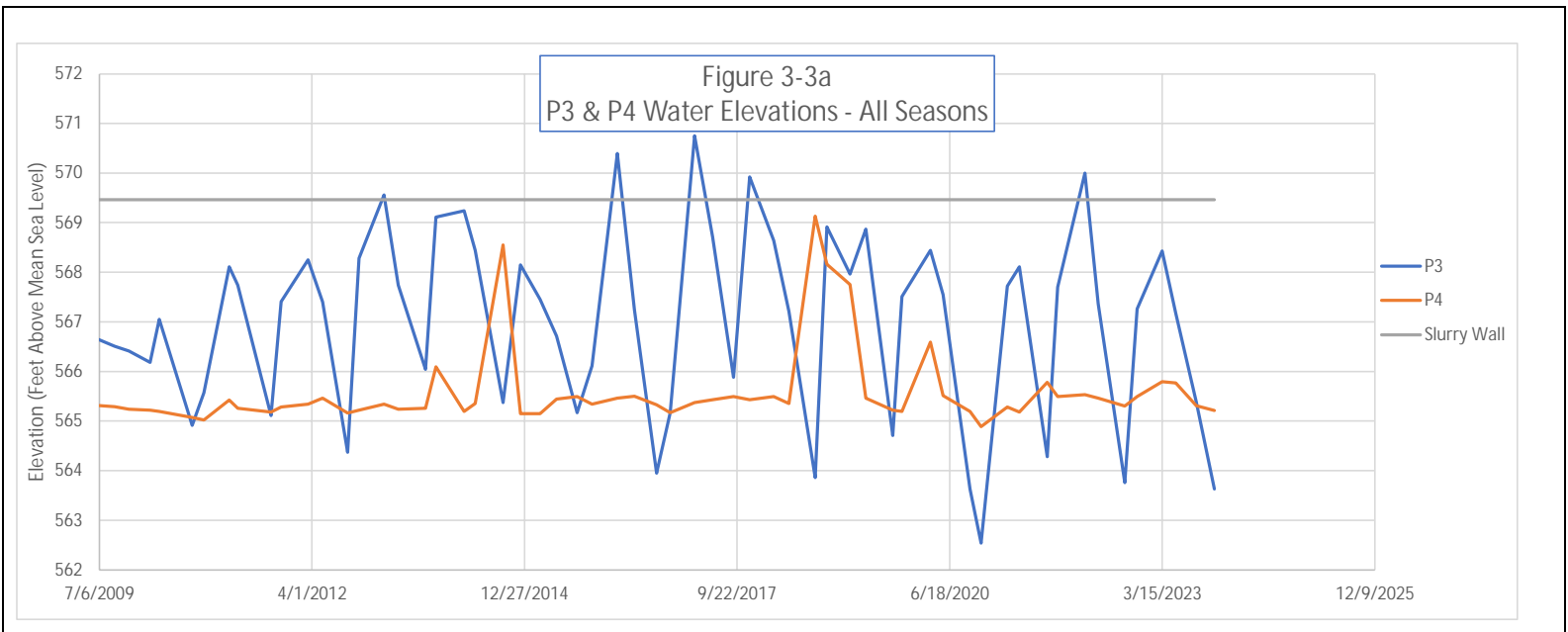
Groundwater Contour	Monitoring Well
Flow Direction	Piezometer
Direct Discharge Line to Niagara Falls Waste Water Treatment Facility	Manhole
Drain Pipe	
Slurry Wall	
Site Boundary	

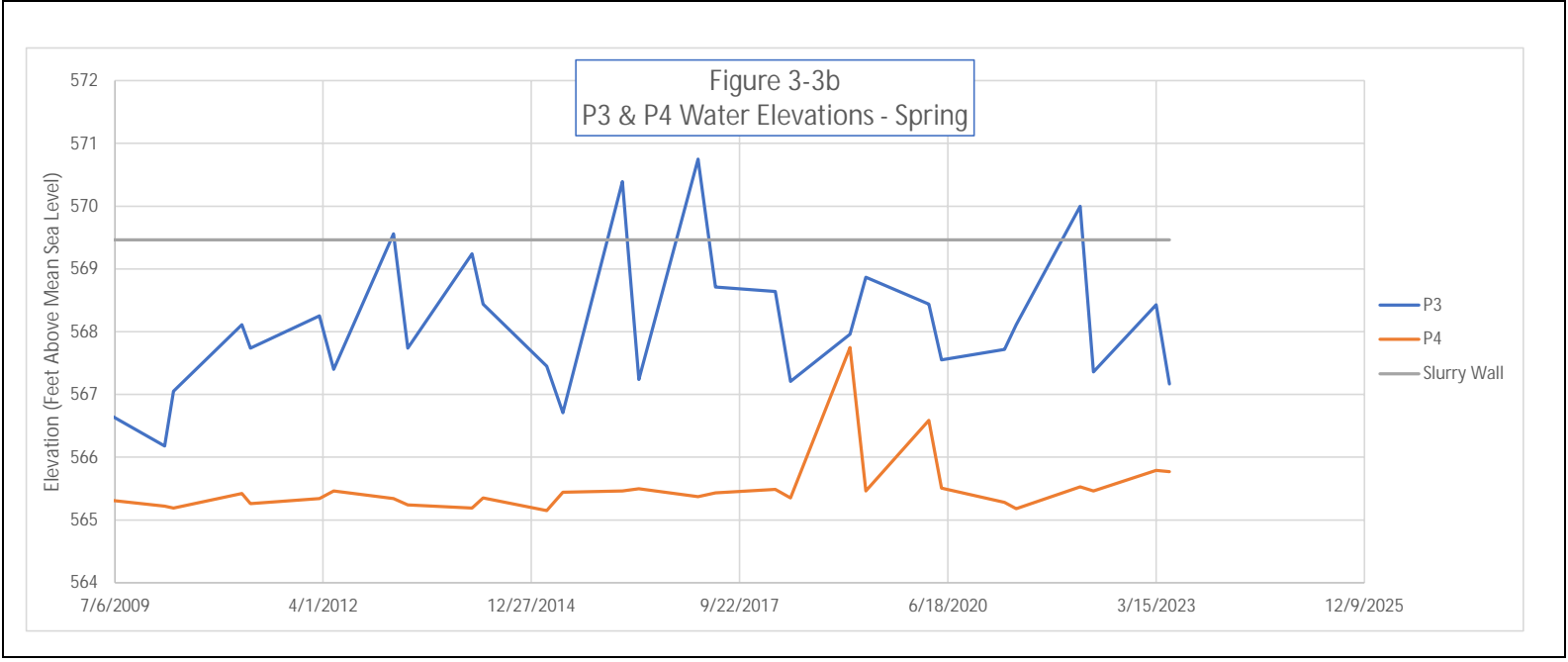
Figure 3-1d
Q4 November 15, 2023
Groundwater
Potentiometric Map of
Piezometer/Manhole
Elevations
 2023 Periodic Review Report
 Olin Charles Gibson
 Niagara Falls, New York

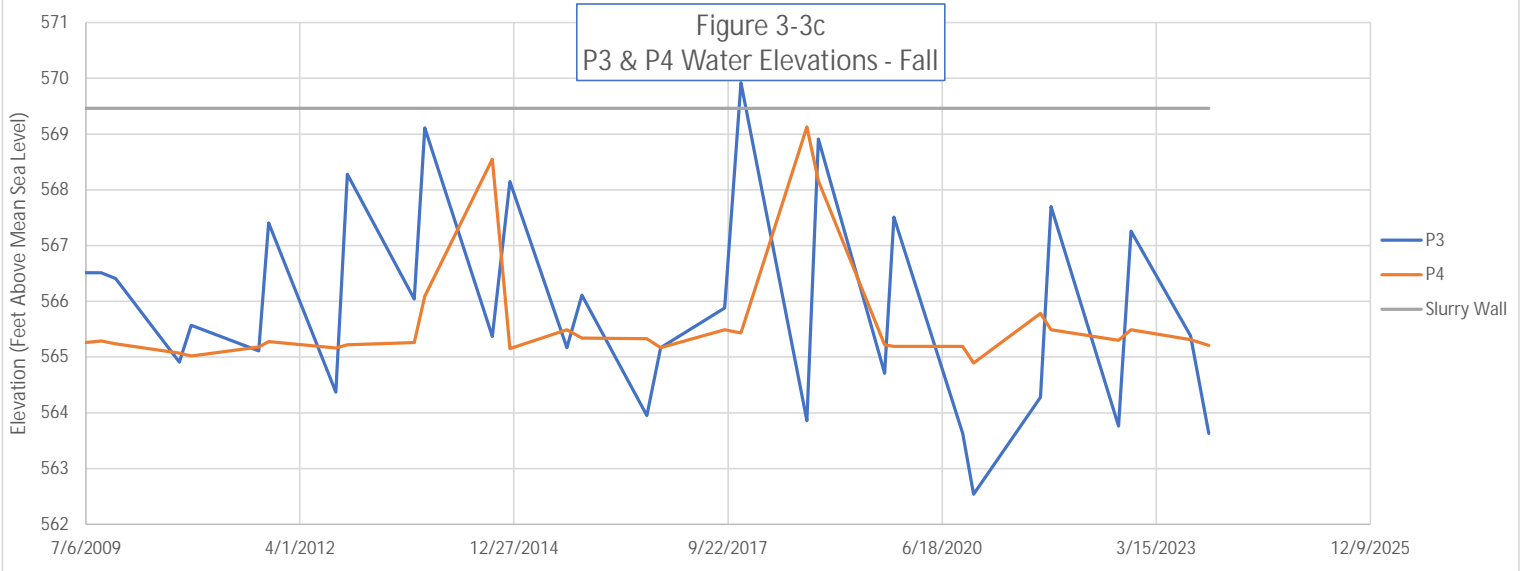


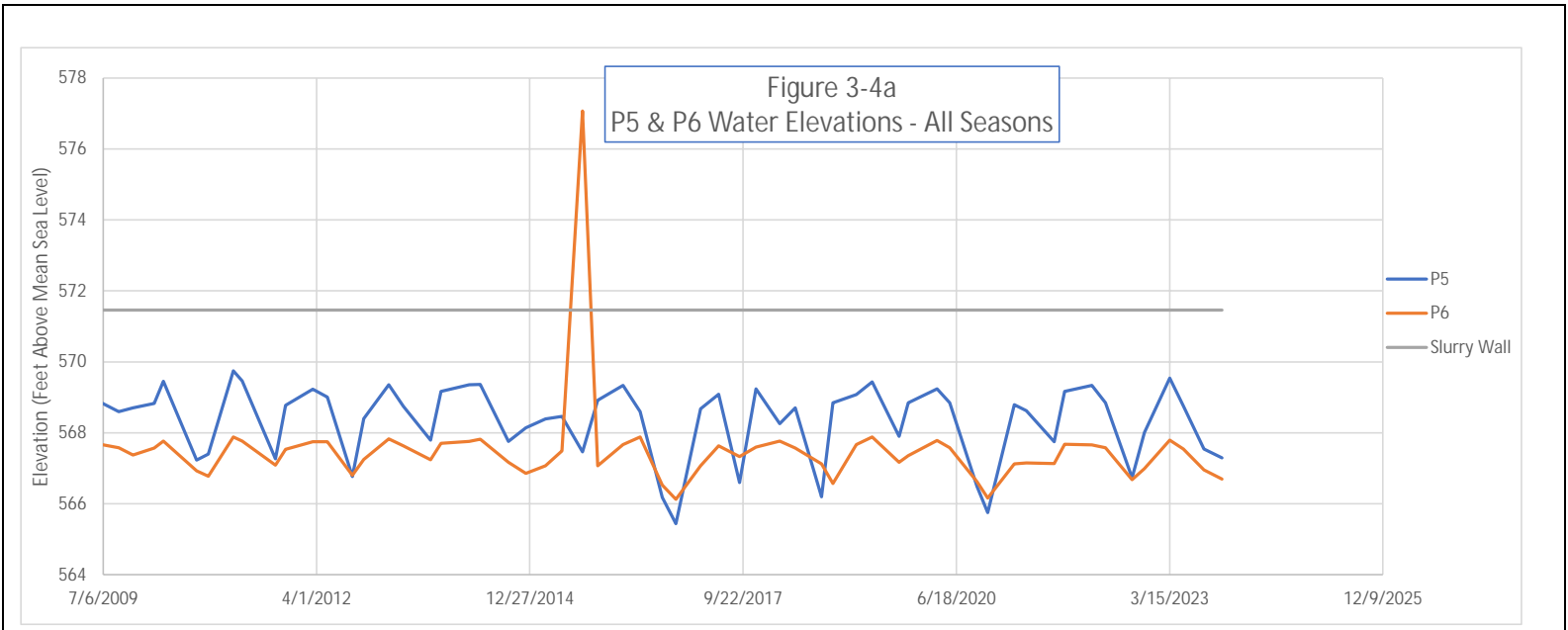


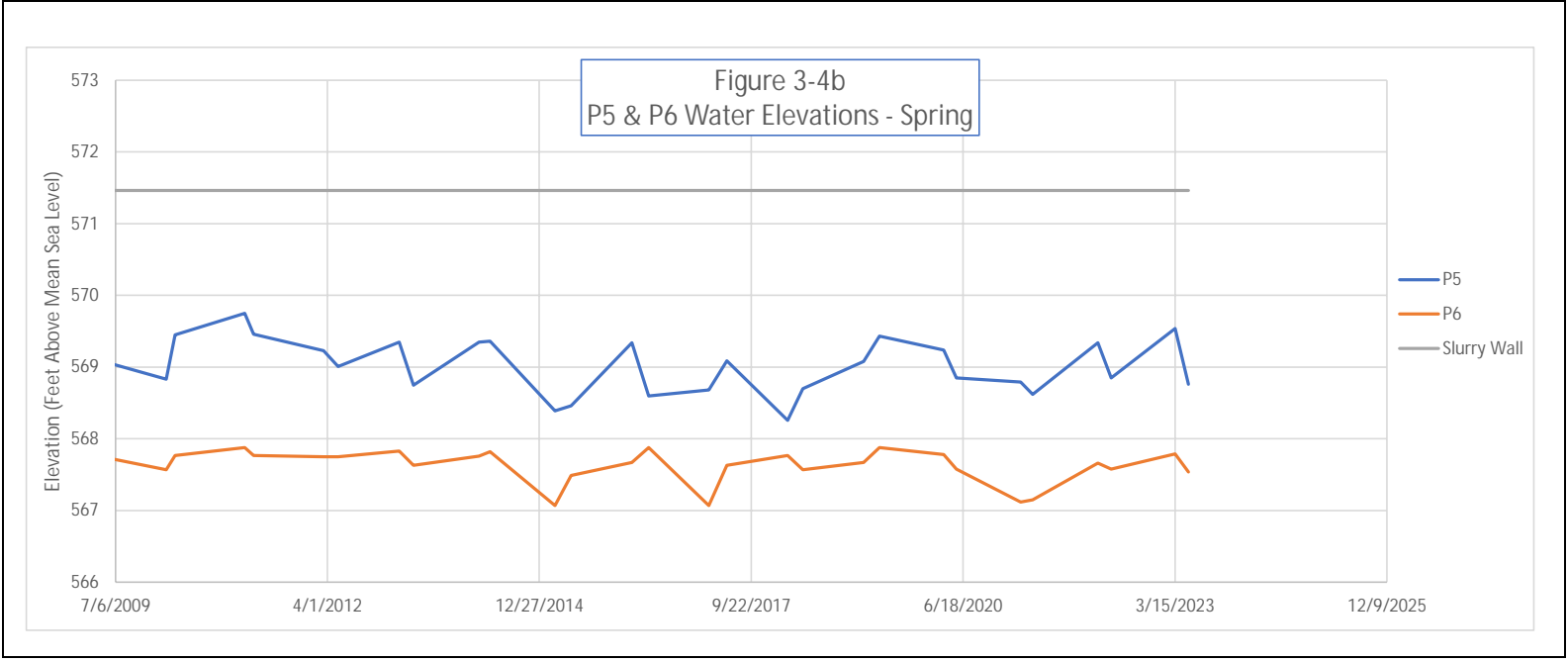


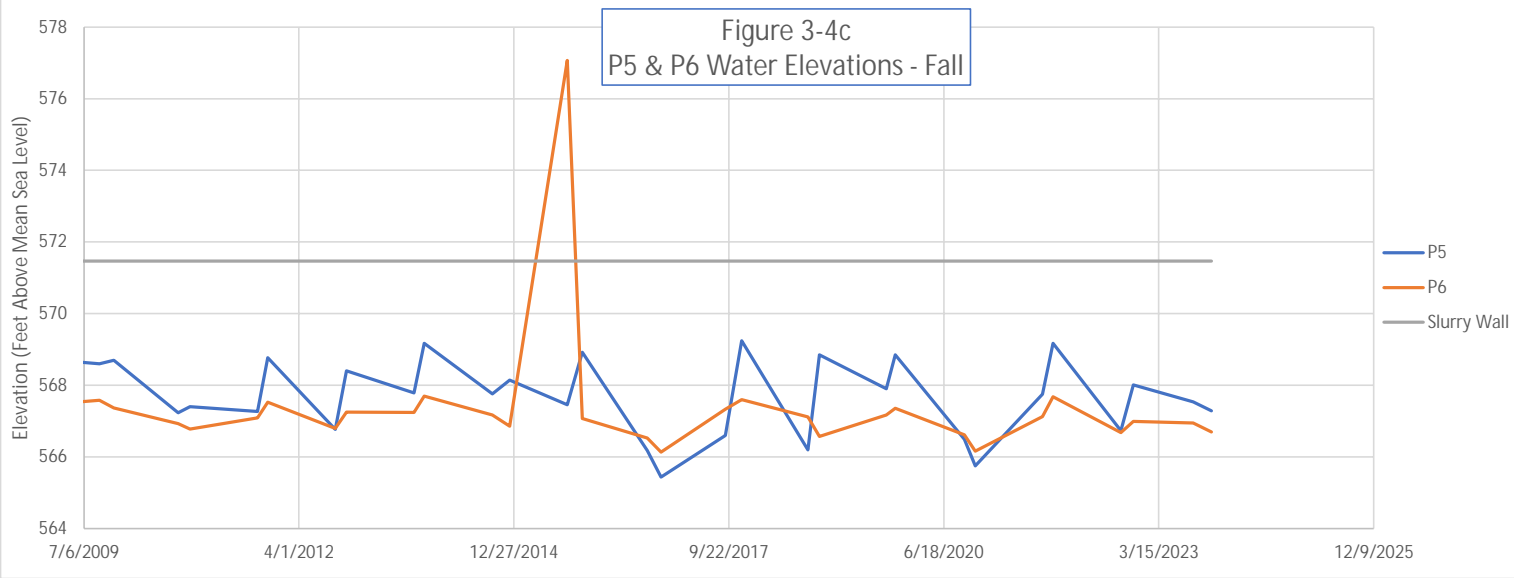


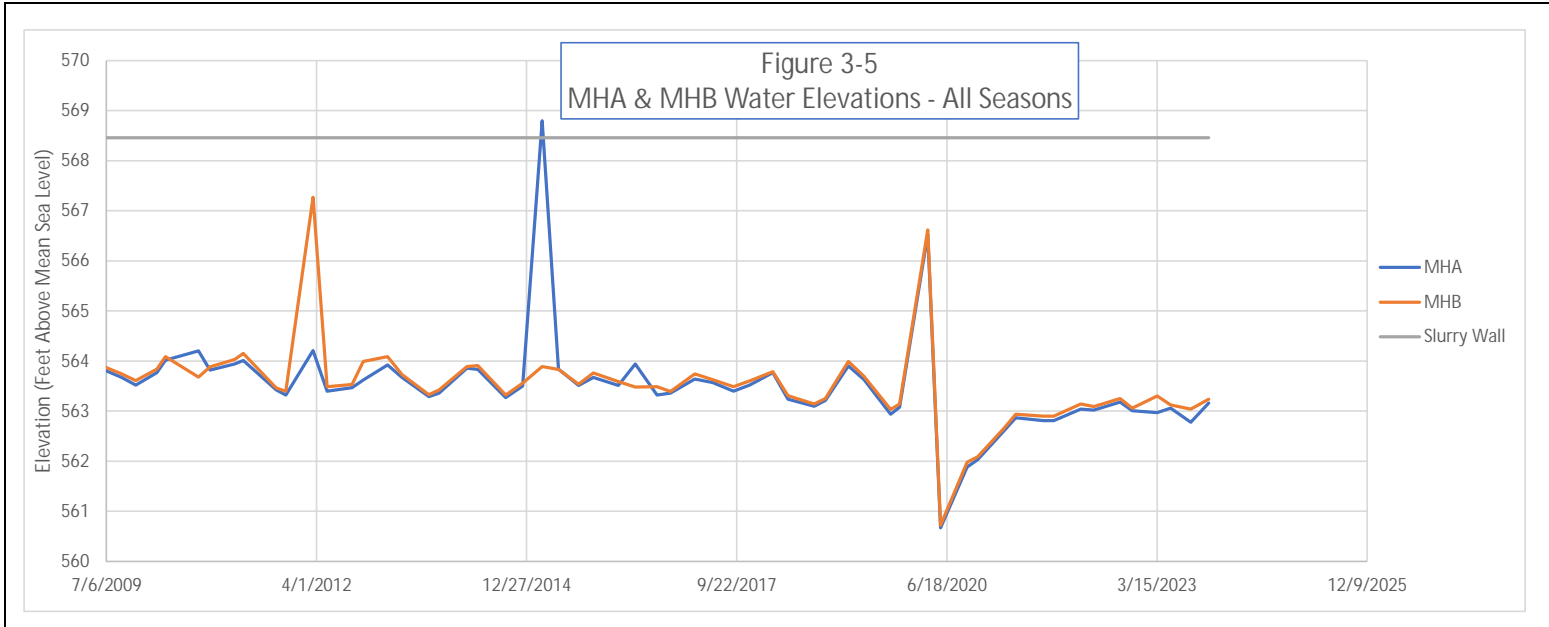












A

**Institutional & Engineering
Certification Form**



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



	Site Details	Box 1
Site No. 932063		
Site Name Charles Gibson Site		
Site Address: N.E. Cnr. of Niagara Falls Blvd. & Tuscarora Rd.		Zip Code: 14304
City/Town: Niagara Falls		
County: Niagara		
Site Acreage: 2.000		
Reporting Period: January 31, 2023 to January 31, 2024		
		YES NO
1. Is the information above correct?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Box 2
		YES NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.		
A Corrective Measures Work Plan must be submitted along with this form to address these issues.		
_____ Signature of Owner, Remedial Party or Designated Representative		_____ Date

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
161.05-5-12	OLIN CORPORATION	Monitoring Plan O&M Plan Soil Management Plan Site Management Plan

Consent Judgment 3/20/85 including IC stipulations p. 20 Permits and Easements, sections 11-24. Operation and Maintenance Manual; Revised August 2019. Site Management Plan June 2020.

- Groundwater Quality Monitoring.
- Leachate Monitoring.
- Creek Sediment Monitoring.
- Groundwater and Land Use Restrictions.

Portion of 161.05-3-7 OLIN CORPORATION

Monitoring Plan
O&M Plan

Soil Management Plan
Site Management Plan

Consent Judgement 3/20/85 including IC stipulations p. 20 Permits and Easements, sections 11-24. Operation and Maintenance Manual; Revised August 2019. Site Management Plan June 2020.

- Groundwater Quality Monitoring.
- Leachate Monitoring.
- Creek Sediment Monitoring.
- Groundwater and Land Use Restrictions.

Description of Engineering Controls

<u>Parcel</u>	<u>Engineering Control</u>
161.05-5-12	Cover System Groundwater Containment Leachate Collection Fencing/Access Control Subsurface Barriers Monitoring Wells

- Realignment of Cayuga Creek away from the waste.
- Fully circumscribed soil-bentonite slurry barrier wall.
- Double flexible membrane liner cap.
- Perimeter leachate collection system with discharge to the NFWWTP.
- Final soil cover cap.
- Perimeter chain link with portions of wooden privacy fencing with locked gates.

Portion of 161.05-3-7

Subsurface Barriers
Monitoring Wells
Cover System
Groundwater Containment

Parcel

Engineering Control

Leachate Collection
Fencing/Access Control

- Realignment of Cayuga Creek from the waste.
- Fully circumscribed soil-bentonite slurry wall barrier.
- Double flexible membrane liner cap.
- Perimeter Leachate Collection System with discharge to NFWWTP.
- Final cover soil cap.
- Perimeter chain link and portions of wooden privacy fencing with locked gates.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES NO

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

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

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

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

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

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

YES NO

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 932063

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Adam B Carringer at 490 Stuart Rd NE, Cleveland, TN 37312
print name print business address

am certifying as Ova Corporation (Owner or Remedial Party)

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

Adam B Carringer
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

3/1/2024
Date

EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I Adam Carringer at 490 Stuart Rd NE, Cleveland, TN 37312,
print name print business address

am certifying as a Qualified Environmental Professional for the Olin Corporation
(Owner or Remedial Party)

Adam B Carringer CHMM, 32670
Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

3/1/2024
Date

B

Field Forms (Inspections, Sampling and Elevations) and Photo Log

1st Quarter Sampling **and Inspection Documentation**

1st Quarter **Inspection**

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 SITE INSPECTION FORM

THIS FORM TO BE USED FOR QUARTERLY AND ALL OTHER SITE INSPECTIONS

DATE: 3/15/23 TIME: 0900

INSPECTOR: Max Liffiton COMPANY: Sevenson

WEATHER: Sunny 25°F

REASON FOR INSPECTION (QUARTERLY OR OTHER): Spring 2023

GENERAL SITE CONDITIONS: U=UNACCEPTABLE A=ACCEPTABLE
 (Note: For general site conditions note existence of bare areas (number,size), cracks, subsidence (sinking), ponded water, stressed vegetation, soil discoloration or seeps, and rodent burrows. For site security, note absence of locks, gates open or damaged, missing signs or evidence of vandalism. Note any other unusual occurrences.)

COMMENTS

ACCESS ROAD	<u>A</u>	_____
COVER VEGETATION	<u>A</u>	_____
TREES	<u>A</u>	_____
LITTER	<u>A</u>	_____
EROSION (CAP)	<u>A</u>	_____
EROSION (BANK)	<u>A</u>	_____

SECURITY:

FENCE/LOCKS	<u>A</u>	<u>Fence post by man door loose, see below</u>
PIEZOMETERS/LOCKS	<u>A</u>	_____
MONITORING WELLS/LOCKS	<u>A</u>	_____
MANHOLES/LIDS/LOCKS	<u>A</u>	_____
ELECTRICAL PANEL	<u>A</u>	_____

ADDITIONAL COMMENTS:

Butch Brown, Steve Walsh (olin) onsite to assist with
Spring 2023 operations.

Fox Fence onsite to inspect ^{loose} fencepost. Fox to repair within one week.

1st Quarter Sampling **and Inspection Documentation**



Chain of Custody / Analytical Request Form

71629

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • aiglobal.com

SR#: _____

Page _____ of _____

Report To:
 Company: Olin Corp
 Contact: Adam Carringer
 Email: ABCarringer@Olin.com
 Phone: 423 336 4989
 Address: 490 Stuart Road
Cleveland TN 37312

Client / Sampler:
 Project Name: Charles Gibson
 Project Number: 1305
 ALS Quote #: _____
 Sample's Signature: Maxwell Liffson
 Email CC: _____
 State Samples Collected (Circle or Write): (N) MA, PA, CT, Other: _____

Preservative	Number of Containers	MS/MSD?	GC/MS VOA - 8260•624•524•TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter
	2	N			2				
	2	N			2				
	6	Y			6				MS/MSD
	2	N			2				
	2	N			2				
	2	N			2				
	1								Provided by lab

Lab ID (ALS)	Sample Collection Information:			Turnaround Requirements	Report Requirements	Metals: RCRA 8•PP 13•TAL 23•TCLP•Other (List)
	Sample ID:	Date	Time			
	Field Blank - 031523	3/15/23	1057	Rush (Surcharges Apply) *Subject to Availability* *Please Check with your PM* <input checked="" type="checkbox"/> Standard (10 Business Days) Date Required: <u>Standard</u>	Tier II/Cat A - Results/OC Tier IV/Cat B - Data Validation Report w/ Data EDD: Yes No EDD Type:	VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars • THM • Other: _____ Invoice To: (If Same as Report To) PO #: Company: Contact: Email: Phone: Address:
	MW5-031523	3/15/23	1030			
	MW4-031523	3/15/23	1100			
	MW7-031523	3/15/23	1200			
	MHB-031523	3/15/23	0915			
	MWA3-031523	3/15/23	1150			
	Temp Blank					

Special Instructions / Comments:
 Shipped in one cooler.

Signature	Relinquished By:	Received By:	Relinquished By:	Received By:
Printed Name	Maxwell Liffson			
Company	Sevenson			
Date/Time	3/15/23 1430			

CHARLES GIBSON SITE
NIAGARA FALLS, NEW YORK
NYSDEC REGISTRY NO. 9-32-063
GROUNDWATER SAMPLING FIELD PARAMETERS
FIELD INSTRUMENTATION CALIBRATION FORM

DATE: 3-15-23 SAMPLING EVENT: Spring 2023

PERSON CALIBRATING METER: BUTCH BROWN

INSTRUMENT USED:

MANUFACTURER: IN SITU

MODEL NUMBER: AQUATROL II 500

HGS NUMBER: S/N 691056

DATE OF MANUFACTURE: _____

CALIBRATION STANDARDS USED: Pre Post

STANDARD 7.00 METER READ: ✓

STANDARD 4.00 METER READ: ✓

STANDARD 10.00 METER READ: ✓

CALIBRATION SOLUTION EXPIRATION DATE: 8/24

	PRE CALIBRATION READINGS	POST CALIBRATION READINGS
TEMPERATURE (°F or °C):	_____	_____
pH:	<u>4.03, 7.06, 9.97</u>	<u>4.00, 7.00, 10.00</u>
pHmv:	_____	_____
OX-RED POT (ORPmv):	<u>N/A</u>	<u>N/A</u>
CONDUCTIVITY (ms/cm):	<u>1.373</u>	<u>1.413</u>
TURBIDITY (NTU):	<u>N/A</u>	<u>N/A</u>
mg/L DO:	<u>N/A</u>	<u>N/A</u>
% DO:	<u>N/A</u>	<u>N/A</u>

OTHER CALIBRATION COMMENTS: _____

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER AND SEDIMENT
 SAMPLING FIELD FORM

RECORDED BY: BUTCH BROWN SAMPLE ID: MW 5-031523
 SAMPLED BY: STEVE WALSH SAMPLING EVENT/DATE: 3-15-23
 COMPANY: OLIND MONITORING WELL: MW5
 CONDITION: SUNNY 29°F

GROUNDWATER PURGE DATA PURGE DATE: _____

DEPTH TO BOTTOM FROM TOP OF RISER: _____ (FT.) NOTE: ALL GIBSON SITE MONITORING WELLS ARE
 DEPTH TO WATER FROM TOP OF RISER: 6.69 (FT.) 2-INCH DIAMETER STAIN-
 WATER COLUMN: 8.59 (FT.) LESS STEEL. WELL DEPTHS:
 2" DIA. WELL CONSTANT: 0.16 MW-1R 12.10'
 ONE WELL VOLUME= 1.37 (GALS) MW-2 12.13'
 MW-A3 11.95'
 MW-4 13.75'
 MW-5 15.28'

PURGE METHOD: Peristaltic
 BOTTOM OF WELL/SILT BUILDUP: _____
 PURGE START TIME: 1000 STOP TIME: 1030
 PURGE OBSERVATIONS: _____

FIELD PARAMETER MEASUREMENTS:

WELL VOLUME	pH	SPECIFIC CONDUCTIVITY umhos/cm NTU	TEMP. (C OR F)	NOTES:
0 4	6.57	1.41	5.47	
1 2	6.51	1.41	7.16	
2 2	6.53	1.41	7.44	
3 4	6.47	1.44	7.62	
5				

TOTAL VOLUME PURGED: 245 gallons

GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 3-15-23

MEDIA: GROUNDWATER CREEK SEDIMENT SAMPLE TIME: 1030

LOCATION: MW-5

SAMPLE METHOD: PERISTALTIC

SAMPLING OBSERVATIONS: _____

QC SAMPLES TAKEN: BLIND DUP @ MW-7 Noont 1200

OTHER OBSERVATIONS/COMMENTS: _____

Note: specific conductivity formula to 25 degrees Celcius: $SC(25) = \frac{SC \text{ measured}}{\{(T-25)(0.02)\}+1}$

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER AND SEDIMENT
 SAMPLING FIELD FORM

RECORDED BY: S. Walsh SAMPLE ID: MW-4-031523
 SAMPLED BY: S. Walsh SAMPLING EVENT/DATE: 3-15-23
 COMPANY: Olin MONITORING WELL: MW-4
 CONDITION: Sunny 75°C

GROUNDWATER PURGE DATA PURGE DATE: _____
 DEPTH TO BOTTOM FROM TOP OF RISER: 13.75 (FT.) NOTE: ALL GIBSON SITE MONITORING WELLS ARE 2-INCH DIAMETER STAIN-LESS STEEL. WELL DEPTHS:
 DEPTH TO WATER FROM TOP OF RISER: 7.45 (FT.)
 WATER COLUMN: 6.30 (FT.) MW-1R 12.10'
 2" DIA. WELL CONSTANT: 0.16 MW-2 12.13'
 ONE WELL VOLUME= 1.008 (GALS) MW-A3 11.95'
 PURGE METHOD: Peristaltic MW-4 13.75'
 BOTTOM OF WELL/SILT BUILDUP: _____ MW-5 15.28'
 PURGE START TIME: 1040 STOP TIME: 1100
 PURGE OBSERVATIONS: _____

FIELD PARAMETER MEASUREMENTS: (ms/cm)

WELL VOLUME	pH	SPECIFIC CONDUCTIVITY (umhos/cm)	TEMP. (° OR F)	NOTES:
0	7.39	1.18	6.30	
1	7.39	1.18	6.81	
2	7.34	1.19	6.93	
3	7.13	0.96	6.92	

TOTAL VOLUME PURGED: ~ 3 gallon

GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 031523
 MEDIA: GROUNDWATER X SAMPLE TIME: 1100
 CREEK SEDIMENT _____

LOCATION: MW-4
 SAMPLE METHOD: Peristaltic
 SAMPLING OBSERVATIONS: _____
 QC SAMPLES TAKEN: MS/MSD / Field b/k @ 1057
 OTHER OBSERVATIONS/COMMENTS: MS/MSD volumes taken here.
Field blank taken here at 1057 using lab provided D.I. water

Note: specific conductivity formula to 25 degrees Celcius: SC(25)= $\frac{SC \text{ measured}}{\{(T-25)(0.02)\}+1}$

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER AND SEDIMENT
 SAMPLING FIELD FORM

RECORDED BY: Max L. H. ton
 SAMPLED BY: Steve Walsh
 COMPANY: SES/Olin

SAMPLE ID: MH-B-031523
 SAMPLING EVENT/DATE: Spring 2023
 MONITORING WELL: MH-B
 CONDITION: good

GROUNDWATER PURGE DATA

PURGE DATE:

DEPTH TO BOTTOM FROM TOP OF RISER: _____ (FT.)
 DEPTH TO WATER FROM TOP OF RISER: _____ (FT.)
 WATER COLUMN: _____ (FT.)
 2" DIA. WELL CONSTANT: 0.16
 ONE WELL VOLUME= _____ (GALS)

NOTE: ALL GIBSON SITE
 MONITORING WELLS ARE
 2-INCH DIAMETER STAIN-
 LESS STEEL. WELL DEPTHS:
 MW-1R 12.10'
 MW-2 12.13'
 MW-A3 11.95'
 MW-4 13.75'
 MW-5 15.28'

PURGE METHOD:
 BOTTOM OF WELL/SILT BUILDUP:
 PURGE START TIME: _____ STOP TIME: _____
 PURGE OBSERVATIONS:

FIELD PARAMETER MEASUREMENTS:

WELL VOLUME	pH	SPECIFIC CONDUCTIVITY umhos/cm	TEMP. (C OR F)	NOTES:
1				
2				
3				
4				
5				

TOTAL VOLUME PURGED: No purge readings at time of sample:
 pH 7.12
 cond. 0.55 ms/cm
 temp 6.71°C

GROUNDWATER OR SEDIMENT SAMPLING DATA:

SAMPLE DATE: 3/15/23

MEDIA: GROUNDWATER
 CREEK SEDIMENT

SAMPLE TIME: 0915

LOCATION: MH-B

SAMPLE METHOD: Parastatic Pump

SAMPLING OBSERVATIONS: None

QC SAMPLES TAKEN: None

OTHER OBSERVATIONS/COMMENTS: None

Note: specific conductivity formula to 25 degrees Celcius: $SC(25) = \frac{SC \text{ measured}}{\{(T-25)(0.02)\}+1}$

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER AND SEDIMENT
 SAMPLING FIELD FORM

RECORDED BY: Max Liffiton SAMPLE ID: MW-A3-031523
 SAMPLED BY: Max Liffiton SAMPLING EVENT/DATE: 3/15/23
 COMPANY: Swenson MONITORING WELL: MW-A3
 CONDITION: good

GROUNDWATER PURGE DATA PURGE DATE: _____

DEPTH TO BOTTOM FROM TOP OF RISER: 11.95 (FT.) NOTE: ALL GIBSON SITE MONITORING WELLS ARE 2-INCH DIAMETER STAIN-LESS STEEL. WELL DEPTHS:

DEPTH TO WATER FROM TOP OF RISER: 6.44 (FT.)

WATER COLUMN: 5.51 (FT.)

2" DIA. WELL CONSTANT: 0.16

ONE WELL VOLUME= 0.88 (GALS)

PURGE METHOD: Peristaltic

BOTTOM OF WELL/SILT BUILDUP: _____

PURGE START TIME: 1130 STOP TIME: 1150

PURGE OBSERVATIONS: _____

MW-1R 12.10'
 MW-2 12.13'
 MW-A3 11.95'
 MW-4 13.75'
 MW-5 15.28'

FIELD PARAMETER MEASUREMENTS mg/cm^l

WELL VOLUME	pH	SPECIFIC CONDUCTIVITY (umhos/cm)	TEMP. (C OR F)	NOTES:
0	<u>7.35</u>	<u>0.00</u>	<u>9.32</u>	
1	<u>7.01</u>	<u>0.00</u>	<u>8.70</u>	
2	<u>6.92</u>	<u>0.00</u>	<u>8.55</u>	
3	<u>6.87</u>			

TOTAL VOLUME PURGED: ~2.7 gal

GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 3/15/23

MEDIA: GROUNDWATER CREEK SEDIMENT _____ SAMPLE TIME: 1150

LOCATION: MW-A3

SAMPLE METHOD: Peristaltic

SAMPLING OBSERVATIONS: None

QC SAMPLES TAKEN: None

OTHER OBSERVATIONS/COMMENTS: None

Note: specific conductivity formula to 25 degrees Celcius: $SC(25) = \frac{SC \text{ measured}}{\{(T-25)(0.02)\}+1}$

2nd Quarter **Inspection**

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 SITE INSPECTION FORM

THIS FORM TO BE USED FOR QUARTERLY AND ALL OTHER SITE INSPECTIONS

DATE: 5/18/23 TIME: 1245

INSPECTOR: Greg Ernst COMPANY: Saverson

WEATHER:

REASON FOR INSPECTION (QUARTERLY OR OTHER): Quarterly

GENERAL SITE CONDITIONS: U=UNACCEPTABLE A=ACCEPTABLE
 (Note: For general site conditions note existence of bare areas (number,size), cracks, subsidence (sinking), ponded water, stressed vegetation, soil discoloration or seeps, and rodent burrows. For site security, note absence of locks, gates open or damaged, missing signs or evidence of vandalism. Note any other unusual occurrences.)

		COMMENTS
ACCESS ROAD	<u>A</u>	<u>N/A</u>
COVER VEGETATION	<u>A</u>	<u>N/A</u>
TREES	<u>A</u>	<u>N/A</u>
LITTER	<u>A</u>	<u>N/A</u>
EROSION (CAP)	<u>A</u>	<u>N/A</u>
EROSION (BANK)	<u>A</u>	<u>N/A</u>

SECURITY:		
FENCE/LOCKS	<u>A</u>	<u>N/A</u>
PIEZOMETERS/LOCKS	<u>A</u>	<u>N/A</u>
MONITORING WELLS/LOCKS	<u>A</u>	<u>N/A</u>
MANHOLES/LIDS/LOCKS	<u>A</u>	<u>N/A</u>
ELECTRICAL PANEL	<u>A</u>	<u>N/A</u>

ADDITIONAL COMMENTS:

None.

3rd Quarter Sampling **and Inspection Documentation**

3rd Quarter **Inspection**

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 SITE INSPECTION FORM

THIS FORM TO BE USED FOR QUARTERLY AND ALL OTHER SITE INSPECTIONS

DATE: 8/24/23 TIME: 1230

INSPECTOR: Greg Ernst COMPANY: Sevenson

WEATHER: Sunny 70's

REASON FOR INSPECTION (QUARTERLY OR OTHER): Quarterly

GENERAL SITE CONDITIONS: U=UNACCEPTABLE A=ACCEPTABLE
 (Note: For general site conditions note existence of bare areas (number,size), cracks, subsidence (sinking), ponded water, stressed vegetation, soil discoloration or seeps, and rodent burrows. For site security, note absence of locks, gates open or damaged, missing signs or evidence of vandalism. Note any other unusual occurrences.)

		COMMENTS
ACCESS ROAD	<u>A</u>	<u>N/A</u>
COVER VEGETATION	<u>A</u>	<u>needs mowing, but otherwise fine</u>
TREES	<u>A</u>	<u>N/A</u>
LITTER	<u>A</u>	<u>picked up minimal litter</u>
EROSION (CAP)	<u>A</u>	<u>N/A</u>
EROSION (BANK)	<u>A</u>	<u>N/A</u>

SECURITY:

FENCE/LOCKS	<u>A</u>	<u>N/A</u>
PIEZOMETERS/LOCKS	<u>A</u>	<u>N/A</u>
MONITORING WELLS/LOCKS	<u>A</u>	<u>N/A</u>
MANHOLES/LIDS/LOCKS	<u>A</u>	<u>N/A</u>
ELECTRICAL PANEL	<u>A</u>	<u>N/A</u>

ADDITIONAL COMMENTS: none

Sampling Field Forms

2023 Schedule of Tasks
Olin Corp. Charles Gibson Site

March 15, 2023 Perform 1st quarter site inspection.
Perform annual Ground Water Monitoring/Sampling on MW-A3, MW4, MW5, for BHC Only, plus Field Blank, Blind Duplicate and a MS/MSD. (Next year BHC and HCB).
Perform Annual leachate sampling and analysis for MH-B. (Manhole B for BHC only, next HCB in 2025.)

May 18, 2023 Perform 2nd quarter site inspection.

August 22, 2023 Perform 3rd quarter site inspection.
Perform Annual Creek bed sediment sampling. (BHC), duplicate sampling. (Upstream, Downstream and Blind Duplicate).

November 14, 2023 Perform 4th quarter site inspection.

Note: In 2009 NYSDEC granted a request to reduce ground water sampling frequency from Semi-Annually to Annually with rotating spring/fall events.

On going grounds maintenance includes lawn cutting and weed wacking near fence and weed and feed applications to lawn on cap (After August 15th, per NYSDEC request).

Monthly flow reports e-mailed to Adam Carringer at ABCarringer@Olin.com and Randy Morris at RTMorris@Olin.com

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER AND SEDIMENT
 SAMPLING FIELD FORM

RECORDED BY: Greg Ernst SAMPLE ID: US-1-082223
 SAMPLED BY: Greg Ernst SAMPLING EVENT/DATE: 8/22/23
 COMPANY: Severson MONITORING WELL:
 CONDITION:

GROUNDWATER PURGE DATA PURGE DATE: _____
 DEPTH TO BOTTOM FROM TOP OF RISER: _____ (FT.) NOTE: ALL GIBSON SITE
 DEPTH TO WATER FROM TOP OF RISER: _____ (FT.) MONITORING WELLS ARE
 WATER COLUMN: _____ (FT.) 2-INCH DIAMETER STAIN-
 2" DIA. WELL CONSTANT: 0.16 LESS STEEL. WELL DEPTHS:
 ONE WELL VOLUME= _____ (GALS) MW-1R 12.10'
 MW-2 12.13'
 MW-A3 11.95'
 MW-4 13.75'
 MW-5 15.28'

PURGE METHOD: _____
 BOTTOM OF WELL/SILT BUILDUP: _____
 PURGE START TIME: _____ STOP TIME: _____
 PURGE OBSERVATIONS: _____

FIELD PARAMETER MEASUREMENTS:

WELL VOLUME	pH	SPECIFIC CONDUCTIVITY umhos/cm	TEMP. (C OR F)	NOTES:
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____

TOTAL VOLUME PURGED: _____

GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 8/22/23
 MEDIA: GROUNDWATER _____ SAMPLE TIME: 1415
 CREEK SEDIMENT US-1-082223

LOCATION: Upstream Sediment trap
 SAMPLE METHOD: Sediment trap
 SAMPLING OBSERVATIONS: Creek level is extremely low
 QC SAMPLES TAKEN:

OTHER OBSERVATIONS/COMMENTS: Blind Dup taken here, called MS-1-082223 @ 1445
Trap was cleaned & scrubbed before re-placement in stream

Note: specific conductivity formula to 25 degrees Celcius: SC(25)= $\frac{SC \text{ measured}}{\{(T-25)(0.02)\}+1}$

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER AND SEDIMENT
 SAMPLING FIELD FORM

8

RECORDED BY: Grey Faust SAMPLE ID: DS-1-082223
 SAMPLED BY: Grey Faust SAMPLING EVENT/DATE: 8/22/23
 COMPANY: Sevenson MONITORING WELL: _____
 CONDITION: _____

GROUNDWATER PURGE DATA PURGE DATE: _____

DEPTH TO BOTTOM FROM TOP OF RISER: _____ (FT.) NOTE: ALL GIBSON SITE MONITORING WELLS ARE
 DEPTH TO WATER FROM TOP OF RISER: _____ (FT.) 2-INCH DIAMETER STAIN-
 WATER COLUMN: _____ (FT.) LESS STEEL WELL DEPTHS:
 2" DIA. WELL CONSTANT: 0.16 MW-1R 12.10'
 ONE WELL VOLUME= _____ (GALS) MW-2 12.13'
 MW-A3 11.95'
 MW-4 13.75'
 MW-5 15.28'

PURGE METHOD: _____
 BOTTOM OF WELL/SILT BUILDUP: _____ STOP TIME: _____
 PURGE START TIME: _____
 PURGE OBSERVATIONS: _____

FIELD PARAMETER MEASUREMENTS:

WELL VOLUME	pH	SPECIFIC CONDUCTIVITY (umhos/cm)	TEMP. (C OR F)	NOTES:
1				
2				
3				
4				
5				

TOTAL VOLUME PURGED: _____

8

GROUNDWATER OR SEDIMENT SAMPLING DATA: SAMPLE DATE: 8/22/23

MEDIA: GROUNDWATER _____ SAMPLE TIME: 1515
 CREEK SEDIMENT X DS-1-082223

LOCATION: Downstream Sediment trap

SAMPLE METHOD: Sediment trap

SAMPLING OBSERVATIONS: creek level is extremely low

QC SAMPLES TAKEN: _____

OTHER OBSERVATIONS/COMMENTS: there was a tenacity sample to send of full jar's 1/2-4/3 full only.
Trap was cleaned & scrubbed before re-placement in stream

Note: specific conductivity formula to 25 degrees Celcius: $SC(25) = \frac{SC \text{ measured}}{\{(T-25)(0.02)\}+1}$

Gibson Fall Ground Water Monitoring and Sampling Narrative

08/22/23

Arrived at site at 1230 for quarterly inspection and water level readings.

Creek sediment samples were taken today, upstream at 1415 (US-1-082223), midstream at 1445 (MS-1-082223), and downstream at 1515 (DS-1-082223). Creek levels were extremely low. There was only enough sediment at the downstream location for about 1/2 to 2/3 of a jar worth of material.

The midstream sample is a blind duplicate sample was taken at the upstream location and labeled MS-1-082223.

This narrative will be sent to ALS along with the sample COCs, but will not mention the blind duplicate locations.

4th Quarter **Inspection**

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 SITE INSPECTION FORM

THIS FORM TO BE USED FOR QUARTERLY AND ALL OTHER SITE INSPECTIONS

DATE: 11/15/23 TIME: 1530

INSPECTOR: M. Liffiton COMPANY: Sevenson

WEATHER: Part Cloudy 50°F

REASON FOR INSPECTION (QUARTERLY OR OTHER): ~~Q~~ 4th Qtr Insp.

GENERAL SITE CONDITIONS: U=UNACCEPTABLE A=ACCEPTABLE
 (Note: For general site conditions note existence of bare areas (number,size), cracks, subsidence (sinking), ponded water, stressed vegetation, soil discoloration or seeps, and rodent burrows. For site security, note absence of locks, gates open or damaged, missing signs or evidence of vandalism. Note any other unusual occurrences.)

COMMENTS

ACCESS ROAD	<u>A</u>	<u>—</u>
COVER VEGETATION	<u>A</u>	<u>—</u>
TREES	<u>A</u>	<u>—</u>
LITTER	<u>A</u>	<u>—</u>
EROSION (CAP)	<u>A</u>	<u>—</u>
EROSION (BANK)	<u>A</u>	<u>—</u>

SECURITY:

FENCE/LOCKS	<u>A</u>	<u>—</u>
PIEZOMETERS/LOCKS	<u>A</u>	<u>—</u>
MONITORING WELLS/LOCKS	<u>A</u>	<u>—</u>
MANHOLES/LIDS/LOCKS	<u>A</u>	<u>—</u>
ELECTRICAL PANEL	<u>A</u>	<u>—</u>

ADDITIONAL COMMENTS: Replaced fallen sign on chainlink fence.

Water Elevations Field Forms

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER ELEVATION FORM

THIS FORM TO BE USED FOR ALL QUARTERLY PIEZOMETER AND MANHOLE GROUND-
 WATER ELEVATION MEASURING EVENTS

DATE: 3/15/2023 TIME: 1245

INSPECTOR: Greg Ernst & Max Liffiton COMPANY: Sevenson

WEATHER: Sunny; 34°F

PIEZOMETER	RISER ELEVATION (INSIDE CASING)	DEPTH TO WATER (FT.)	WATER ELEVATION	COMMENTS
P-1	572.72	<u>7.36</u>	<u>565.36</u>	_____
P-2	574.89	<u>9.32</u>	<u>565.57</u>	_____
P-3	574.16	<u>5.73</u>	<u>568.43</u>	_____
P-4	576.14	<u>10.35</u>	<u>565.79</u>	_____
P-5	575.05	<u>5.51</u>	<u>569.54</u>	_____
P-6	578.28	<u>10.49</u>	<u>567.79</u>	_____
MANHOLE A	575.22	<u>12.25</u>	<u>562.97</u>	_____
MANHOLE B	577.34	<u>14.07</u>	<u>563.30</u>	_____

(Note: Manhole A empties into Manhole B by gravity feed and Manhole B is pumped automatically to the Town of Niagara Tuscarora Road sanitary sewer line by a float controlled sump pump which maintains groundwater elevations in Manhole B (and by extension Manhole A) below an elevation of 565 ft. above mean sea level. Therefore, Depth to water distance from the manhole rim should not be less than 12.41 ft. at Manhole B and 10.22 ft. at Manhole A.
 (Note: riser elevations (re)surveyed September, 1999 by Wendel Surveyors)

ADDITIONAL COMMENTS/OBSERVATIONS: _____

None.

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER ELEVATION FORM

THIS FORM TO BE USED FOR ALL QUARTERLY PIEZOMETER AND MANHOLE GROUND-WATER ELEVATION MEASURING EVENTS

DATE: 5/18/75 TIME: 1245

INSPECTOR: Greg East COMPANY: Stinson

WEATHER: 60°F, Sunny

PIEZOMETER	RISER ELEVATION (INSIDE CASING)	DEPTH TO WATER (FT.)	WATER ELEVATION	COMMENTS
P-1	572.72	<u>6.86</u>	<u>565.86</u>	/
P-2	574.89	<u>9.35</u>	<u>565.54</u>	/
P-3	574.16	<u>6.99</u>	<u>567.17</u>	/
P-4	576.14	<u>10.37</u>	<u>565.77</u>	/
P-5	575.05	<u>6.29</u>	<u>568.76</u>	/
P-6	578.28	<u>10.74</u>	<u>567.54</u>	/
MANHOLE A	575.22	<u>12.16</u>	<u>563.06</u>	/
MANHOLE B	577.34	<u>14.22</u>	<u>563.12</u>	/

(Note: Manhole A empties into Manhole B by gravity feed and Manhole B is pumped automatically to the Town of Niagara Tuscarora Road sanitary sewer line by a float controlled sump pump which maintains groundwater elevations in Manhole B (and by extension Manhole A) below an elevation of 565 ft. above mean sea level. Therefore, Depth to water distance from the manhole rim should not be less than 12.41 ft. at Manhole B and 10.22 ft. at Manhole A. (Note: riser elevations (re)surveyed September, 1999 by Wendel Surveyors)

ADDITIONAL COMMENTS/OBSERVATIONS:

Each piezometer & manhole was measured 3 times over the course of an hour & water levels did not change

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER ELEVATION FORM

THIS FORM TO BE USED FOR ALL QUARTERLY PIEZOMETER AND MANHOLE GROUND-WATER ELEVATION MEASURING EVENTS

DATE: 8/22/23 TIME: 1230

INSPECTOR: Greg Ernst COMPANY: Swinger

WEATHER: Sunny, 70's

PIEZOMETER	RISER ELEVATION (INSIDE CASING)	DEPTH TO WATER (FT.)	WATER ELEVATION	COMMENTS
P-1	572.72	<u>7.31</u>	<u>565.41</u>	<u>N/A</u>
P-2	574.89	<u>9.49</u>	<u>565.40</u>	<u>N/A</u>
P-3	574.16	<u>8.78</u>	<u>565.38</u>	<u>N/A</u>
P-4	576.14	<u>10.83</u>	<u>565.31</u>	<u>N/A</u>
P-5	575.05	<u>7.51</u>	<u>567.54</u>	<u>N/A</u>
P-6	578.28	<u>11.33</u>	<u>566.95</u>	<u>N/A</u>
MANHOLE A	575.22	<u>12.44</u>	<u>562.78</u>	<u>N/A</u>
MANHOLE B	577.34	<u>14.30</u>	<u>563.04</u>	<u>N/A</u>

(Note: Manhole A empties into Manhole B by gravity feed and Manhole B is pumped automatically to the Town of Niagara Tuscarora Road sanitary sewer line by a float controlled sump pump which maintains groundwater elevations in Manhole B (and by extension Manhole A) below an elevation of 565 ft. above mean sea level. Therefore, Depth to water distance from the manhole rim should not be less than 12.41 ft. at Manhole B and 10.22 ft. at Manhole A.

(Note: riser elevations (re)surveyed September, 1999 by Wendel Surveyors)

ADDITIONAL COMMENTS/OBSERVATIONS: The creek level is extremely low.
Water levels were taken at each piezometer & manhole twice & did not change.

CHARLES GIBSON SITE
 NIAGARA FALLS, NEW YORK
 NYSDEC REGISTRY NO. 9-32-063
 GROUNDWATER ELEVATION FORM

THIS FORM TO BE USED FOR ALL QUARTERLY PIEZOMETER AND MANHOLE GROUND-WATER ELEVATION MEASURING EVENTS

DATE: 11/15/23 TIME: 1530

INSPECTOR: M. Liffiton COMPANY: SES

WEATHER: Part cloudy 50°F

PIEZOMETER	RISER ELEVATION (INSIDE CASING)	DEPTH TO WATER (FT.)	WATER ELEVATION	COMMENTS
P-1	572.72	<u>8.80</u>	<u>563.92</u>	—
P-2	574.89	<u>9.61</u>	<u>565.28</u>	—
P-3	574.16	<u>10.53</u>	<u>563.63</u>	—
P-4	576.14	<u>10.93</u>	<u>565.21</u>	—
P-5	575.05	<u>7.76</u>	<u>567.29</u>	—
P-6	578.28	<u>11.58</u>	<u>566.7</u>	—
MANHOLE A	575.22	<u>12.06</u>	<u>563.16</u>	—
MANHOLE B	577.34	<u>14.10</u>	<u>563.24</u>	—

(Note: Manhole A empties into Manhole B by gravity feed and Manhole B is pumped automatically to the Town of Niagara Tuscarora Road sanitary sewer line by a float controlled sump pump which maintains groundwater elevations in Manhole B (and by extension Manhole A) below an elevation of 565 ft. above mean sea level. Therefore, Depth to water distance from the manhole rim should not be less than 12.41 ft. at Manhole B and 10.22 ft. at Manhole A.

(Note: riser elevations (re)surveyed September, 1999 by Wendel Surveyors)

ADDITIONAL COMMENTS/OBSERVATIONS: All depths measured twice
to ensure accuracy.

Photo Log



PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No. 1
Looking East at the front gate





PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No. 2	
Looking East at the front fence and main gate	

PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No. 3	
Looking East at the North chain link fence	

PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No. 4

Another look at the west fence and sign



PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No. 5	
Inside looking East at the cap and the North fence	

PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No. 6	
Inside looking South from the Northeast corner at the cap.	

PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No.	
7	

Outside the fence, looking East at the South Stockade fence




PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No. 8	
Looking from the SW corner toward the NE at the cap.	

PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No. 9	
Looking North from the SW corner where the cap meets the west fence	

PHOTOGRAPHIC LOG

Olin Corp	Charles Gibson Niagara Falls, NY	PRR 2023
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Photo No.	
10	

Looking east from the road at the power panel and berm/trees.



C

Summary of Historical Detections in MHB

Manhole B - Historical Detections

Sample Date	Parameter	Result	Qualifier
4/3/2008	alpha-BHC	0.03	J
4/3/2008	beta-BHC	0.066	
4/3/2008	delta-BHC	0.072	
4/3/2008	gamma-BHC	0.019	J
4/2/2009	alpha-BHC	0.049	
4/2/2009	beta-BHC	0.04	J
4/2/2009	delta-BHC	0.17	
4/2/2009	alpha-BHC	0.038	J
4/2/2009	beta-BHC	0.025	J
4/2/2009	delta-BHC	0.16	
4/19/2011	delta-BHC	1.1	J
9/18/2014	delta-BHC	0.053	J
9/25/2018	beta-BHC	0.062	
9/28/2020	beta-BHC	0.25	
9/28/2020	delta-BHC	2.2	
3/17/2021	beta-BHC	0.13	J
9/21/2022	beta-BHC	0.074	
9/21/2022	delta-BHC	0.15	J
3/15/2023	beta-BHC	0.1	
3/15/2023	delta-BHC	1.1	

Notes: Concentration in ug/l

J - Estimated value

D

Lab Packages



April 05, 2023

Service Request No:R2302240

Adam Carringer
Olin Corporation
490 Stuart Road
Cleveland, TN 37312

Laboratory Results for: Charles Gibson

Dear Adam,

Enclosed are the results of the sample(s) submitted to our laboratory March 16, 2023
For your reference, these analyses have been assigned our service request number **R2302240**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Randy Morris

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



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Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: Olin Corporation
Project: Charles Gibson
Sample Matrix: Water

Service Request: R2302240
Date Received: 03/16/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 03/16/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

Method 8081B, 03/31/2023: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

A handwritten signature in black ink that reads "Meghan Pedro".

Approved by _____

Date 04/05/2023



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request:R2302240

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2302240-001	Field Blank-031523	3/15/2023	1057
R2302240-002	MW5-031523	3/15/2023	1030
R2302240-003	MW4-031523	3/15/2023	1100
R2302240-004	MW7-031523	3/15/2023	1200
R2302240-005	MHB-031523	3/15/2023	0915
R2302240-006	MWA3-031523	3/15/2023	1150



Chain of Custody / Analytical Request Form

71629

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 • +1 585 288 5380 • alsglobal.com

SR#: _____

Page / of /

Report To:		ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER		Preservative		0														0. None	
Company: <u>Olin Corp</u>		Project Name: <u>Charles Gibson</u>																		1. HCl	
Contact: <u>Adam Carringer</u>		Project Number: <u>1305</u>																		2. HNO3	
Email: <u>ABCarringer@Olin.com</u>		ALS Quote #:																		3. H2SO4	
Phone: <u>423 336 4989</u>		Sampler's Signature: <u>Maxwell Liffiton</u>																		4. NaOH	
Address: <u>490 Stuart Road</u>		Email CC:																		5. Zn Acet.	
<u>Cleveland TN 37312</u>		Email CC:																		6. MeOH	
		State Samples Collected (Circle or Write): <u>(NY)</u> MA, PA, CT, Other:																		7. NaHSO4	

Lab ID (ALS)	Sample Collection Information:			Matrix	Number of Containers	MS/MSD?	GC/MS VOA - 8260•624•524•TCLP	GC/MS SVOA - 8270 • 625 • TCLP	Pesticides - 8081 • 608 • TCLP	PCBs - 8082 • 608	Herbicides - 8151 • TCLP	Metals, Total - Select Below	Metals, Dissolved - Field / In-Lab Filter									Notes:	
	Sample ID:	Date	Time																				
	<u>Field Blank - 031523</u>	<u>3/15/23</u>	<u>1057</u>	<u>D.I. Wet</u>	<u>2</u>	<u>N</u>			<u>2</u>														
	<u>MW5-031523</u>	<u>3/15/23</u>	<u>1030</u>	<u>GW</u>	<u>2</u>	<u>N</u>			<u>2</u>														
	<u>MW4-031523</u>	<u>3/15/23</u>	<u>1100</u>	<u>GW</u>	<u>6</u>	<u>Y</u>			<u>6</u>														<u>MS/MSD</u>
	<u>MW7-031523</u>	<u>3/15/23</u>	<u>1200</u>	<u>GW</u>	<u>2</u>	<u>N</u>			<u>2</u>														
	<u>MHB-031523</u>	<u>3/15/23</u>	<u>0915</u>	<u>GW</u>	<u>2</u>	<u>N</u>			<u>2</u>														
	<u>MWA3-031523</u>	<u>3/15/23</u>	<u>1150</u>	<u>GW</u>	<u>2</u>	<u>N</u>			<u>2</u>														
	<u>Temp Blank</u>	<u>---</u>	<u>---</u>		<u>1</u>																		<u>Provided by lab</u>

Special Instructions / Comments: <u>Shipped in one cooler.</u>	Turnaround Requirements	Report Requirements	Metals: RCRA 8•PP 13•TAL 23•TCLP•Other (List)
	<input type="checkbox"/> Rush (Surcharges Apply)	<input type="checkbox"/> Tier II/Cat A - Results/QC	VOA/SVOA Report List: TCL • BTEX • TCLP • CP-51/Stars • THM • Other: _____
	Subject to Availability	<input type="checkbox"/> Tier IV/Cat B - Data Validation Report w/. Data	Invoice To: (<input checked="" type="checkbox"/> Same as Report To)
	Please Check with your PM	EDD: <input type="checkbox"/> Yes <input type="checkbox"/> No	PO #:
<input checked="" type="checkbox"/> Standard (10 Business Days)	Date Required: <u>Standard</u>	EDD Type:	Company:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:	Contact:
Signature: <u>Maxwell Liffiton</u>	<u>Gregory O. Esmerlan</u>					Email:
Printed Name: <u>Maxwell Liffiton</u>	<u>Gregory O. Esmerlan</u>					Phone:
Company: <u>Sevenson</u>	<u>ALS</u>					Address:
Date/Time: <u>3/15/23 1430</u>	<u>3/16/23 09:30</u>					

R2302240 5

Olin Corporation
Charles Gibson



Cooler Receipt and Preservation Check Form

Project/Client Olin Corp Folder Number _____

Cooler received on 3/16/23 by JE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y	<input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	<input type="radio"/> N

5a	Perchlorate samples have required headspace?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as: Bulk Encore 5035set	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA

8. Temperature Readings Date: 3/16/23 Time: 09:38 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>1.9</u>							
Within 0-6°C?	<input checked="" type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by JE on 3/16/23 at 09:42
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 3/17/23 Time: 820 by: SES

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- 13. Were dissolved metals filtered in the field? YES NO N/A
- 14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 111422-1GJ
Explain all Discrepancies/ Other Comments: _____

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: SES
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2302240-001.01					
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-001.02	8081B				
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-002.01					
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-002.02	8081B				
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-003.01					
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-003.02					
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-003.03					
		3/17/2023	0837	SMO / GESMERIAN	
R2302240-003.04					
		3/17/2023	0837	SMO / GESMERIAN	
R2302240-003.05					
		3/17/2023	0837	SMO / GESMERIAN	
R2302240-003.06	8081B				
		3/17/2023	0837	SMO / GESMERIAN	
R2302240-004.01					
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	

ALS Group USA, Corp.
 dba ALS Environmental
Internal Chain of Custody Report

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2302240-004.02					
	8081B				
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-005.01					
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-005.02					
	8081B				
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-006.01					
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	
R2302240-006.02					
	8081B				
		3/17/2023	0824	SMO / GESMERIAN	
		3/17/2023	0827	R-002 / GESMERIAN	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
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REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240

Sample Name: Field Blank-031523
Lab Code: R2302240-001
Sample Matrix: Water

Date Collected: 03/15/23
Date Received: 03/16/23

Analysis Method
8081B

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER

Sample Name: MW5-031523
Lab Code: R2302240-002
Sample Matrix: Water

Date Collected: 03/15/23
Date Received: 03/16/23

Analysis Method
8081B

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER

Sample Name: MW4-031523
Lab Code: R2302240-003
Sample Matrix: Water

Date Collected: 03/15/23
Date Received: 03/16/23

Analysis Method
8081B

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER

Sample Name: MW7-031523
Lab Code: R2302240-004
Sample Matrix: Water

Date Collected: 03/15/23
Date Received: 03/16/23

Analysis Method
8081B

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER

Sample Name: MHB-031523
Lab Code: R2302240-005
Sample Matrix: Water

Date Collected: 03/15/23
Date Received: 03/16/23

Analysis Method
8081B

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240

Sample Name: MWA3-031523
Lab Code: R2302240-006
Sample Matrix: Water

Date Collected: 03/15/23
Date Received: 03/16/23

Analysis Method
8081B

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

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Semivolatile Organic Compounds by GC

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 10:57
Date Received: 03/16/23 09:30

Sample Name: Field Blank-031523
Lab Code: R2302240-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.045	1	03/31/23 20:12	3/21/23	
beta-BHC	ND U	0.045	1	03/31/23 20:12	3/21/23	
delta-BHC	ND U	0.045	1	03/31/23 20:12	3/21/23	
gamma-BHC (Lindane)	ND U	0.045	1	03/31/23 20:12	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 111	03/31/23 20:12	
Tetrachloro-m-xylene	60	10 - 101	03/31/23 20:12	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 10:30
Date Received: 03/16/23 09:30

Sample Name: MW5-031523
Lab Code: R2302240-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.045	1	03/31/23 20:31	3/21/23	
beta-BHC	ND U	0.045	1	03/31/23 20:31	3/21/23	
delta-BHC	ND U	0.045	1	03/31/23 20:31	3/21/23	
gamma-BHC (Lindane)	ND U	0.045	1	03/31/23 20:31	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	52	10 - 111	03/31/23 20:31	
Tetrachloro-m-xylene	62	10 - 101	03/31/23 20:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 11:00
Date Received: 03/16/23 09:30

Sample Name: MW4-031523
Lab Code: R2302240-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.045	1	03/31/23 20:50	3/21/23	
beta-BHC	ND U	0.045	1	03/31/23 20:50	3/21/23	
delta-BHC	ND U	0.045	1	03/31/23 20:50	3/21/23	
gamma-BHC (Lindane)	ND U	0.045	1	03/31/23 20:50	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	35	10 - 111	03/31/23 20:50	
Tetrachloro-m-xylene	61	10 - 101	03/31/23 20:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 12:00
Date Received: 03/16/23 09:30

Sample Name: MW7-031523
Lab Code: R2302240-004

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.046	1	03/31/23 21:48	3/21/23	
beta-BHC	ND U	0.046	1	03/31/23 21:48	3/21/23	
delta-BHC	ND U	0.046	1	03/31/23 21:48	3/21/23	
gamma-BHC (Lindane)	ND U	0.046	1	03/31/23 21:48	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 111	03/31/23 21:48	
Tetrachloro-m-xylene	71	10 - 101	03/31/23 21:48	

ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 09:15
Date Received: 03/16/23 09:30

Sample Name: MHB-031523
Lab Code: R2302240-005

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.046	1	03/31/23 22:07	3/21/23	
beta-BHC	0.10	0.046	1	03/31/23 22:07	3/21/23	
delta-BHC	1.1	0.046	1	03/31/23 22:07	3/21/23	
gamma-BHC (Lindane)	ND U	0.046	1	03/31/23 22:07	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 111	03/31/23 22:07	
Tetrachloro-m-xylene	60	10 - 101	03/31/23 22:07	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 11:50
Date Received: 03/16/23 09:30

Sample Name: MWA3-031523
Lab Code: R2302240-006

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.046	1	03/31/23 22:26	3/21/23	
beta-BHC	ND U	0.046	1	03/31/23 22:26	3/21/23	
delta-BHC	ND U	0.046	1	03/31/23 22:26	3/21/23	
gamma-BHC (Lindane)	ND U	0.046	1	03/31/23 22:26	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 111	03/31/23 22:26	
Tetrachloro-m-xylene	71	10 - 101	03/31/23 22:26	



QC Summary Forms

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Semivolatile Organic Compounds by GC

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www.alsglobal.com

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-111	10-101
Field Blank-031523	R2302240-001	70	60
MW5-031523	R2302240-002	52	62
MW4-031523	R2302240-003	35	61
MW7-031523	R2302240-004	49	71
MHB-031523	R2302240-005	53	60
MWA3-031523	R2302240-006	78	71
MW4-031523 MS	RQ2303300-06	32	69
MW4-031523 DMS	RQ2303300-07	32	65
Method Blank	RQ2303300-01	61	42
Lab Control Sample	RQ2303300-02	67	50
Duplicate Lab Control Sample	RQ2303300-03	96	49

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23
Date Received: 03/16/23
Date Analyzed: 03/31/23
Date Extracted: 03/21/23

Duplicate Matrix Spike Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name: MW4-031523
Lab Code: R2302240-003
Analysis Method: 8081B
Prep Method: EPA 3510C

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike RQ2303300-06		Duplicate Matrix Spike RQ2303300-07		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
alpha-BHC	ND U	0.336	0.370	91	0.317	0.364	87	27-154	6	30
beta-BHC	ND U	0.312	0.370	84	0.301	0.364	83	32-184	4	30
delta-BHC	ND U	0.317	0.370	86	0.306	0.364	84	10-182	3	30
gamma-BHC (Lindane)	ND U	0.323	0.370	87	0.307	0.364	85	43-164	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Analyzed: NA

Method Blank Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name: **Instrument ID:**
Lab Code: **File ID:**
Analysis Method: 8081B **Analysis Lot:**799403

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	RQ2303703-01	I:\ACQUDATA\7890N.net\data\033023 \AG1227.D\	03/30/23 10:11
Performance Evaluation	RQ2303789-01	I:\ACQUDATA\7890N.net\data\033123 \AG1316.D\	03/31/23 18:36

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2303300-01

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: Method

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.050	1	03/30/23 14:58	3/21/23	
beta-BHC	ND U	0.050	1	03/30/23 14:58	3/21/23	
delta-BHC	ND U	0.050	1	03/30/23 14:58	3/21/23	
gamma-BHC (Lindane)	ND U	0.050	1	03/30/23 14:58	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	61	10 - 111	03/30/23 14:58	
Tetrachloro-m-xylene	42	10 - 101	03/30/23 14:58	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Analyzed: NA

Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name: **Instrument ID:**
Lab Code: **File ID:**
Analysis Method: 8081B **Analysis Lot:**799403

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	RQ2303703-01	I:\ACQUDATA\7890N.net\data\033023 \AG1227.D\	03/30/23 10:11
Performance Evaluation	RQ2303789-01	I:\ACQUDATA\7890N.net\data\033123 \AG1316.D\	03/31/23 18:36

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Analyzed: 03/30/23 15:17
Date Extracted: 03/21/23

Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Sample Name: Lab Control Sample **Instrument ID:** R-GC-63
Lab Code: RQ2303300-02 **File ID:** I:\ACQUADATA\7890N.net\data\033023\AG1243.D\
Analysis Method: 8081B **Analysis Lot:** 799403,799631
Prep Method: Method **Extraction Lot:** 416859

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2303300-01	I:\ACQUADATA\7890N.net\data\033023\AG1242.D\	03/30/23 14:58
Duplicate Lab Control Sample	RQ2303300-03	I:\ACQUADATA\7890N.net\data\033023\AG1244.D\	03/30/23 15:36
Field Blank-031523	R2302240-001	I:\ACQUADATA\7890N.net\data\033123\AG1321.D\	03/31/23 20:12
MW5-031523	R2302240-002	I:\ACQUADATA\7890N.net\data\033123\AG1322.D\	03/31/23 20:31
MW4-031523	R2302240-003	I:\ACQUADATA\7890N.net\data\033123\AG1323.D\	03/31/23 20:50
MW4-031523MS	RQ2303300-06	I:\ACQUADATA\7890N.net\data\033123\AG1324.D\	03/31/23 21:09
MW4-031523DMS	RQ2303300-07	I:\ACQUADATA\7890N.net\data\033123\AG1325.D\	03/31/23 21:29
MW7-031523	R2302240-004	I:\ACQUADATA\7890N.net\data\033123\AG1326.D\	03/31/23 21:48
MHB-031523	R2302240-005	I:\ACQUADATA\7890N.net\data\033123\AG1327.D\	03/31/23 22:07
MWA3-031523	R2302240-006	I:\ACQUADATA\7890N.net\data\033123\AG1328.D\	03/31/23 22:26

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Analyzed: 03/30/23

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
alpha-BHC	8081B	0.285	0.400	71	0.338	0.400	85	39-107	17	30
beta-BHC	8081B	0.279	0.400	70	0.315	0.400	79	47-110	12	30
delta-BHC	8081B	0.282	0.400	70	0.322	0.400	80	43-109	13	30
gamma-BHC (Lindane)	8081B	0.279	0.400	70	0.325	0.400	81	41-105	15	30

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson/1305
Matrix: Water
Sample Name: MHB-031523
Lab Code: R2302240-005

Service Request: R2302240
Date Collected: 03/15/23 09:15
Date Received: 3/16/23

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3510C

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
beta-BHC	0.046	0.10	0.15	40		1	03/31/23 22:07
delta-BHC	0.046	1.1	1.1	<1		1	03/31/23 22:07

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson/1305
Matrix: Water
Sample Name: Lab Control Sample
Lab Code: RQ2303300-02

Service Request: R2302240
Date Collected: NA
Date Received:

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: Method

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC	0.050	0.285	0.297	4		1	03/30/23 15:17
beta-BHC	0.050	0.279	0.304	9		1	03/30/23 15:17
delta-BHC	0.050	0.282	0.310	9		1	03/30/23 15:17
gamma-BHC (Lindane)	0.050	0.279	0.293	5		1	03/30/23 15:17

ALS Group USA, Corp.
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Confirmation Results

Client: Olin Corporation
Project: Charles Gibson/1305
Matrix: Water
Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2303300-03

Service Request: R2302240
Date Collected: NA
Date Received:

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: Method

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC	0.050	0.338	0.349	3		1	03/30/23 15:36
beta-BHC	0.050	0.315	0.351	11		1	03/30/23 15:36
delta-BHC	0.050	0.322	0.355	10		1	03/30/23 15:36
gamma-BHC (Lindane)	0.050	0.325	0.343	5		1	03/30/23 15:36

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson/1305
Matrix: Water
Sample Name: MW4-031523
Lab Code: RQ2303300-06

Service Request: R2302240
Date Collected: 03/15/23 11:00
Date Received: 3/16/23

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3510C

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC	0.046	0.336	0.342	2		1	03/31/23 21:09
beta-BHC	0.046	0.312	0.341	9		1	03/31/23 21:09
delta-BHC	0.046	0.317	0.356	12		1	03/31/23 21:09
gamma-BHC (Lindane)	0.046	0.323	0.330	2		1	03/31/23 21:09

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson/1305
Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 11:00
Date Received: 3/16/23

Sample Name: MW4-031523
Lab Code: RQ2303300-07

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analytical Method: 8081B
Prep Method: EPA 3510C

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC	0.045	0.317	0.326	3		1	03/31/23 21:29
beta-BHC	0.045	0.301	0.325	8		1	03/31/23 21:29
delta-BHC	0.045	0.306	0.341	11		1	03/31/23 21:29
gamma-BHC (Lindane)	0.045	0.307	0.315	3		1	03/31/23 21:29

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson/1305
Matrix: Water
Sample Name: Performance Evaluation
Lab Code: RQ2303703-01

Service Request: R2302240
Date Collected: NA
Date Received:

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

8081B

Prep Method:

		Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC	0.050	0.41	0.39	5	1	03/30/23 10:11	
beta-BHC	0.050	0.40	0.37	8	1	03/30/23 10:11	
gamma-BHC (Lindane)	0.050	0.38	0.39	3	1	03/30/23 10:11	

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson/1305
Matrix: Water
Sample Name: Performance Evaluation
Lab Code: RQ2303789-01

Service Request: R2302240
Date Collected: NA
Date Received:

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

8081B

Prep Method:

		Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC	0.050	0.40	0.42	5	1	03/31/23 18:36	
beta-BHC	0.050	0.42	0.39	7	1	03/31/23 18:36	
gamma-BHC (Lindane)	0.050	0.40	0.40	<1	1	03/31/23 18:36	



Raw Data

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Semivolatile Organic Compounds by GC

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 10:57
Date Received: 03/16/23 09:30

Sample Name: Field Blank-031523
Lab Code: R2302240-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.045	1	03/31/23 20:12	3/21/23	
beta-BHC	ND U	0.045	1	03/31/23 20:12	3/21/23	
delta-BHC	ND U	0.045	1	03/31/23 20:12	3/21/23	
gamma-BHC (Lindane)	ND U	0.045	1	03/31/23 20:12	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 111	03/31/23 20:12	
Tetrachloro-m-xylene	60	10 - 101	03/31/23 20:12	

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Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 10:30
Date Received: 03/16/23 09:30

Sample Name: MW5-031523
Lab Code: R2302240-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.045	1	03/31/23 20:31	3/21/23	
beta-BHC	ND U	0.045	1	03/31/23 20:31	3/21/23	
delta-BHC	ND U	0.045	1	03/31/23 20:31	3/21/23	
gamma-BHC (Lindane)	ND U	0.045	1	03/31/23 20:31	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	52	10 - 111	03/31/23 20:31	
Tetrachloro-m-xylene	62	10 - 101	03/31/23 20:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 11:00
Date Received: 03/16/23 09:30

Sample Name: MW4-031523
Lab Code: R2302240-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.045	1	03/31/23 20:50	3/21/23	
beta-BHC	ND U	0.045	1	03/31/23 20:50	3/21/23	
delta-BHC	ND U	0.045	1	03/31/23 20:50	3/21/23	
gamma-BHC (Lindane)	ND U	0.045	1	03/31/23 20:50	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	35	10 - 111	03/31/23 20:50	
Tetrachloro-m-xylene	61	10 - 101	03/31/23 20:50	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 12:00
Date Received: 03/16/23 09:30

Sample Name: MW7-031523
Lab Code: R2302240-004

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.046	1	03/31/23 21:48	3/21/23	
beta-BHC	ND U	0.046	1	03/31/23 21:48	3/21/23	
delta-BHC	ND U	0.046	1	03/31/23 21:48	3/21/23	
gamma-BHC (Lindane)	ND U	0.046	1	03/31/23 21:48	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10 - 111	03/31/23 21:48	
Tetrachloro-m-xylene	71	10 - 101	03/31/23 21:48	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 09:15
Date Received: 03/16/23 09:30

Sample Name: MHB-031523
Lab Code: R2302240-005

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.046	1	03/31/23 22:07	3/21/23	
beta-BHC	0.10	0.046	1	03/31/23 22:07	3/21/23	
delta-BHC	1.1	0.046	1	03/31/23 22:07	3/21/23	
gamma-BHC (Lindane)	ND U	0.046	1	03/31/23 22:07	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10 - 111	03/31/23 22:07	
Tetrachloro-m-xylene	60	10 - 101	03/31/23 22:07	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request: R2302240
Date Collected: 03/15/23 11:50
Date Received: 03/16/23 09:30

Sample Name: MWA3-031523
Lab Code: R2302240-006

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	0.046	1	03/31/23 22:26	3/21/23	
beta-BHC	ND U	0.046	1	03/31/23 22:26	3/21/23	
delta-BHC	ND U	0.046	1	03/31/23 22:26	3/21/23	
gamma-BHC (Lindane)	ND U	0.046	1	03/31/23 22:26	3/21/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	10 - 111	03/31/23 22:26	
Tetrachloro-m-xylene	71	10 - 101	03/31/23 22:26	

Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1321.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 08:12 pm
 Operator : AFelser
 Sample : R2302240-001
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:09 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

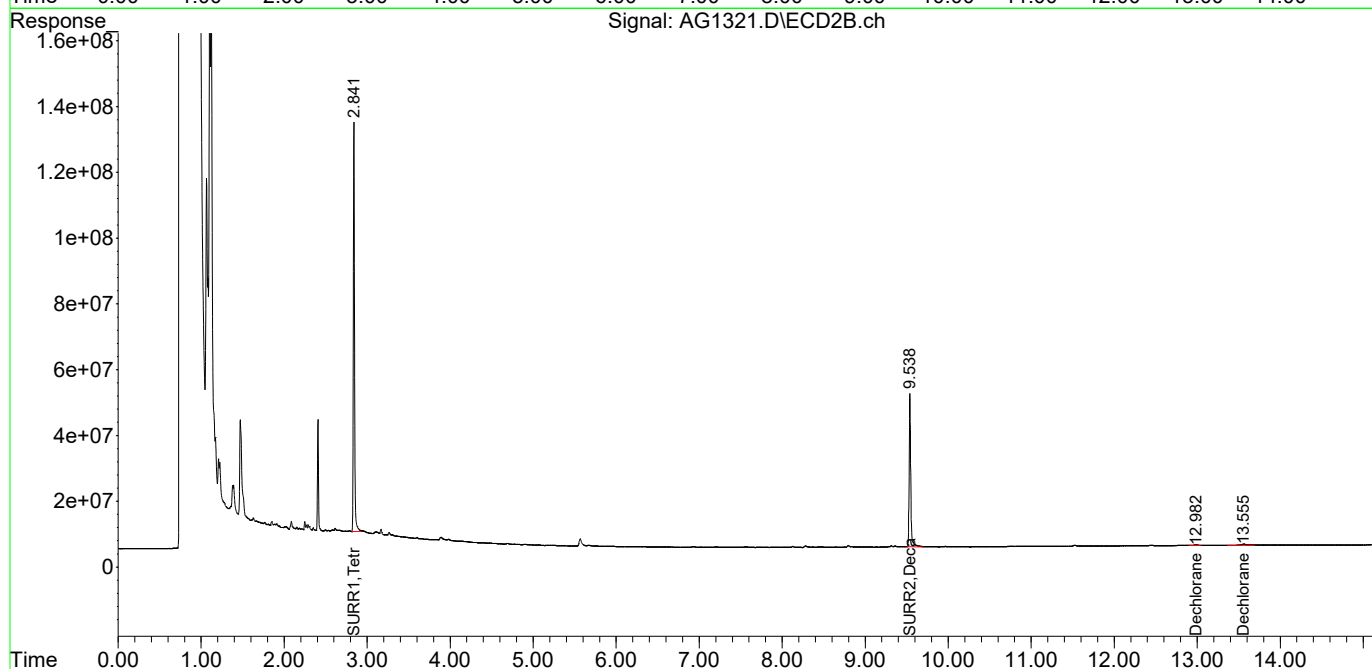
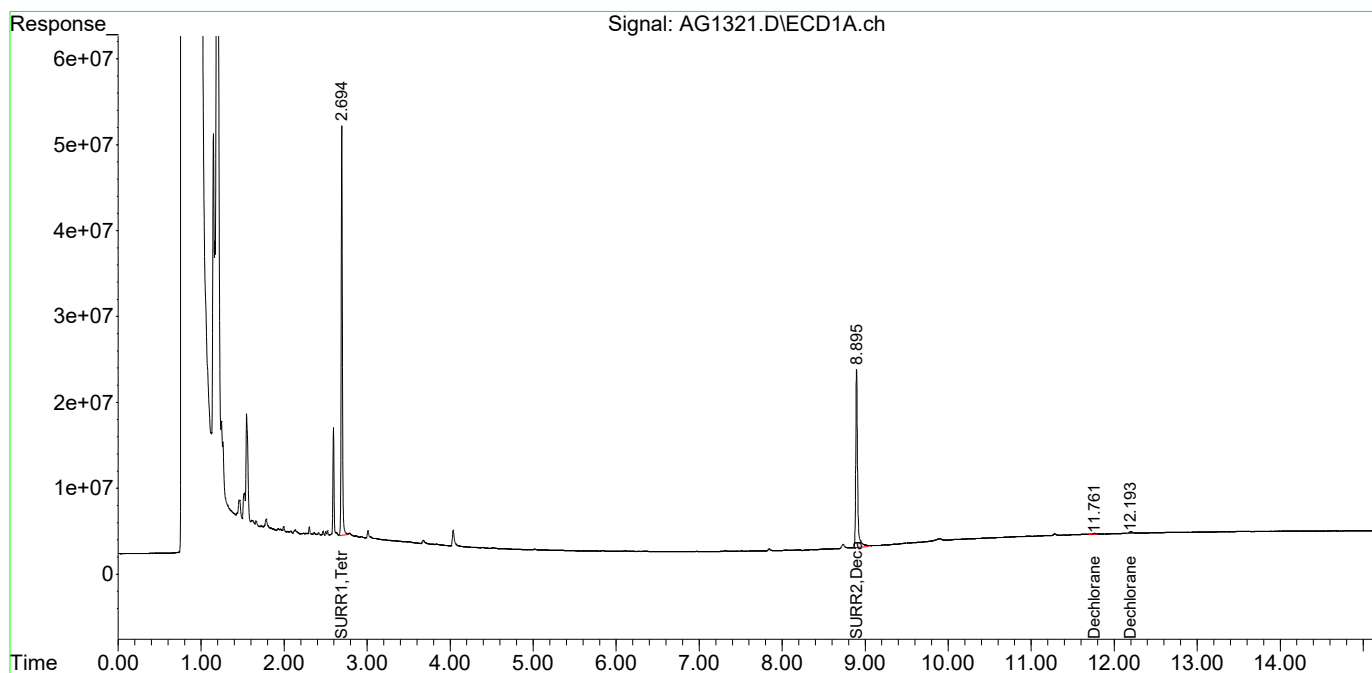
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	480.9E6	1254.8E6	12.008	11.937
Spiked Amount	100.000 Range	30 - 150	Recovery	=	12.01%#	11.94%#
23) S SURR2,Dec...	8.896	9.538	318.8E6	626.2E6	14.914	13.905
Spiked Amount	100.000 Range	30 - 150	Recovery	=	14.91%#	13.91%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
34) L10C Dechloran...	11.761	12.982	2550541	5798960	0.341	0.354
35) L10C Dechloran...	12.195	13.559	5256783	15545367	0.188	0.266 #
Sum Dechlorane			7807325	21344327	0.529	0.620
Average Dechlorane					0.264	0.310

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1321.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 08:12 pm
Operator : AFelser
Sample : R2302240-001
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:09 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1322.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 08:31 pm
 Operator : AFelser
 Sample : R2302240-002
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:12 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

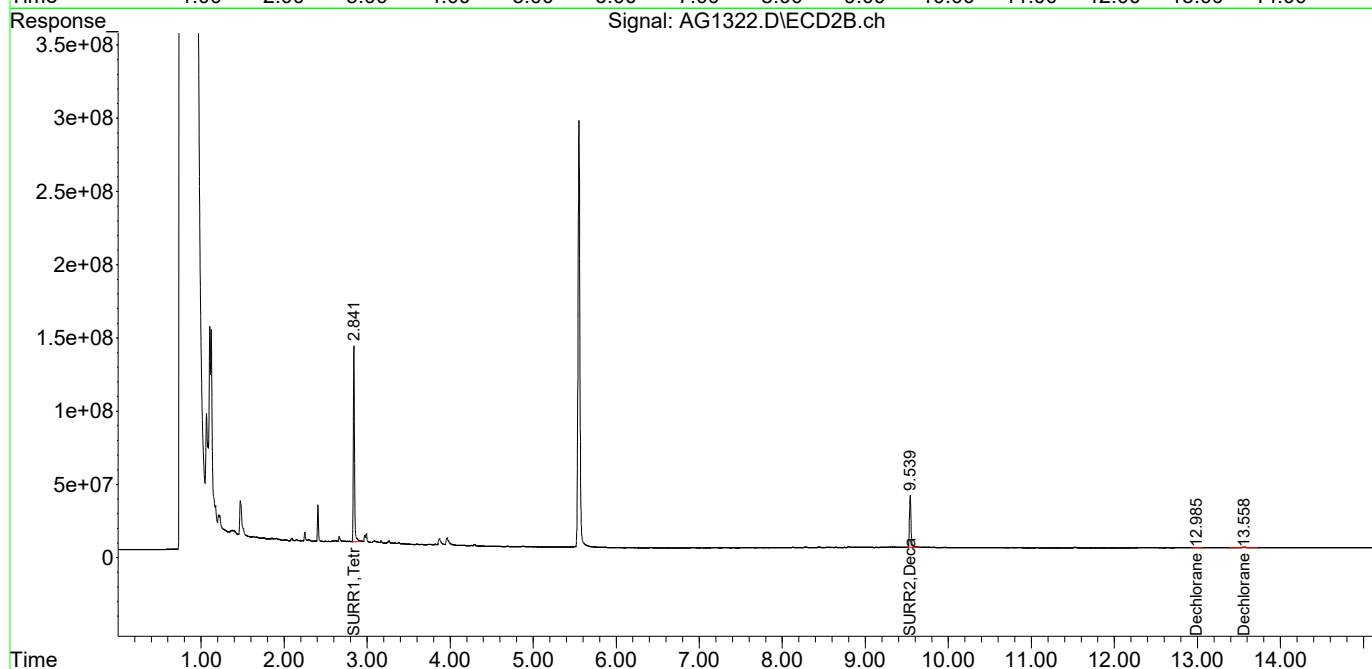
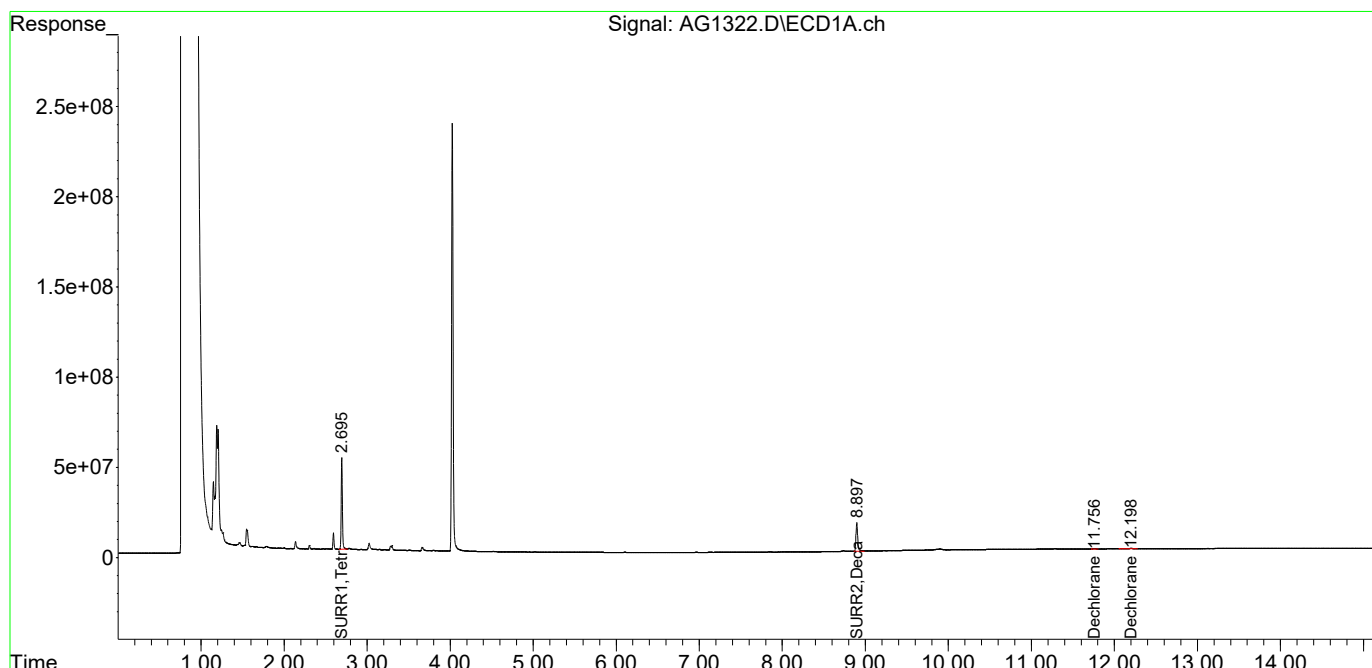
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	502.7E6	1310.0E6	12.553	12.463
Spiked Amount	100.000 Range	30 - 150	Recovery	=	12.55%#	12.46%#
23) S SURR2,Dec...	8.897	9.540	236.6E6	472.2E6	11.072	10.485
Spiked Amount	100.000 Range	30 - 150	Recovery	=	11.07%#	10.48%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
34) L10C Dechloran...	11.756	12.985	1921422	4828210	0.257	0.295
35) L10C Dechloran...	12.197	13.558	6746428	16092604	0.241	0.275
Sum Dechlorane			8667850	20920814	0.498	0.570
Average Dechlorane					0.249	0.285

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1322.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 08:31 pm
Operator : AFelser
Sample : R2302240-002
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:12 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1323.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 08:50 pm
 Operator : AFelser
 Sample : R2302240-003
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:15 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

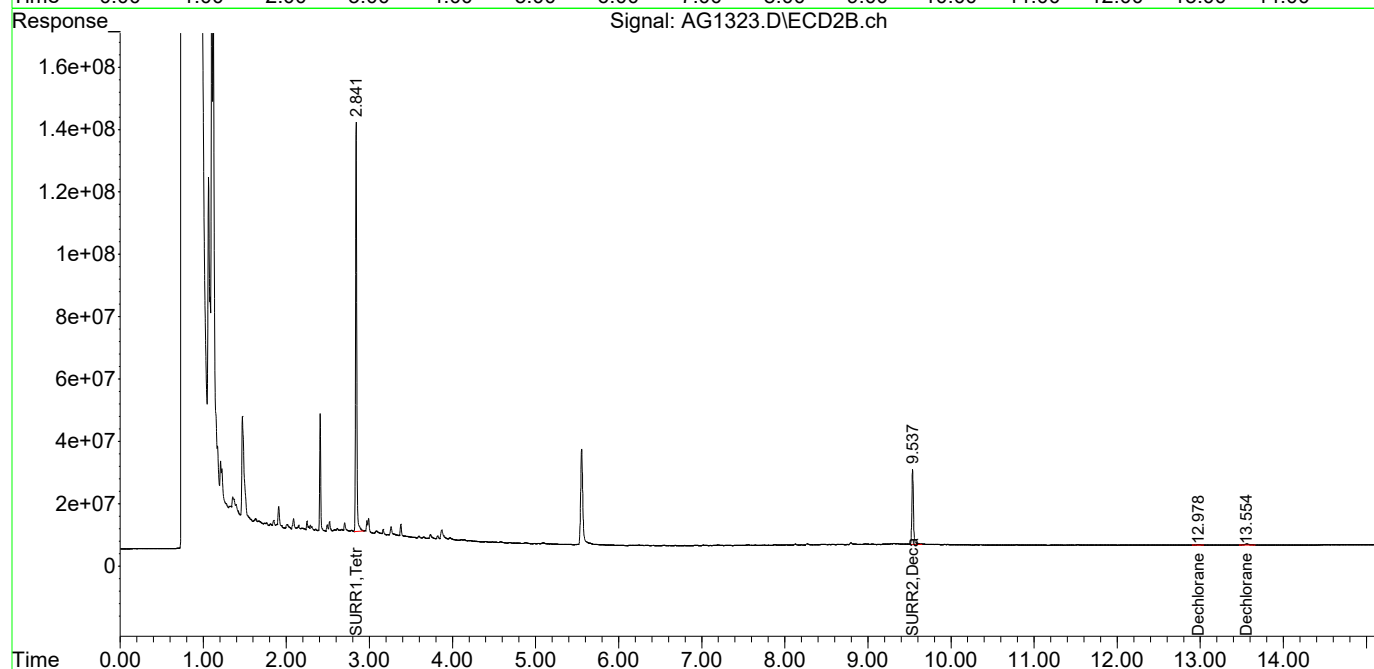
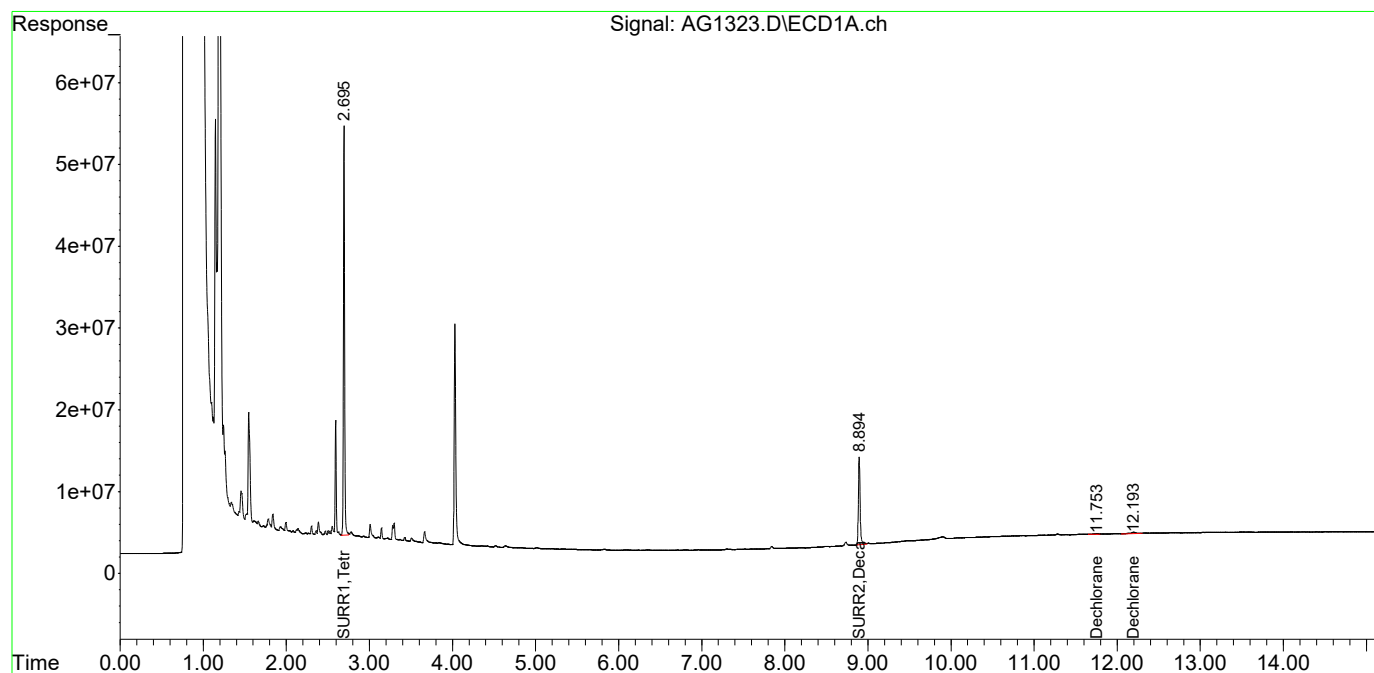
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	495.6E6	1284.7E6	12.376	12.222
Spiked Amount	100.000 Range	30 - 150	Recovery =	12.38%#	12.22%#	
23) S SURR2,Dec...	8.895	9.538	156.8E6	317.2E6	7.336	7.044
Spiked Amount	100.000 Range	30 - 150	Recovery =	7.34%#	7.04%#	
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
34) L10C Dechloran...	11.754	12.978	1697590	4029318	0.227	0.246
35) L10C Dechloran...	12.192	13.555	6629515	11966527	0.237	0.205
Sum Dechlorane			8327105	15995845	0.464	0.451
Average Dechlorane					0.232	0.225

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1323.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 08:50 pm
Operator : AFelser
Sample : R2302240-003
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:15 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1326.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 09:48 pm
 Operator : AFelser
 Sample : R2302240-004
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:24 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

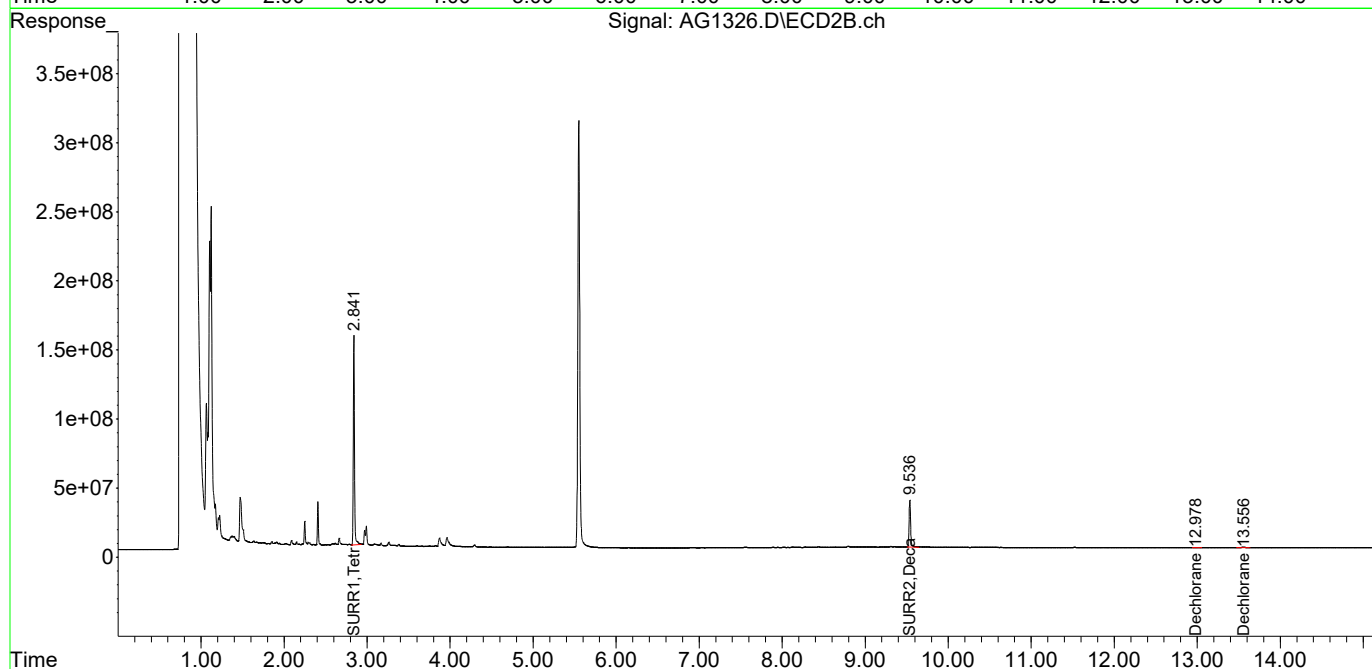
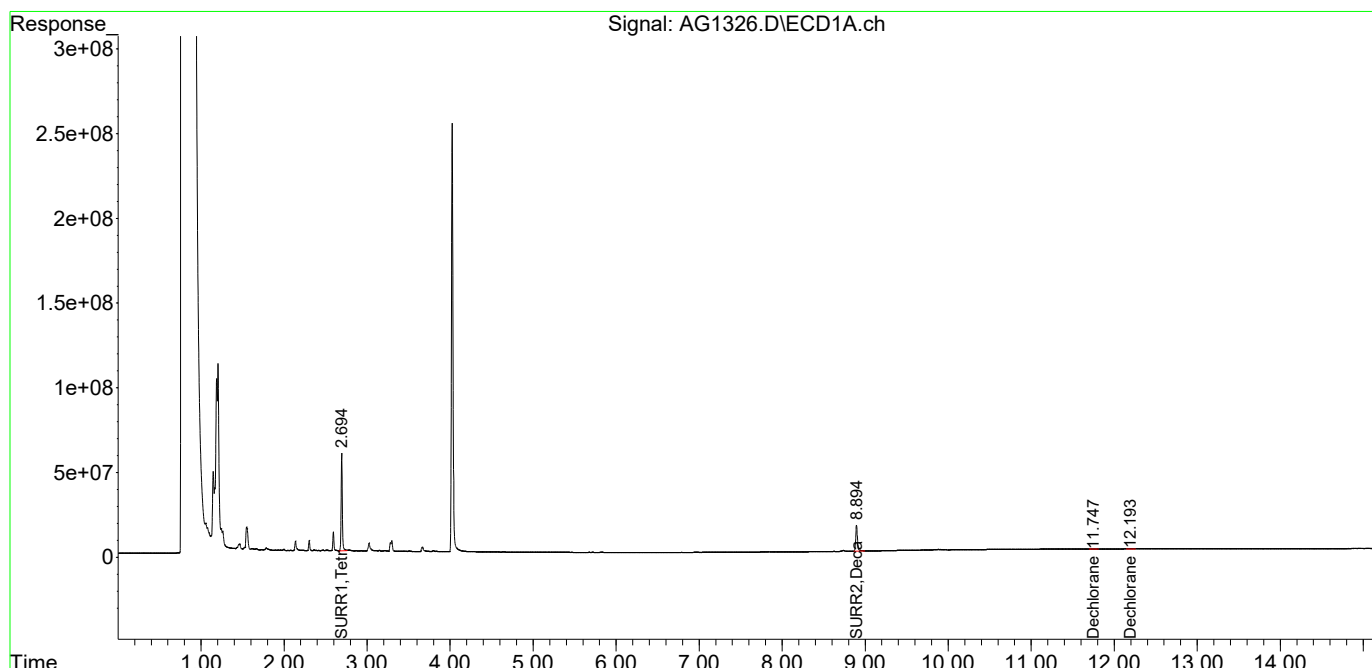
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	574.8E6	1493.0E6	14.353	14.204
Spiked Amount	100.000 Range	30 - 150	Recovery	=	14.35%#	14.20%#
23) S SURR2,Dec...	8.895	9.537	224.7E6	443.9E6	10.514	9.857
Spiked Amount	100.000 Range	30 - 150	Recovery	=	10.51%#	9.86%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
34) L10C Dechloran...	11.748f	12.978	1413044	2583315	0.189	0.158
35) L10C Dechloran...	12.194	13.556	5694131	9456131	0.203	0.162
Sum Dechlorane			7107174	12039446	0.392	0.319
Average Dechlorane					0.196	0.160

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1326.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 09:48 pm
Operator : AFelser
Sample : R2302240-004
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:24 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

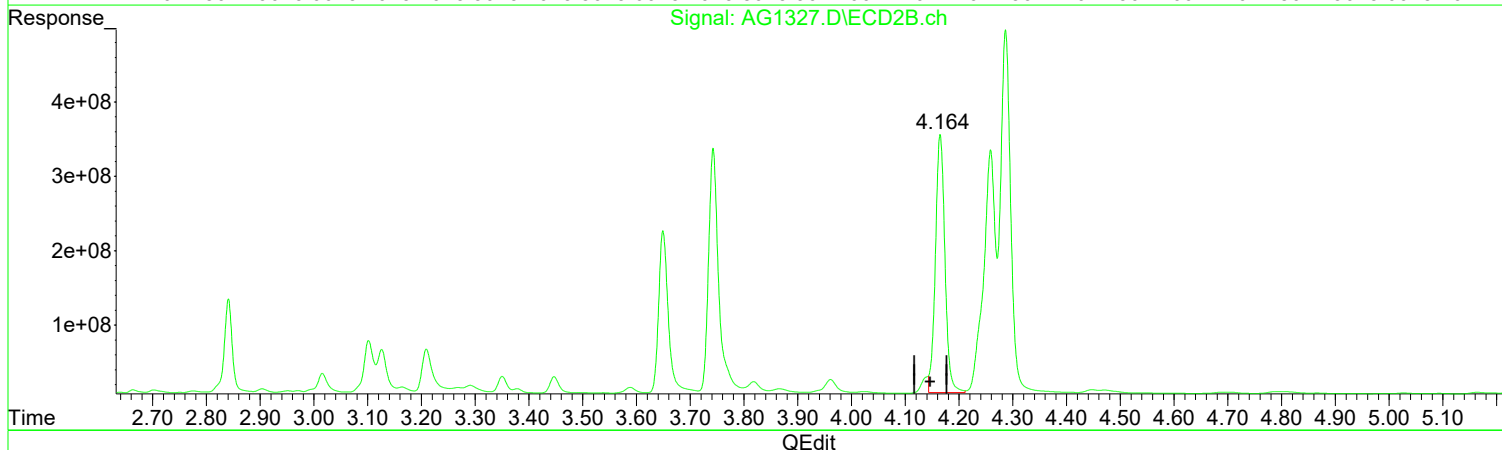
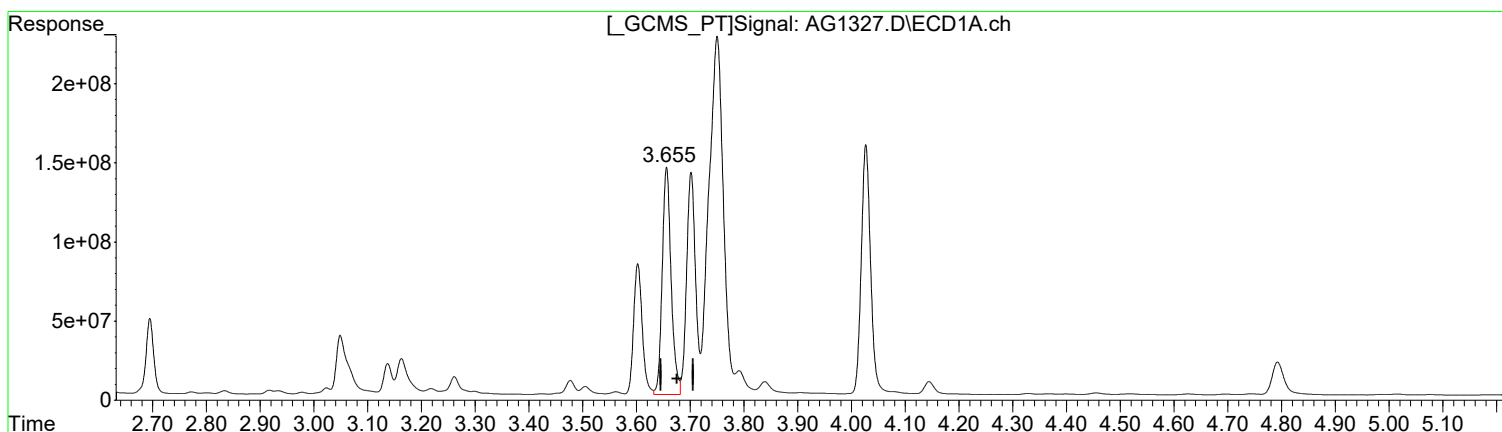
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1327.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 10:07 pm
Operator : AFelser
Sample : R2302240-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:27 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) delta-BHC (tc)
3.656min 29.980 ug/l
response 1650227657

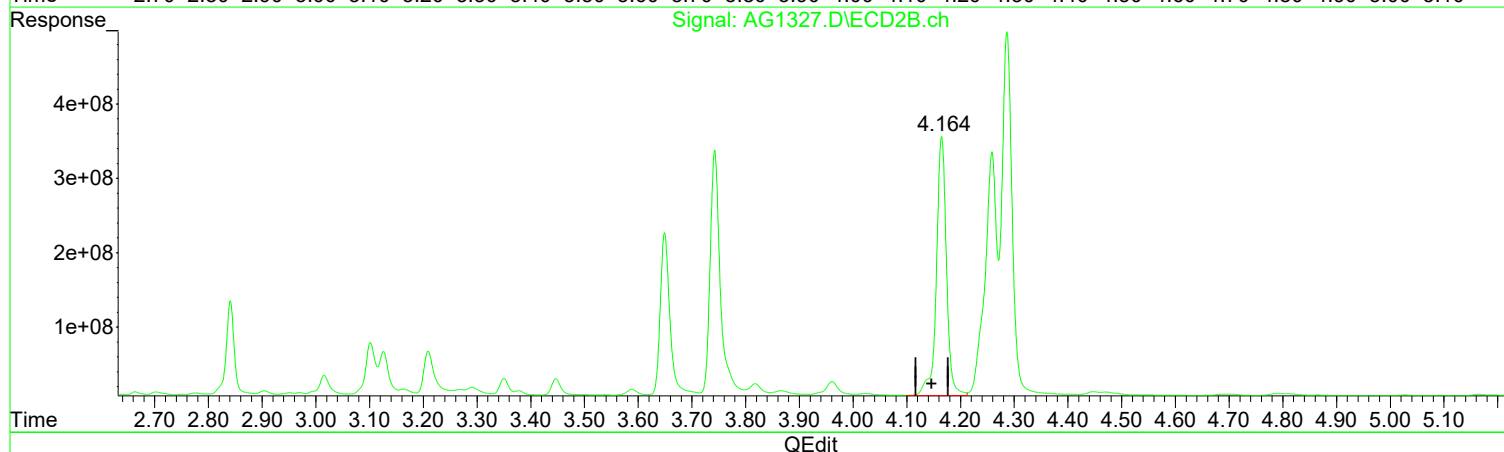
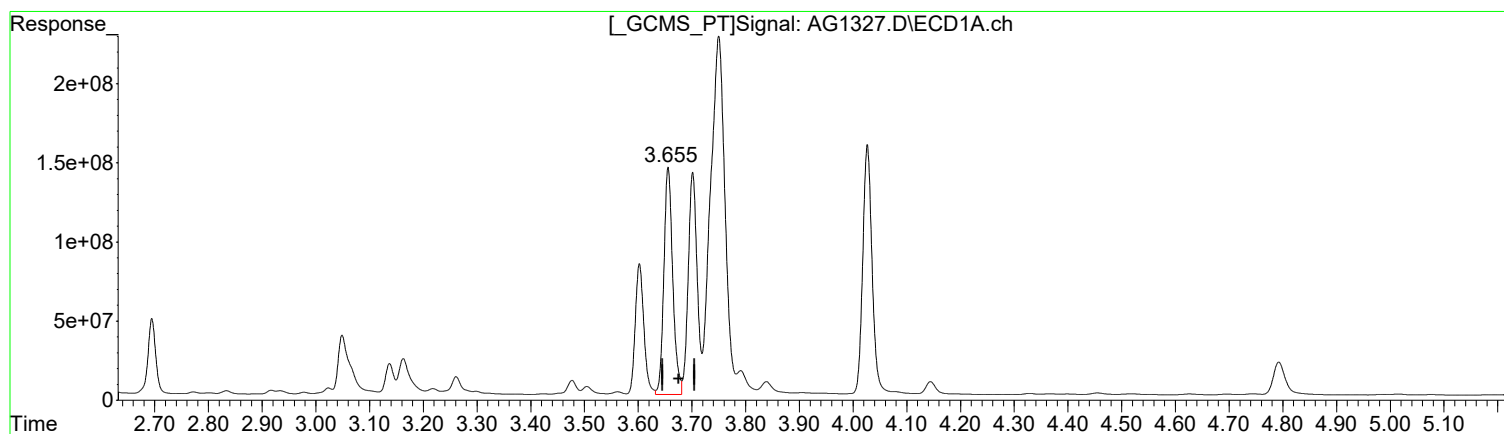
(7) delta-BHC #2 (tc)
4.164min 29.081 ug/l m
response 4278183608

Manual Integration:
After
Poor integration.
04/03/23

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1327.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 10:07 pm
Operator : AFelser
Sample : R2302240-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:27 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) delta-BHC (tc)
3.656min 29.980 ug/l
response 1650227657

(7) delta-BHC #2 (tc)
4.165min 30.745 ug/l
response 4522976578

Manual Integration:
Before
04/03/23

Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1327.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 10:07 pm
 Operator : AFelser
 Sample : R2302240-005
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:27 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

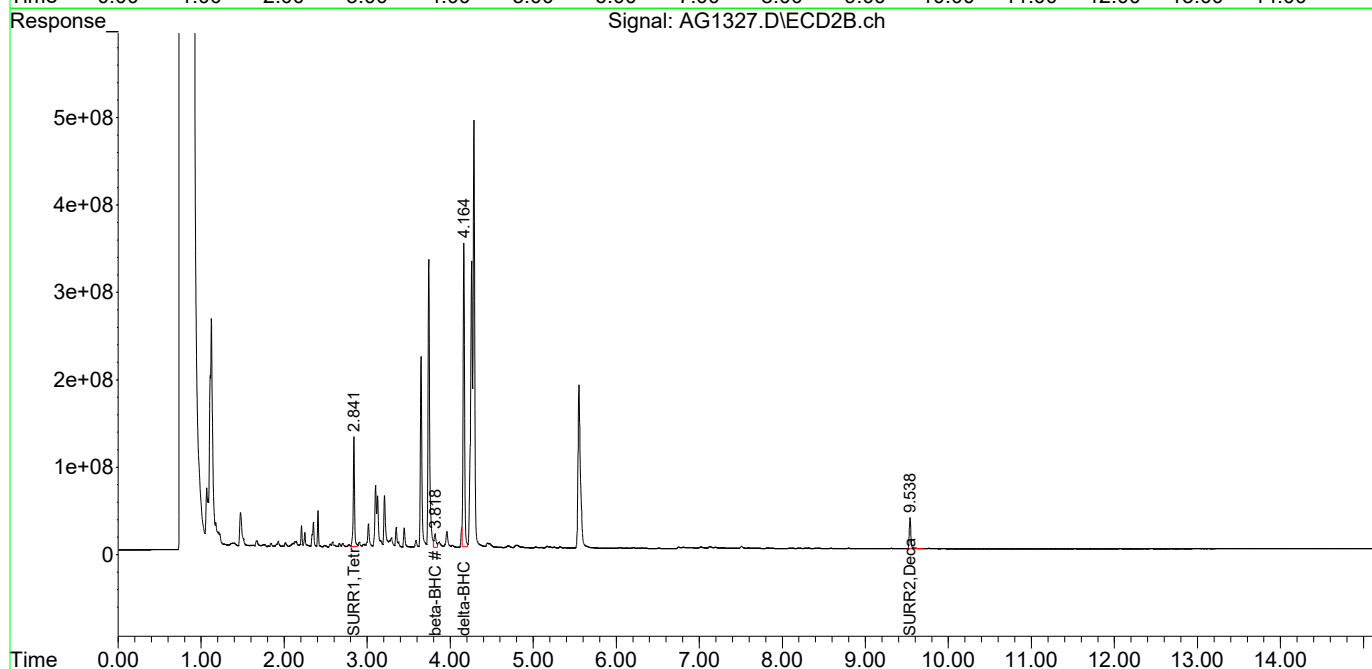
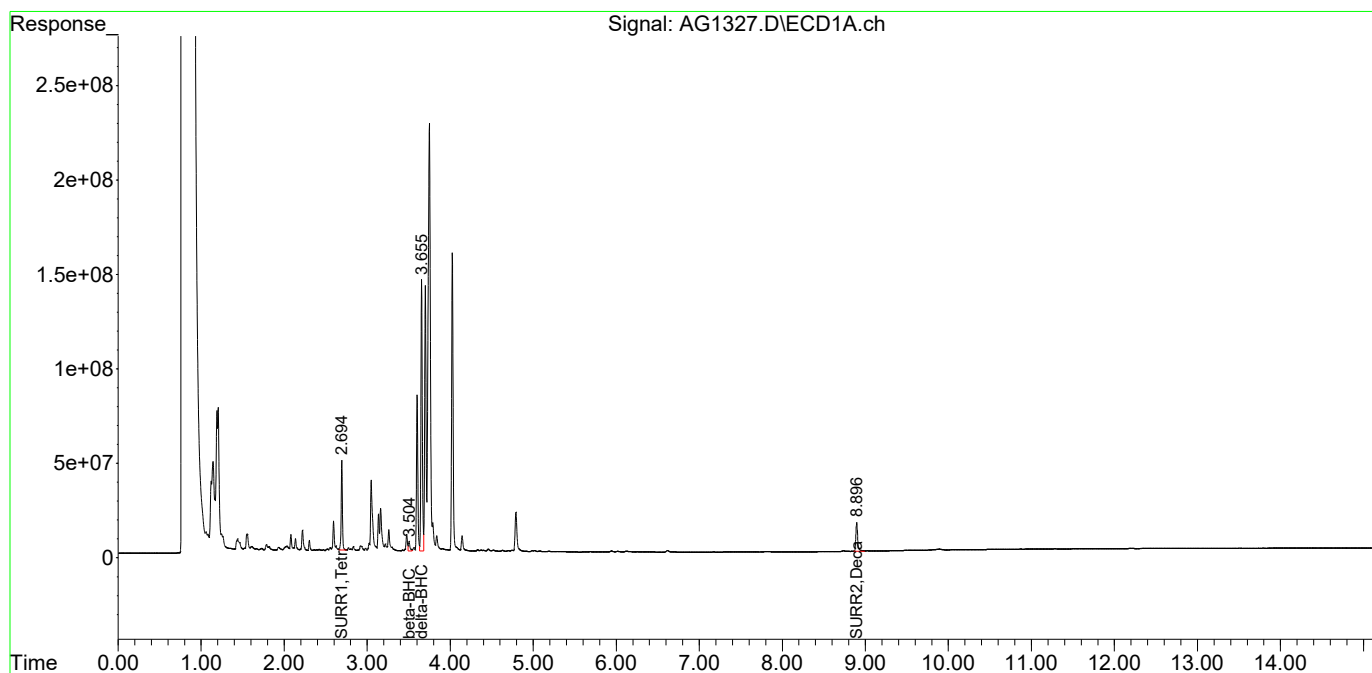
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	481.8E6	1332.7E6	12.031	12.679
Spiked Amount	100.000 Range	30 - 150	Recovery	=	12.03%#	12.68%#
23) S SURR2,Dec...	8.896	9.538	237.3E6	475.8E6	11.103	10.564
Spiked Amount	100.000 Range	30 - 150	Recovery	=	11.10%#	10.56%#
Target Compounds						
6) tc beta-BHC	3.505	3.818	66626600	268.3E6	2.757	4.057 #
7) tc delta-BHC	3.656f	4.164f	1650.2E6	4278.2E6	29.980	29.081m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1327.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 10:07 pm
Operator : AFelser
Sample : R2302240-005
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:27 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1328.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 10:26 pm
 Operator : AFelser
 Sample : R2302240-006
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:30 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

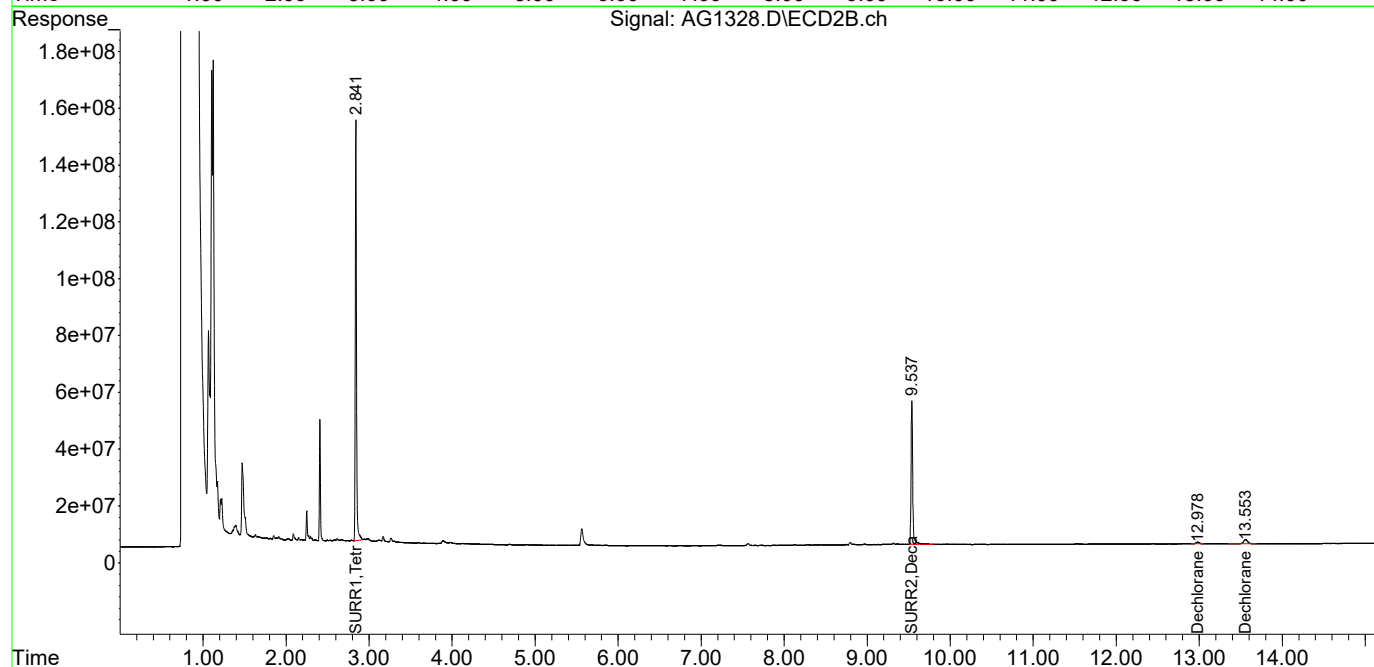
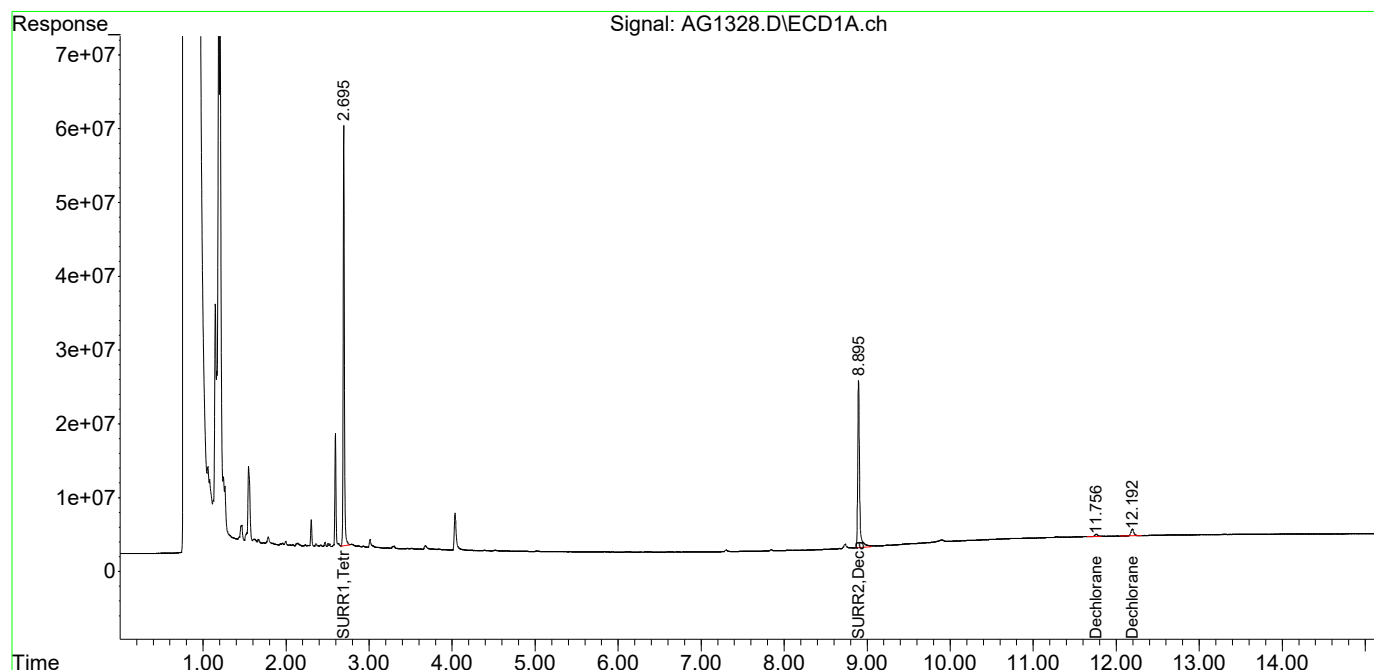
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	573.8E6	1496.4E6	14.327	14.237
Spiked Amount	100.000 Range	30 - 150	Recovery	=	14.33%#	14.24%#
23) S SURR2,Dec...	8.896	9.537	352.0E6	701.5E6	16.468	15.577
Spiked Amount	100.000 Range	30 - 150	Recovery	=	16.47%#	15.58%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
34) L10C Dechloran...	11.755	12.977	7483724	16647101	1.000	1.015
35) L10C Dechloran...	12.192	13.554	21944690	50260267	0.783	0.860
Sum Dechlorane			29428414	66907367	1.784	1.876
Average Dechlorane					0.892	0.938

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1328.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 10:26 pm
Operator : AFelser
Sample : R2302240-006
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:30 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1242.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 02:58 pm
 Operator : AFelser
 Sample : RQ2303300-01
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 15:15:41 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

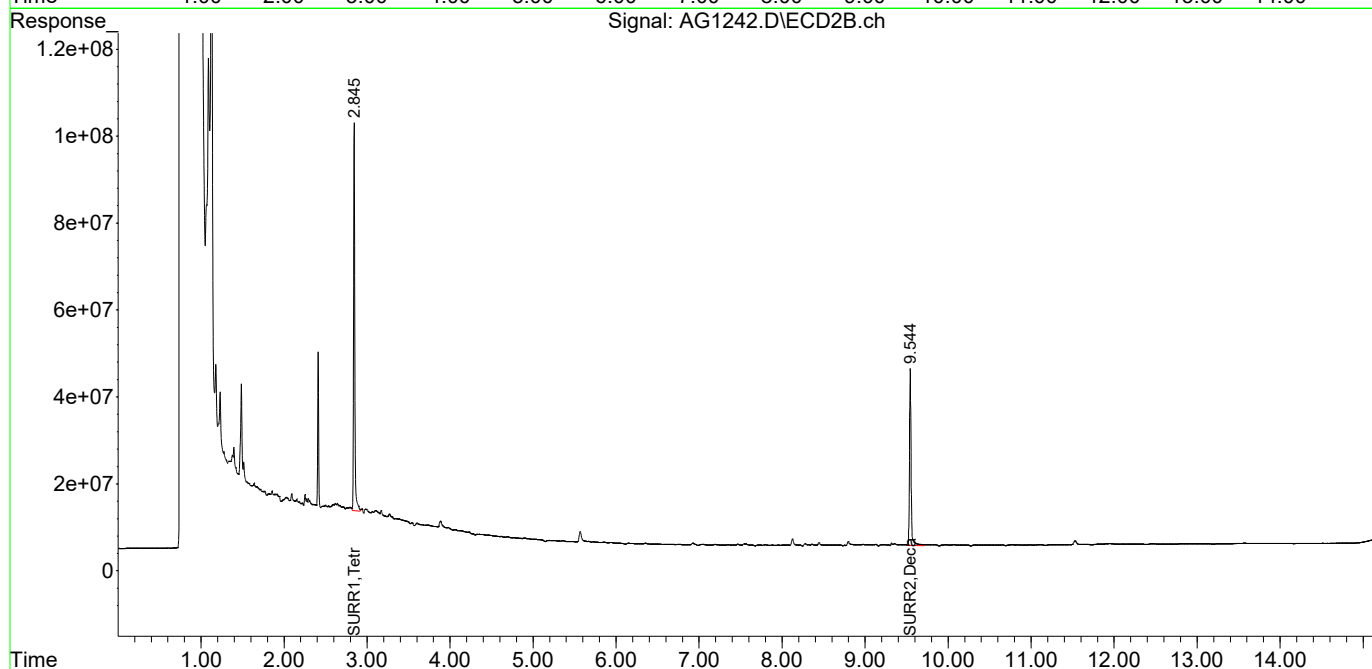
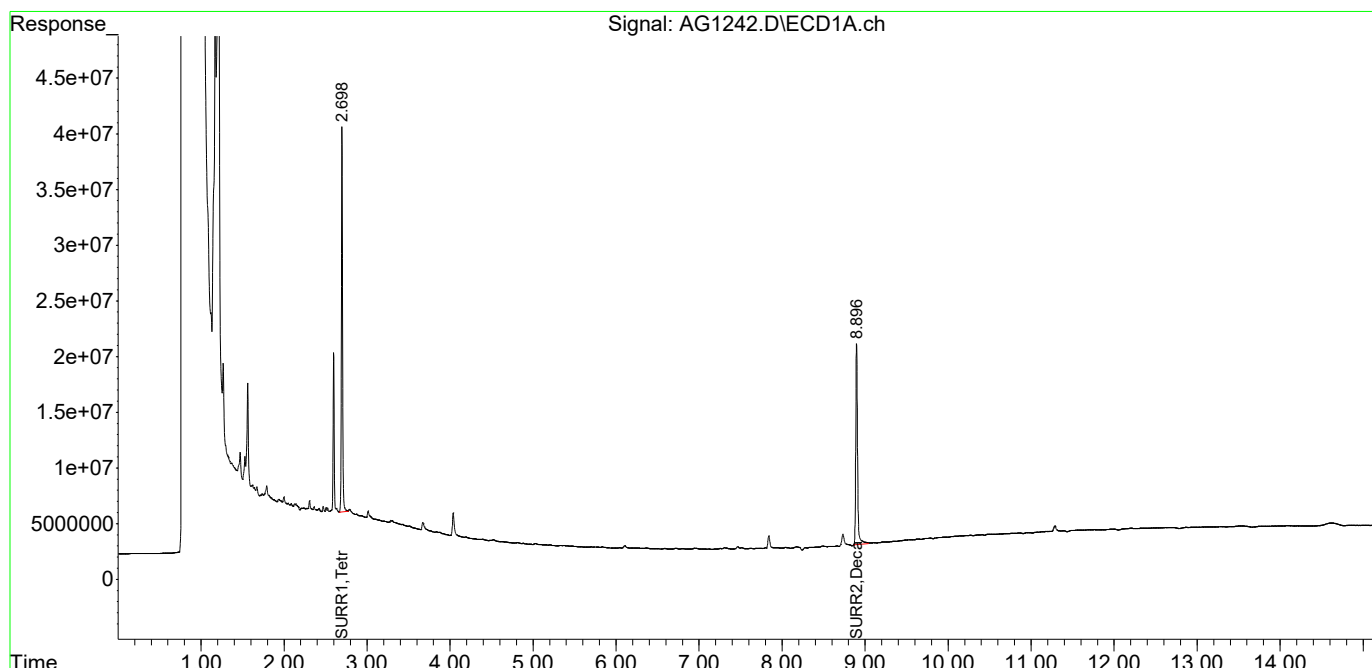
System Monitoring Compounds						
1) S SURR1,Tet...	2.698	2.845	336.5E6	905.5E6	8.402	8.615
Spiked Amount	100.000 Range	30 - 150	Recovery	=	8.40%#	8.62%#
23) S SURR2,Dec...	8.897	9.544	272.9E6	550.2E6	12.766	12.217
Spiked Amount	100.000 Range	30 - 150	Recovery	=	12.77%#	12.22%#
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033023\
Data File : AG1242.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Mar 2023 02:58 pm
Operator : AFelser
Sample : RQ2303300-01
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 30 15:15:41 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase : DB-CLPII
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1243.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 03:17 pm
 Operator : AFelser
 Sample : RQ2303300-02
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 15:37:44 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

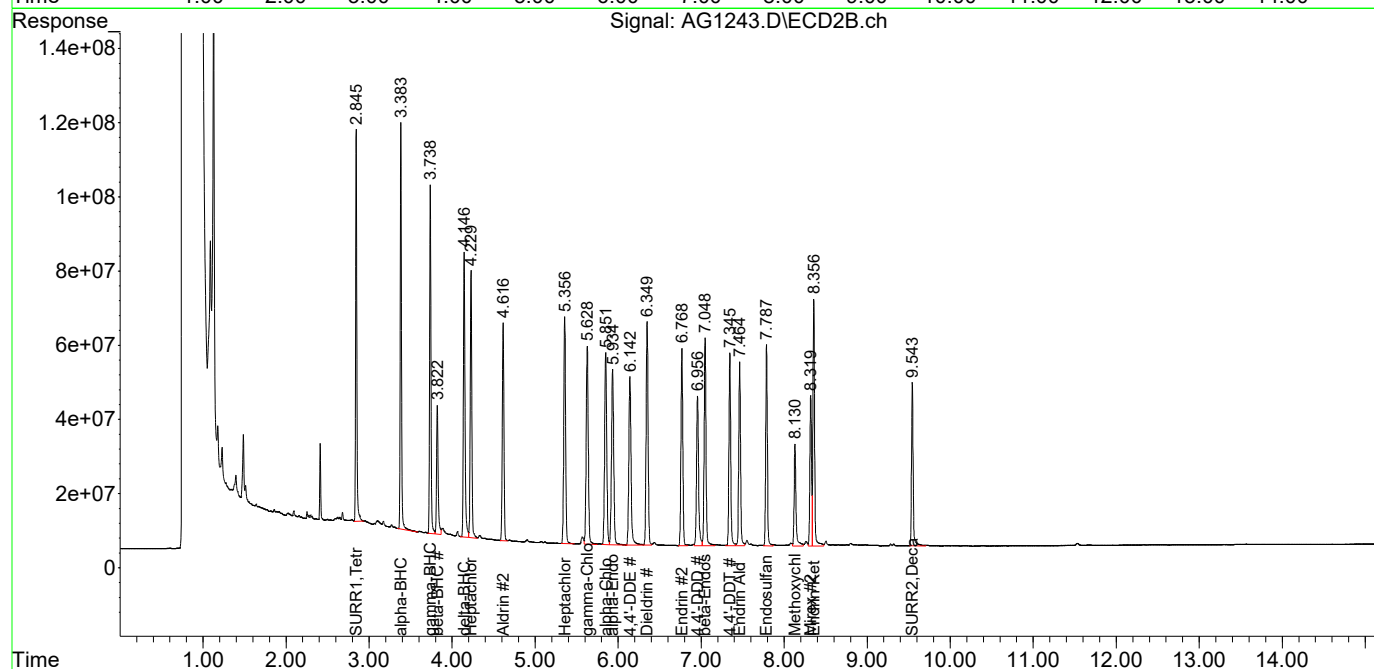
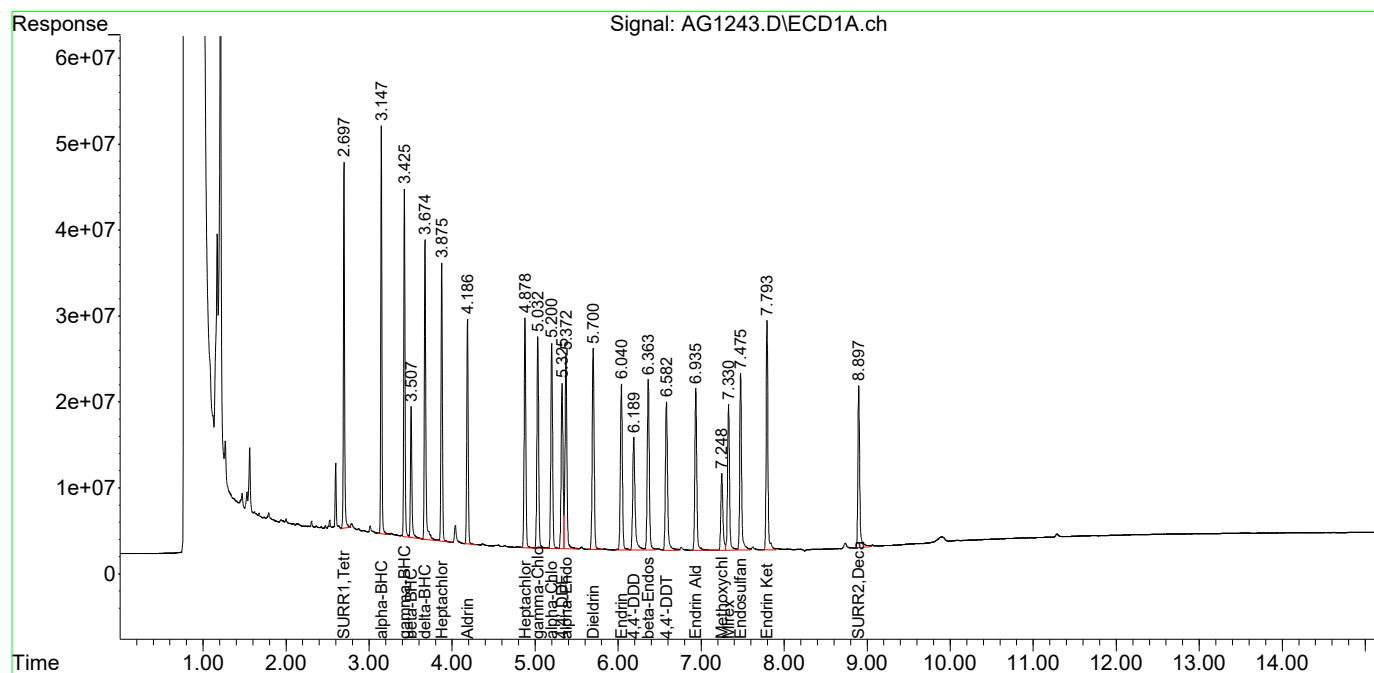
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.698	2.845	415.2E6	1054.5E6	10.367	10.032
Spiked Amount	100.000	Range	30 - 150	Recovery =	10.37%#	10.03%#
23) S SURR2,Dec...	8.897	9.543	295.1E6	603.3E6	13.809	13.396
Spiked Amount	100.000	Range	30 - 150	Recovery =	13.81%#	13.40%#
Target Compounds						
2) tc alpha-BHC	3.148	3.383	451.2E6	1154.2E6	7.435	7.119
3) tcm gamma-BHC (L	3.426	3.738	419.8E6	1056.3E6	7.333	6.982
4) tcm Heptachlor	3.876	4.229	375.3E6	962.7E6	6.875	6.545
5) tcm Aldrin	4.186	4.616	313.8E6	805.3E6	6.077	5.974
6) tc beta-BHC	3.507	3.822	183.8E6	462.1E6	7.605	6.987
7) tc delta-BHC	3.674	4.146	426.3E6	1036.0E6	7.744	7.042
8) tc Heptachlor E	4.879	5.357	376.3E6	949.0E6	7.945	7.677
9) tc alpha-Endosu	5.373	5.934	364.7E6	878.5E6	7.782	7.592
10) tc gamma-Chlord	5.033	5.628	365.7E6	930.9E6	7.848	7.590
11) tc alpha-Chlord	5.201	5.851	359.4E6	921.7E6	7.868	7.705
12) tc 4,4'-DDE	5.325	6.142	301.4E6	848.2E6	7.899	7.678
13) tcm Dieldrin	5.700	6.350	383.7E6	993.6E6	8.075	7.800
14) tcm Endrin	6.040	6.768	322.3E6	814.4E6	7.948	7.778
15) tc beta-Endosul	6.364	7.048	338.0E6	866.4E6	8.190	8.001
16) tc 4,4'-DDD	6.189	6.956	263.8E6	699.5E6	8.007	7.963
17) tcm 4,4'-DDT	6.582	7.346	311.4E6	768.5E6	8.336	8.092
18) tc Endrin Aldeh	6.935	7.464	305.1E6	753.1E6	8.868	8.690
19) tc Endosulfan S	7.475	7.787	325.4E6	754.6E6	8.606	8.161
20) tc Methoxychlor	7.248	8.130	157.1E6	425.9E6	8.665	8.388
21) tc Endrin Keton	7.793	8.356	392.9E6	934.0E6	8.749	8.444
22) tc Mirex	7.331	8.320	278.3E6	556.2E6	7.603	7.549
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1243.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 03:17 pm
 Operator : AFelser
 Sample : RQ2303300-02
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 15:37:44 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1244.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 03:36 pm
 Operator : AFelser
 Sample : RQ2303300-03
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 15:58:25 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

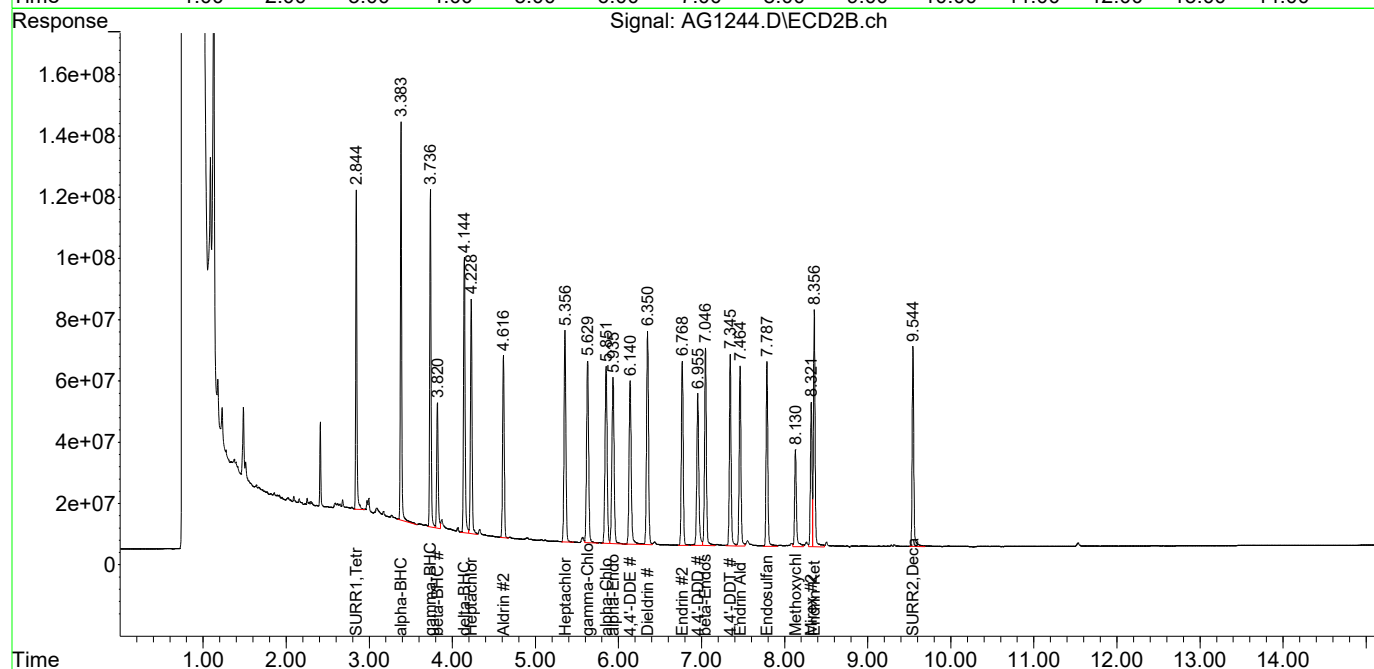
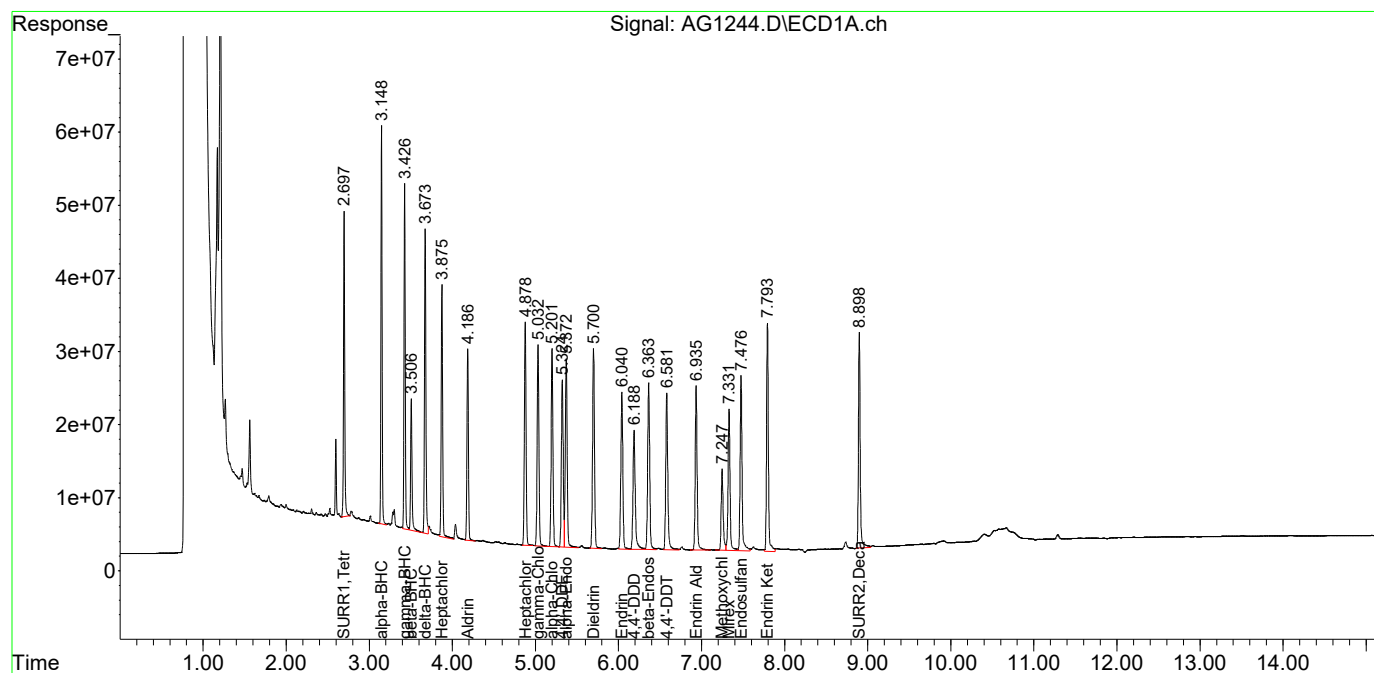
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.698	2.844	416.4E6	1027.7E6	10.398	9.777
Spiked Amount	100.000 Range	30 - 150	Recovery =	10.40%#	9.78%#	
23) S SURR2,Dec...	8.898	9.544	429.2E6	863.0E6	20.079	19.163
Spiked Amount	100.000 Range	30 - 150	Recovery =	20.08%#	19.16%#	
Target Compounds						
2) tc alpha-BHC	3.148	3.383	530.1E6	1370.3E6	8.734	8.452
3) tcm gamma-BHC (L	3.426	3.736	491.0E6	1227.7E6	8.577	8.114
4) tcm Heptachlor	3.875	4.229	414.1E6	1016.8E6	7.587	6.913
5) tcm Aldrin	4.186	4.616	319.3E6	812.3E6	6.185	6.026
6) tc beta-BHC	3.506	3.821	212.0E6	520.7E6	8.775	7.873
7) tc delta-BHC	3.674	4.145	489.2E6	1182.5E6	8.887	8.038
8) tc Heptachlor E	4.878	5.357	430.4E6	1079.7E6	9.086	8.735
9) tc alpha-Endosu	5.372	5.935	408.1E6	996.8E6	8.708	8.614
10) tc gamma-Chlord	5.033	5.629	411.3E6	1033.8E6	8.826	8.429
11) tc alpha-Chlord	5.201	5.851	404.9E6	1039.2E6	8.864	8.686
12) tc 4,4'-DDE	5.324	6.141	351.2E6	964.8E6	9.203	8.734
13) tcm Dieldrin	5.700	6.350	441.1E6	1138.1E6	9.285	8.935
14) tcm Endrin	6.041	6.768	365.6E6	924.2E6	9.015	8.827
15) tc beta-Endosul	6.364	7.047	385.7E6	992.0E6	9.344	9.161
16) tc 4,4'-DDD	6.188	6.955	308.6E6	837.4E6	9.367	9.533
17) tcm 4,4'-DDT	6.582	7.345	366.3E6	891.6E6	9.805	9.387
18) tc Endrin Aldeh	6.935	7.464	350.7E6	861.9E6	10.193	9.945
19) tc Endosulfan S	7.476	7.787	382.9E6	875.8E6	10.126	9.472
20) tc Methoxychlor	7.247	8.130	186.9E6	488.4E6	10.307	9.618
21) tc Endrin Keton	7.794	8.357	466.0E6	1074.6E6	10.379	9.714
22) tc Mirex	7.331	8.321	315.1E6	633.8E6	8.608	8.601
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033023\
Data File : AG1244.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Mar 2023 03:36 pm
Operator : AFelser
Sample : RQ2303300-03
Misc :
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 30 15:58:25 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1324.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 09:09 pm
 Operator : AFelser
 Sample : RQ2303300-06
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:18 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

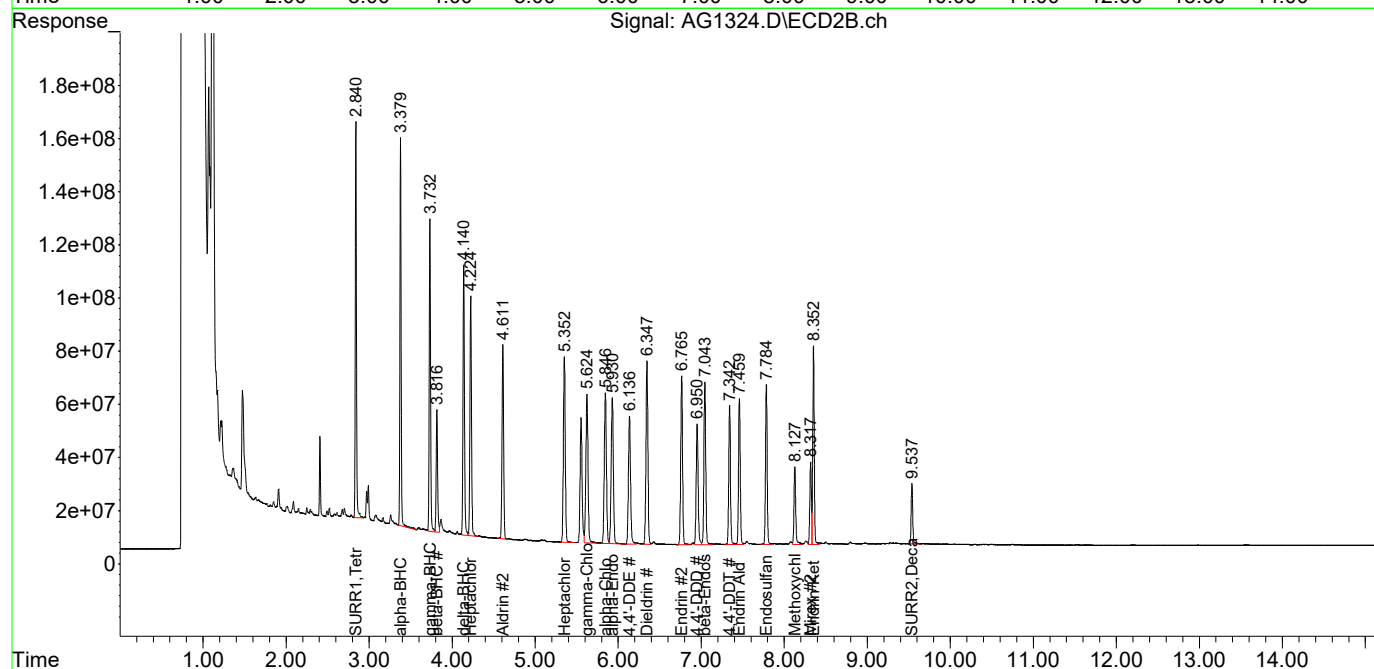
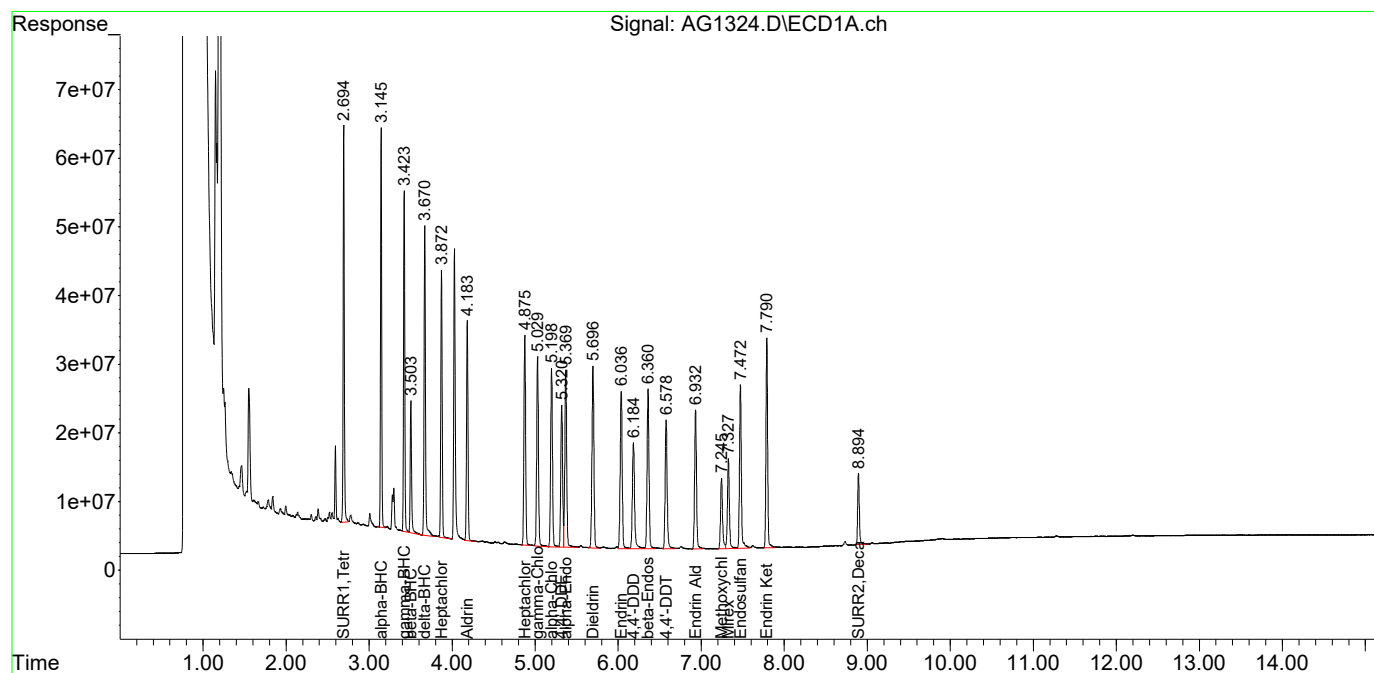
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	556.0E6	1443.1E6	13.884	13.729
Spiked Amount	100.000 Range	30 - 150	Recovery =		13.88%#	13.73%#
23) S SURR2,Dec...	8.894	9.537	144.6E6	292.2E6	6.764	6.488
Spiked Amount	100.000 Range	30 - 150	Recovery =		6.76%#	6.49%#
Target Compounds						
2) tc alpha-BHC	3.145	3.379	561.1E6	1472.5E6	9.245	9.083
3) tcm gamma-BHC (L	3.423	3.733	509.6E6	1318.0E6	8.902	8.711
4) tcm Heptachlor	3.873	4.225	455.7E6	1163.6E6	8.348	7.911
5) tcm Aldrin	4.183	4.612	384.8E6	986.7E6	7.452	7.319
6) tc beta-BHC	3.503	3.817	222.3E6	557.1E6	9.200	8.422
7) tc delta-BHC	3.671	4.140	528.5E6	1258.3E6	9.601	8.553
8) tc Heptachlor E	4.876	5.352	432.8E6	1097.4E6	9.138	8.878
9) tc alpha-Endosu	5.369	5.930	405.1E6	1002.3E6	8.646	8.662
10) tc gamma-Chlord	5.030	5.624	403.8E6	998.0E6	8.665	8.137
11) tc alpha-Chlord	5.198	5.846	393.0E6	1010.8E6	8.603	8.449
12) tc 4,4'-DDE	5.321	6.137	314.7E6	853.2E6	8.249	7.724
13) tcm Dieldrin	5.696	6.347	431.7E6	1117.2E6	9.086	8.770
14) tcm Endrin	6.037	6.765	386.7E6	965.0E6	9.536	9.216
15) tc beta-Endosul	6.360	7.044	378.6E6	943.7E6	9.173	8.715
16) tc 4,4'-DDD	6.184	6.951	288.5E6	740.3E6	8.757	8.427
17) tcm 4,4'-DDT	6.579	7.342	313.2E6	751.0E6	8.383	7.907
18) tc Endrin Aldeh	6.932	7.460	315.5E6	782.9E6	9.170	9.034
19) tc Endosulfan S	7.472	7.785	363.3E6	818.3E6	9.608	8.850
20) tc Methoxychlor	7.245	8.127	170.5E6	423.5E6	9.406	8.341
21) tc Endrin Keton	7.790	8.353	427.1E6	962.7E6	9.511	8.703
22) tc Mirex	7.327	8.317	210.6E6	410.2E6	5.753	5.568
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1324.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 09:09 pm
Operator : AFelser
Sample : RQ2303300-06
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:18 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1325.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 09:29 pm
 Operator : AFelser
 Sample : RQ2303300-07
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:21 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

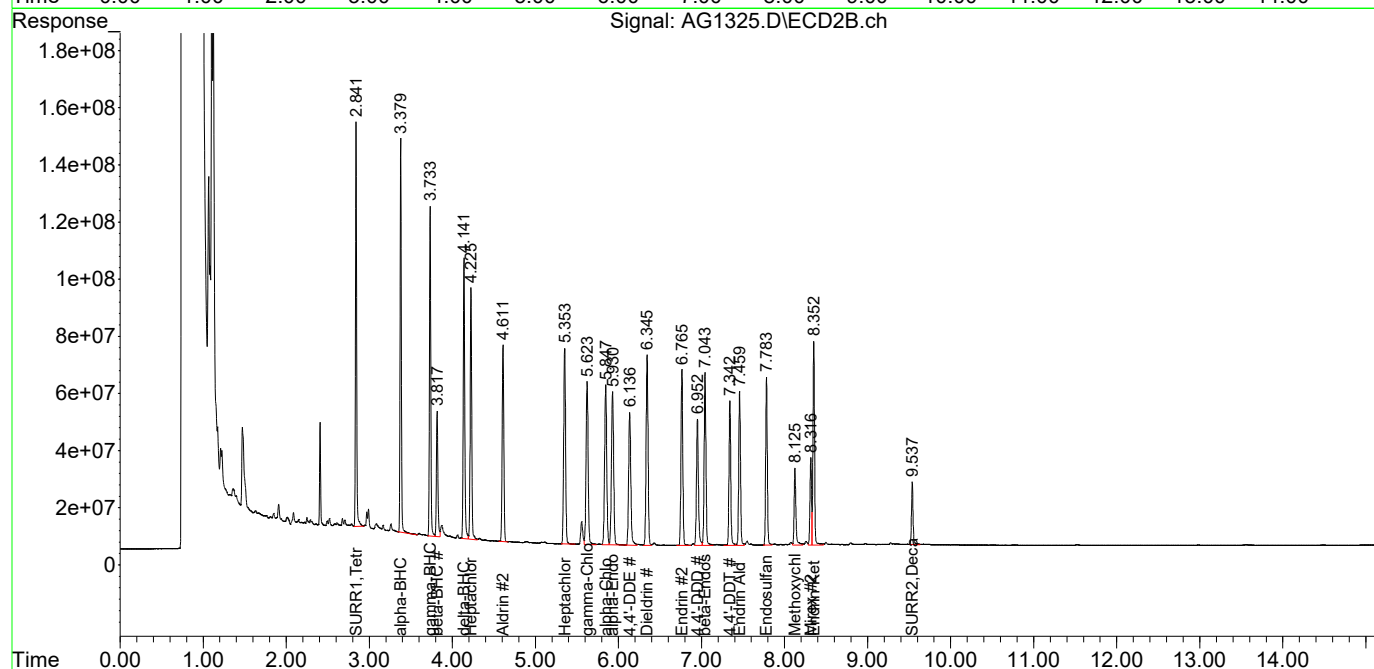
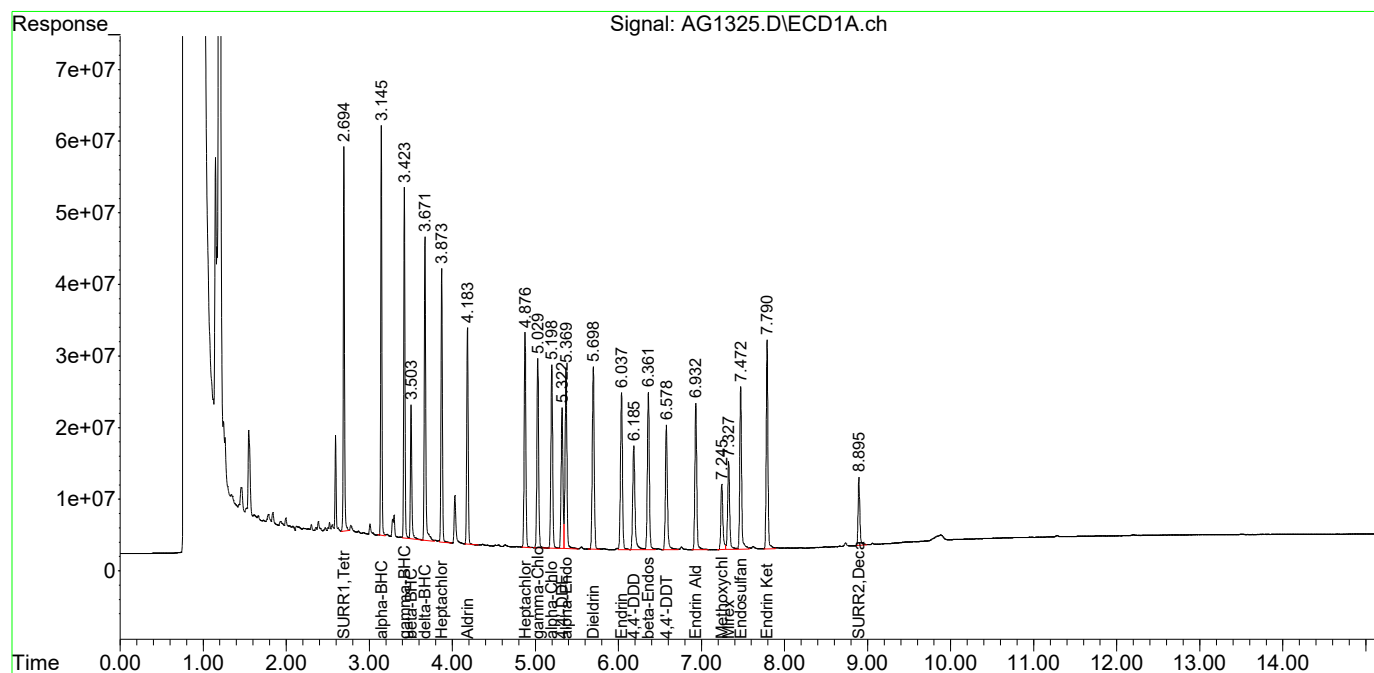
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	527.0E6	1374.1E6	13.159	13.073
Spiked Amount	100.000 Range	30 - 150	Recovery =		13.16%#	13.07%#
23) S SURR2,Dec...	8.895	9.537	140.5E6	285.0E6	6.574	6.328
Spiked Amount	100.000 Range	30 - 150	Recovery =		6.57%#	6.33%#
Target Compounds						
2) tc alpha-BHC	3.146	3.379	544.2E6	1412.7E6	8.966	8.713
3) tcm gamma-BHC (L	3.423	3.734	495.8E6	1279.2E6	8.661	8.455
4) tcm Heptachlor	3.873	4.226	438.2E6	1139.6E6	8.028	7.748
5) tcm Aldrin	4.183	4.611	366.9E6	954.0E6	7.106	7.077
6) tc beta-BHC	3.504	3.818	216.1E6	547.7E6	8.945	8.280
7) tc delta-BHC	3.671	4.141	516.4E6	1238.8E6	9.381	8.421
8) tc Heptachlor E	4.876	5.353	420.5E6	1076.2E6	8.879	8.706
9) tc alpha-Endosu	5.370	5.931	393.5E6	979.5E6	8.398	8.465
10) tc gamma-Chlord	5.029	5.624	386.4E6	990.2E6	8.293	8.073
11) tc alpha-Chlord	5.198	5.848	379.8E6	988.9E6	8.316	8.266
12) tc 4,4'-DDE	5.322	6.136	300.9E6	842.4E6	7.887	7.626
13) tcm Dieldrin	5.698	6.346	416.0E6	1090.9E6	8.756	8.564
14) tcm Endrin	6.038	6.765	365.1E6	923.8E6	9.002	8.822
15) tc beta-Endosul	6.361	7.043	366.5E6	924.2E6	8.878	8.535
16) tc 4,4'-DDD	6.186	6.952	274.6E6	726.0E6	8.334	8.265
17) tcm 4,4'-DDT	6.579	7.343	299.7E6	731.2E6	8.022	7.698
18) tc Endrin Aldeh	6.932	7.460	320.0E6	779.6E6	9.300	8.996
19) tc Endosulfan S	7.472	7.783	351.9E6	794.1E6	9.309	8.588
20) tc Methoxychlor	7.245	8.126	156.3E6	399.4E6	8.622	7.865
21) tc Endrin Keton	7.790	8.352	416.0E6	946.6E6	9.265	8.558
22) tc Mirex	7.327	8.317	211.9E6	407.6E6	5.788	5.532
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1325.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 09:29 pm
Operator : AFelser
Sample : RQ2303300-07
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:21 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1230.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 11:09 am
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 11:30:08 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	25.696	-2.8	103	0.00
2 tc	alpha-BHC	25.000	26.998	-8.0	103	0.00
3 tcm	gamma-BHC (L	25.000	26.755	-7.0	103	0.00
4 tcm	Heptachlor	25.000	26.421	-5.7	102	0.00
5 tcm	Aldrin	25.000	27.141	-8.6	102	0.00
6 tc	beta-BHC	25.000	25.840	-3.4	103	0.00
7 TC	delta-BHC	25.000	27.168	-8.7	103	0.00
8 tc	Heptachlor E	25.000	26.595	-6.4	102	0.00
9 tc	alpha-Endosu	25.000	27.120	-8.5	103	0.00
10 tc	gamma-Chlord	25.000	26.856	-7.4	102	0.00
11 tc	alpha-Chlord	25.000	26.703	-6.8	102	0.00
12 tc	4,4'-DDE	25.000	27.516	-10.1	101	0.00
13 tcm	Dieldrin	25.000	27.252	-9.0	102	0.00
14 tcm	Endrin	25.000	27.292	-9.2	104	0.00
15 tc	beta-Endosul	25.000	27.052	-8.2	102	0.00
16 tc	4,4'-DDD	25.000	27.218	-8.9	101	0.00
17 tcm	4,4'-DDT	25.000	26.592	-6.4	98	0.00
18 tc	Endrin Aldeh	25.000	25.734	-2.9	97	0.00
19 tc	Endosulfan S	25.000	26.879	-7.5	102	0.00
20 tc	Methoxychlor	25.000	24.569	1.7	96	0.00
21 tc	Endrin Keton	25.000	26.425	-5.7	100	0.00
22 tc	Mirex	25.000	25.278	-1.1	99	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	24.629	1.5	97	0.00

Signal #2

1 S	SURR1,Tetrac	25.000	24.870	0.5	99	0.00
2 tc	alpha-BHC	25.000	25.489	-2.0	99	0.00
3 tcm	gamma-BHC (L	25.000	25.316	-1.3	99	0.00
4 tcm	Heptachlor	25.000	24.807	0.8	98	0.00
5 tcm	Aldrin	25.000	25.677	-2.7	99	0.00
6 tc	beta-BHC	25.000	24.061	3.8	99	0.00
7 tc	delta-BHC	25.000	25.597	-2.4	99	0.00
8 tc	Heptachlor E	25.000	24.972	0.1	99	0.00
9 tc	alpha-Endosu	25.000	25.006	-0.0	99	0.00
10 tc	gamma-Chlord	25.000	24.936	0.3	99	0.00
11 tc	alpha-Chlord	25.000	24.869	0.5	99	0.00
12 tc	4,4'-DDE	25.000	25.293	-1.2	97	0.00
13 tcm	Dieldrin	25.000	25.430	-1.7	99	0.00
14 tcm	Endrin	25.000	25.414	-1.7	101	0.00
15 tc	beta-Endosul	25.000	25.426	-1.7	100	0.00
16 tc	4,4'-DDD	25.000	24.859	0.6	97	0.00
17 tcm	4,4'-DDT	25.000	24.636	1.5	95	0.00
18 tc	Endrin Aldeh	25.000	24.423	2.3	97	0.00

Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1230.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 11:09 am
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 11:30:08 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 tc Endosulfan S	25.000	24.961	0.2	100	0.00
20 tc Methoxychlor	25.000	22.564	9.7	94	0.00
21 tc Endrin Keton	25.000	24.194	3.2	96	0.00
22 tc Mirex	25.000	23.240	7.0	95	0.00
23 S SURR2,Decachlorobiphenyl	25.000	22.773	8.9	93	0.00

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-5.84#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.19#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-6.53#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.07#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.35#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.80#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.34#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.81#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.04#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.19#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.77#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.20#

Signal #2

24 L8C Toxaphene	500.000	0.000	100.0#	0	-6.35#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.50#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-7.16#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.39#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.58#
29 L9C Chlordane	100.000	0.000	100.0#	0	-4.07#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.80#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-5.63#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.78#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.85#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-12.99#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-13.57#

(#) = Out of Range

SPCC's out = 0 CCC's out = 24

Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1230.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 11:09 am
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 11:30:08 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

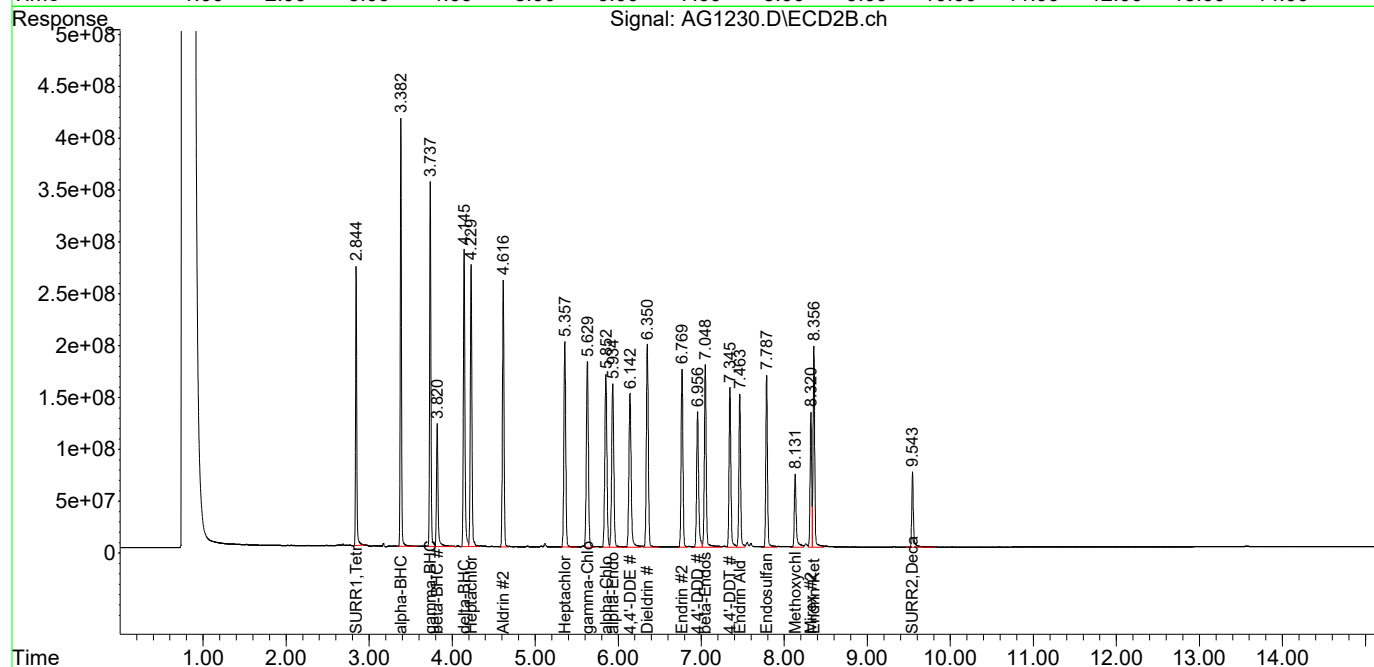
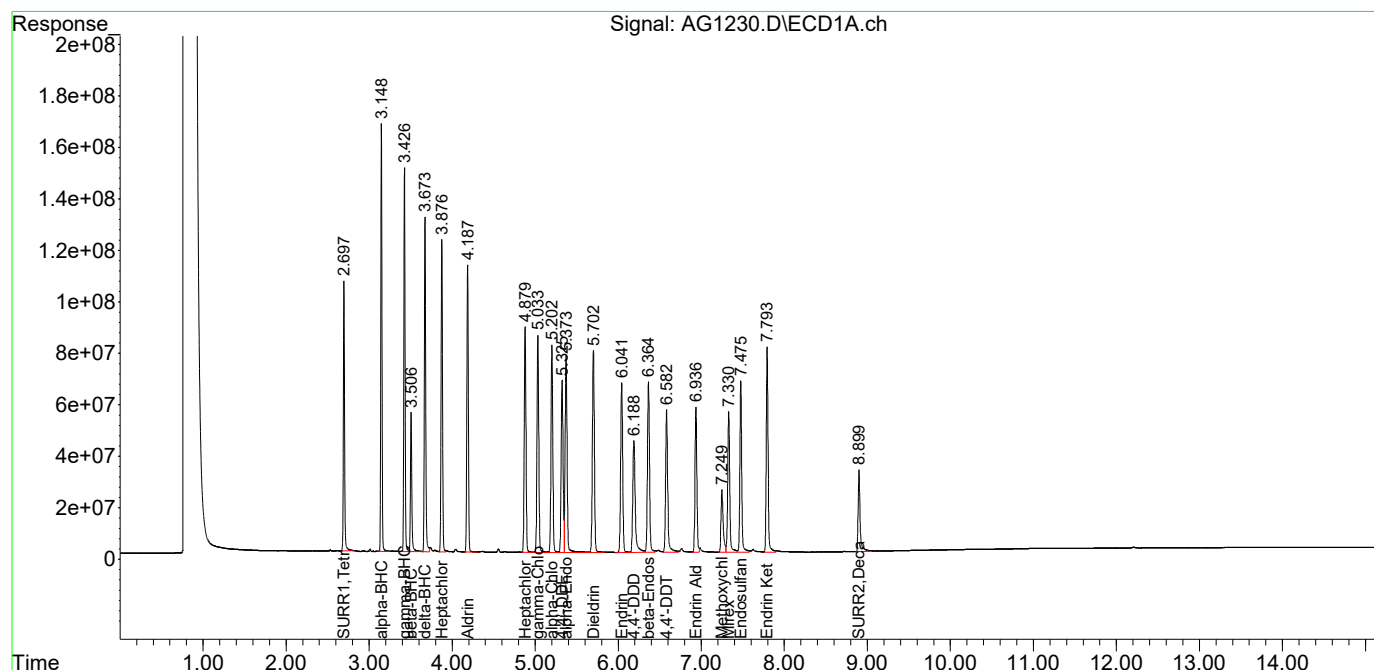
System Monitoring Compounds						
1) S SURR1,Tet...	2.697	2.844	1029.1E6	2614.2E6	25.696	24.870
Spiked Amount	100.000 Range	30 - 150	Recovery	=	25.70%#	24.87%#
23) S SURR2,Dec...	8.899	9.544	526.4E6	1025.6E6	24.629	22.773
Spiked Amount	100.000 Range	30 - 150	Recovery	=	24.63%#	22.77%#
Target Compounds						
2) tc alpha-BHC	3.148	3.383	1638.5E6	4132.5E6	26.998	25.489
3) tcm gamma-BHC (L	3.426	3.737	1531.6E6	3830.4E6	26.755	25.316
4) tcm Heptachlor	3.876	4.229	1442.2E6	3648.8E6	26.421	24.807
5) tcm Aldrin	4.187	4.616	1401.4E6	3461.3E6	27.141	25.677
6) tc beta-BHC	3.506	3.821	624.4E6	1591.5E6	25.840	24.061
7) tc delta-BHC	3.674	4.145	1495.5E6	3765.6E6	27.168	25.597
8) tc Heptachlor E	4.879	5.357	1259.7E6	3086.9E6	26.595	24.972
9) tc alpha-Endosu	5.373	5.935	1270.9E6	2893.5E6	27.120	25.006
10) tc gamma-Chlord	5.033	5.630	1251.4E6	3058.4E6	26.856	24.936
11) tc alpha-Chlord	5.202	5.852	1219.8E6	2975.1E6	26.703	24.869
12) tc 4,4'-DDE	5.325	6.143	1049.9E6	2793.9E6	27.516	25.293
13) tcm Dieldrin	5.702	6.351	1294.8E6	3239.3E6	27.252	25.430
14) tcm Endrin	6.042	6.769	1106.8E6	2661.2E6	27.292	25.414
15) tc beta-Endosul	6.365	7.049	1116.6E6	2753.3E6	27.052	25.426
16) tc 4,4'-DDD	6.189	6.956	896.7E6	2183.7E6	27.218	24.859
17) tcm 4,4'-DDT	6.583	7.345	993.4E6	2339.9E6	26.592	24.636
18) tc Endrin Aldeh	6.936	7.464	885.5E6	2116.6E6	25.734	24.423
19) tc Endosulfan S	7.476	7.787	1016.3E6	2308.0E6	26.879	24.961
20) tc Methoxychlor	7.249	8.131	445.5E6	1145.8E6	24.569	22.564
21) tc Endrin Keton	7.794	8.356	1186.5E6	2676.3E6	26.425	24.194
22) tc Mirex	7.331	8.320	925.3E6	1712.4E6	25.278	23.240
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033023\
Data File : AG1230.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Mar 2023 11:09 am
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 30 11:30:08 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1241.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 02:39 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 14:58:06 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	25.775	-3.1	103	0.00
2 tc	alpha-BHC	25.000	26.966	-7.9	103	0.00
3 tcm	gamma-BHC (L	25.000	26.703	-6.8	102	0.00
4 tcm	Heptachlor	25.000	25.718	-2.9	100	0.00
5 tcm	Aldrin	25.000	27.204	-8.8	103	0.00
6 tc	beta-BHC	25.000	25.801	-3.2	103	0.00
7 TC	delta-BHC	25.000	27.194	-8.8	103	0.00
8 tc	Heptachlor E	25.000	26.376	-5.5	101	0.00
9 tc	alpha-Endosu	25.000	27.305	-9.2	103	0.00
10 tc	gamma-Chlord	25.000	26.833	-7.3	102	0.00
11 tc	alpha-Chlord	25.000	26.661	-6.6	102	0.00
12 tc	4,4'-DDE	25.000	27.205	-8.8	100	0.00
13 tcm	Dieldrin	25.000	27.418	-9.7	102	0.00
14 tcm	Endrin	25.000	24.871	0.5	95	0.00
15 tc	beta-Endosul	25.000	27.066	-8.3	102	0.00
16 tc	4,4'-DDD	25.000	27.014	-8.1	100	0.00
17 tcm	4,4'-DDT	25.000	24.780	0.9	92	0.00
18 tc	Endrin Aldeh	25.000	27.876	-11.5	106	0.00
19 tc	Endosulfan S	25.000	26.365	-5.5	100	0.00
20 tc	Methoxychlor	25.000	22.256	11.0	87	0.00
21 tc	Endrin Keton	25.000	26.175	-4.7	99	0.00
22 tc	Mirex	25.000	25.148	-0.6	99	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	24.886	0.5	98	0.00

Signal #2

1 S	SURR1,Tetrac	25.000	25.242	-1.0	100	0.00
2 tc	alpha-BHC	25.000	25.856	-3.4	100	0.00
3 tcm	gamma-BHC (L	25.000	25.664	-2.7	100	0.00
4 tcm	Heptachlor	25.000	24.813	0.7	98	0.00
5 tcm	Aldrin	25.000	26.184	-4.7	101	0.00
6 tc	beta-BHC	25.000	24.536	1.9	101	0.00
7 tc	delta-BHC	25.000	25.852	-3.4	100	0.00
8 tc	Heptachlor E	25.000	25.160	-0.6	100	0.00
9 tc	alpha-Endosu	25.000	25.559	-2.2	101	0.00
10 tc	gamma-Chlord	25.000	25.329	-1.3	101	0.00
11 tc	alpha-Chlord	25.000	25.316	-1.3	100	0.00
12 tc	4,4'-DDE	25.000	25.782	-3.1	99	0.00
13 tcm	Dieldrin	25.000	25.968	-3.9	101	0.00
14 tcm	Endrin	25.000	23.467	6.1	93	0.00
15 tc	beta-Endosul	25.000	25.845	-3.4	102	0.00
16 tc	4,4'-DDD	25.000	25.107	-0.4	98	0.00
17 tcm	4,4'-DDT	25.000	23.503	6.0	91	0.00
18 tc	Endrin Aldeh	25.000	26.122	-4.5	104	0.00

Data Path : I:\ACQUDATA\7890N.net\data\033023\
Data File : AG1241.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Mar 2023 02:39 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 30 14:58:06 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 tc Endosulfan S	25.000	24.960	0.2	100	0.00
20 tc Methoxychlor	25.000	21.489	14.0	89	0.00
21 tc Endrin Keton	25.000	24.936	0.3	99	0.00
22 tc Mirex	25.000	23.893	4.4	98	0.00
23 S SURR2,Decachlorobiphenyl	25.000	23.070	7.7	95	0.00

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-5.84#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.19#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-6.53#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.07#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.35#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.80#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.34#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.81#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.04#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.19#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.77#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.20#

Signal #2

24 L8C Toxaphene	500.000	0.000	100.0#	0	-6.35#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.50#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-7.16#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.39#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.58#
29 L9C Chlordane	100.000	0.000	100.0#	0	-4.07#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.80#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-5.63#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.78#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.85#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-12.99#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-13.57#

(#) = Out of Range

SPCC's out = 0 CCC's out = 24

Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1241.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 02:39 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 14:58:06 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

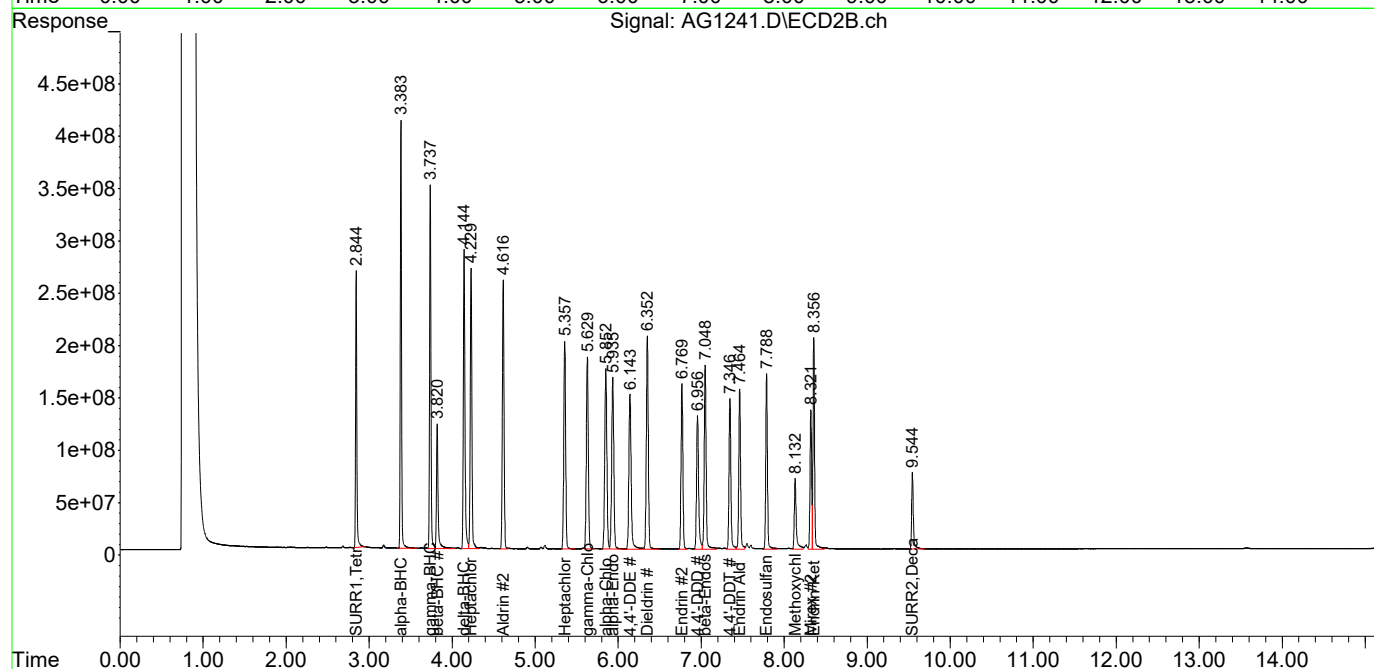
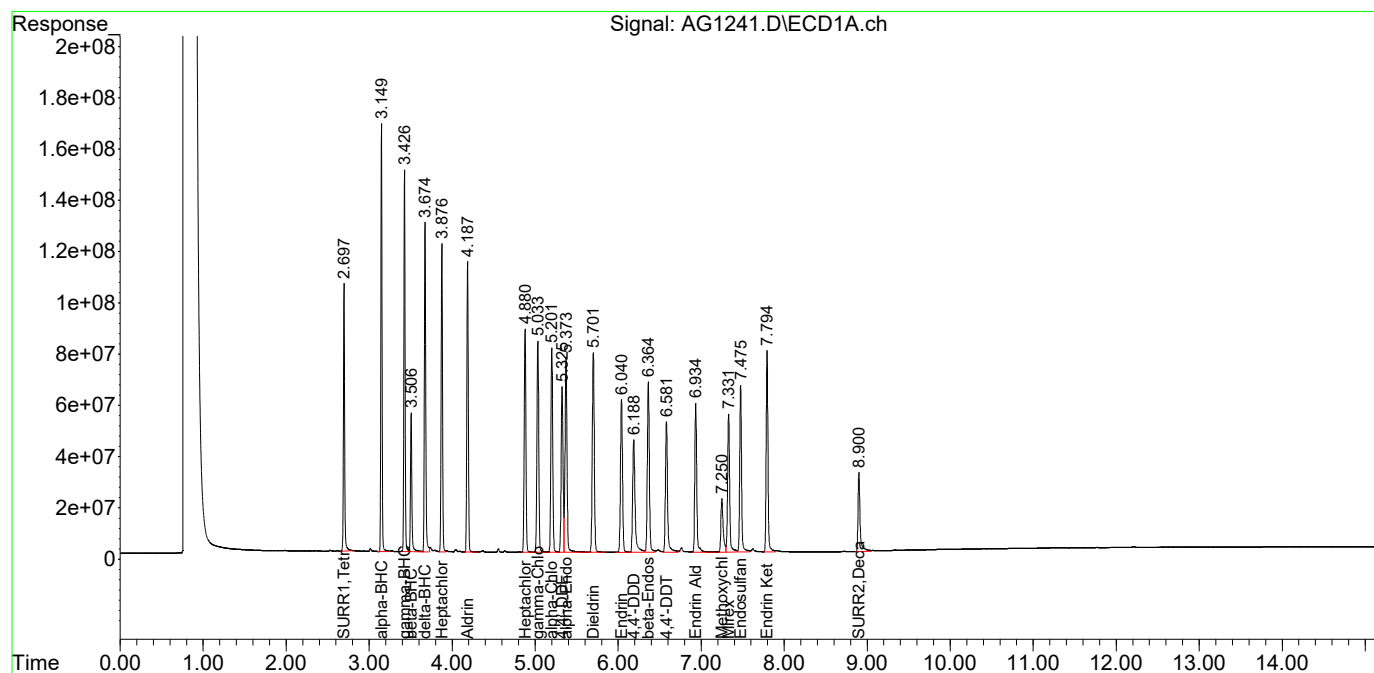
System Monitoring Compounds						
1) S SURR1,Tet...	2.698	2.844	1032.2E6	2653.3E6	25.775	25.242
Spiked Amount	100.000 Range	30 - 150	Recovery	=	25.77%#	25.24%#
23) S SURR2,Dec...	8.900	9.545	531.9E6	1039.0E6	24.886	23.070
Spiked Amount	100.000 Range	30 - 150	Recovery	=	24.89%#	23.07%#
Target Compounds						
2) tc alpha-BHC	3.149	3.384	1636.5E6	4192.0E6	26.966	25.856
3) tcm gamma-BHC (L	3.427	3.737	1528.5E6	3883.1E6	26.703	25.664
4) tcm Heptachlor	3.877	4.229	1403.8E6	3649.7E6	25.718	24.813
5) tcm Aldrin	4.187	4.616	1404.6E6	3529.6E6	27.204	26.184
6) tc beta-BHC	3.507	3.821	623.4E6	1622.9E6	25.801	24.536
7) tc delta-BHC	3.674	4.145	1496.9E6	3803.2E6	27.194	25.852
8) tc Heptachlor E	4.880	5.357	1249.3E6	3110.1E6	26.376	25.160
9) tc alpha-Endosu	5.373	5.935	1279.6E6	2957.5E6	27.305	25.559
10) tc gamma-Chlord	5.033	5.630	1250.3E6	3106.6E6	26.833	25.329
11) tc alpha-Chlord	5.201	5.852	1217.8E6	3028.5E6	26.661	25.316
12) tc 4,4'-DDE	5.325	6.143	1038.0E6	2847.9E6	27.205	25.782
13) tcm Dieldrin	5.701	6.352	1302.7E6	3307.8E6	27.418	25.968
14) tcm Endrin	6.041	6.769	1008.6E6	2457.2E6	24.871	23.467
15) tc beta-Endosul	6.364	7.048	1117.2E6	2798.7E6	27.066	25.845
16) tc 4,4'-DDD	6.189	6.957	889.9E6	2205.5E6	27.014	25.107
17) tcm 4,4'-DDT	6.582	7.347	925.8E6	2232.2E6	24.780	23.503
18) tc Endrin Aldeh	6.935	7.464	959.2E6	2263.9E6	27.876	26.122
19) tc Endosulfan S	7.476	7.788	996.8E6	2308.0E6	26.365	24.960
20) tc Methoxychlor	7.250	8.132	403.5E6	1091.2E6	22.256	21.489
21) tc Endrin Keton	7.794	8.356	1175.3E6	2758.3E6	26.175	24.936
22) tc Mirex	7.331	8.321	920.6E6	1760.5E6	25.148	23.893
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033023\
Data File : AG1241.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Mar 2023 02:39 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 30 14:58:06 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1246.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 04:14 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 16:30:27 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	25.204	-0.8	101	0.00
2 tc	alpha-BHC	25.000	26.437	-5.7	101	0.00
3 tcm	gamma-BHC (L	25.000	26.212	-4.8	100	0.00
4 tcm	Heptachlor	25.000	25.009	-0.0	97	0.00
5 tcm	Aldrin	25.000	26.844	-7.4	101	0.00
6 tc	beta-BHC	25.000	25.543	-2.2	102	0.00
7 TC	delta-BHC	25.000	26.499	-6.0	100	0.00
8 tc	Heptachlor E	25.000	25.819	-3.3	99	0.00
9 tc	alpha-Endosu	25.000	27.356	-9.4	104	0.00
10 tc	gamma-Chlord	25.000	26.455	-5.8	101	0.00
11 tc	alpha-Chlord	25.000	26.146	-4.6	100	0.00
12 tc	4,4'-DDE	25.000	26.242	-5.0	96	0.00
13 tcm	Dieldrin	25.000	27.249	-9.0	102	0.00
14 tcm	Endrin	25.000	22.282	10.9	85	0.00
15 tc	beta-Endosul	25.000	27.044	-8.2	102	0.00
16 tc	4,4'-DDD	25.000	26.811	-7.2	100	0.00
17 tcm	4,4'-DDT	25.000	24.991	0.0	92	0.00
18 tc	Endrin Aldeh	25.000	29.619	-18.5	112	0.00
19 tc	Endosulfan S	25.000	26.685	-6.7	101	0.00
20 tc	Methoxychlor	25.000	22.351	10.6	87	0.00
21 tc	Endrin Keton	25.000	27.123	-8.5	103	0.00
22 tc	Mirex	25.000	25.936	-3.7	102	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	26.639	-6.6	105	0.00

Signal #2

1 S	SURR1,Tetrac	25.000	25.059	-0.2	100	0.00
2 tc	alpha-BHC	25.000	25.514	-2.1	99	0.00
3 tcm	gamma-BHC (L	25.000	25.308	-1.2	99	0.00
4 tcm	Heptachlor	25.000	24.245	3.0	96	0.00
5 tcm	Aldrin	25.000	26.065	-4.3	101	0.00
6 tc	beta-BHC	25.000	24.353	2.6	101	0.00
7 tc	delta-BHC	25.000	25.218	-0.9	98	0.00
8 tc	Heptachlor E	25.000	24.925	0.3	99	0.00
9 tc	alpha-Endosu	25.000	25.494	-2.0	101	0.00
10 tc	gamma-Chlord	25.000	25.403	-1.6	101	0.00
11 tc	alpha-Chlord	25.000	25.200	-0.8	100	0.00
12 tc	4,4'-DDE	25.000	25.673	-2.7	99	0.00
13 tcm	Dieldrin	25.000	26.178	-4.7	102	0.00
14 tcm	Endrin	25.000	21.495	14.0	85	0.00
15 tc	beta-Endosul	25.000	26.775	-7.1	106	0.00
16 tc	4,4'-DDD	25.000	25.027	-0.1	97	0.00
17 tcm	4,4'-DDT	25.000	24.228	3.1	94	0.00
18 tc	Endrin Aldeh	25.000	28.401	-13.6	113	0.00

Data Path : I:\ACQUDATA\7890N.net\data\033023\
Data File : AG1246.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Mar 2023 04:14 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 30 16:30:27 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 tc Endosulfan S	25.000	26.084	-4.3	104	0.00
20 tc Methoxychlor	25.000	22.525	9.9	94	0.00
21 tc Endrin Keton	25.000	26.707	-6.8	106	0.00
22 tc Mirex	25.000	25.386	-1.5	104	0.00
23 S SURR2,Decachlorobiphenyl	25.000	25.663	-2.7	105	0.00

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-5.84#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.19#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-6.53#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.07#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.35#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.80#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.34#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.81#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.04#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.19#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.77#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.20#

Signal #2

24 L8C Toxaphene	500.000	0.000	100.0#	0	-6.35#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.50#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-7.16#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.39#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.58#
29 L9C Chlordane	100.000	0.000	100.0#	0	-4.07#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.80#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-5.63#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.78#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.85#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-12.99#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-13.57#

(#) = Out of Range

SPCC's out = 0 CCC's out = 24

Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1246.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 04:14 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 16:30:27 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

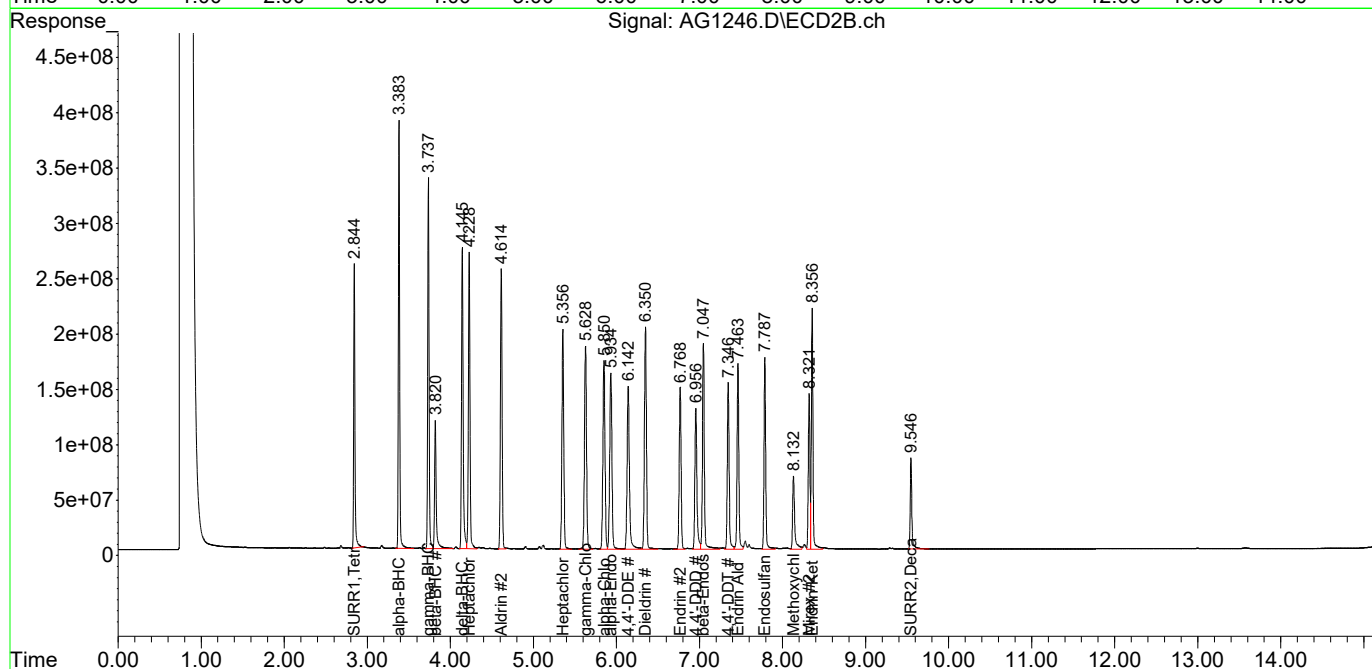
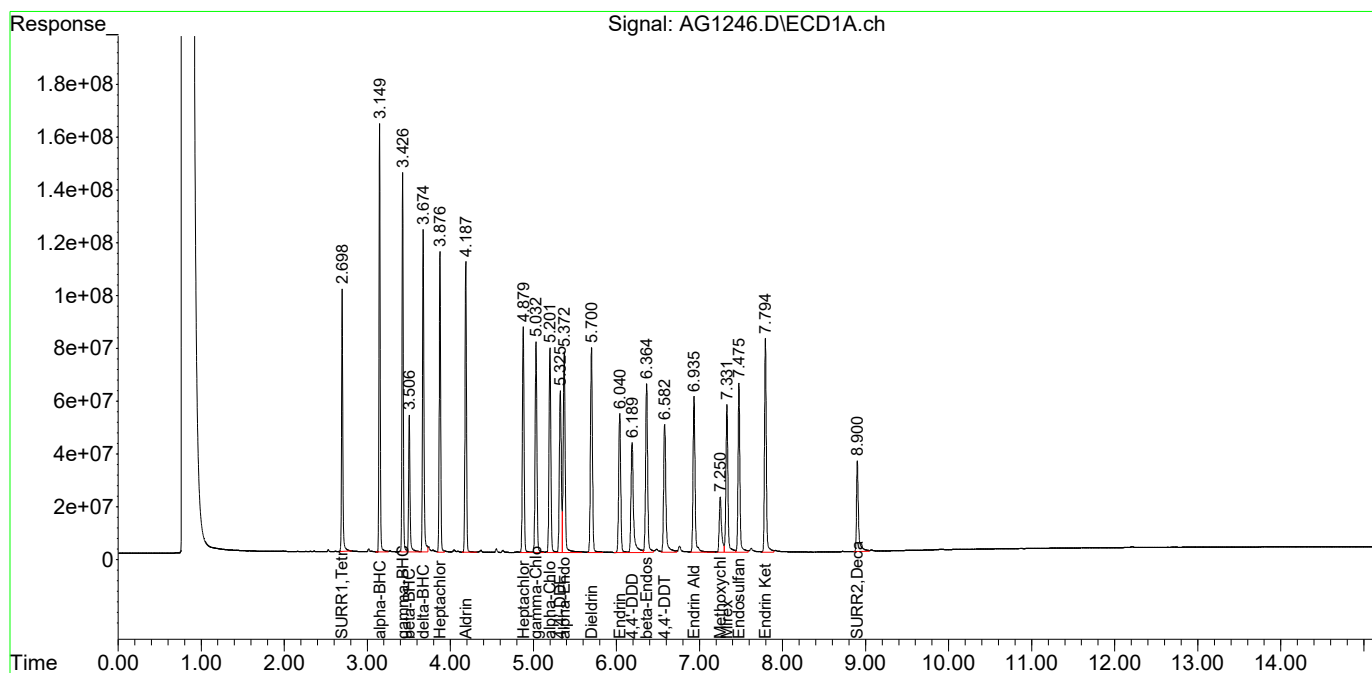
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.698	2.844	1009.3E6	2634.0E6	25.204	25.059
Spiked Amount	100.000 Range	30 - 150	Recovery	=	25.20%#	25.06%#
23) S SURR2,Dec...	8.901	9.546	569.4E6	1155.7E6	26.639	25.663
Spiked Amount	100.000 Range	30 - 150	Recovery	=	26.64%#	25.66%#
Target Compounds						
2) tc alpha-BHC	3.149	3.383	1604.5E6	4136.5E6	26.437	25.514
3) tcm gamma-BHC (L	3.427	3.737	1500.4E6	3829.1E6	26.212	25.308
4) tcm Heptachlor	3.876	4.229	1365.2E6	3566.1E6	25.009	24.245
5) tcm Aldrin	4.187	4.615	1386.0E6	3513.5E6	26.844	26.065
6) tc beta-BHC	3.507	3.820	617.2E6	1610.8E6	25.543	24.353
7) tc delta-BHC	3.674	4.145	1458.6E6	3709.8E6	26.499	25.218
8) tc Heptachlor E	4.879	5.356	1222.9E6	3081.1E6	25.819	24.925
9) tc alpha-Endosu	5.373	5.934	1281.9E6	2950.0E6	27.356	25.494
10) tc gamma-Chlord	5.033	5.628	1232.7E6	3115.7E6	26.455	25.403
11) tc alpha-Chlord	5.201	5.851	1194.3E6	3014.7E6	26.146	25.200
12) tc 4,4'-DDE	5.325	6.142	1001.3E6	2836.0E6	26.242	25.673
13) tcm Dieldrin	5.700	6.351	1294.6E6	3334.5E6	27.249	26.178
14) tcm Endrin	6.041	6.768	903.6E6	2250.8E6	22.282	21.495
15) tc beta-Endosul	6.364	7.047	1116.3E6	2899.4E6	27.044	26.775
16) tc 4,4'-DDD	6.189	6.957	883.3E6	2198.5E6	26.811	25.027
17) tcm 4,4'-DDT	6.582	7.346	933.6E6	2301.1E6	24.991	24.228
18) tc Endrin Aldeh	6.935	7.464	1019.1E6	2461.4E6	29.619	28.401
19) tc Endosulfan S	7.475	7.788	1008.9E6	2411.9E6	26.685	26.084
20) tc Methoxychlor	7.250	8.132	405.3E6	1143.8E6	22.351	22.525
21) tc Endrin Keton	7.794	8.357	1217.8E6	2954.3E6	27.123	26.707
22) tc Mirex	7.331	8.321	949.4E6	1870.5E6	25.936	25.386
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033023\
Data File : AG1246.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Mar 2023 04:14 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 30 16:30:27 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1319.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 07:34 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:03 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	27.887	-11.5	111	0.00
2 tc	alpha-BHC	25.000	29.573	-18.3	112	0.00
3 tcm	gamma-BHC (L	25.000	29.275	-17.1	112	0.00
4 tcm	Heptachlor	25.000	28.589	-14.4	111	0.00
5 tcm	Aldrin	25.000	29.531	-18.1	111	0.00
6 tc	beta-BHC	25.000	28.208	-12.8	112	0.00
7 TC	delta-BHC	25.000	29.555	-18.2	112	0.00
8 tc	Heptachlor E	25.000	29.076	-16.3	112	0.00
9 tc	alpha-Endosu	25.000	29.371	-17.5	111	0.00
10 tc	gamma-Chlord	25.000	29.428	-17.7	112	0.00
11 tc	alpha-Chlord	25.000	29.153	-16.6	111	0.00
12 tc	4,4'-DDE	25.000	30.690	-22.8#	113	0.00
13 tcm	Dieldrin	25.000	29.981	-19.9	112	0.00
14 tcm	Endrin	25.000	28.390	-13.6	108	0.00
15 tc	beta-Endosul	25.000	29.381	-17.5	111	0.00
16 tc	4,4'-DDD	25.000	30.640	-22.6#	114	0.00
17 tcm	4,4'-DDT	25.000	28.811	-15.2	106	0.00
18 tc	Endrin Aldeh	25.000	28.961	-15.8	110	0.00
19 tc	Endosulfan S	25.000	29.014	-16.1	110	0.00
20 tc	Methoxychlor	25.000	26.406	-5.6	103	0.00
21 tc	Endrin Keton	25.000	28.515	-14.1	108	0.00
22 tc	Mirex	25.000	27.407	-9.6	108	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	26.056	-4.2	103	0.00

Signal #2

1 S	SURR1,Tetrac	25.000	27.705	-10.8	110	0.00
2 tc	alpha-BHC	25.000	28.503	-14.0	111	0.00
3 tcm	gamma-BHC (L	25.000	28.270	-13.1	110	0.00
4 tcm	Heptachlor	25.000	27.476	-9.9	109	0.00
5 tcm	Aldrin	25.000	28.583	-14.3	111	0.00
6 tc	beta-BHC	25.000	27.022	-8.1	112	0.00
7 tc	delta-BHC	25.000	28.518	-14.1	111	0.00
8 tc	Heptachlor E	25.000	27.678	-10.7	110	0.00
9 tc	alpha-Endosu	25.000	27.925	-11.7	111	0.00
10 tc	gamma-Chlord	25.000	27.765	-11.1	110	0.00
11 tc	alpha-Chlord	25.000	27.732	-10.9	110	0.00
12 tc	4,4'-DDE	25.000	28.284	-13.1	109	0.00
13 tcm	Dieldrin	25.000	28.326	-13.3	110	0.00
14 tcm	Endrin	25.000	26.619	-6.5	106	0.00
15 tc	beta-Endosul	25.000	27.481	-9.9	108	0.00
16 tc	4,4'-DDD	25.000	28.054	-12.2	109	0.00
17 tcm	4,4'-DDT	25.000	26.546	-6.2	103	0.00
18 tc	Endrin Aldeh	25.000	27.637	-10.5	110	0.00

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1319.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 07:34 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:03 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 tc Endosulfan S	25.000	26.904	-7.6	108	0.00
20 tc Methoxychlor	25.000	23.686	5.3	99	0.00
21 tc Endrin Keton	25.000	26.043	-4.2	103	0.00
22 tc Mirex	25.000	25.047	-0.2	103	0.00
23 S SURR2,Decachlorobiphenyl	25.000	23.531	5.9	96	0.00

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-5.84#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.19#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-6.53#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.07#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.35#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.80#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.34#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.81#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.04#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.19#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.77#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.20#

Signal #2

24 L8C Toxaphene	500.000	0.000	100.0#	0	-6.35#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.50#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-7.16#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.39#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.58#
29 L9C Chlordane	100.000	0.000	100.0#	0	-4.07#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.80#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-5.63#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.78#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.85#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-12.99#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-13.57#

(#) = Out of Range

SPCC's out = 0 CCC's out = 26

Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1319.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 07:34 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:03 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

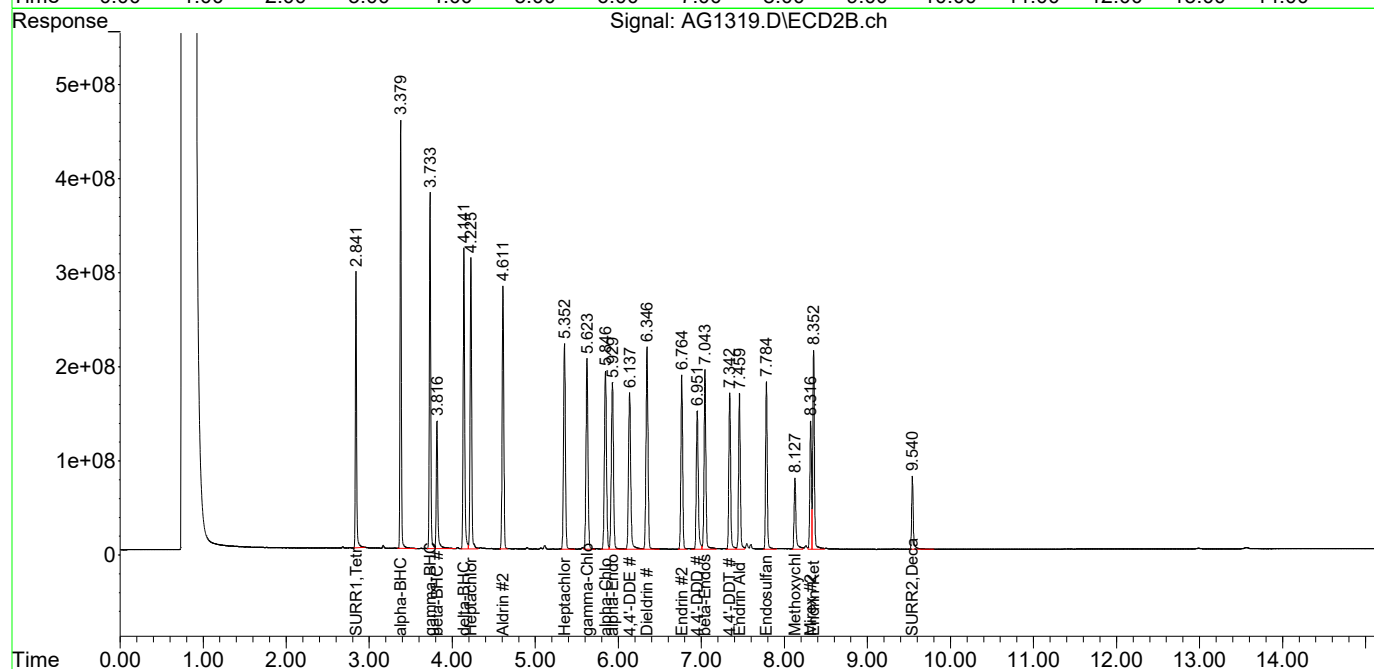
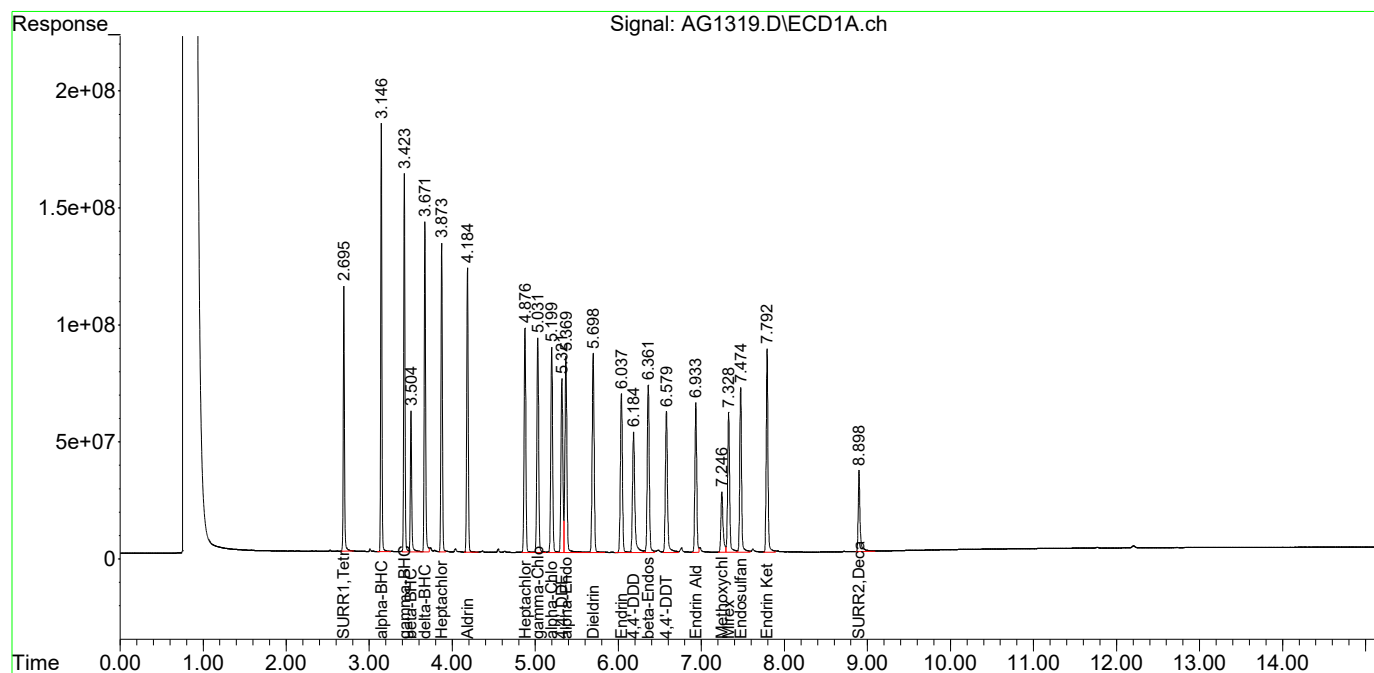
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.695	2.841	1116.8E6	2912.1E6	27.887	27.705
Spiked Amount	100.000 Range	30 - 150	Recovery =		27.89%#	27.70%#
23) S SURR2,Dec...	8.899	9.541	556.9E6	1059.7E6	26.056	23.531
Spiked Amount	100.000 Range	30 - 150	Recovery =		26.06%#	23.53%#
Target Compounds						
2) tc alpha-BHC	3.147	3.380	1794.7E6	4621.1E6	29.573	28.503
3) tcm gamma-BHC (L	3.424	3.733	1675.8E6	4277.3E6	29.275	28.270
4) tcm Heptachlor	3.874	4.226	1560.6E6	4041.4E6	28.589	27.476
5) tcm Aldrin	4.184	4.612	1524.8E6	3853.1E6	29.531	28.583
6) tc beta-BHC	3.504	3.817	681.6E6	1787.3E6	28.208	27.022
7) tc delta-BHC	3.671	4.141	1626.8E6	4195.4E6	29.555	28.518
8) tc Heptachlor E	4.877	5.353	1377.2E6	3421.3E6	29.076	27.678
9) tc alpha-Endosu	5.370	5.930	1376.3E6	3231.3E6	29.371	27.925
10) tc gamma-Chlord	5.031	5.624	1371.2E6	3405.3E6	29.428	27.765
11) tc alpha-Chlord	5.199	5.846	1331.7E6	3317.6E6	29.153	27.732
12) tc 4,4'-DDE	5.322	6.137	1171.0E6	3124.4E6	30.690	28.284
13) tcm Dieldrin	5.698	6.347	1424.5E6	3608.2E6	29.981	28.326
14) tcm Endrin	6.038	6.764	1151.3E6	2787.3E6	28.390	26.619
15) tc beta-Endosul	6.361	7.044	1212.8E6	2975.8E6	29.381	27.481
16) tc 4,4'-DDD	6.185	6.951	1009.4E6	2464.3E6	30.640	28.054
17) tcm 4,4'-DDT	6.580	7.342	1076.3E6	2521.2E6	28.811	26.546
18) tc Endrin Aldeh	6.934	7.460	996.5E6	2395.2E6	28.961	27.637
19) tc Endosulfan S	7.474	7.784	1097.0E6	2487.7E6	29.014	26.904
20) tc Methoxychlor	7.247	8.128	478.8E6	1202.8E6	26.406	23.686
21) tc Endrin Keton	7.793	8.352	1280.3E6	2880.7E6	28.515	26.043
22) tc Mirex	7.329	8.317	1003.2E6	1845.6E6	27.407	25.047
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1319.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 07:34 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:03 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1330.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 11:05 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:36 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	27.539	-10.2	110	0.00
2 tc	alpha-BHC	25.000	29.175	-16.7	111	0.00
3 tcm	gamma-BHC (L	25.000	28.934	-15.7	111	0.00
4 tcm	Heptachlor	25.000	28.027	-12.1	108	0.00
5 tcm	Aldrin	25.000	29.641	-18.6	112	0.00
6 tc	beta-BHC	25.000	28.133	-12.5	112	0.00
7 TC	delta-BHC	25.000	29.223	-16.9	110	0.00
8 tc	Heptachlor E	25.000	28.797	-15.2	111	0.00
9 tc	alpha-Endosu	25.000	30.240	-21.0#	114	0.00
10 tc	gamma-Chlord	25.000	29.248	-17.0	111	0.00
11 tc	alpha-Chlord	25.000	28.973	-15.9	110	0.00
12 tc	4,4'-DDE	25.000	29.015	-16.1	106	0.00
13 tcm	Dieldrin	25.000	29.875	-19.5	111	0.00
14 tcm	Endrin	25.000	25.362	-1.4	97	0.00
15 tc	beta-Endosul	25.000	29.579	-18.3	112	0.00
16 tc	4,4'-DDD	25.000	29.383	-17.5	109	0.00
17 tcm	4,4'-DDT	25.000	27.490	-10.0	102	0.00
18 tc	Endrin Aldeh	25.000	30.317	-21.3#	115	0.00
19 tc	Endosulfan S	25.000	29.020	-16.1	110	0.00
20 tc	Methoxychlor	25.000	22.902	8.4	89	0.00
21 tc	Endrin Keton	25.000	28.953	-15.8	110	0.00
22 tc	Mirex	25.000	27.989	-12.0	110	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	27.803	-11.2	110	0.00

Signal #2

37 S	SURR1,Tetrac #2	25.000	27.508	-10.0	109	0.00
38 tc	alpha-BHC #2	25.000	28.375	-13.5	110	0.00
39 tcm	gamma-BHC (L #2	25.000	28.073	-12.3	110	0.00
40 tcm	Heptachlor #2	25.000	27.541	-10.2	109	0.00
41 tcm	Aldrin #2	25.000	28.806	-15.2	111	0.00
42 tc	beta-BHC #2	25.000	26.990	-8.0	111	0.00
43 tc	delta-BHC #2	25.000	27.994	-12.0	109	0.00
44 tc	Heptachlor E #2	25.000	27.777	-11.1	110	0.00
45 tc	alpha-Endosu #2	25.000	28.129	-12.5	111	0.00
46 tc	gamma-Chlord #2	25.000	28.015	-12.1	111	0.00
47 tc	alpha-Chlord #2	25.000	27.847	-11.4	111	0.00
48 tc	4,4'-DDE #2	25.000	28.255	-13.0	109	0.00
49 tcm	Dieldrin #2	25.000	28.734	-14.9	112	0.00
50 tcm	Endrin #2	25.000	24.286	2.9	96	0.00
51 tc	beta-Endosul #2	25.000	28.612	-14.4	113	0.00
52 tc	4,4'-DDD #2	25.000	27.514	-10.1	107	0.00
53 tcm	4,4'-DDT #2	25.000	26.162	-4.6	101	0.00
54 tc	Endrin Aldeh #2	25.000	30.073	-20.3	120	0.00

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1330.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 11:05 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:32:36 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
55 tc Endosulfan S #2	25.000	28.019	-12.1	112	0.00
56 tc Methoxychlor #2	25.000	23.274	6.9	97	0.00
57 tc Endrin Keton #2	25.000	27.727	-10.9	110	0.00
58 tc Mirex #2	25.000	26.223	-4.9	108	0.00
59 S SURR2,Decachlorobiphenyl #2	25.000	25.613	-2.5	105	0.00

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-5.84#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.19#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-6.53#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.07#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.35#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.80#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.34#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.81#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.04#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.19#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.77#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.20#

Signal #2

60 L8C Toxaphene #2	500.000	0.000	100.0#	0	-6.35#
61 L8C Toxaphene{2} #2	500.000	0.000	100.0#	0	-6.50#
62 L8C Toxaphene{3} #2	500.000	0.000	100.0#	0	-7.16#
63 L8C Toxaphene{4} #2	500.000	0.000	100.0#	0	-7.39#
64 L8C Toxaphene{5} #2	500.000	0.000	100.0#	0	-7.58#
65 L9C Chlordane #2	100.000	0.000	100.0#	0	-4.07#
66 L9C Chlordane{2} #2	100.000	0.000	100.0#	0	-4.80#
67 L9C Chlordane{3} #2	100.000	0.000	100.0#	0	-5.63#
68 L9C Chlordane{4} #2	100.000	0.000	100.0#	0	-5.78#
69 L9C Chlordane{5} #2	100.000	0.000	100.0#	0	-5.85#
70 L10CDechlorane{1} #2	50.000	0.000	100.0#	0	-12.99#
71 L10CDechlorane{2} #2	50.000	0.000	100.0#	0	-13.57#

(#) = Out of Range

SPCC's out = 0 CCC's out = 26

Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1330.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 11:05 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:36 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

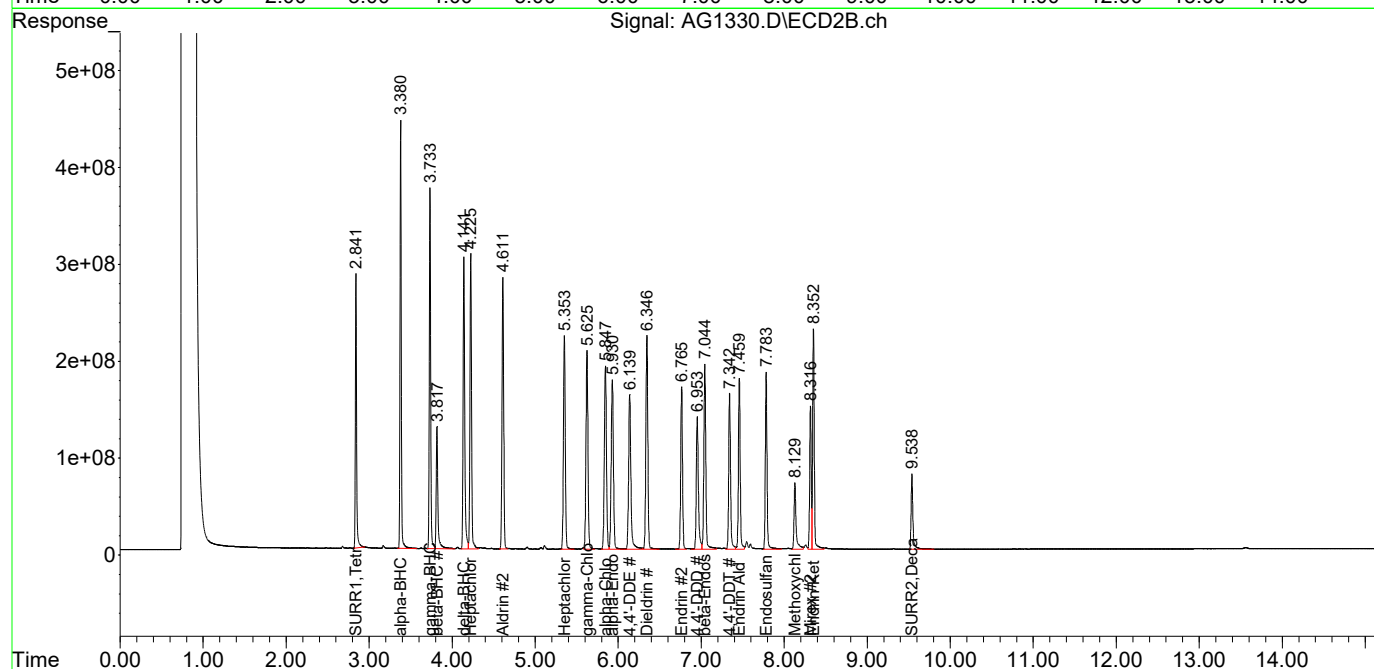
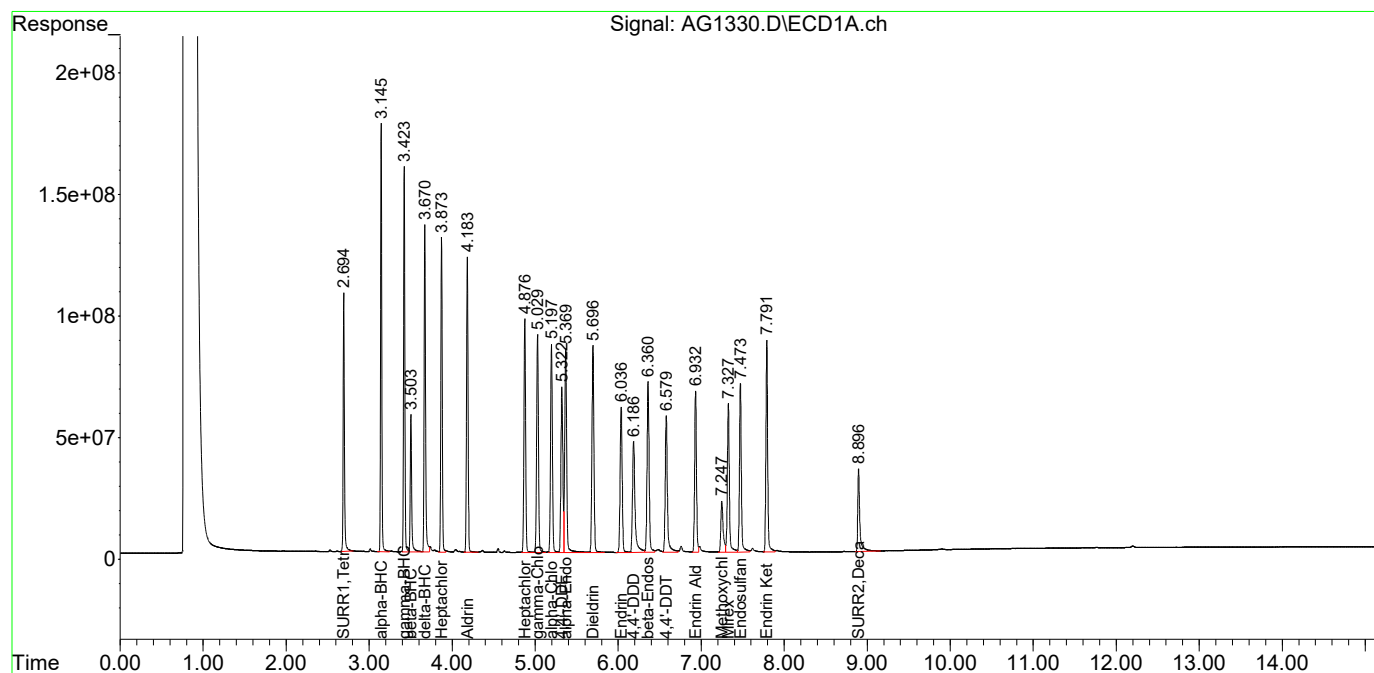
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.694	2.841	1102.8E6	2891.4E6	27.539	27.508
Spiked Amount	100.000 Range	30 - 150	Recovery	=	27.54%#	27.51%#
23) S SURR2,Dec...	8.896	9.539	594.3E6	1153.5E6	27.803	25.613
Spiked Amount	100.000 Range	30 - 150	Recovery	=	27.80%#	25.61%#
Target Compounds						
2) tc alpha-BHC	3.146	3.380	1770.6E6	4600.3E6	29.175	28.375
3) tcm gamma-BHC (L	3.423	3.734	1656.3E6	4247.5E6	28.934	28.073
4) tcm Heptachlor	3.873	4.225	1529.9E6	4050.9E6	28.027	27.541
5) tcm Aldrin	4.184	4.612	1530.5E6	3883.0E6	29.641	28.806
6) tc beta-BHC	3.504	3.818	679.8E6	1785.3E6	28.133	26.990
7) tc delta-BHC	3.671	4.142	1608.6E6	4118.3E6	29.223	27.994
8) tc Heptachlor E	4.876	5.353	1364.0E6	3433.5E6	28.797	27.777
9) tc alpha-Endosu	5.369	5.930	1417.1E6	3254.9E6	30.240	28.129
10) tc gamma-Chlord	5.030	5.625	1362.9E6	3435.9E6	29.248	28.015
11) tc alpha-Chlord	5.198	5.847	1323.4E6	3331.3E6	28.973	27.847
12) tc 4,4'-DDE	5.322	6.139	1107.1E6	3121.2E6	29.015	28.255
13) tcm Dieldrin	5.697	6.347	1419.4E6	3660.1E6	29.875	28.734
14) tcm Endrin	6.037	6.765	1028.5E6	2543.0E6	25.362	24.286
15) tc beta-Endosul	6.361	7.044	1220.9E6	3098.3E6	29.579	28.612
16) tc 4,4'-DDD	6.187	6.953	968.0E6	2416.9E6	29.383	27.514
17) tcm 4,4'-DDT	6.580	7.342	1027.0E6	2484.8E6	27.490	26.162
18) tc Endrin Aldeh	6.933	7.460	1043.1E6	2606.3E6	30.317	30.073
19) tc Endosulfan S	7.473	7.783	1097.2E6	2590.8E6	29.020	28.019
20) tc Methoxychlor	7.248	8.129	415.3E6	1181.8E6	22.902	23.274
21) tc Endrin Keton	7.791	8.352	1300.0E6	3067.1E6	28.953	27.727
22) tc Mirex	7.328	8.316	1024.5E6	1932.2E6	27.989	26.223
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1330.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 11:05 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:32:36 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1341.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 Apr 2023 02:35 am
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:33:09 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	28.756	-15.0	115	0.00
2 tc	alpha-BHC	25.000	30.501	-22.0#	116	0.00
3 tcm	gamma-BHC (L	25.000	30.106	-20.4#	115	0.00
4 tcm	Heptachlor	25.000	28.184	-12.7	109	0.00
5 tcm	Aldrin	25.000	30.509	-22.0#	115	0.00
6 tc	beta-BHC	25.000	28.900	-15.6	115	0.00
7 TC	delta-BHC	25.000	30.196	-20.8#	114	0.00
8 tc	Heptachlor E	25.000	29.473	-17.9	113	0.00
9 tc	alpha-Endosu	25.000	29.327	-17.3	111	0.00
10 tc	gamma-Chlord	25.000	29.998	-20.0	114	0.00
11 tc	alpha-Chlord	25.000	29.566	-18.3	113	0.00
12 tc	4,4'-DDE	25.000	31.863	-27.5#	117	0.00
13 tcm	Dieldrin	25.000	30.432	-21.7#	113	0.00
14 tcm	Endrin	25.000	24.254	3.0	92	0.00
15 tc	beta-Endosul	25.000	29.920	-19.7	113	0.00
16 tc	4,4'-DDD	25.000	32.455	-29.8#	121	0.00
17 tcm	4,4'-DDT	25.000	26.309	-5.2	97	0.00
18 tc	Endrin Aldeh	25.000	31.730	-26.9#	120	0.00
19 tc	Endosulfan S	25.000	29.000	-16.0	110	0.00
20 tc	Methoxychlor	25.000	23.530	5.9	92	0.00
21 tc	Endrin Keton	25.000	29.868	-19.5	113	0.00
22 tc	Mirex	25.000	27.781	-11.1	109	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	28.093	-12.4	111	0.00

Signal #2

1 S	SURR1,Tetrac	25.000	29.019	-16.1	115	0.00
2 tc	alpha-BHC	25.000	29.772	-19.1	116	0.00
3 tcm	gamma-BHC (L	25.000	29.446	-17.8	115	0.00
4 tcm	Heptachlor	25.000	27.577	-10.3	109	0.00
5 tcm	Aldrin	25.000	29.747	-19.0	115	0.00
6 tc	beta-BHC	25.000	27.707	-10.8	114	0.00
7 tc	delta-BHC	25.000	29.511	-18.0	115	0.00
8 tc	Heptachlor E	25.000	28.405	-13.6	112	0.00
9 tc	alpha-Endosu	25.000	28.854	-15.4	114	-0.01
10 tc	gamma-Chlord	25.000	28.685	-14.7	114	0.00
11 tc	alpha-Chlord	25.000	28.622	-14.5	114	-0.01
12 tc	4,4'-DDE	25.000	29.099	-16.4	112	0.00
13 tcm	Dieldrin	25.000	29.238	-17.0	114	0.00
14 tcm	Endrin	25.000	22.976	8.1	91	0.00
15 tc	beta-Endosul	25.000	28.159	-12.6	111	0.00
16 tc	4,4'-DDD	25.000	29.907	-19.6	116	0.00
17 tcm	4,4'-DDT	25.000	24.675	1.3	96	0.00
18 tc	Endrin Aldeh	25.000	30.754	-23.0#	123	0.00

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1341.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Apr 2023 02:35 am
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:33:09 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 tc Endosulfan S	25.000	27.501	-10.0	110	0.00
20 tc Methoxychlor	25.000	21.545	13.8	90	0.00
21 tc Endrin Keton	25.000	27.436	-9.7	109	0.00
22 tc Mirex	25.000	26.443	-5.8	109	0.00
23 S SURR2,Decachlorobiphenyl	25.000	25.744	-3.0	106	0.00

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-5.84#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.19#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-6.53#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.07#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.35#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.80#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.34#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.81#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.04#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.19#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.77#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.20#

Signal #2

24 L8C Toxaphene	500.000	0.000	100.0#	0	-6.35#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.50#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-7.16#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.39#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.58#
29 L9C Chlordane	100.000	0.000	100.0#	0	-4.07#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.80#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-5.63#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.78#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.85#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-12.99#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-13.57#

(#) = Out of Range

SPCC's out = 0 CCC's out = 33

Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1341.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 01 Apr 2023 02:35 am
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:33:09 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

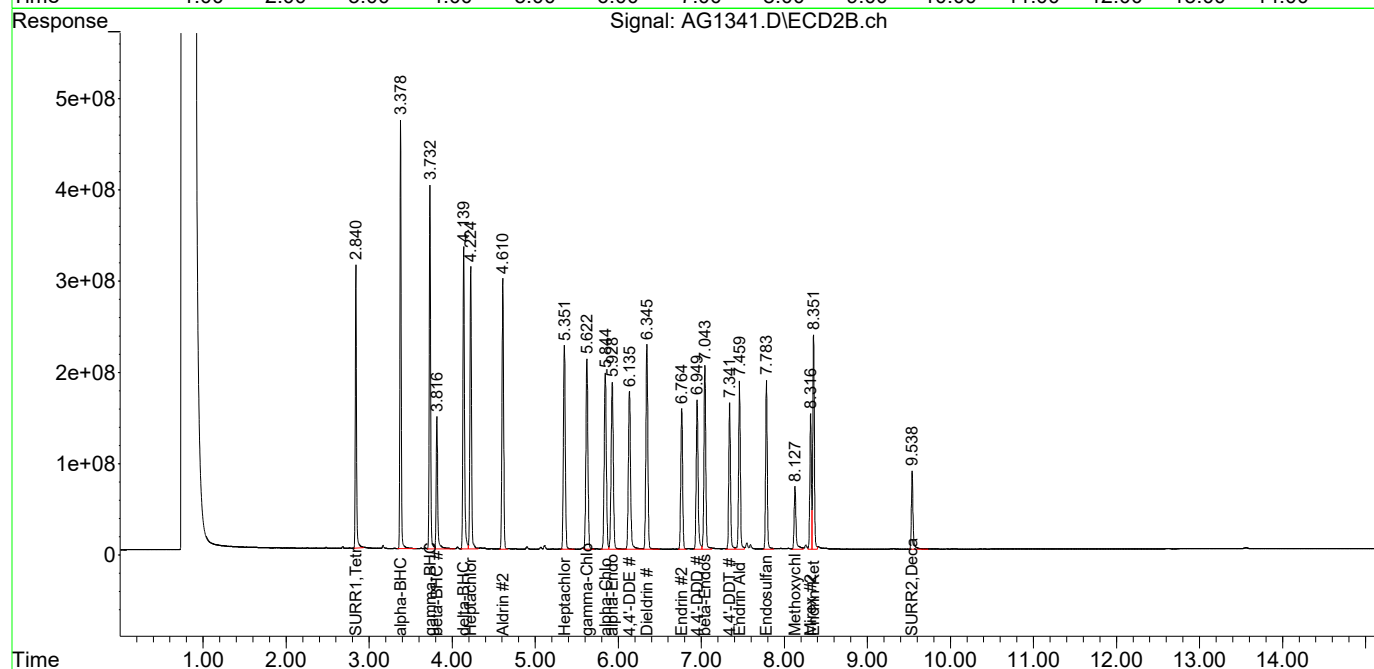
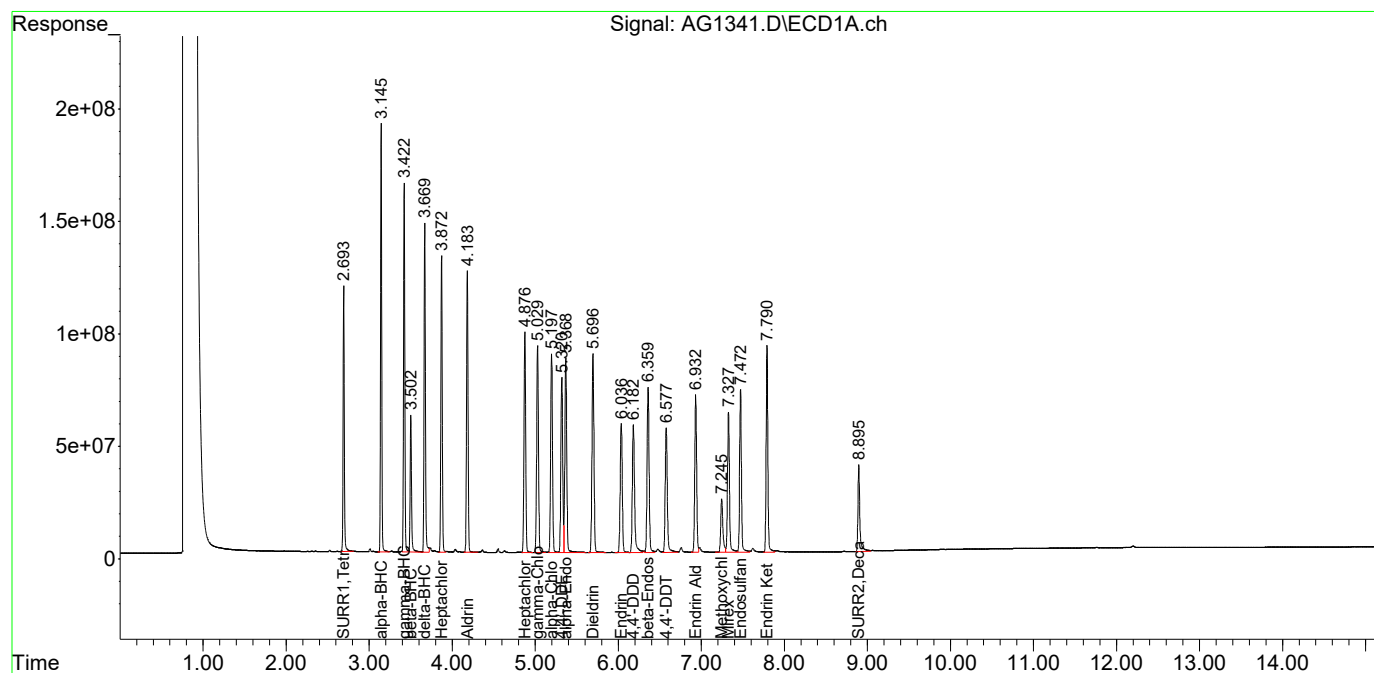
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.694	2.840	1151.6E6	3050.2E6	28.756	29.019
Spiked Amount	100.000 Range	30 - 150	Recovery	=	28.76%#	29.02%#
23) S SURR2,Dec...	8.896	9.539	600.5E6	1159.4E6	28.093	25.744
Spiked Amount	100.000 Range	30 - 150	Recovery	=	28.09%#	25.74%#
Target Compounds						
2) tc alpha-BHC	3.145	3.379	1851.0E6	4826.9E6	30.501	29.772
3) tcm gamma-BHC (L	3.422	3.733	1723.3E6	4455.2E6	30.106	29.446
4) tcm Heptachlor	3.873	4.224	1538.5E6	4056.2E6	28.184	27.577
5) tcm Aldrin	4.183	4.610	1575.3E6	4009.9E6	30.509	29.747
6) tc beta-BHC	3.502	3.816	698.3E6	1832.6E6	28.900	27.707
7) tc delta-BHC	3.670	4.139	1662.2E6	4341.4E6	30.196	29.511
8) tc Heptachlor E	4.876	5.352	1395.9E6	3511.2E6	29.473	28.405
9) tc alpha-Endosu	5.369	5.928	1374.3E6	3338.8E6	29.327	28.854
10) tc gamma-Chlord	5.029	5.623	1397.8E6	3518.2E6	29.998	28.685
11) tc alpha-Chlord	5.198	5.845	1350.5E6	3424.1E6	29.566	28.622
12) tc 4,4'-DDE	5.321	6.135	1215.8E6	3214.4E6	31.863	29.099
13) tcm Dieldrin	5.696	6.345	1445.9E6	3724.3E6	30.432	29.238
14) tcm Endrin	6.037	6.764	983.6E6	2405.8E6	24.254	22.976
15) tc beta-Endosul	6.359	7.043	1235.0E6	3049.3E6	29.920	28.159
16) tc 4,4'-DDD	6.182	6.949	1069.2E6	2627.1E6	32.455	29.907
17) tcm 4,4'-DDT	6.578	7.341	982.9E6	2343.5E6	26.309	24.675
18) tc Endrin Aldeh	6.932	7.459	1091.8E6	2665.3E6	31.730	30.754
19) tc Endosulfan S	7.473	7.784	1096.4E6	2542.9E6	29.000	27.501
20) tc Methoxychlor	7.245	8.128	426.6E6	1094.0E6	23.530	21.545
21) tc Endrin Keton	7.791	8.352	1341.1E6	3034.8E6	29.868	27.436
22) tc Mirex	7.327	8.317	1016.9E6	1948.4E6	27.781	26.443
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1341.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 01 Apr 2023 02:35 am
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:33:09 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	DB-CLP 1	ID: 0.32 (mm)	Initial Calibration Date(s): 03/28/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	03/30/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	10:11	
4,4'-DDT % Breakdown (1):	0.5%	Endrin % Breakdown (1):	4.6%	
Combined % Breakdown (1):	5.1%			

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	DB-CLP 2	ID: 0.32 (mm)	Initial Calibration Date(s): 03/28/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	03/30/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	10:11	
4,4'-DDT % Breakdown (1):	0.8%	Endrin % Breakdown (1):	7.1%	
Combined % Breakdown (1):	7.9%			

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : I:\ACQUDATA\7890N.net\data\033023\
 Data File : AG1227.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 30 Mar 2023 10:11 am
 Operator : AFelser
 Sample : PEM
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 30 11:29:59 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

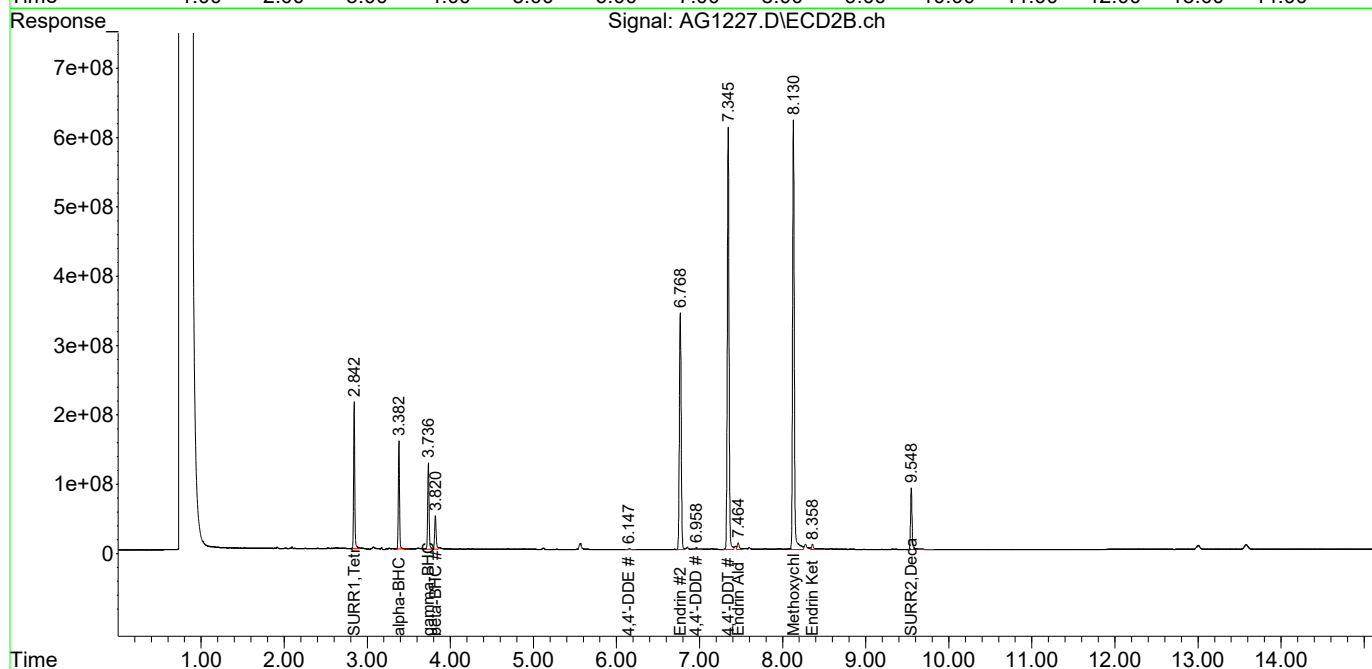
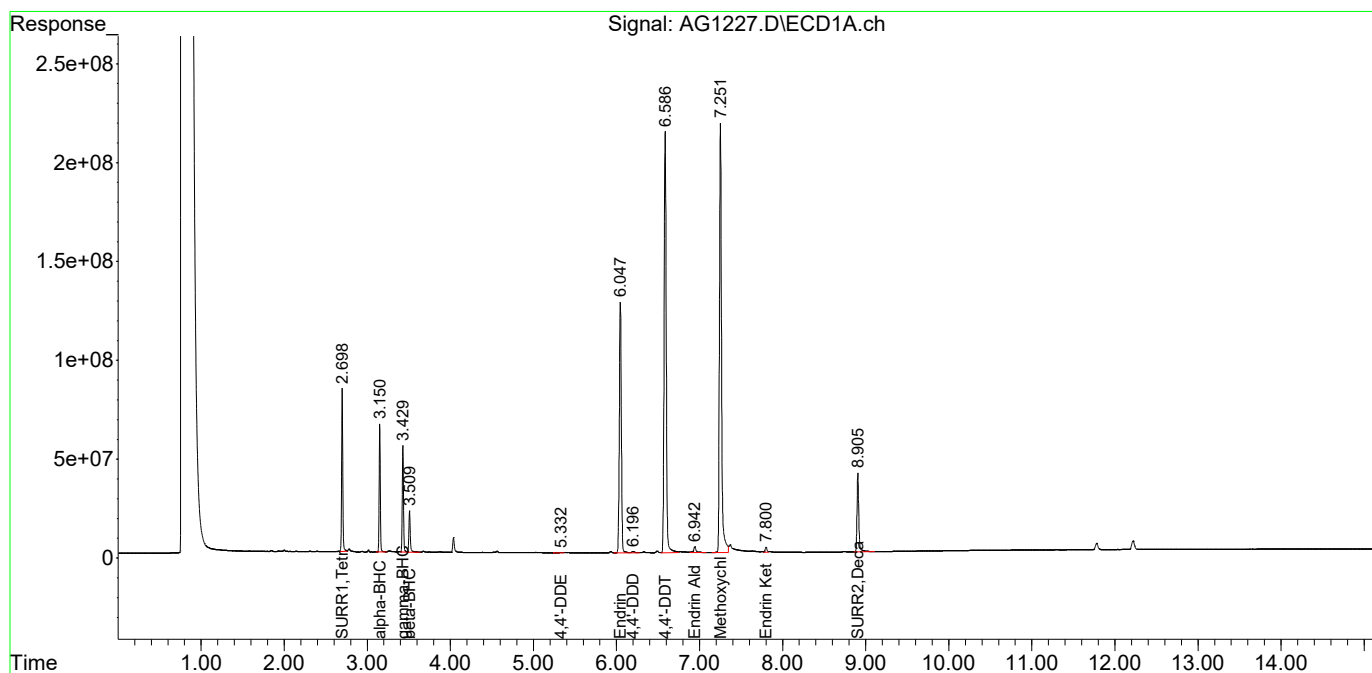
System Monitoring Compounds						
1) S SURR1,Tet...	2.699	2.843	792.1E6	2045.0E6	19.779	19.455
Spiked Amount	100.000 Range	30 - 150	Recovery	=	19.78%#	19.45%#
23) S SURR2,Dec...	8.905	9.548	587.8E6	1136.6E6	27.503	25.238
Spiked Amount	100.000 Range	30 - 150	Recovery	=	27.50%#	25.24%#
Target Compounds						
2) tc alpha-BHC	3.151	3.382	616.9E6	1566.9E6	10.165	9.665
3) tcm gamma-BHC (L	3.429	3.736	554.0E6	1425.9E6	9.677	9.424
6) tc beta-BHC	3.509	3.821	242.1E6	616.4E6	10.020	9.319
12) tc 4,4'-DDE	5.332	6.148	2466958	14096019	0.065	0.128 #
14) tcm Endrin	6.047	6.769	2153.8E6	5172.3E6	53.109	49.396
16) tc 4,4'-DDD	6.197	6.958	17760754	59402624	0.539	0.676 #
17) tcm 4,4'-DDT	6.587	7.345	3774.6E6	8828.8E6	101.038	92.957
18) tc Endrin Aldeh	6.943	7.465	63753288	188.1E6	1.853	2.170
20) tc Methoxychlor	7.252	8.130	3848.0E6	8987.2E6	212.227	176.985
21) tc Endrin Keton	7.800	8.359	39076525	204.4E6	0.870	1.848 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033023\
Data File : AG1227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Mar 2023 10:11 am
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 30 11:29:59 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	DB-CLP 1	ID: 0.32 (mm)	Initial Calibration Date(s):	03/28/2023
EPA Sample No. (PEM):	PEM	Date Analyzed:		03/31/2023
LAB Sample ID. (PEM):	PEM	Time Analyzed:		18:36
4,4'-DDT % Breakdown (1):	0.6%	Endrin % Breakdown (1):		7.3%
Combined % Breakdown (1):	7.9%			

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	DB-CLP 2	ID: 0.32 (mm)	Initial Calibration Date(s): 03/28/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	03/31/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	18:36	
4,4'-DDT % Breakdown (1):	1.0%	Endrin % Breakdown (1):	9.0%	
Combined % Breakdown (1):	10.0%			

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : I:\ACQUDATA\7890N.net\data\033123\
 Data File : AG1316.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 31 Mar 2023 06:36 pm
 Operator : AFelser
 Sample : PEM
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Apr 03 09:31:54 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

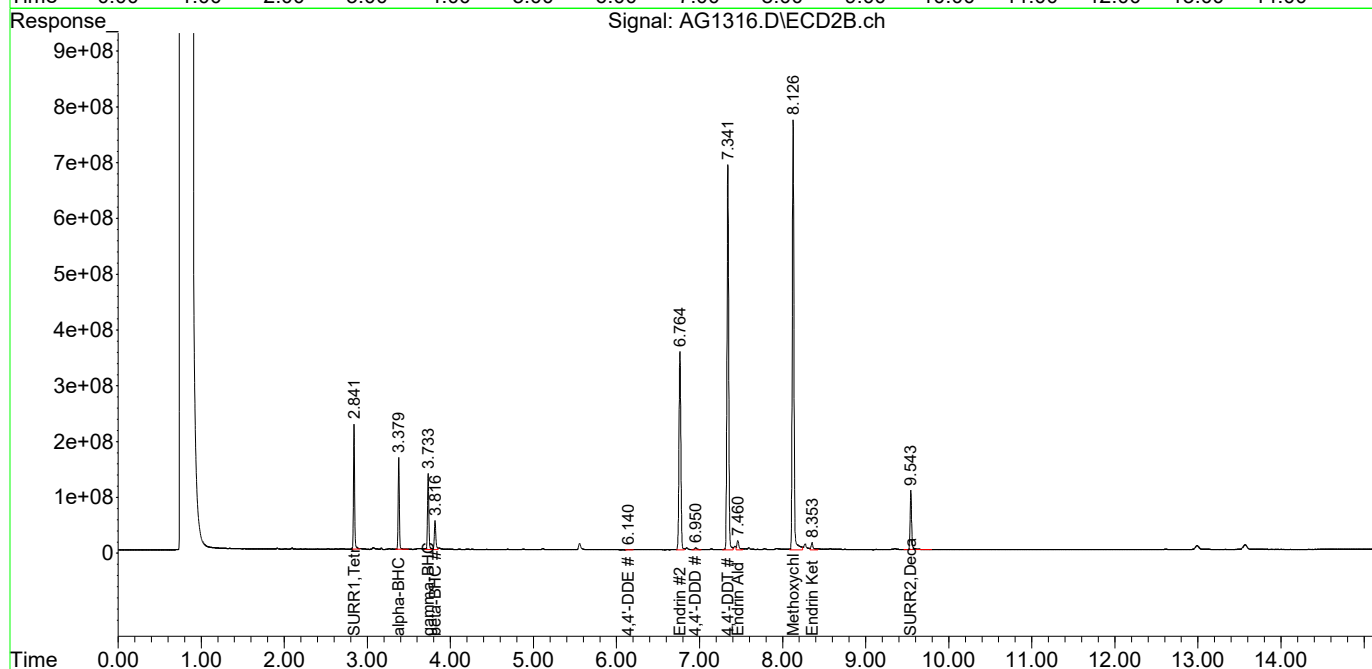
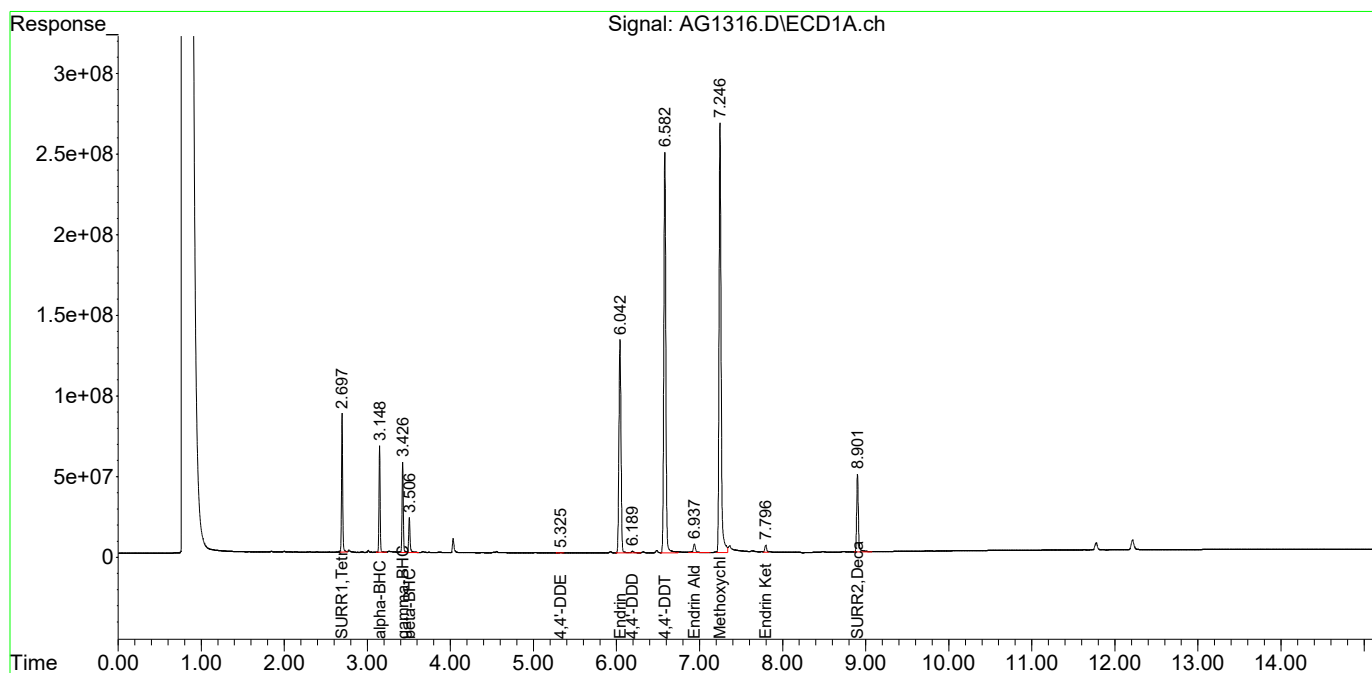
System Monitoring Compounds						
1) S SURR1,Tet...	2.697	2.841	813.0E6	2145.0E6	20.302	20.406
Spiked Amount	100.000 Range	30 - 150	Recovery	=	20.30%#	20.41%#
23) S SURR2,Dec...	8.901	9.543	697.5E6	1382.6E6	32.634	30.701
Spiked Amount	100.000 Range	30 - 150	Recovery	=	32.63%	30.70%
Target Compounds						
2) tc alpha-BHC	3.149	3.379	632.4E6	1638.7E6	10.420	10.107
3) tcm gamma-BHC (L	3.426	3.734	574.0E6	1510.0E6	10.027	9.980
6) tc beta-BHC	3.507	3.817	251.9E6	650.8E6	10.425	9.840
12) tc 4,4'-DDE	5.327	6.140	2831675	20132062	0.074	0.182 #
14) tcm Endrin	6.043	6.764	2258.1E6	5479.2E6	55.681	52.327
16) tc 4,4'-DDD	6.189	6.951	23472191	83388937	0.712	0.949 #
17) tcm 4,4'-DDT	6.582	7.341	4213.4E6	9922.9E6	112.781	104.477
18) tc Endrin Aldeh	6.938	7.461	111.4E6	302.0E6	3.239	3.485
20) tc Methoxychlor	7.246	8.126	4546.0E6	10743.3E6	250.726	211.569
21) tc Endrin Keton	7.796	8.354	65694258	239.4E6	1.463	2.165 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\033123\
Data File : AG1316.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Mar 2023 06:36 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 03 09:31:54 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1164.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Mar 2023 01:31 am
 Operator : AFelser
 Sample : CHLOR ICV
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 10:07:01 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:06:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

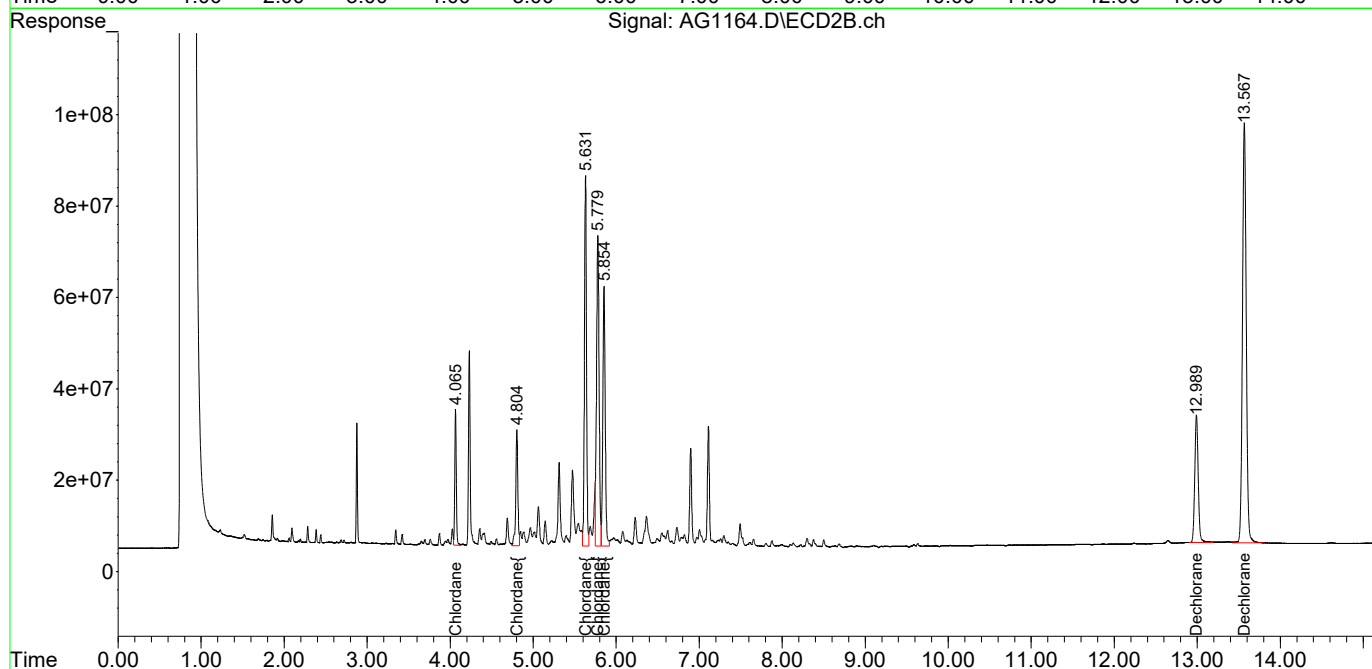
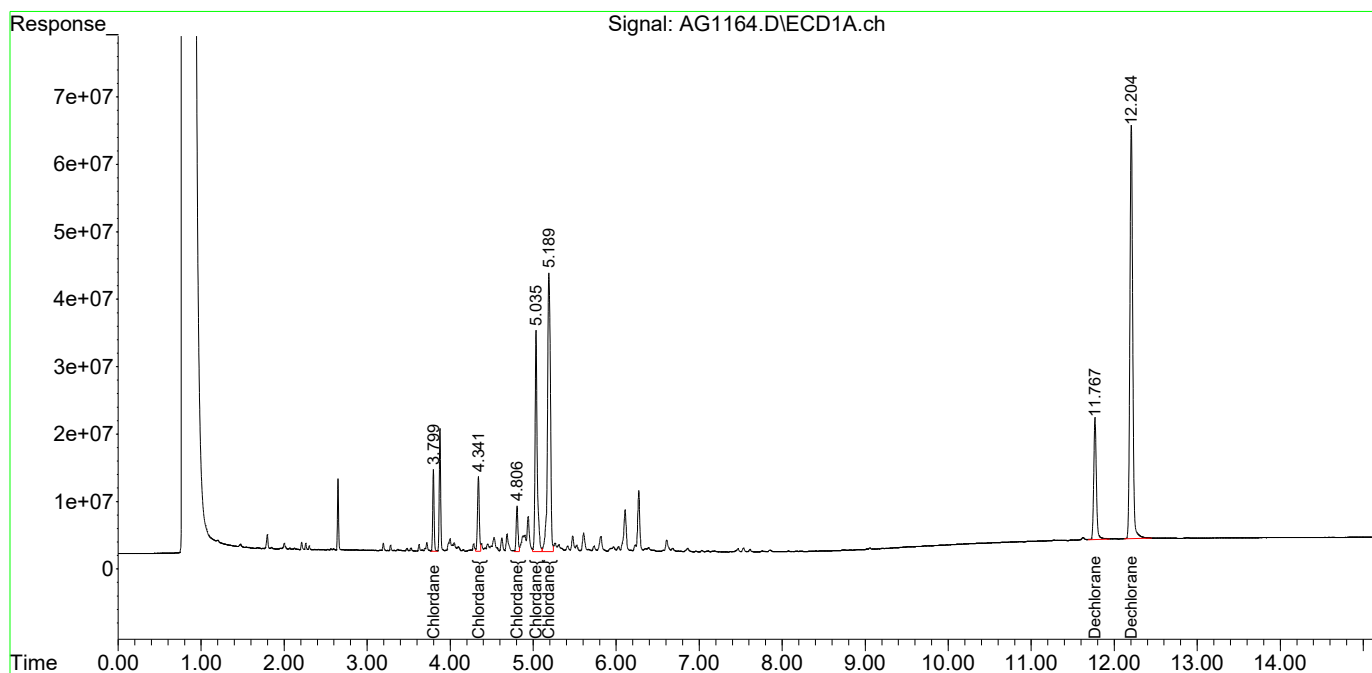
System Monitoring Compounds						
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
29) L9C Chlordane	3.799	4.066	138.3E6	380.2E6	99.656	97.992
30) L9C Chlordane{2}	4.341	4.804	169.3E6	439.4E6	98.231	96.258
31) L9C Chlordane{3}	4.807	5.631	99611059	1410.0E6	101.860	97.623
32) L9C Chlordane{4}	5.036	5.779	589.8E6	1463.4E6	102.398	113.973m
33) L9C Chlordane{5}	5.190	5.855	1026.2E6	1136.7E6	115.492	96.480
Sum Chlordane			2023.2E6	4829.7E6	517.637	502.327
Average Chlordane					103.527	100.465
34) L10C Dechloran...	11.768	12.990	398.3E6	810.4E6	53.230	49.434
35) L10C Dechloran...	12.205	13.567	1470.5E6	2907.4E6	52.491	49.760
Sum Dechlorane			1868.7E6	3717.8E6	105.721	99.194
Average Dechlorane					52.860	49.597

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 01:31 am
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:07:01 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1142.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:30 pm
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:07:49 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

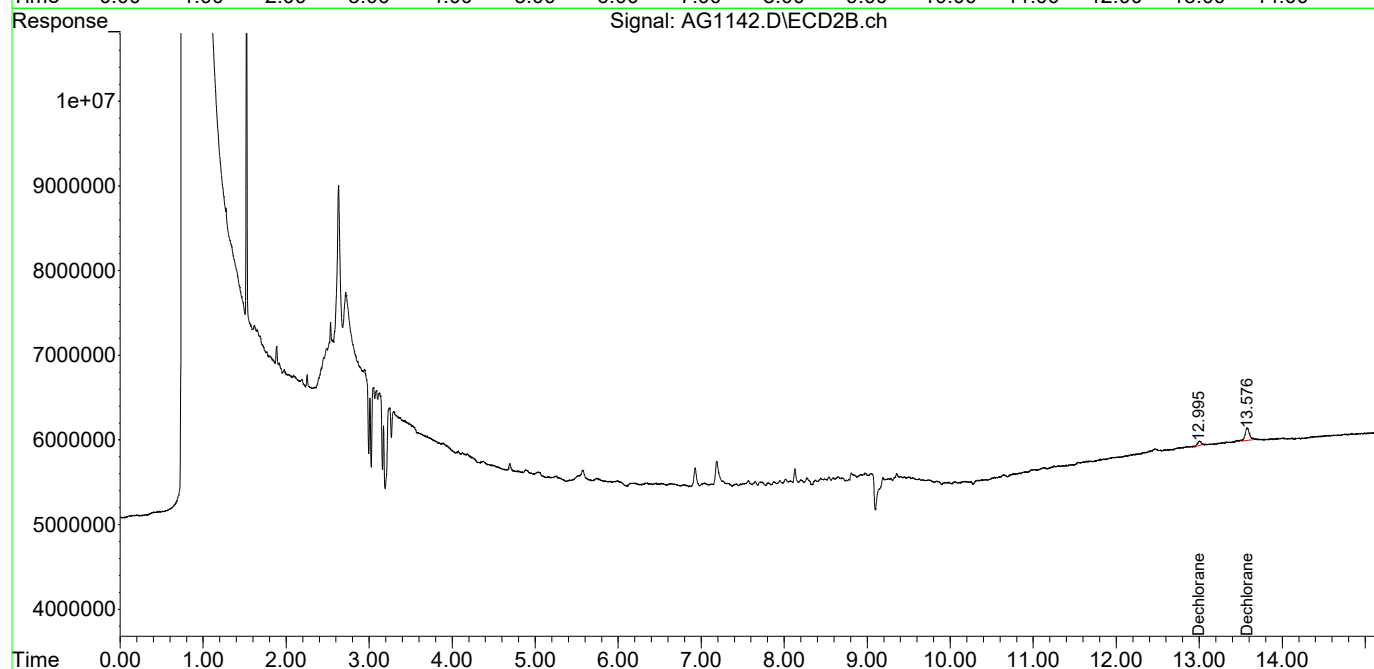
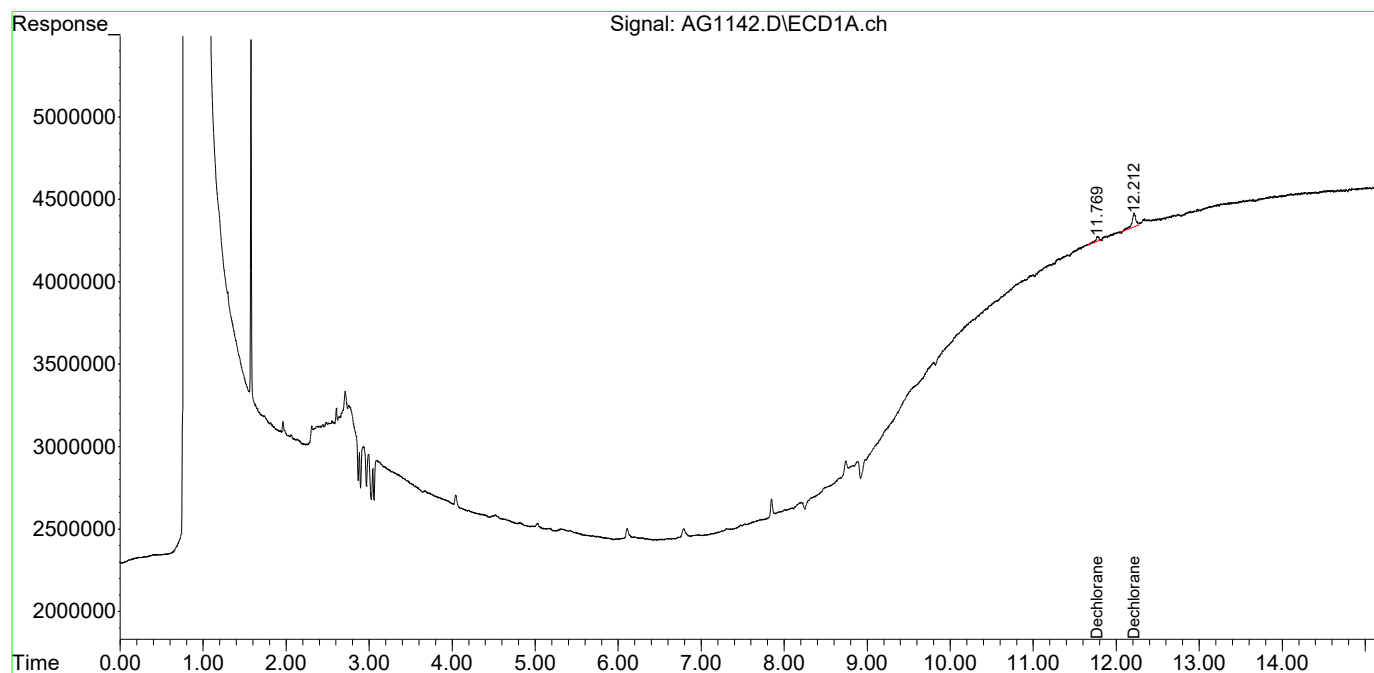
System Monitoring Compounds						
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
34) L10C Dechloran...	11.770	12.995	699094	1481085	0.093	0.090
35) L10C Dechloran...	12.216	13.576	2726607	5090366	0.097	0.087
Sum Dechlorane			3425701	6571450	0.191	0.177
Average Dechlorane					0.095	0.089

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1142.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:30 pm
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:07:49 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase : DB-CLPII
Signal #2 Info : 0.32mm 30m



7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	DB-CLP 1	ID: 0.32 (mm)	Initial Calibration Date(s): 03/28/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	03/28/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	18:50	
4,4'-DDT % Breakdown (1):	0.2%	Endrin % Breakdown (1):	3.3%	
Combined % Breakdown (1):	3.5%			

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	DB-CLP 2	ID: 0.32 (mm)	Initial Calibration Date(s): 03/28/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	03/28/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	18:50	
4,4'-DDT % Breakdown (1):	0.4%	Endrin % Breakdown (1):	3.3%	
Combined % Breakdown (1):	3.7%			

QC LIMITS:

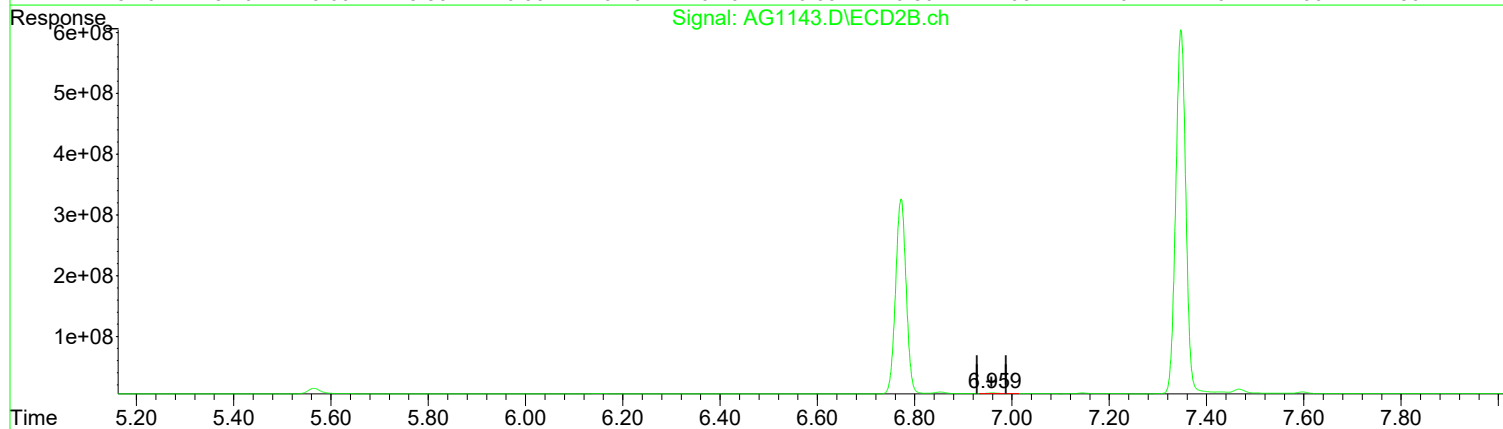
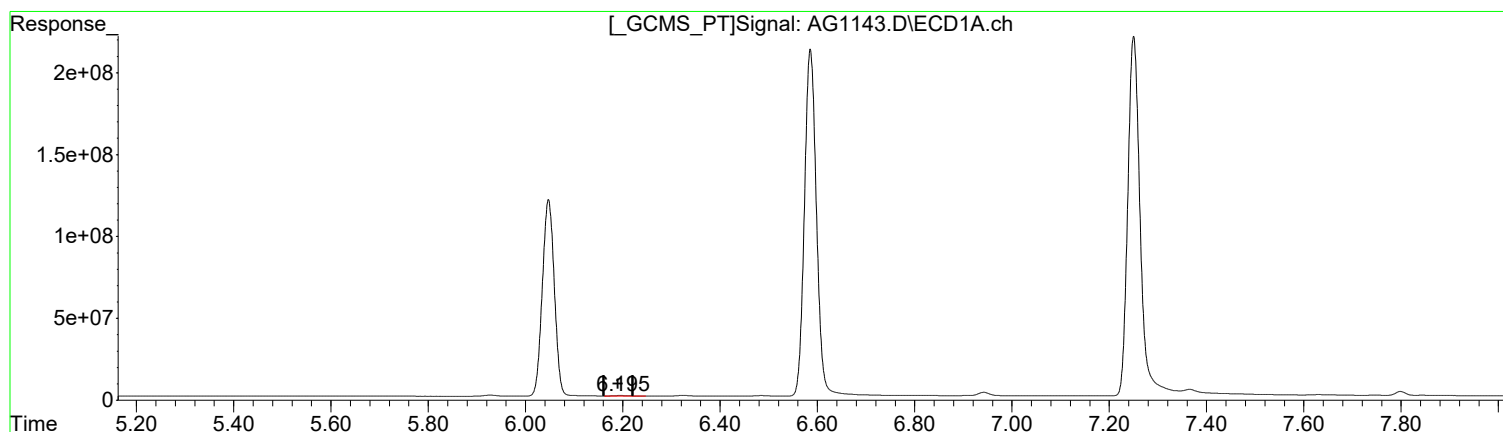
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:50 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:08:46 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(16) 4,4'-DDD (tc)
6.195min 0.162 ug/l m
response 5330493

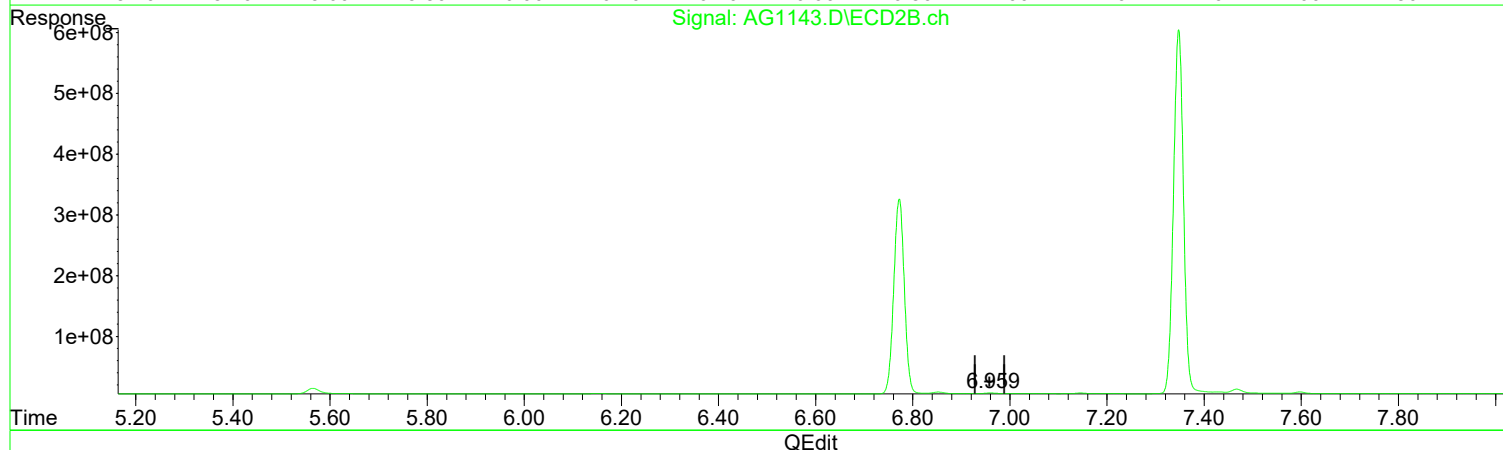
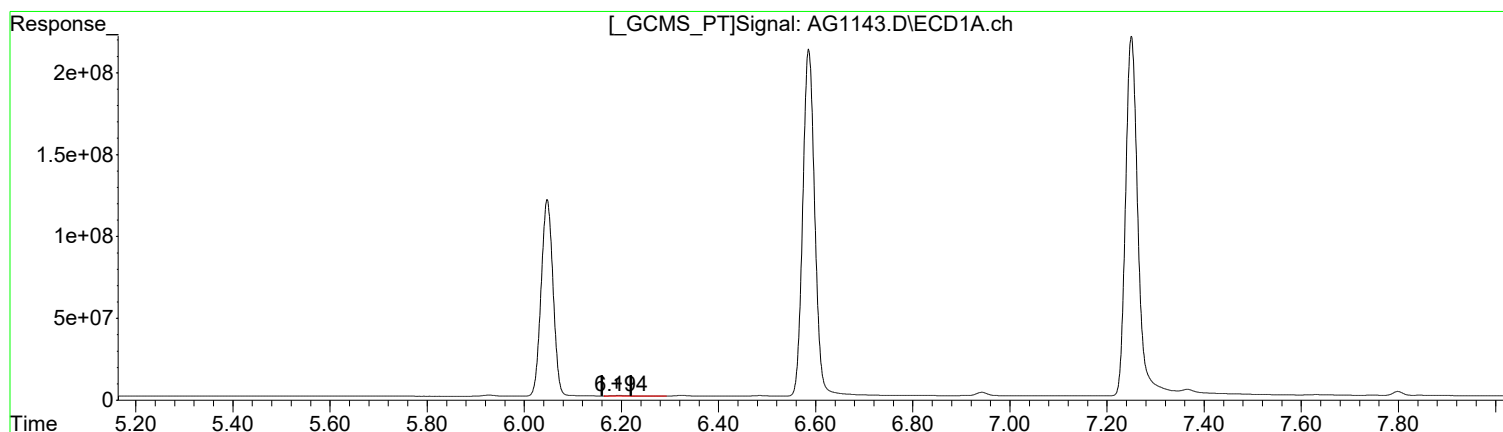
(16) 4,4'-DDD #2 (tc)
6.959min 0.209 ug/l m
response 18332536

Manual Integration:
After
Poor integration.
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:50 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:08:46 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(16) 4,4'-DDD (tc)
6.195min 0.406 ug/l
response 13377755

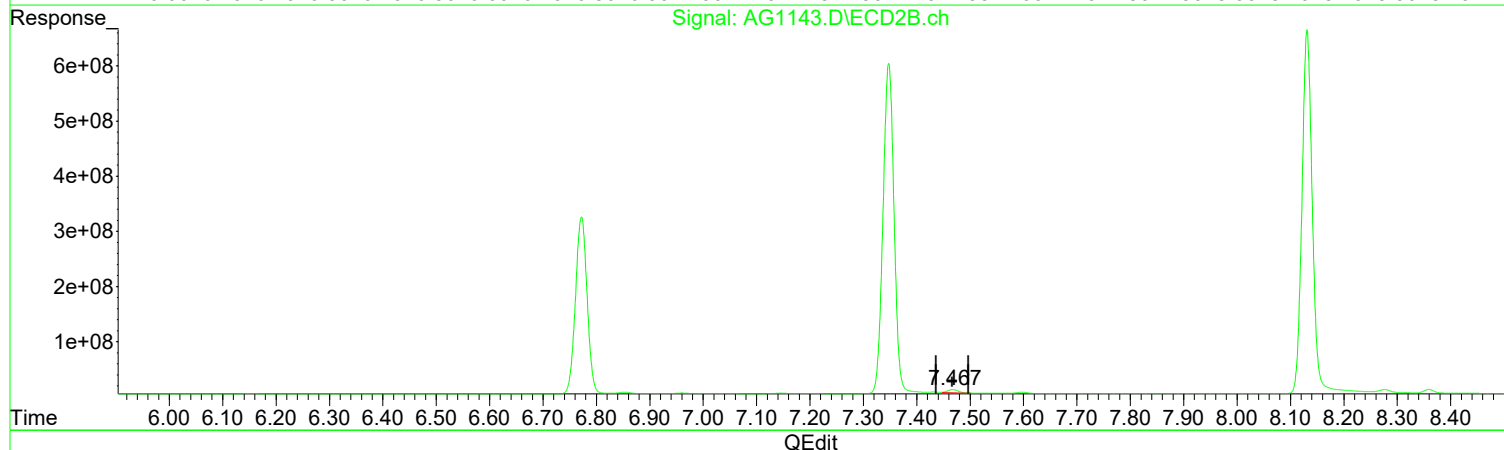
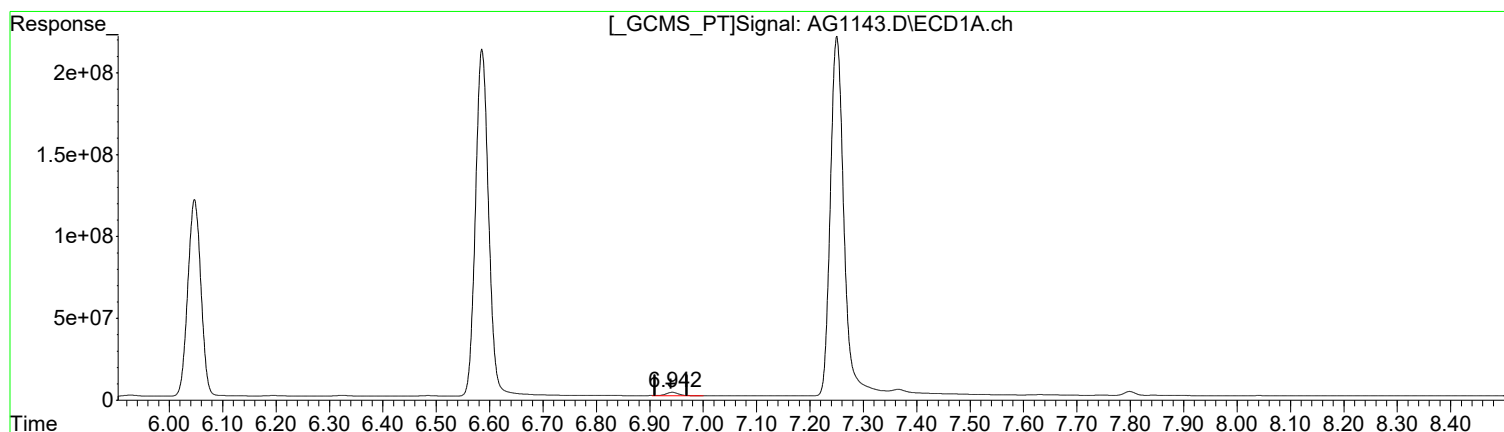
(16) 4,4'-DDD #2 (tc)
6.960min 0.507 ug/l
response 44534122

Manual Integration:
Before
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:50 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:08:46 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
6.942min 0.970 ug/l m
response 33390397

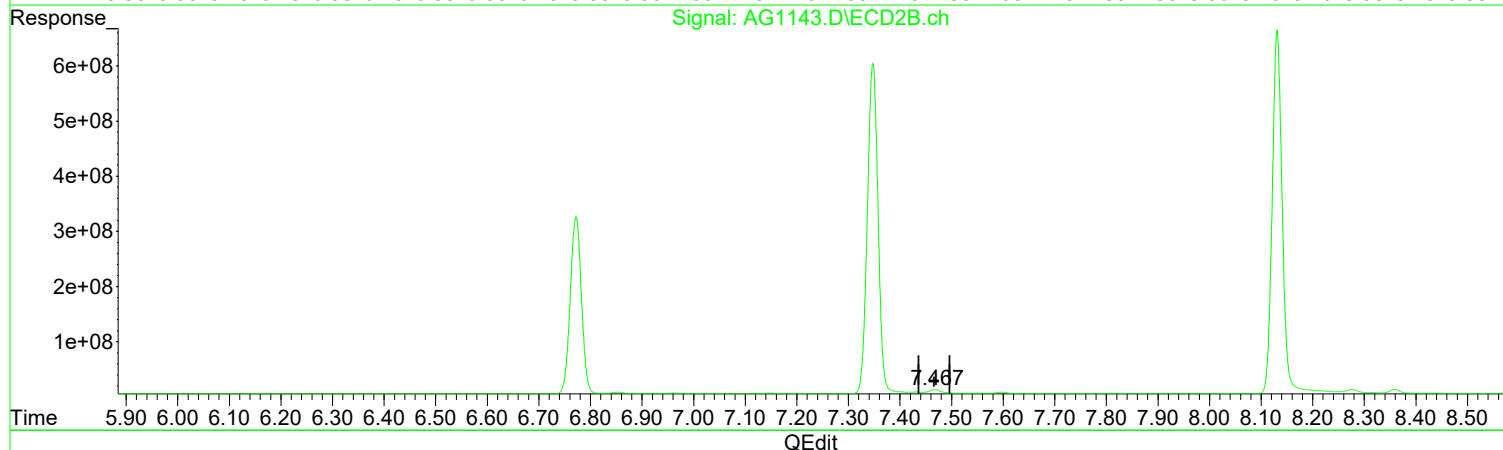
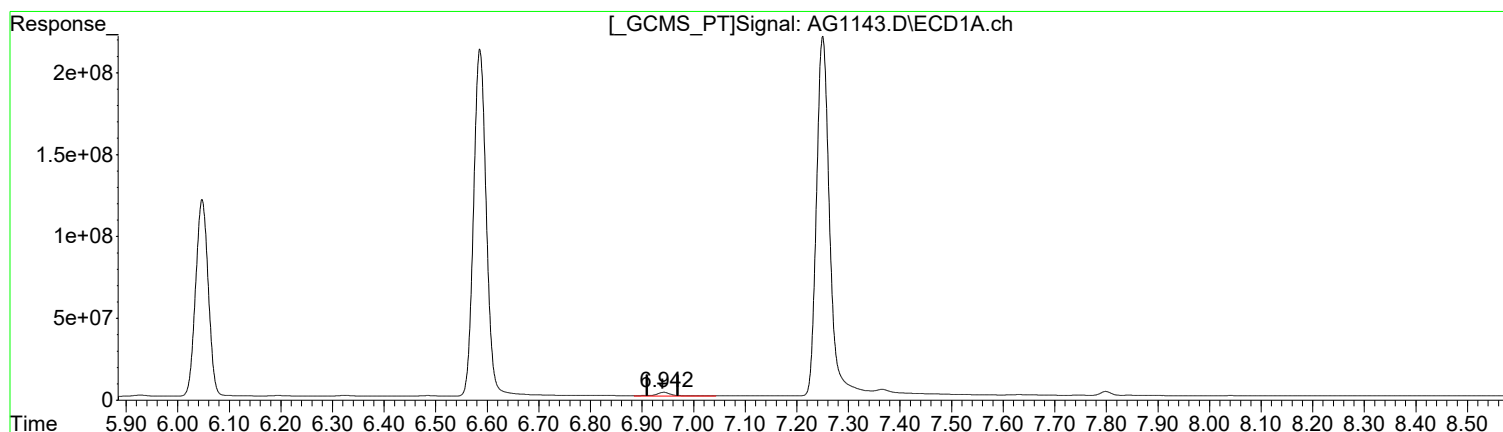
(18) Endrin Aldeh #2 (tc)
7.467min 0.952 ug/l m
response 82527284

Manual Integration:
After
Poor integration.
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:50 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:08:46 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
6.943min 1.570 ug/l
response 54034386

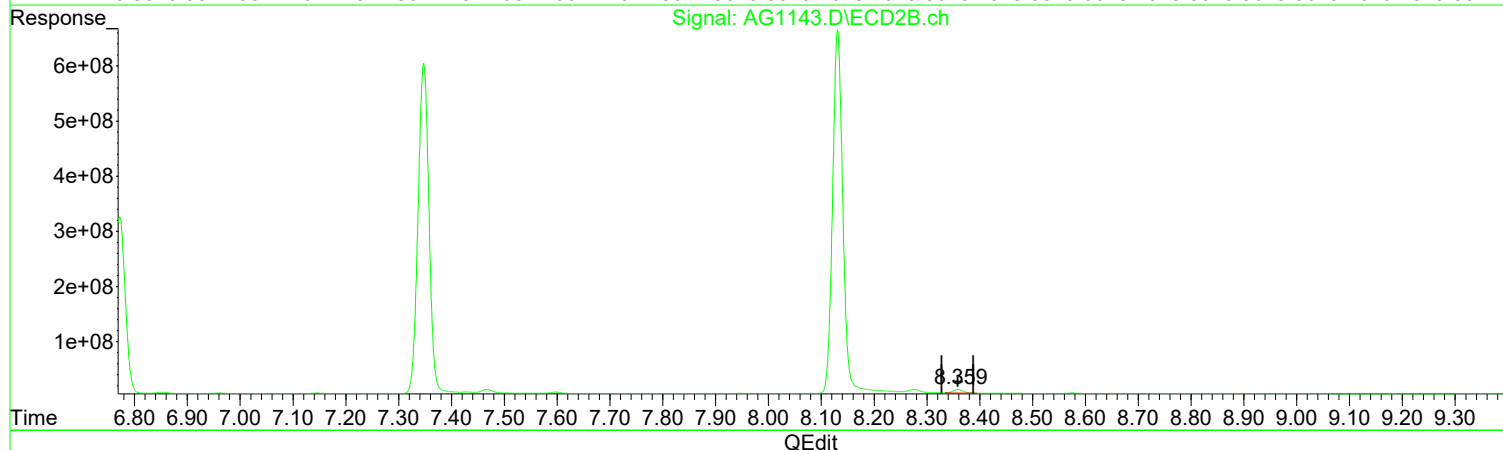
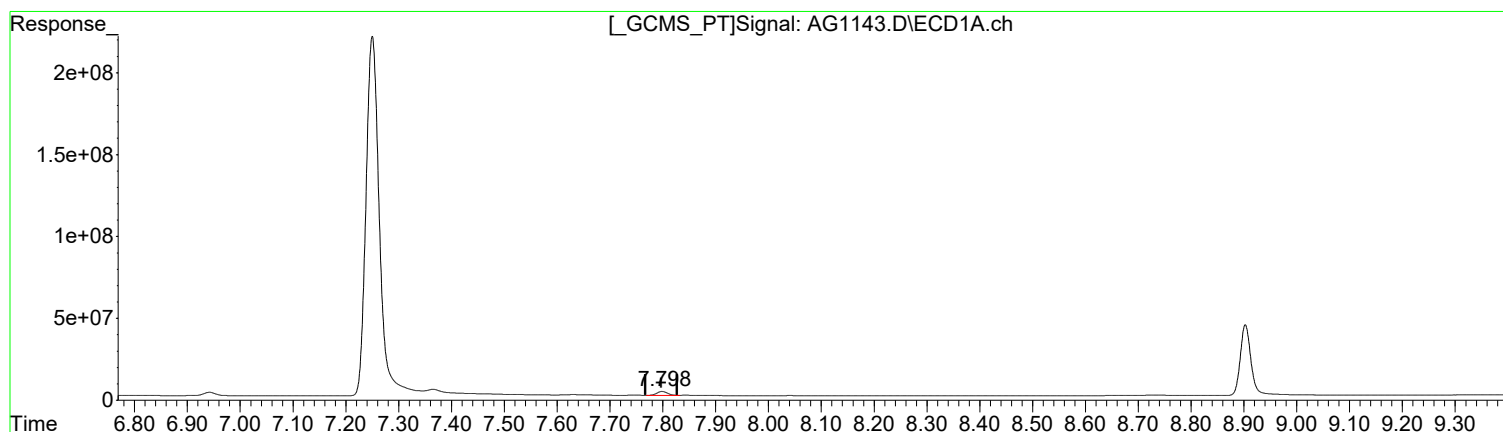
(18) Endrin Aldeh #2 (tc)
7.467min 2.299 ug/l
response 199283219

Manual Integration:
Before
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:50 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:08:46 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endrin Keton (tc)
7.798min 0.812 ug/l m
response 36447924

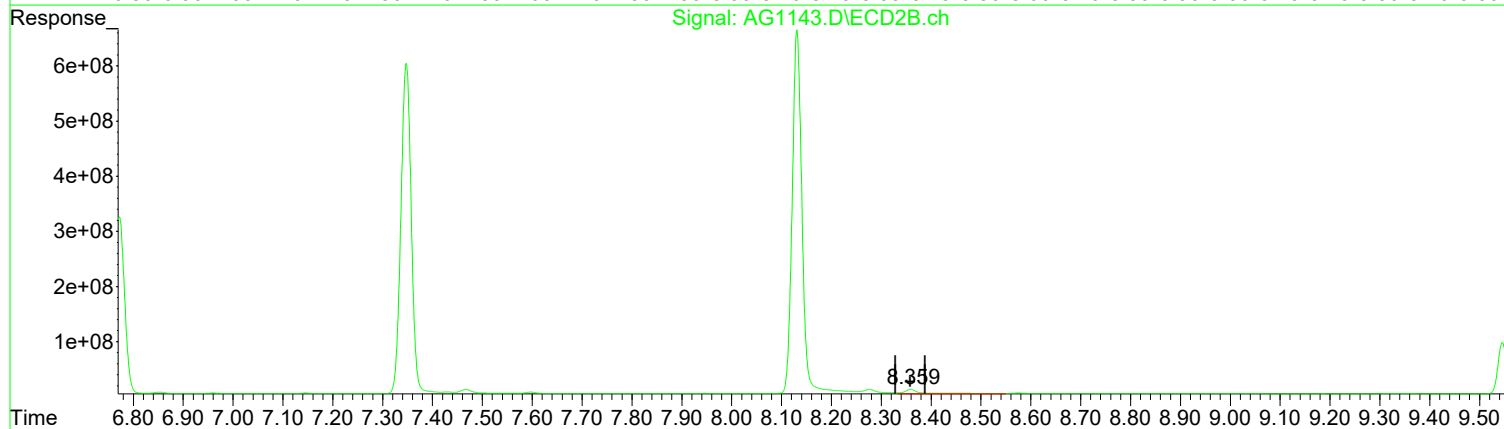
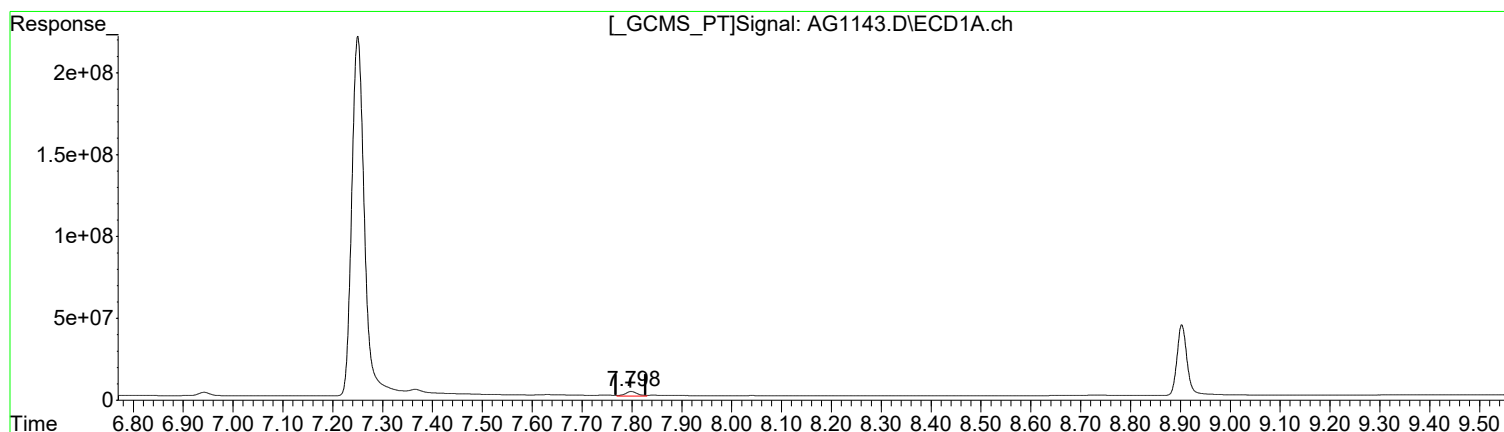
(21) Endrin Keton #2 (tc)
8.359min 0.753 ug/l m
response 83269056

Manual Integration:
After
Poor integration.
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:50 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:08:46 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(21) Endrin Keton (tc)
7.798min 1.019 ug/l
response 45756630

(21) Endrin Keton #2 (tc)
8.359min 2.082 ug/l
response 230274303

Manual Integration:
Before
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:50 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:08:46 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

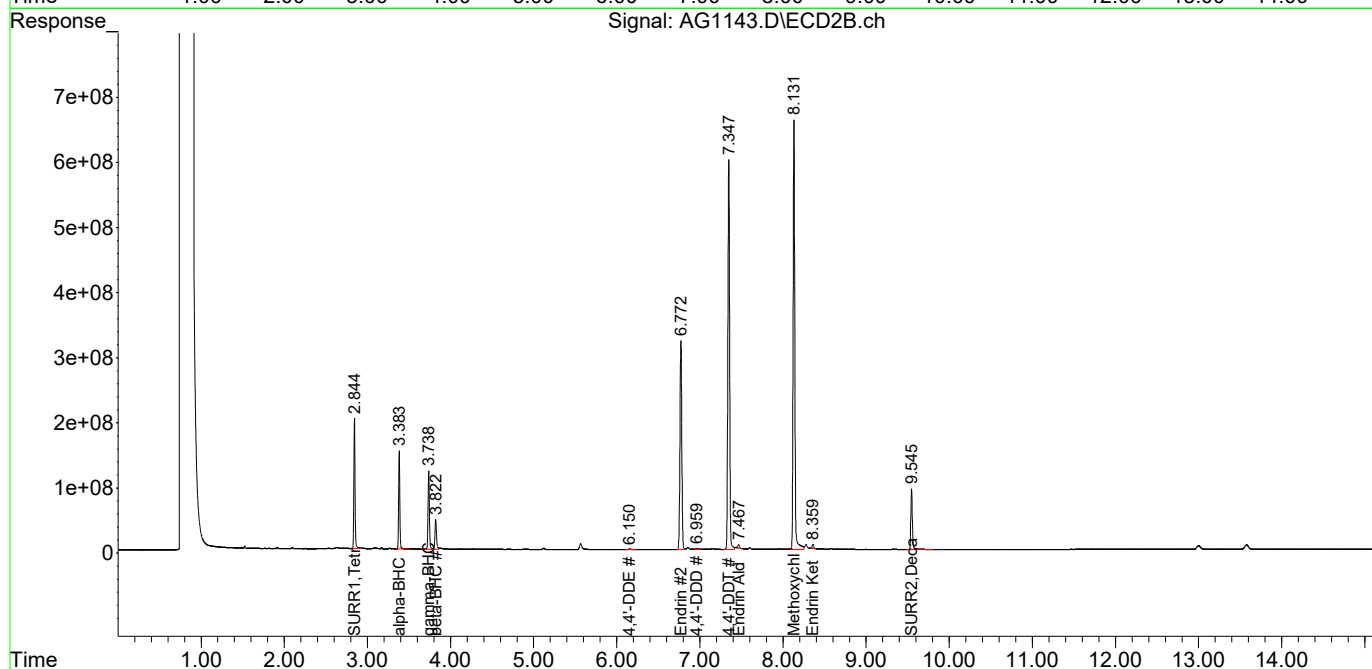
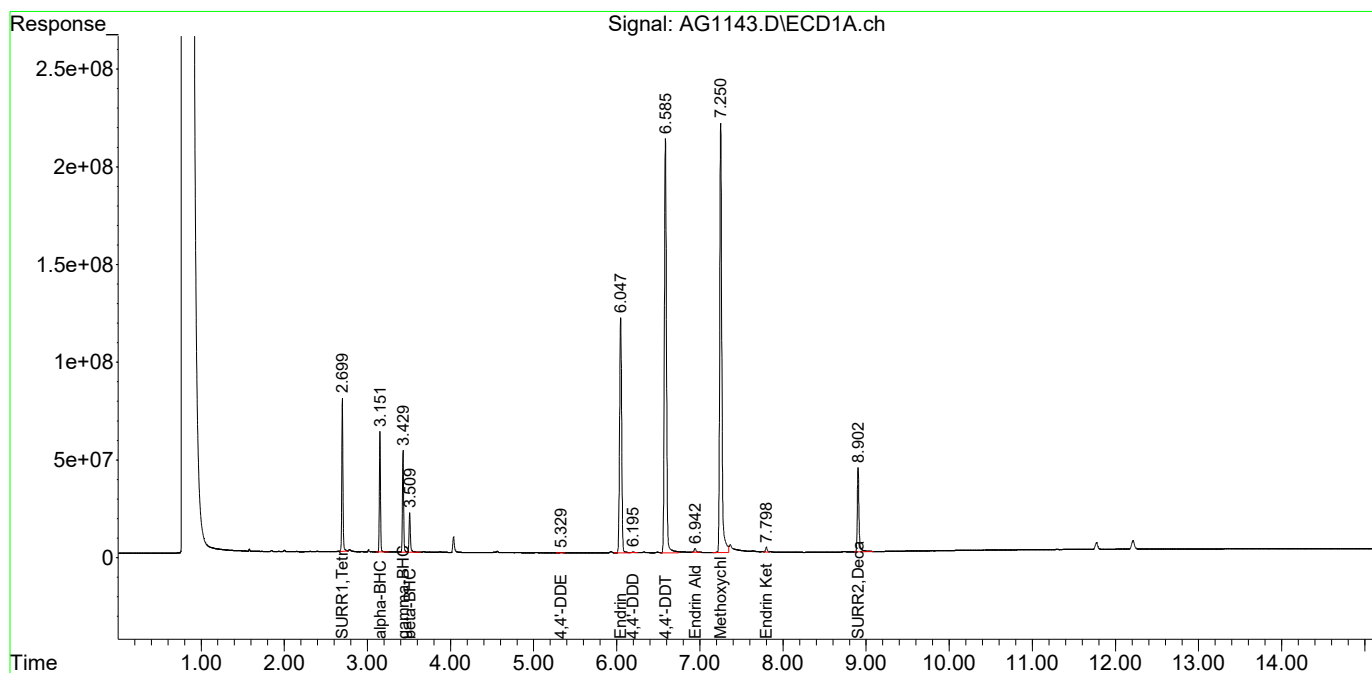
System Monitoring Compounds						
1) S SURR1,Tet...	2.699	2.844	747.2E6	1928.1E6	18.658	18.343
Spiked Amount	100.000 Range	30 - 150	Recovery	=	18.66%#	18.34%#
23) S SURR2,Dec...	8.903	9.546	623.0E6	1204.0E6	29.147	26.734
Spiked Amount	100.000 Range	30 - 150	Recovery	=	29.15%#	26.73%#
Target Compounds						
2) tc alpha-BHC	3.151	3.384	583.9E6	1475.7E6	9.621	9.102
3) tcm gamma-BHC (L	3.429	3.738	521.5E6	1334.2E6	9.111	8.818
6) tc beta-BHC	3.509	3.822	226.5E6	579.8E6	9.374	8.765
12) tc 4,4'-DDE	5.330	6.151	2113335	12724786	0.055	0.115 #
14) tcm Endrin	6.047	6.772	2058.6E6	4862.0E6	50.762	46.433
16) tc 4,4'-DDD	6.195	6.959	5330493	18332536	0.162m	0.209m#
17) tcm 4,4'-DDT	6.586	7.348	3665.8E6	8675.3E6	98.125	91.342
18) tc Endrin Aldeh	6.942	7.467	33390397	82527284	0.970m	0.952m
20) tc Methoxychlor	7.250	8.131	3926.8E6	9103.6E6	216.574	179.278
21) tc Endrin Keton	7.798	8.359	36447924	83269056	0.812m	0.753m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1143.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 06:50 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:08:46 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1144.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 07:09 pm
 Operator : AFelser
 Sample : 8081 LL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:10 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

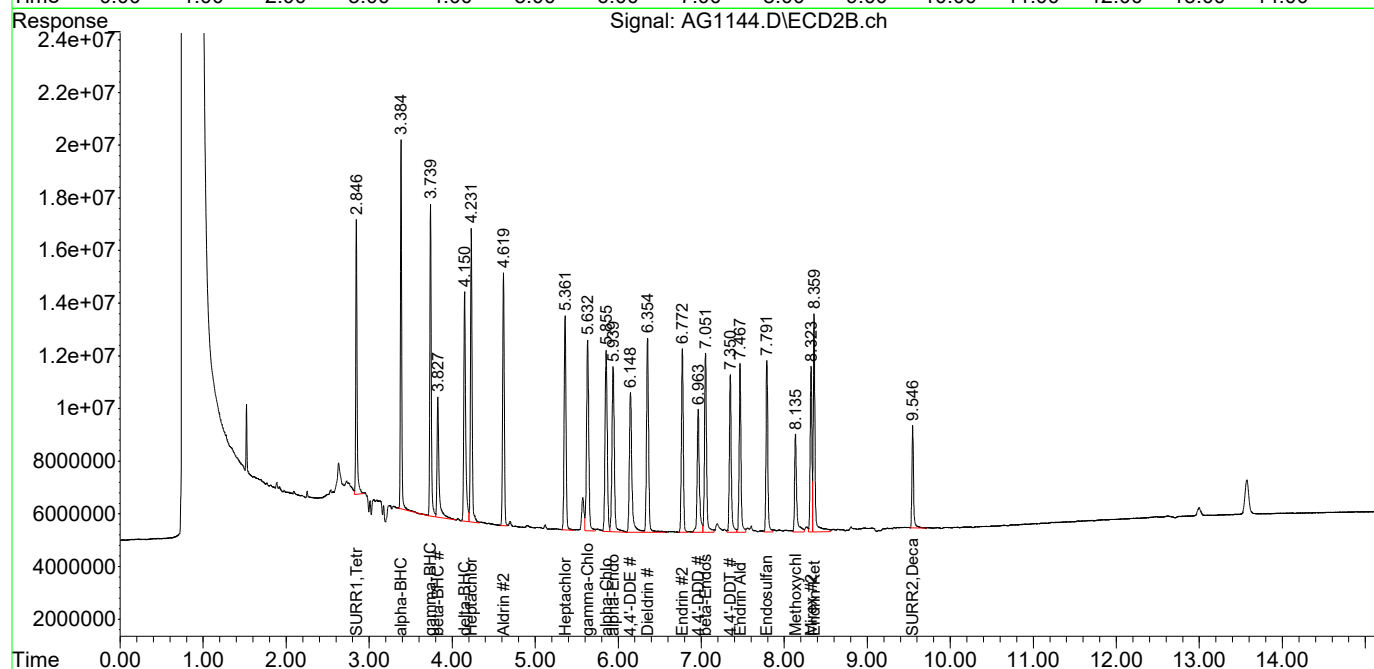
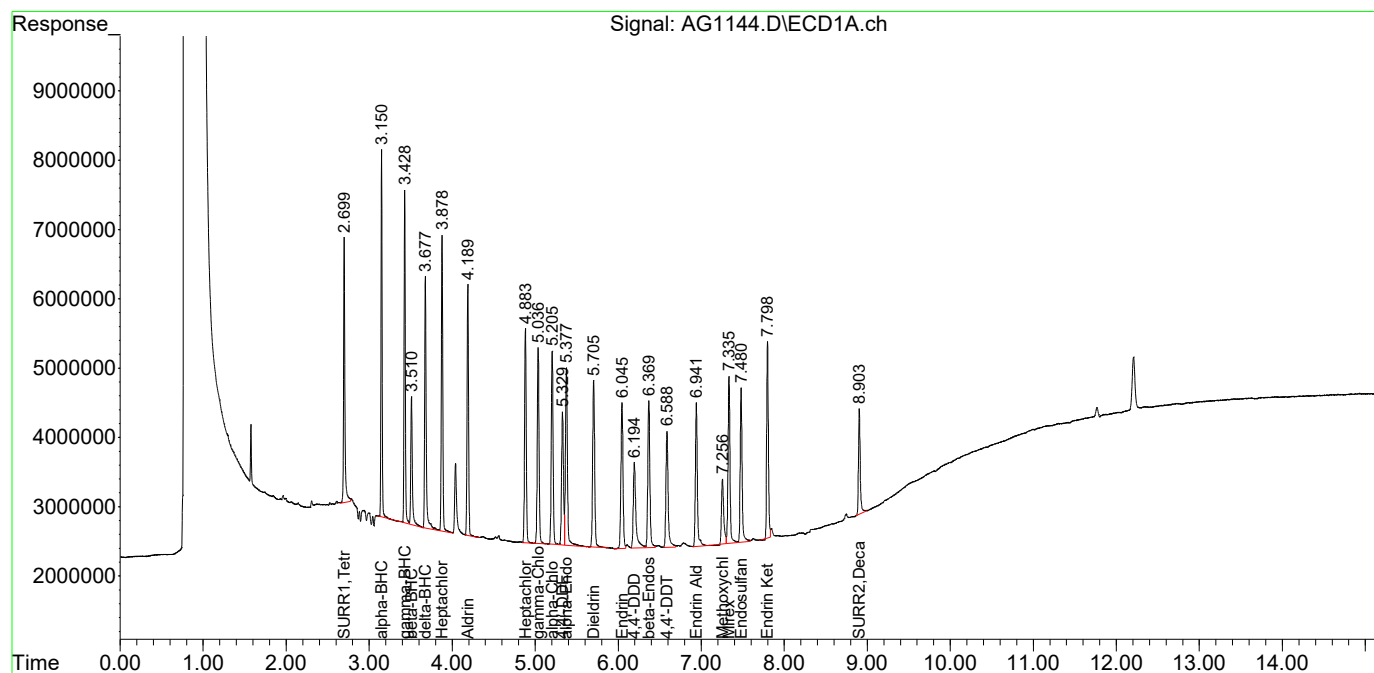
System Monitoring Compounds						
1) S SURR1,Tet...	2.700	2.846	41624887	112.0E6	1.037	1.060
Spiked Amount	100.000	Range	30 - 150	Recovery =	1.04%#	1.06%#
23) S SURR2,Dec...	8.903	9.547	22424120	54095588	1.037	1.231
Spiked Amount	100.000	Range	30 - 150	Recovery =	1.04%#	1.23%#
Target Compounds						
2) tc alpha-BHC	3.150	3.385	50099507	146.5E6	0.785	0.877
3) tcm gamma-BHC (L	3.429	3.740	49378228	143.3E6	0.826	0.925
4) tcm Heptachlor	3.879	4.231	50867910	153.3E6	0.901	1.032
5) tcm Aldrin	4.189	4.619	44950815	131.7E6	0.821	0.945
6) tc beta-BHC	3.511	3.828	24363167	76011752	1.003	1.186
7) tc delta-BHC	3.678	4.151	46539553	135.3E6	0.799	0.892
8) tc Heptachlor E	4.883	5.361	43741946	129.7E6	0.886	1.039
9) tc alpha-Endosu	5.377	5.939	43621168	123.8E6	0.881	1.060
10) tc gamma-Chlord	5.037	5.633	42514896	132.2E6	0.867	1.070
11) tc alpha-Chlord	5.206	5.855	42030380	128.3E6	0.877	1.065
12) tc 4,4'-DDE	5.330	6.148	30393729	112.1E6	0.731	0.975 #
13) tcm Dieldrin	5.705	6.354	40706917	128.7E6	0.798	0.982
14) tcm Endrin	6.046	6.773	35999913	108.6E6	0.846	1.029
15) tc beta-Endosul	6.370	7.052	36928432	115.1E6	0.844	1.048
16) tc 4,4'-DDD	6.195	6.964	26961634	88305682	0.760	0.977 #
17) tcm 4,4'-DDT	6.587	7.350	30968827	94959825	0.765	0.968 #
18) tc Endrin Aldeh	6.941	7.468	34232765	97740066	0.942	1.124
19) tc Endosulfan S	7.481	7.791	35652049	98967990	0.894	1.069
20) tc Methoxychlor	7.256	8.135	17403566	63539470	0.935	1.301 #
21) tc Endrin Keton	7.799	8.359	39712157	123.6E6	0.838	1.108 #
22) tc Mirex	7.335	8.323	38850855	89190495	1.041	1.243
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1144.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 07:09 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:10 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: DB-CLPII
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1145.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 07:28 pm
 Operator : AFelser
 Sample : 8081 L
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:13 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

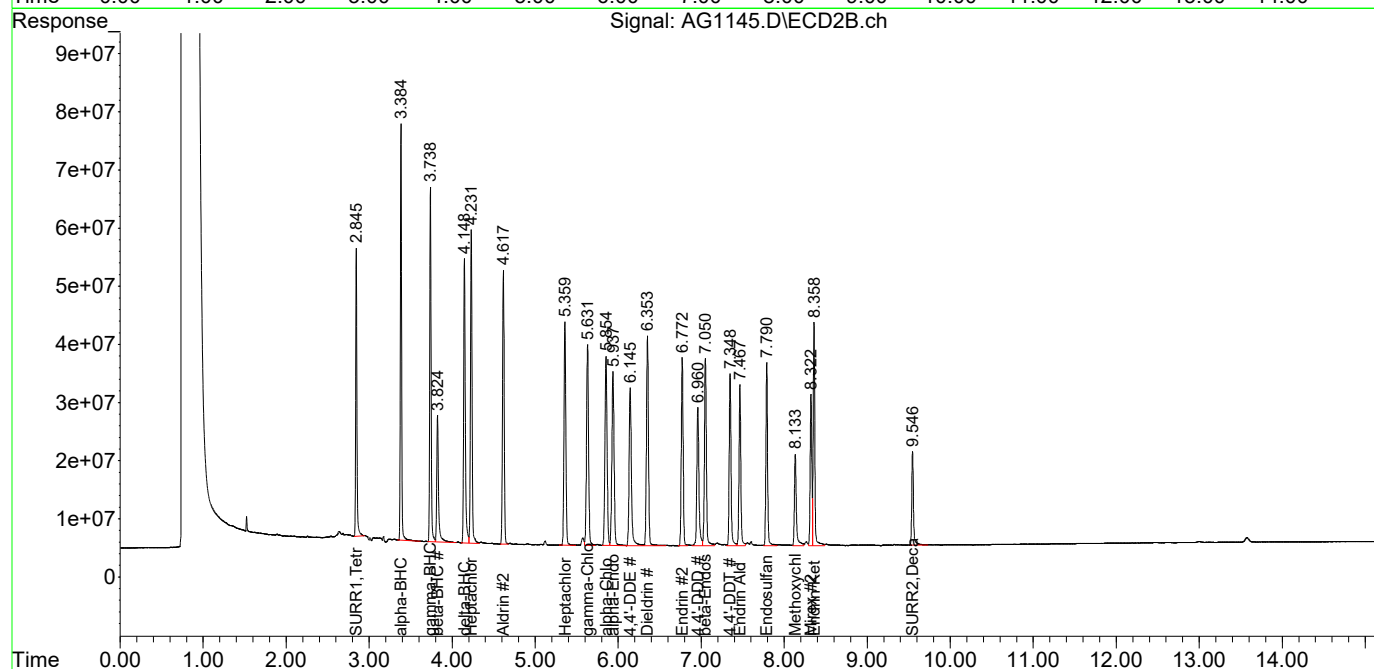
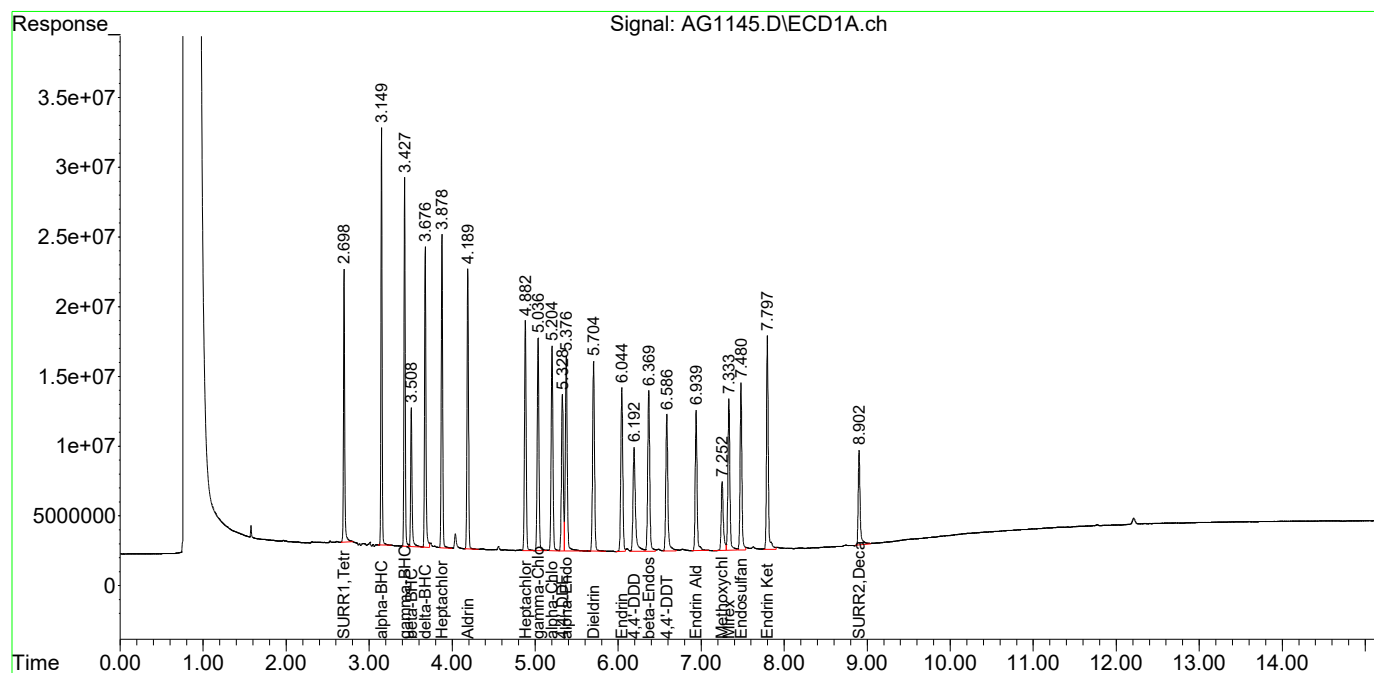
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.698	2.845	195.7E6	507.4E6	4.877	4.801
Spiked Amount	100.000 Range	30 - 150	Recovery =		4.88%#	4.80%#
23) S SURR2,Dec...	8.902	9.546	107.7E6	228.0E6	4.979	5.188
Spiked Amount	100.000 Range	30 - 150	Recovery =		4.98%#	5.19%#
Target Compounds						
2) tc alpha-BHC	3.150	3.384	282.4E6	740.9E6	4.426	4.438
3) tcm gamma-BHC (L	3.428	3.739	269.1E6	702.1E6	4.505	4.532
4) tcm Heptachlor	3.878	4.231	263.2E6	714.8E6	4.663	4.814
5) tcm Aldrin	4.189	4.618	245.8E6	645.3E6	4.489	4.628
6) tc beta-BHC	3.508	3.824	116.3E6	328.3E6	4.790	5.122
7) tc delta-BHC	3.676	4.149	248.3E6	676.1E6	4.262	4.458
8) tc Heptachlor E	4.883	5.359	228.4E6	602.1E6	4.628	4.823
9) tc alpha-Endosu	5.376	5.938	222.9E6	557.8E6	4.500	4.777
10) tc gamma-Chlord	5.037	5.632	222.0E6	592.1E6	4.527	4.792
11) tc alpha-Chlord	5.205	5.855	220.0E6	583.4E6	4.591	4.840
12) tc 4,4'-DDE	5.329	6.146	175.3E6	527.7E6	4.214	4.591
13) tcm Dieldrin	5.705	6.354	219.7E6	604.4E6	4.308	4.608
14) tcm Endrin	6.045	6.772	191.6E6	508.6E6	4.501	4.819
15) tc beta-Endosul	6.369	7.051	194.7E6	520.5E6	4.452	4.737
16) tc 4,4'-DDD	6.192	6.960	151.6E6	422.3E6	4.271	4.672
17) tcm 4,4'-DDT	6.586	7.348	171.9E6	450.2E6	4.249	4.588
18) tc Endrin Aldeh	6.940	7.467	161.7E6	411.2E6	4.449	4.731
19) tc Endosulfan S	7.480	7.790	177.8E6	445.6E6	4.457	4.815
20) tc Methoxychlor	7.253	8.134	89362620	258.3E6	4.803	5.291
21) tc Endrin Keton	7.798	8.359	227.0E6	528.6E6	4.791	4.737
22) tc Mirex	7.334	8.323	180.8E6	354.4E6	4.845	4.939
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1145.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 07:28 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:13 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: DB-CLPII
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1146.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 07:47 pm
 Operator : AFelser
 Sample : 8081 ML
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:16 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

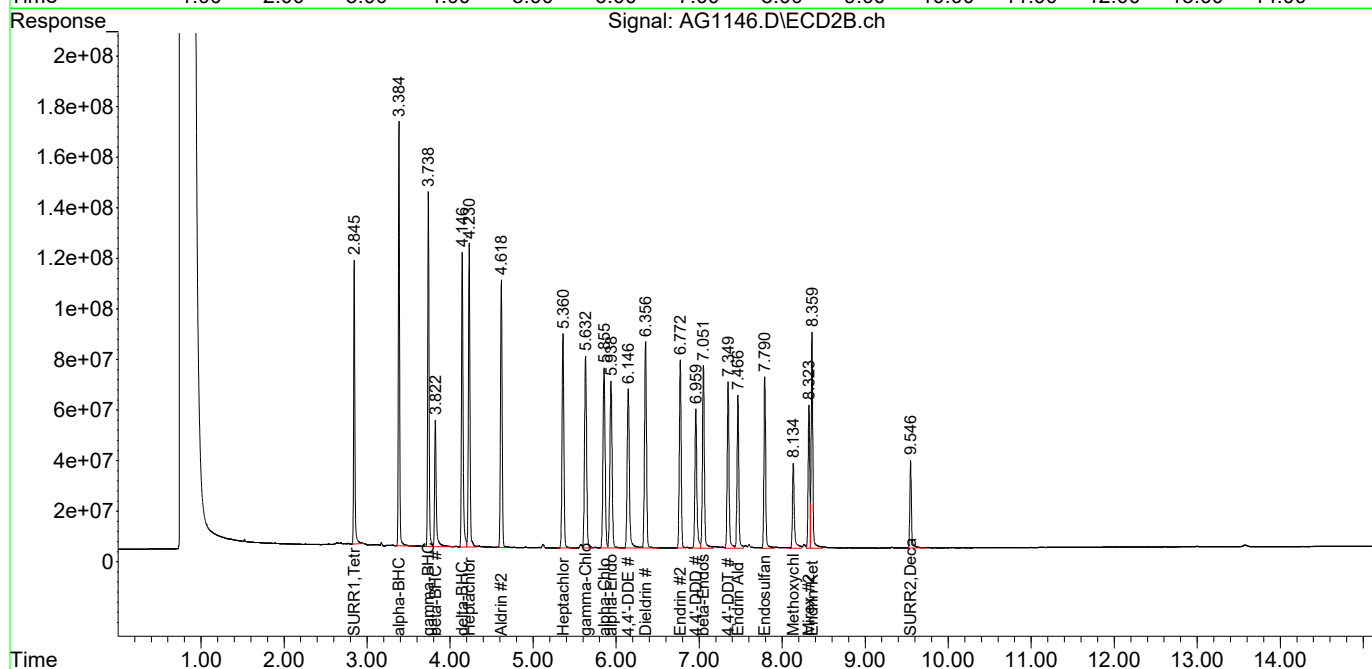
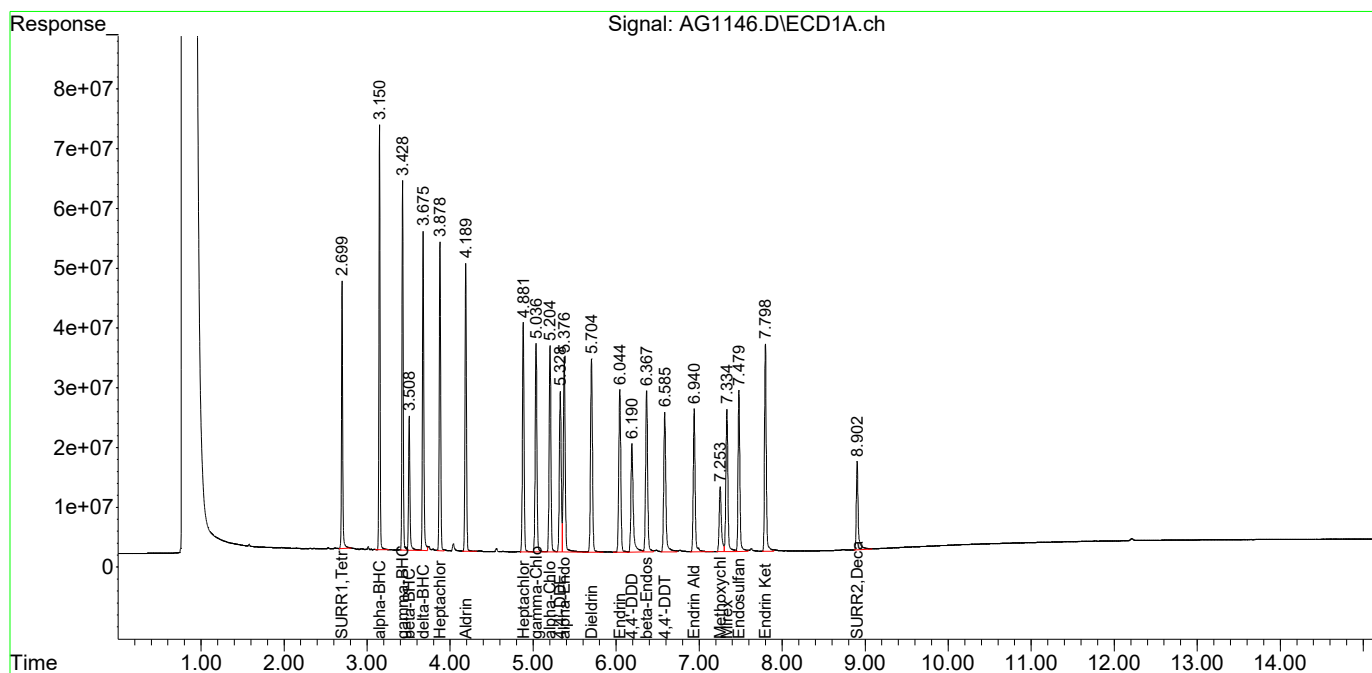
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.699	2.846	438.0E6	1115.4E6	10.914	10.553
Spiked Amount	100.000 Range	30 - 150	Recovery	=	10.91%#	10.55%#
23) S SURR2,Dec...	8.903	9.546	238.9E6	479.9E6	11.042	10.922
Spiked Amount	100.000 Range	30 - 150	Recovery	=	11.04%#	10.92%#
Target Compounds						
2) tc alpha-BHC	3.150	3.385	669.2E6	1696.9E6	10.486	10.165
3) tcm gamma-BHC (L	3.428	3.739	630.6E6	1588.4E6	10.555	10.253
4) tcm Heptachlor	3.879	4.231	606.5E6	1576.9E6	10.747	10.620
5) tcm Aldrin	4.189	4.618	579.0E6	1455.3E6	10.577	10.438
6) tc beta-BHC	3.508	3.823	261.6E6	697.3E6	10.775	10.879
7) tc delta-BHC	3.676	4.147	603.6E6	1545.8E6	10.360	10.192
8) tc Heptachlor E	4.882	5.361	529.4E6	1325.1E6	10.725	10.613
9) tc alpha-Endosu	5.377	5.938	524.9E6	1231.7E6	10.595	10.548
10) tc gamma-Chlord	5.036	5.632	517.1E6	1304.8E6	10.546	10.562
11) tc alpha-Chlord	5.205	5.855	510.9E6	1279.1E6	10.662	10.611
12) tc 4,4'-DDE	5.328	6.146	422.9E6	1189.5E6	10.166	10.348
13) tcm Dieldrin	5.704	6.356	528.5E6	1357.3E6	10.364	10.348
14) tcm Endrin	6.045	6.773	454.9E6	1129.4E6	10.690	10.702
15) tc beta-Endosul	6.368	7.051	456.3E6	1159.1E6	10.432	10.548
16) tc 4,4'-DDD	6.191	6.960	357.1E6	924.5E6	10.062	10.228
17) tcm 4,4'-DDT	6.586	7.349	411.5E6	1016.3E6	10.172	10.357
18) tc Endrin Aldeh	6.940	7.467	375.7E6	907.5E6	10.338	10.441
19) tc Endosulfan S	7.479	7.790	416.2E6	983.7E6	10.434	10.628
20) tc Methoxychlor	7.253	8.134	199.7E6	540.8E6	10.732	11.075
21) tc Endrin Keton	7.798	8.359	504.5E6	1173.4E6	10.648	10.516
22) tc Mirex	7.335	8.323	402.8E6	768.6E6	10.792	10.711
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1146.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 07:47 pm
 Operator : AFelser
 Sample : 8081 ML
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:16 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1147.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 08:06 pm
 Operator : AFelser
 Sample : 8081 M
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:40:47 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Tue Mar 14 11:39:15 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

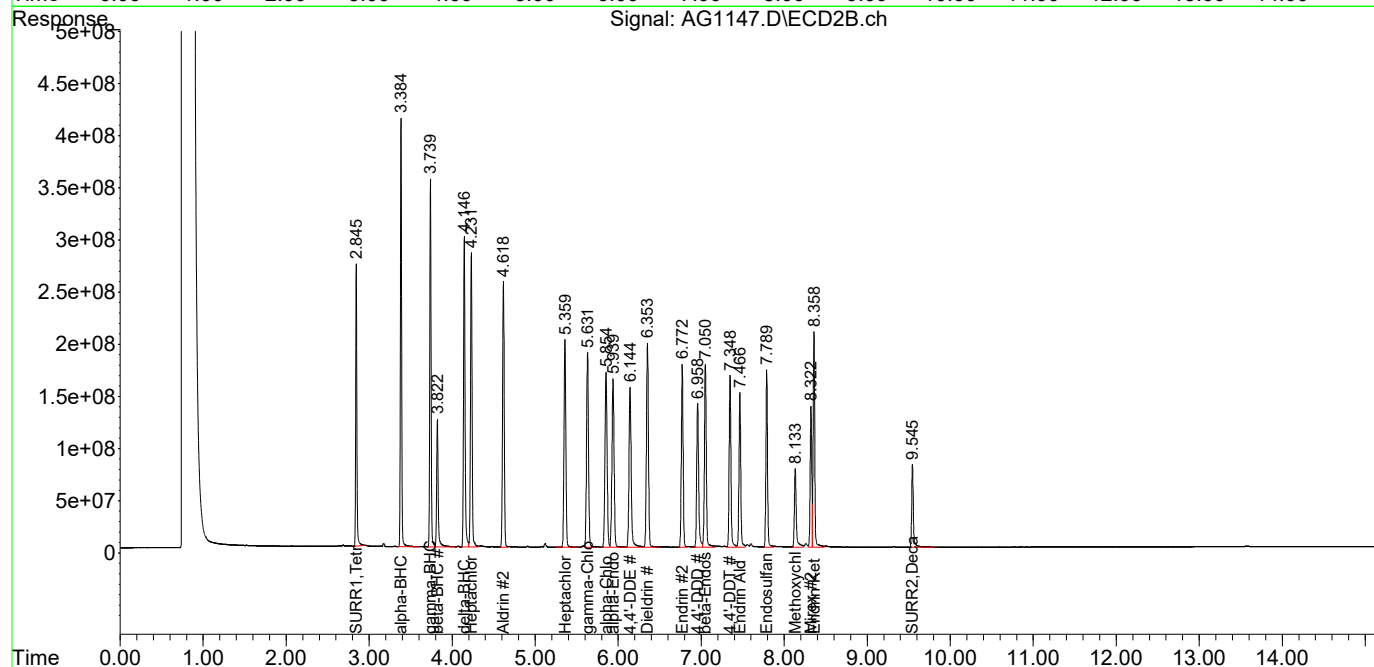
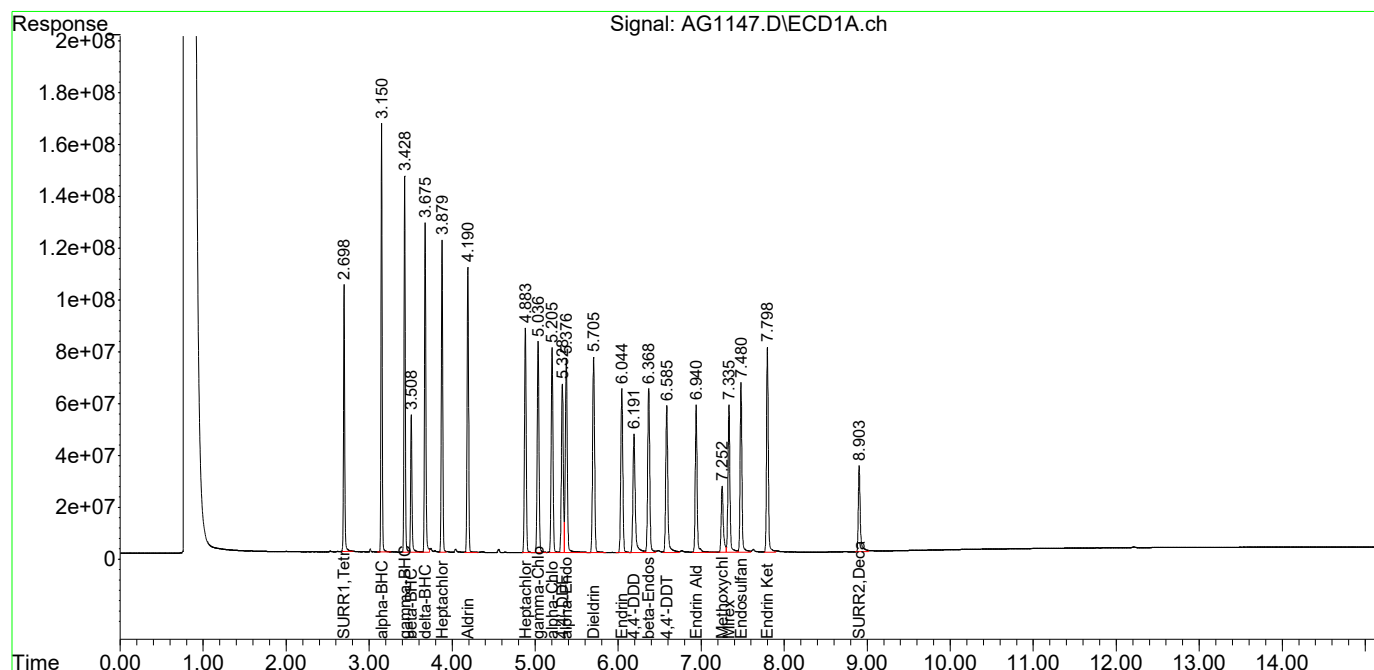
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.699	2.845	1003.3E6	2642.3E6	30.513	28.645
Spiked Amount	100.000 Range	30 - 150	Recovery =	30.51%	28.65%#	
23) S SURR2,Dec...	8.903	9.545	540.8E6	1098.5E6	34.037	34.677
Spiked Amount	100.000 Range	30 - 150	Recovery =	34.04%	34.68%	
Target Compounds						
2) tc alpha-BHC	3.151	3.385	1595.5E6	4173.3E6	32.186	29.809
3) tcm gamma-BHC (L	3.428	3.739	1493.6E6	3872.8E6	31.739	29.555
4) tcm Heptachlor	3.879	4.232	1410.9E6	3712.0E6	32.033	29.097
5) tcm Aldrin	4.190	4.618	1368.7E6	3485.6E6	32.696	29.913
6) tc beta-BHC	3.508	3.823	607.0E6	1602.4E6	30.391	28.173
7) tc delta-BHC	3.676	4.147	1456.6E6	3791.6E6	31.885	29.227
8) tc Heptachlor E	4.883	5.360	1234.0E6	3121.3E6	31.784	29.698
9) tc alpha-Endosu	5.376	5.939	1238.5E6	2919.4E6	33.305	29.664
10) tc gamma-Chlord	5.037	5.632	1225.7E6	3088.6E6	32.846	29.410
11) tc alpha-Chlord	5.205	5.855	1198.1E6	3013.7E6	32.737	29.680
12) tc 4,4'-DDE	5.328	6.144	1039.9E6	2873.6E6	34.586	30.030
13) tcm Dieldrin	5.705	6.353	1274.7E6	3279.1E6	33.719	30.315
14) tcm Endrin	6.044	6.772	1063.9E6	2638.2E6	30.407	27.784
15) tc beta-Endosul	6.369	7.050	1093.5E6	2747.1E6	34.107	31.464
16) tc 4,4'-DDD	6.191	6.958	887.2E6	2259.6E6	34.545	32.123
17) tcm 4,4'-DDT	6.586	7.348	1011.4E6	2453.1E6	35.632	33.199
18) tc Endrin Aldeh	6.940	7.467	908.6E6	2173.0E6	36.532	33.825
19) tc Endosulfan S	7.480	7.790	997.3E6	2313.8E6	34.072	32.283
20) tc Methoxychlor	7.253	8.133	465.2E6	1220.7E6	32.180	31.825
21) tc Endrin Keton	7.798	8.358	1184.5E6	2789.7E6	34.290	34.118
22) tc Mirex	7.335	8.323	933.1E6	1794.0E6	33.751	31.796
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1147.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 08:06 pm
Operator : AFelser
Sample : 8081 M
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:40:47 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Tue Mar 14 11:39:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: DB-CLPII
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1148.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 08:25 pm
 Operator : AFelser
 Sample : 8081 MH
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:19 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

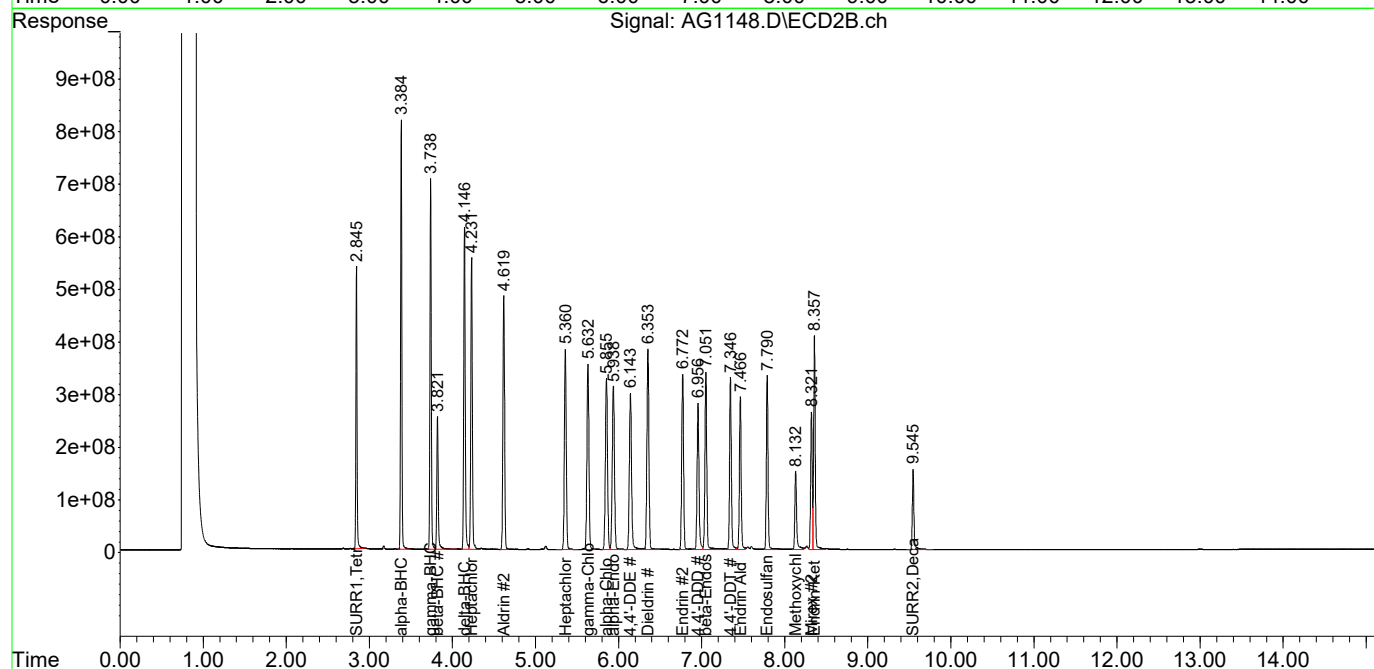
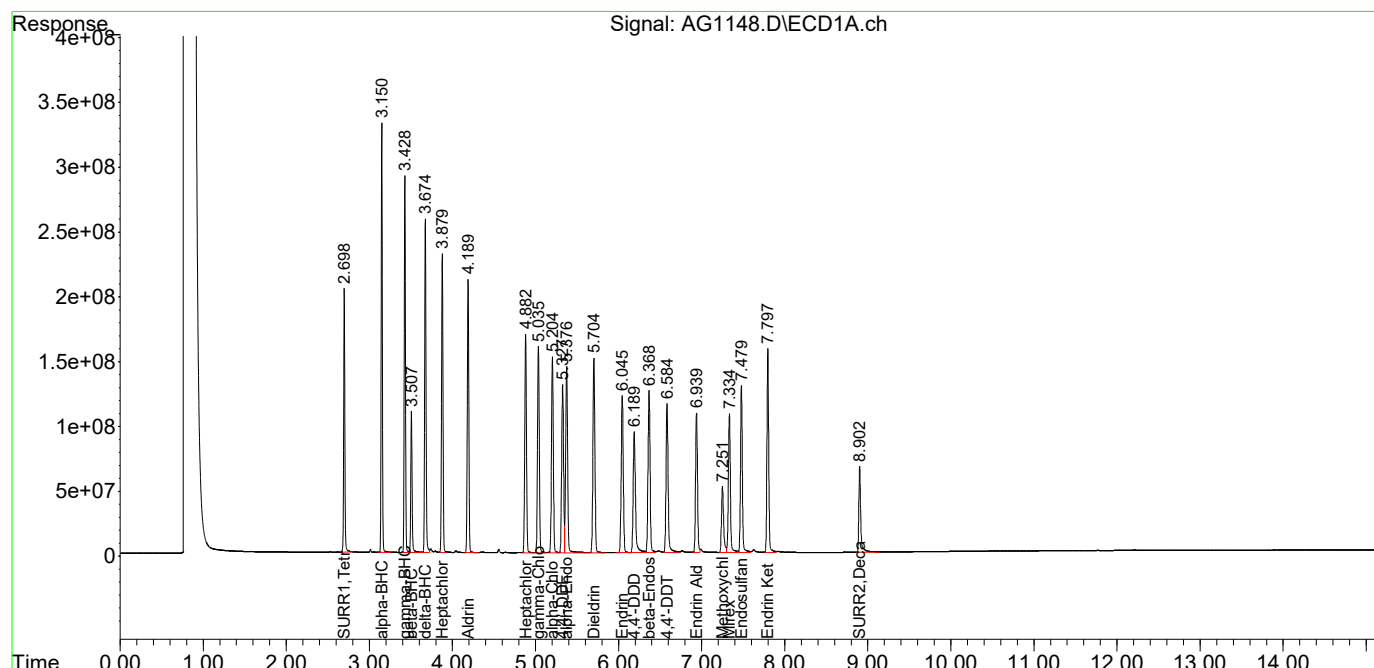
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.699	2.845	1949.9E6	5104.4E6	48.585	48.294
Spiked Amount	100.000 Range	30 - 150	Recovery	=	48.59%	48.29%
23) S SURR2,Dec...	8.902	9.545	1054.1E6	2054.8E6	48.725	46.765
Spiked Amount	100.000 Range	30 - 150	Recovery	=	48.73%	46.77%
Target Compounds						
2) tc alpha-BHC	3.150	3.385	3211.0E6	8403.7E6	50.313	50.343
3) tcm gamma-BHC (L	3.428	3.739	2987.2E6	7736.8E6	49.999	49.942
4) tcm Heptachlor	3.879	4.232	2765.3E6	7208.8E6	48.999	48.550
5) tcm Aldrin	4.190	4.619	2674.3E6	6789.4E6	48.849	48.697
6) tc beta-BHC	3.507	3.821	1197.2E6	3099.2E6	49.313	48.351
7) tc delta-BHC	3.675	4.146	2933.2E6	7660.6E6	50.344	50.511
8) tc Heptachlor E	4.882	5.361	2406.6E6	6074.0E6	48.758	48.651
9) tc alpha-Endosu	5.376	5.938	2382.4E6	5680.7E6	48.088	48.646
10) tc gamma-Chlord	5.036	5.633	2395.4E6	6008.7E6	48.859	48.637
11) tc alpha-Chlord	5.205	5.855	2327.7E6	5842.4E6	48.572	48.465
12) tc 4,4'-DDE	5.327	6.144	2076.0E6	5544.3E6	49.907	48.235
13) tcm Dieldrin	5.705	6.354	2510.2E6	6422.4E6	49.232	48.964
14) tcm Endrin	6.045	6.773	2106.1E6	5187.5E6	49.490	49.158
15) tc beta-Endosul	6.368	7.051	2159.7E6	5385.9E6	49.375	49.014
16) tc 4,4'-DDD	6.189	6.957	1786.1E6	4444.5E6	50.330	49.172
17) tcm 4,4'-DDT	6.584	7.347	2025.3E6	4819.2E6	50.061	49.114
18) tc Endrin Aldeh	6.939	7.466	1725.4E6	4207.8E6	47.476	48.411
19) tc Endosulfan S	7.479	7.790	1945.2E6	4561.7E6	48.764	49.289
20) tc Methoxychlor	7.251	8.132	913.2E6	2285.3E6	49.079	46.803
21) tc Endrin Keton	7.797	8.358	2275.0E6	5401.6E6	48.017	48.407
22) tc Mirex	7.335	8.322	1783.8E6	3464.4E6	47.791	48.278
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1148.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 08:25 pm
Operator : AFelser
Sample : 8081 MH
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:19 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP
Signal #1 Info : 0.32mm 30m
Signal #2 Phase: DB-CLPII
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1149.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 08:44 pm
 Operator : AFelser
 Sample : 8081 H
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:22 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

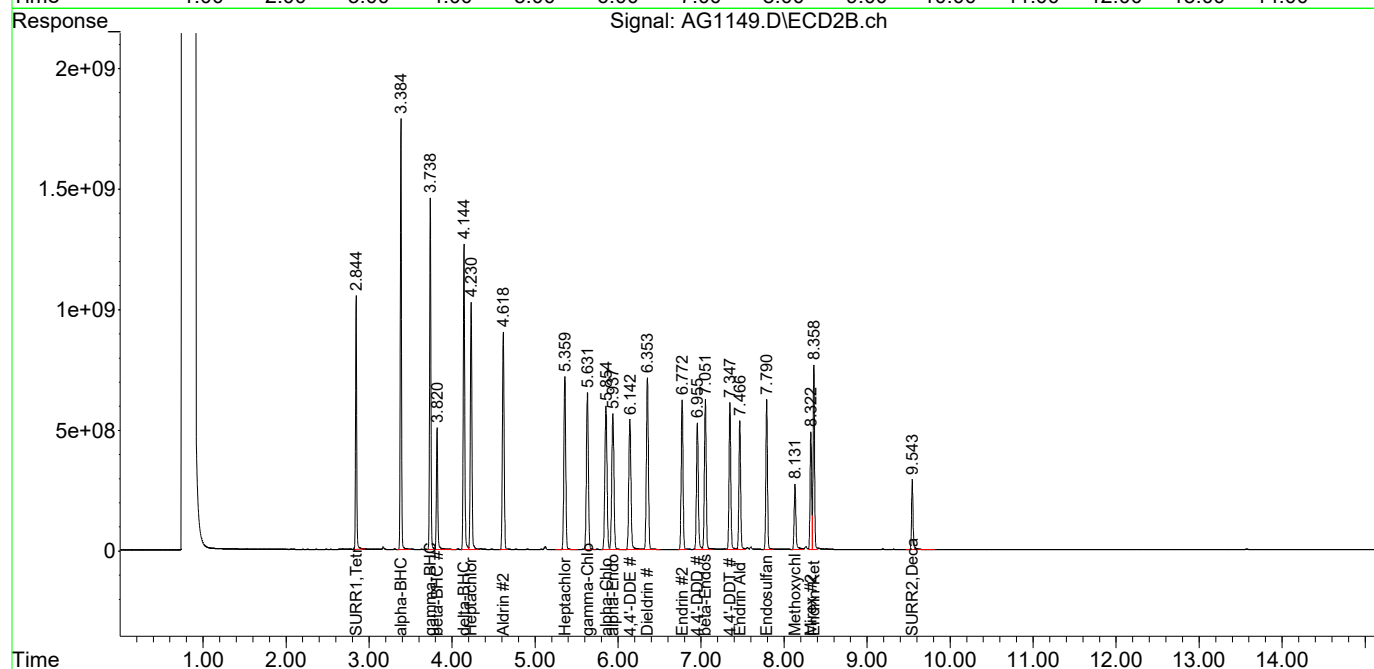
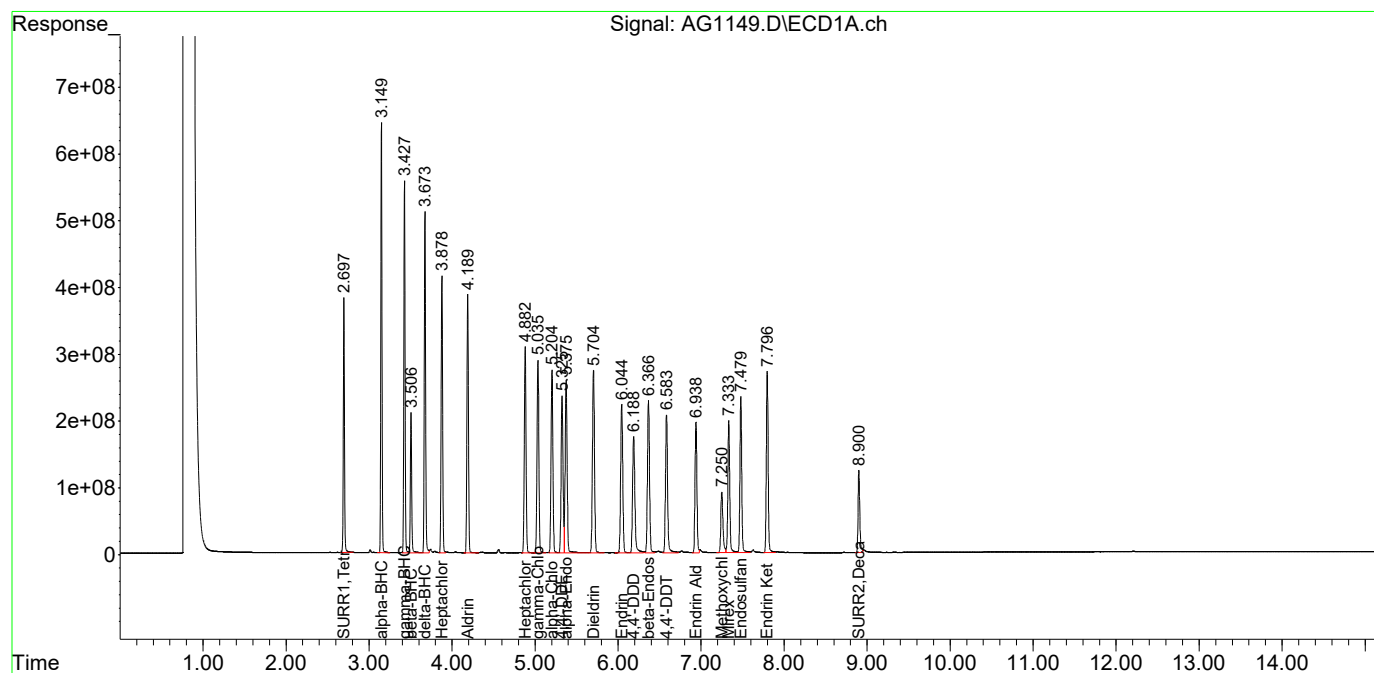
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.697	2.845	3657.4E6	9784.4E6	91.131	92.573
Spiked Amount	100.000 Range	30 - 150	Recovery	=	91.13%	92.57%
23) S SURR2,Dec...	8.901	9.544	1767.4E6	3749.2E6	81.694	85.327
Spiked Amount	100.000 Range	30 - 150	Recovery	=	81.69%	85.33%
Target Compounds						
2) tc alpha-BHC	3.149	3.385	6258.5E6	17341.4E6	98.063	103.884
3) tcm gamma-BHC (L	3.427	3.739	5770.6E6	15561.2E6	96.587	100.451
4) tcm Heptachlor	3.878	4.231	5162.7E6	13594.5E6	91.480	91.557
5) tcm Aldrin	4.189	4.618	4955.7E6	12727.4E6	90.520	91.286
6) tc beta-BHC	3.506	3.820	2297.4E6	5938.3E6	94.626	92.645
7) tc delta-BHC	3.674	4.145	5678.3E6	15266.2E6	97.460	100.659
8) tc Heptachlor E	4.882	5.359	4432.6E6	11274.5E6	89.804	90.304
9) tc alpha-Endosu	5.375	5.938	4328.0E6	10533.2E6	87.362	90.200
10) tc gamma-Chlord	5.036	5.631	4402.8E6	11109.6E6	89.803	89.925
11) tc alpha-Chlord	5.205	5.854	4246.8E6	10743.3E6	88.618	89.120
12) tc 4,4'-DDE	5.326	6.143	3807.8E6	10042.0E6	91.541	87.366
13) tcm Dieldrin	5.705	6.354	4639.2E6	11930.5E6	90.986	90.958
14) tcm Endrin	6.044	6.772	3884.1E6	9577.0E6	91.270	90.754
15) tc beta-Endosul	6.367	7.051	3922.3E6	9699.1E6	89.671	88.266
16) tc 4,4'-DDD	6.189	6.956	3347.0E6	8258.1E6	94.312	91.366
17) tcm 4,4'-DDT	6.584	7.347	3669.3E6	8872.9E6	90.699	90.426
18) tc Endrin Aldeh	6.939	7.466	3145.6E6	7817.5E6	86.553	89.940
19) tc Endosulfan S	7.479	7.790	3522.4E6	8454.2E6	88.302	91.346
20) tc Methoxychlor	7.250	8.131	1667.3E6	4086.2E6	89.606	83.685
21) tc Endrin Keton	7.797	8.359	4096.8E6	9739.1E6	86.467	87.278
22) tc Mirex	7.333	8.322	3133.4E6	6412.3E6	83.950	89.359
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1149.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 08:44 pm
 Operator : AFelser
 Sample : 8081 H
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:22 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1150.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 09:03 pm
 Operator : AFelser
 Sample : 8081 ICV
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:57:01 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:56:46 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
2 tc alpha-BHC	10.000	9.472	5.3	86	0.00
3 tcm gamma-BHC (L	10.000	9.216	7.8	84	0.00
4 tcm Heptachlor	10.000	9.733	2.7	88	0.00
5 tcm Aldrin	10.000	9.633	3.7	86	0.00
6 tc beta-BHC	10.000	9.469	5.3	87	0.00
7 TC delta-BHC	10.000	8.464	15.4	77	0.00
8 tc Heptachlor E	10.000	9.760	2.4	87	0.00
9 tc alpha-Endosu	10.000	9.868	1.3	88	0.00
10 tc gamma-Chlord	10.000	9.942	0.6	90	0.00
11 tc alpha-Chlord	10.000	9.925	0.7	89	0.00
12 tc 4,4'-DDE	10.000	9.722	2.8	88	0.00
13 tcm Dieldrin	10.000	9.905	1.0	89	0.00
14 tcm Endrin	10.000	10.171	-1.7	91	0.00
15 tc beta-Endosul	10.000	9.993	0.1	90	0.00
16 tc 4,4'-DDD	10.000	9.311	6.9	86	0.00
17 tcm 4,4'-DDT	10.000	10.027	-0.3	91	0.00
18 tc Endrin Aldeh	10.000	10.234	-2.3	94	0.00
19 tc Endosulfan S	10.000	10.018	-0.2	91	0.00
20 tc Methoxychlor	10.000	9.621	3.8	87	0.00
21 tc Endrin Keton	10.000	10.206	-2.1	91	0.00
22 tc Mirex	10.000	9.699	3.0	88	0.00

Signal #2

2 tc alpha-BHC	10.000	9.366	6.3	89	0.00
3 tcm gamma-BHC (L	10.000	9.111	8.9	87	0.00
4 tcm Heptachlor	10.000	9.758	2.4	91	0.00
5 tcm Aldrin	10.000	9.609	3.9	89	0.00
6 tc beta-BHC	10.000	9.652	3.5	92	0.00
7 tc delta-BHC	10.000	8.461	15.4	81	0.00
8 tc Heptachlor E	10.000	9.821	1.8	92	0.00
9 tc alpha-Endosu	10.000	9.758	2.4	92	0.00
10 tc gamma-Chlord	10.000	9.996	0.0	94	0.00
11 tc alpha-Chlord	10.000	9.933	0.7	93	0.00
12 tc 4,4'-DDE	10.000	10.058	-0.6	93	0.00
13 tcm Dieldrin	10.000	9.861	1.4	93	0.00
14 tcm Endrin	10.000	10.330	-3.3	96	0.00
15 tc beta-Endosul	10.000	10.101	-1.0	94	0.00
16 tc 4,4'-DDD	10.000	9.611	3.9	91	0.00
17 tcm 4,4'-DDT	10.000	10.224	-2.2	96	0.00
18 tc Endrin Aldeh	10.000	10.311	-3.1	98	0.00
19 tc Endosulfan S	10.000	9.937	0.6	93	0.00
20 tc Methoxychlor	10.000	9.861	1.4	93	0.00
21 tc Endrin Keton	10.000	10.000	0.0	94	0.00

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1150.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 09:03 pm
Operator : AFelser
Sample : 8081 ICV
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:57:01 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:56:46 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
22 tc Mirex	10.000	9.566	4.3	92	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-2.70#
23 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-8.90#
24 L8C Toxaphene	250.000	0.000	100.0#	0	-5.84#
25 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-6.19#
26 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-6.53#
27 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-7.07#
28 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-7.35#
29 L9C Chlordane	50.000	0.000	100.0#	0	-3.80#
30 L9C Chlordane{2}	50.000	0.000	100.0#	0	-4.34#
31 L9C Chlordane{3}	50.000	0.000	100.0#	0	-4.81#
32 L9C Chlordane{4}	50.000	0.000	100.0#	0	-5.04#
33 L9C Chlordane{5}	50.000	0.000	100.0#	0	-5.20#
34 L10CDechlorane{1}	10.000	0.000	100.0#	0	-11.77#
35 L10CDechlorane{2}	10.000	0.000	100.0#	0	-12.20#

Signal #2

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-2.85#
23 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-9.55#
24 L8C Toxaphene	250.000	0.000	100.0#	0	-6.35#
25 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-6.50#
26 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-7.16#
27 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-7.39#
28 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-7.58#
29 L9C Chlordane	50.000	0.000	100.0#	0	-4.07#
30 L9C Chlordane{2}	50.000	0.000	100.0#	0	-4.80#
31 L9C Chlordane{3}	50.000	0.000	100.0#	0	-5.63#
32 L9C Chlordane{4}	50.000	0.000	100.0#	0	-5.78#
33 L9C Chlordane{5}	50.000	0.000	100.0#	0	-5.85#
34 L10CDechlorane{1}	10.000	0.000	100.0#	0	-12.99#
35 L10CDechlorane{2}	10.000	0.000	100.0#	0	-13.57#

(#) = Out of Range

SPCC's out = 0 CCC's out = 24

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1150.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 09:03 pm
 Operator : AFelser
 Sample : 8081 ICV
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:57:01 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:56:46 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

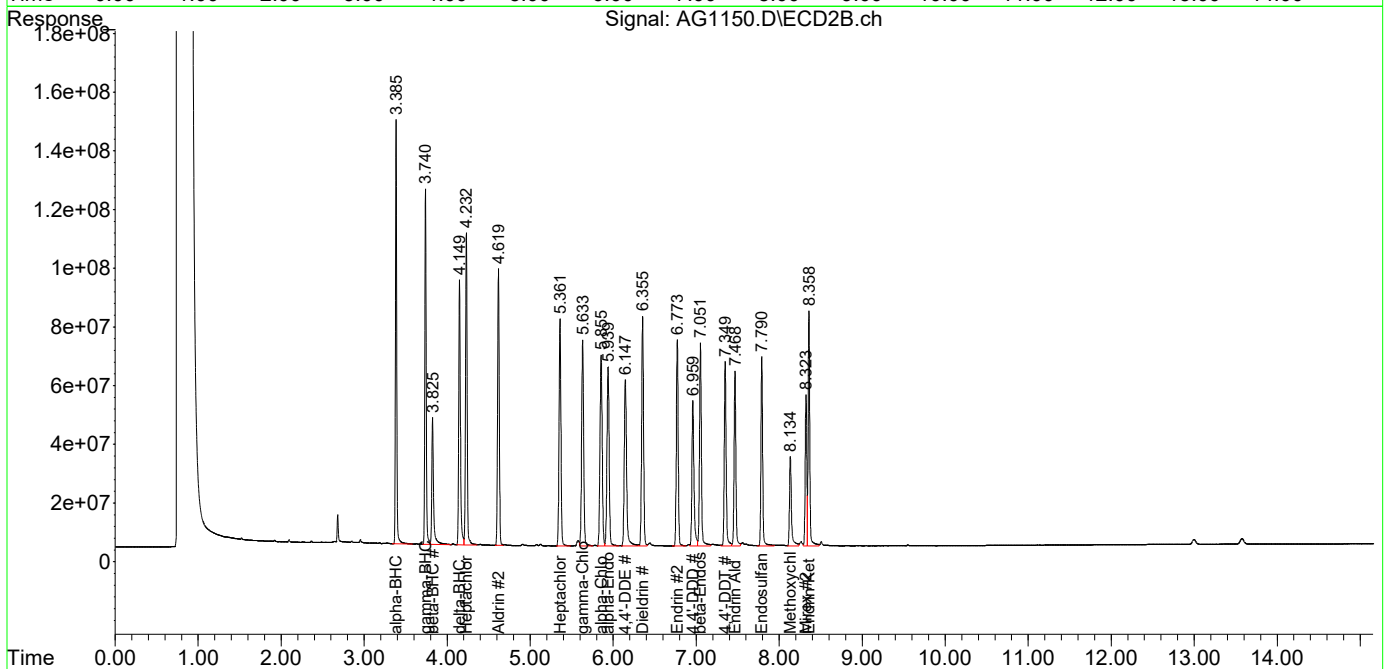
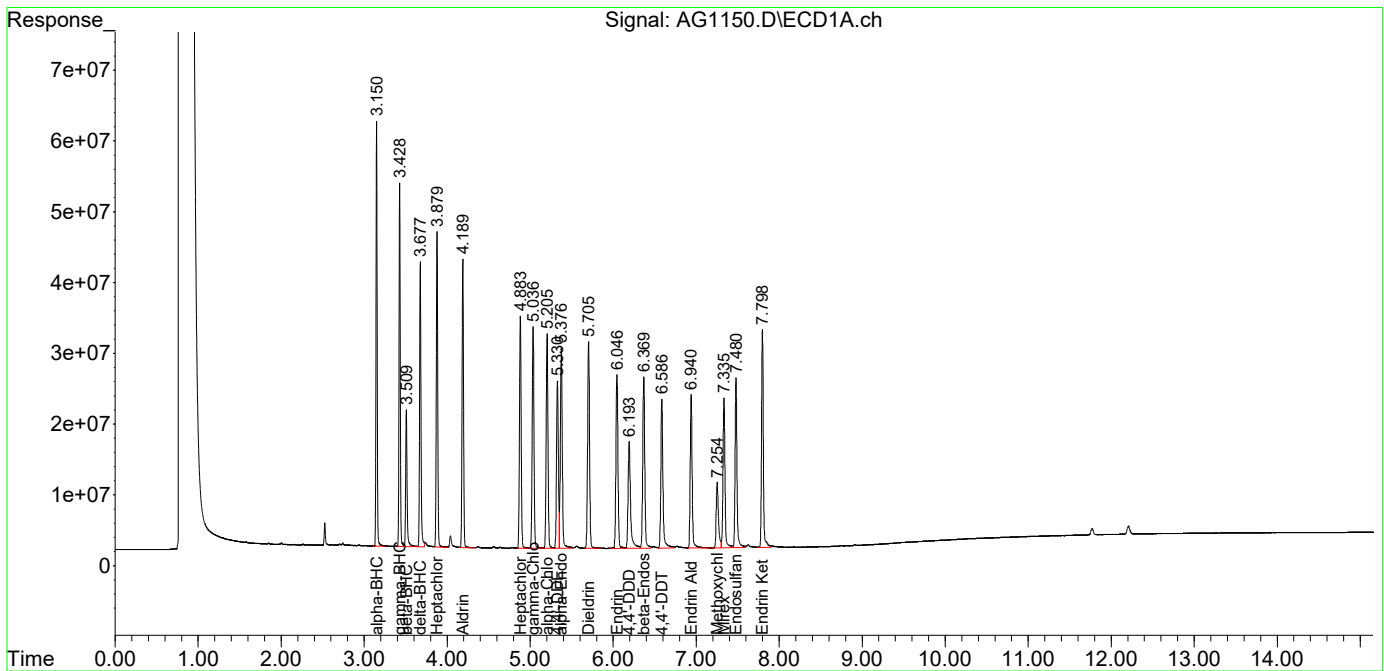
2) tc alpha-BHC	3.151	3.386	574.9E6	1518.4E6	9.472	9.366
3) tcm gamma-BHC (L	3.429	3.740	527.5E6	1378.5E6	9.216	9.111
4) tcm Heptachlor	3.879	4.233	531.3E6	1435.2E6	9.733	9.758
5) tcm Aldrin	4.190	4.619	497.4E6	1295.3E6	9.633	9.609
6) tc beta-BHC	3.509	3.825	228.8E6	638.4E6	9.469	9.652
7) tc delta-BHC	3.677	4.150	465.9E6	1244.7E6	8.464	8.461
8) tc Heptachlor E	4.883	5.361	462.3E6	1213.9E6	9.760	9.821
9) tc alpha-Endosu	5.377	5.939	462.4E6	1129.1E6	9.868	9.758
10) tc gamma-Chlord	5.036	5.633	463.3E6	1226.0E6	9.942	9.996
11) tc alpha-Chlord	5.205	5.855	453.4E6	1188.3E6	9.925	9.933
12) tc 4,4'-DDE	5.330	6.147	370.9E6	1111.0E6	9.722	10.058
13) tcm Dieldrin	5.705	6.355	470.6E6	1256.0E6	9.905	9.861
14) tcm Endrin	6.046	6.773	412.5E6	1081.6E6	10.171	10.330
15) tc beta-Endosul	6.370	7.051	412.5E6	1093.9E6	9.993	10.101
16) tc 4,4'-DDD	6.193	6.960	306.7E6	844.3E6	9.311	9.611
17) tcm 4,4'-DDT	6.587	7.350	374.6E6	971.0E6	10.027	10.224
18) tc Endrin Aldeh	6.940	7.468	352.1E6	893.6E6	10.234	10.311
19) tc Endosulfan S	7.480	7.790	378.8E6	918.8E6	10.018	9.937
20) tc Methoxychlor	7.254	8.134	174.4E6	500.7E6	9.621	9.861
21) tc Endrin Keton	7.798	8.359	458.2E6	1106.1E6	10.206	10.000
22) tc Mirex	7.335	8.323	355.1E6	704.8E6	9.699	9.566
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1150.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 09:03 pm
Operator : AFelser
Sample : 8081 ICV
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:57:01 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:56:46 2023
Response via : Initial Calibration
Integrator: ChemStation

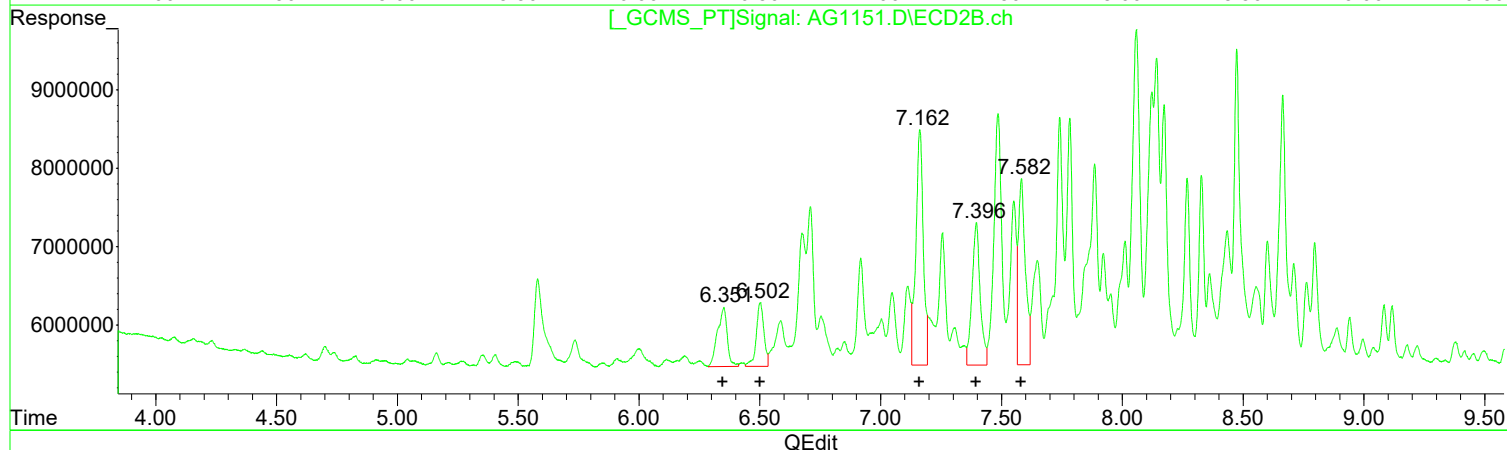
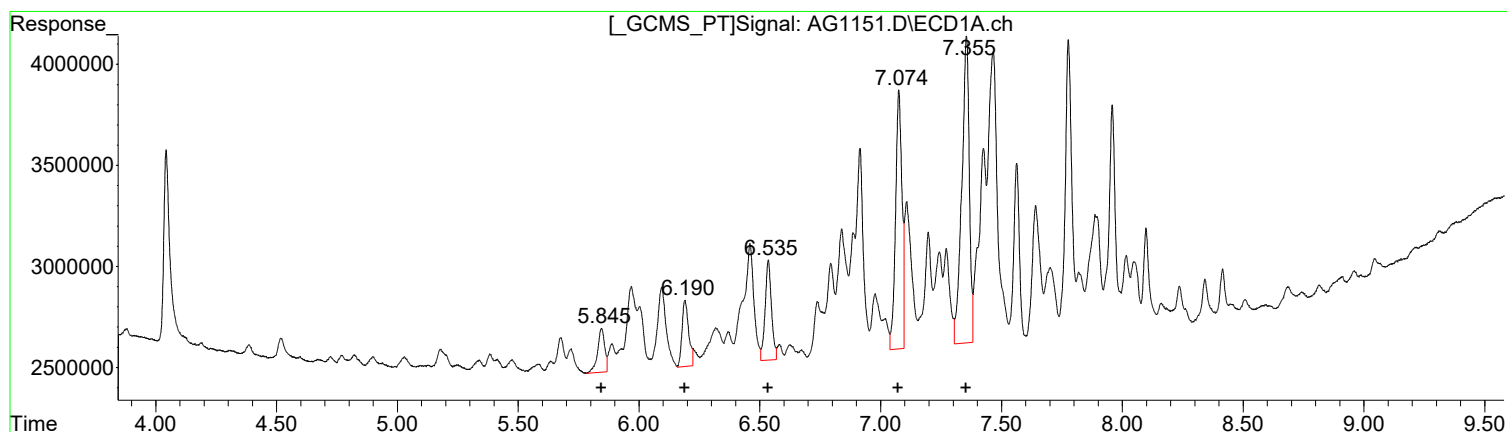
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1151.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 09:23 pm
Operator : AFelser
Sample : TOX LL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:25 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	4431080	12.77
6.19	6253663	12.83
6.53	9061946	12.38
7.08	23736260	13.38
7.35	32931393	14.23

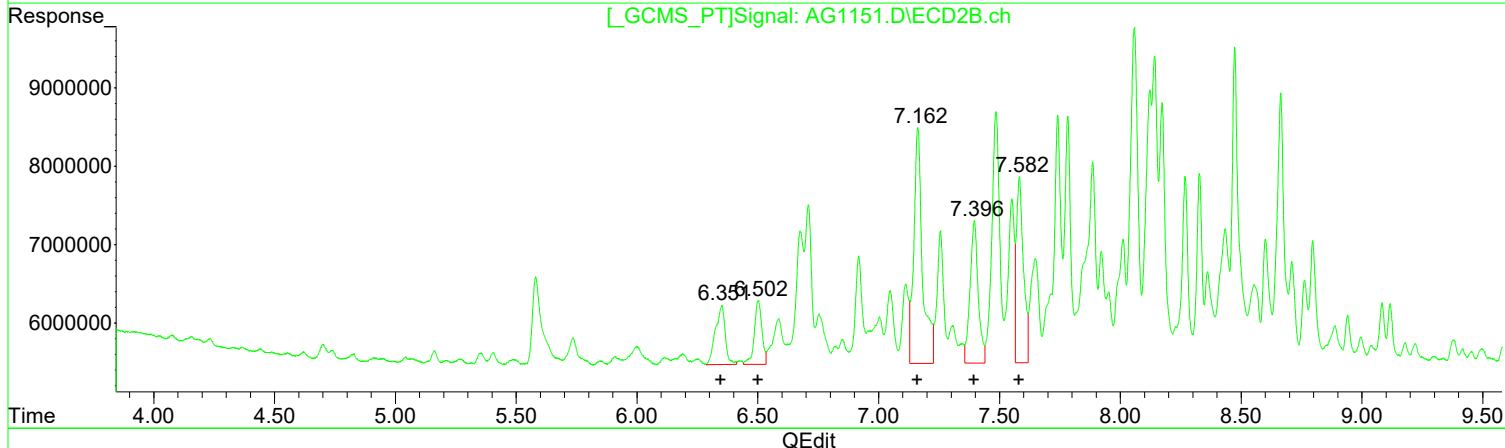
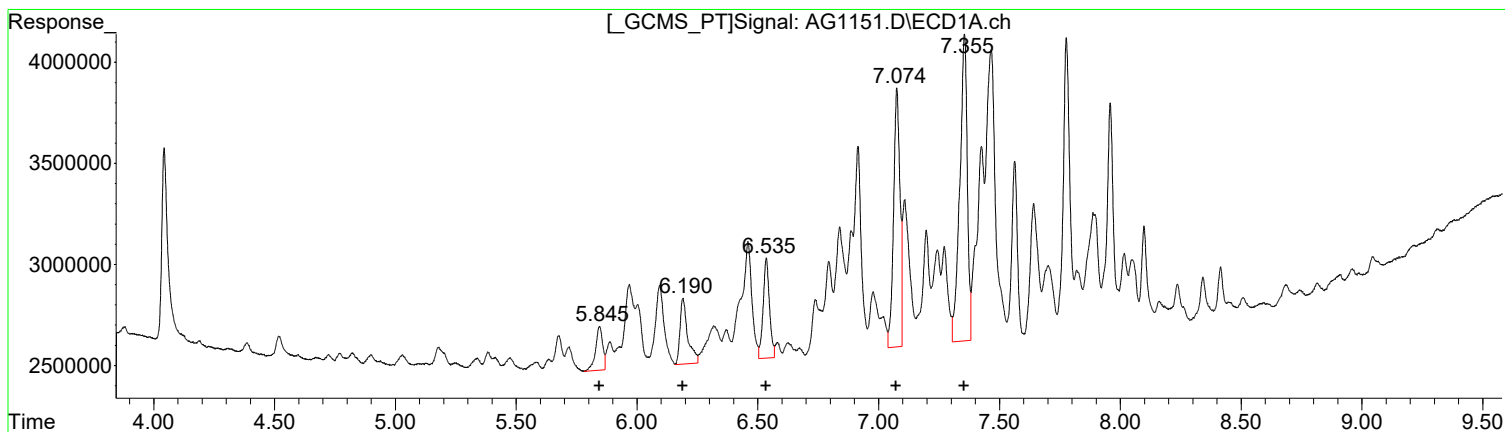
(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	21234213	18.37
6.50	17910011	16.51
7.16	64348917	17.90
7.40	42844504	18.58
7.58	47638566	18.58

Manual Integration:
After
Poor integration.
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1151.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 09:23 pm
Operator : AFelser
Sample : TOX LL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:25 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	4431080	12.77
6.19	7206861	14.79
6.53	9061946	12.38
7.08	23736260	13.38
7.35	32931393	14.23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	21234213	18.37
6.50	17910011	16.51
7.16	75204179	20.92
7.40	42844504	18.58
7.58	47638566	18.58

Manual Integration:
Before
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1151.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 09:23 pm
 Operator : AFelser
 Sample : TOX LL
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:25 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

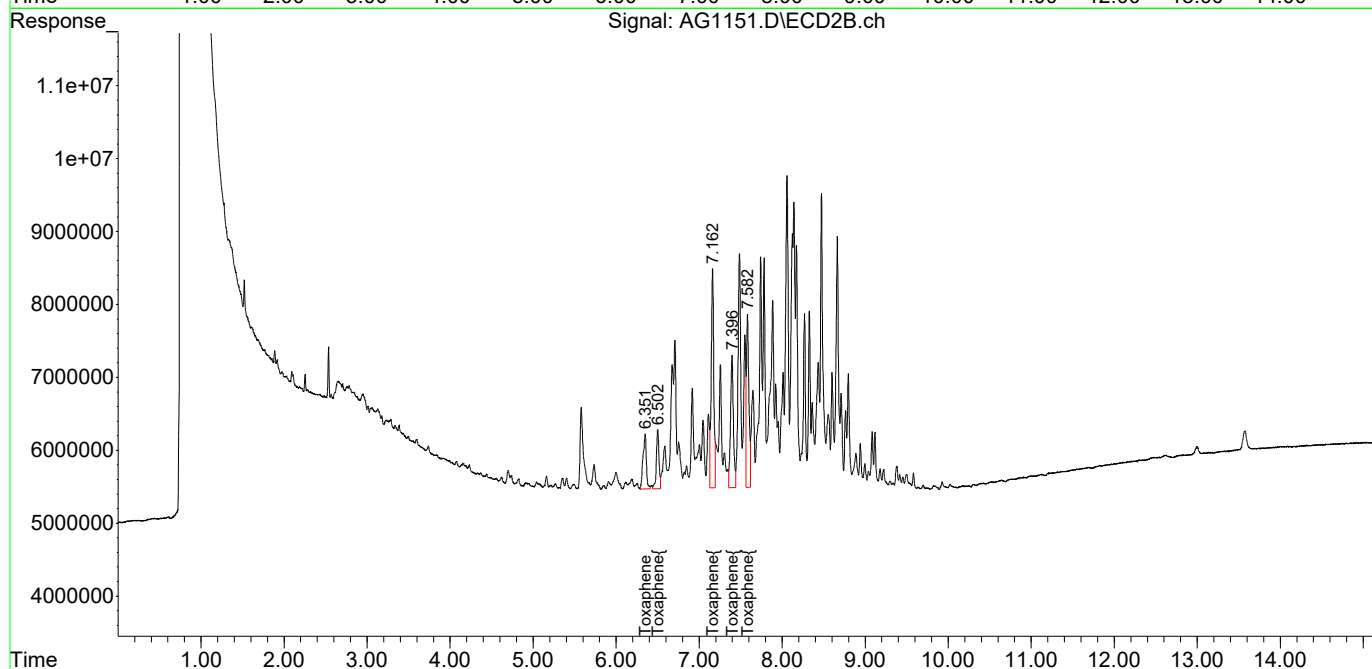
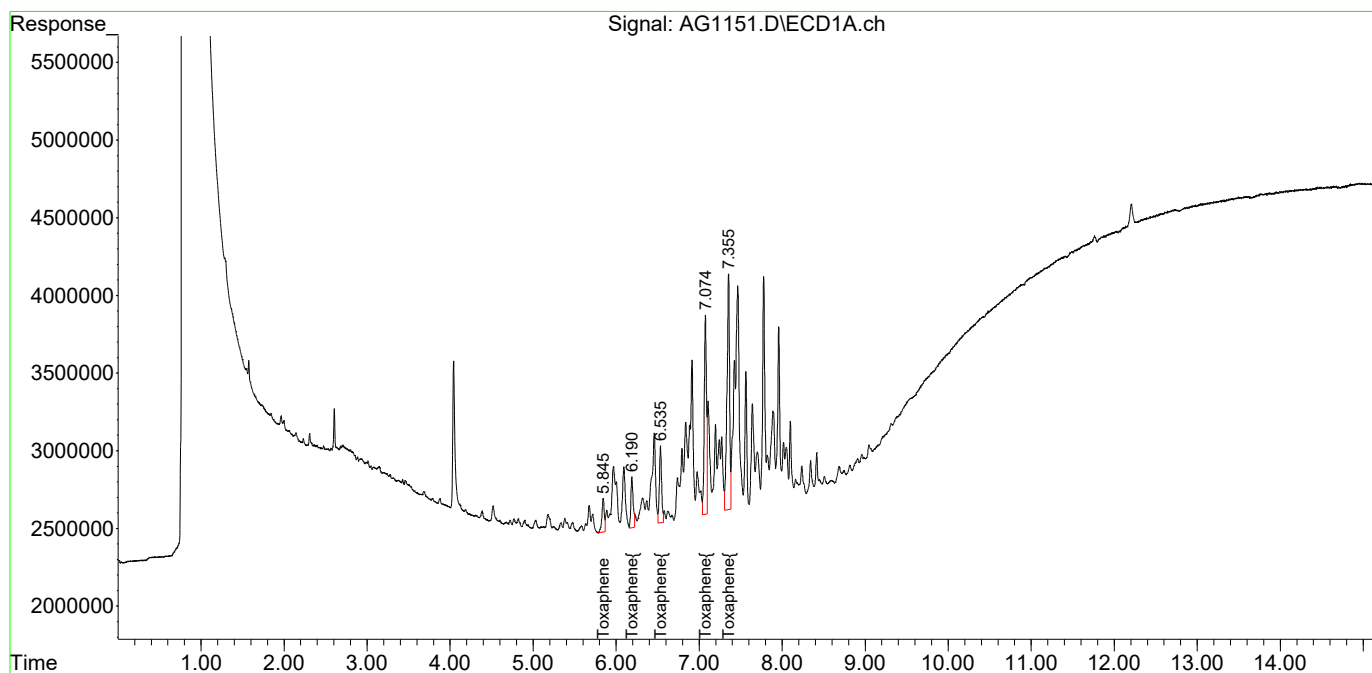
System Monitoring Compounds						
Target Compounds						
24) L8C Toxaphene	5.845	6.351	4431080	21234213	12.770	18.367 #
25) L8C Toxaphene{2}	6.190	6.501	6253663	17910011	12.834m	16.513 #
26) L8C Toxaphene{3}	6.535	7.162	9061946	64348917	12.379	17.904m#
27) L8C Toxaphene{4}	7.075	7.396	23736260	42844504	13.383	18.584 #
28) L8C Toxaphene{5}	7.355	7.582	32931393	47638566	14.225	18.575 #
Sum Toxaphene			76414341	194.0E6	65.591	89.943
Average Toxaphene					13.118	17.989
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1151.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 09:23 pm
Operator : AFelser
Sample : TOX LL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:25 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

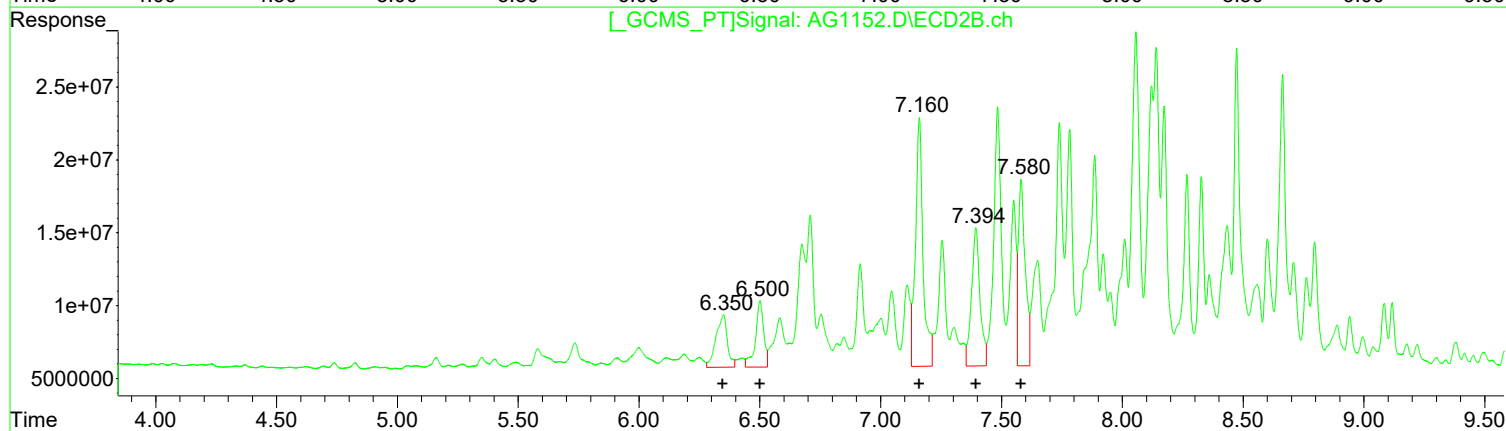
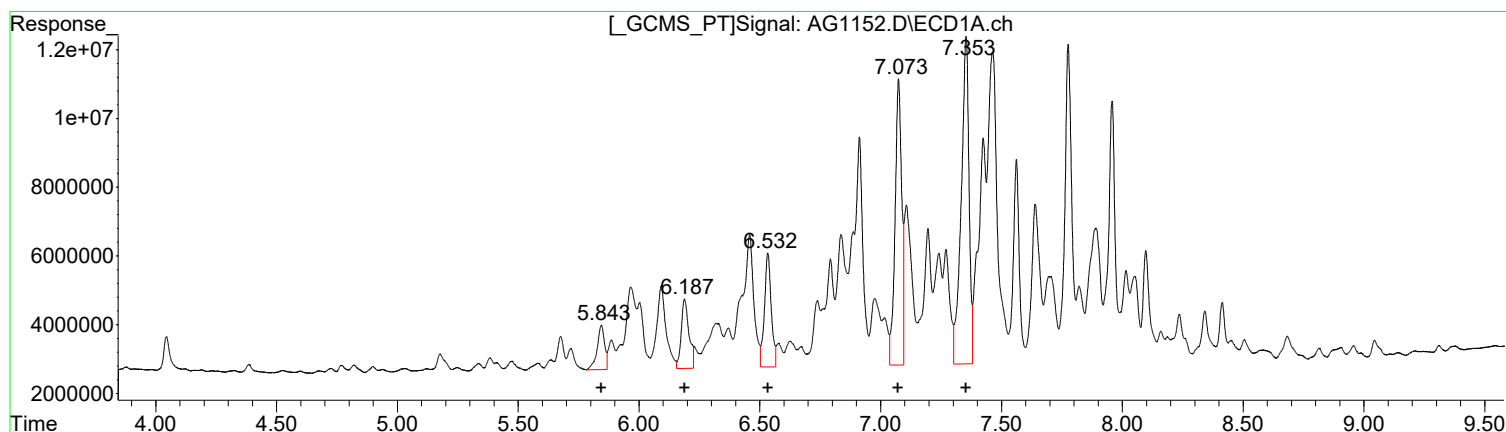
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1152.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 09:42 pm
Operator : AFelser
Sample : TOX L
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:28 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	27315083	78.72
6.19	44564182	91.46
6.53	65209502	89.08
7.07	159799108	90.10
7.35	215925036	93.27

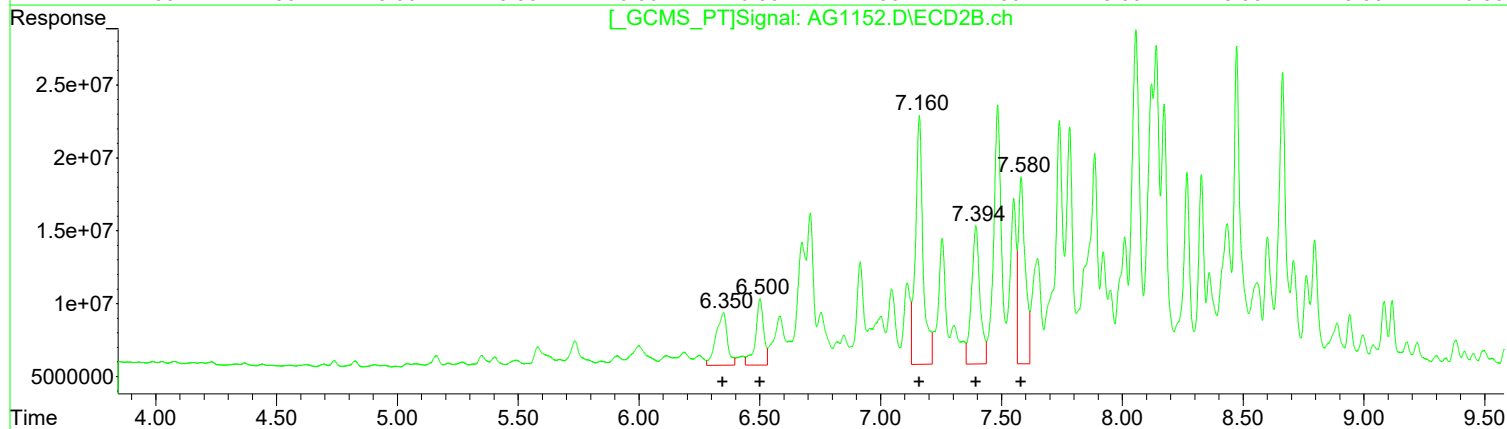
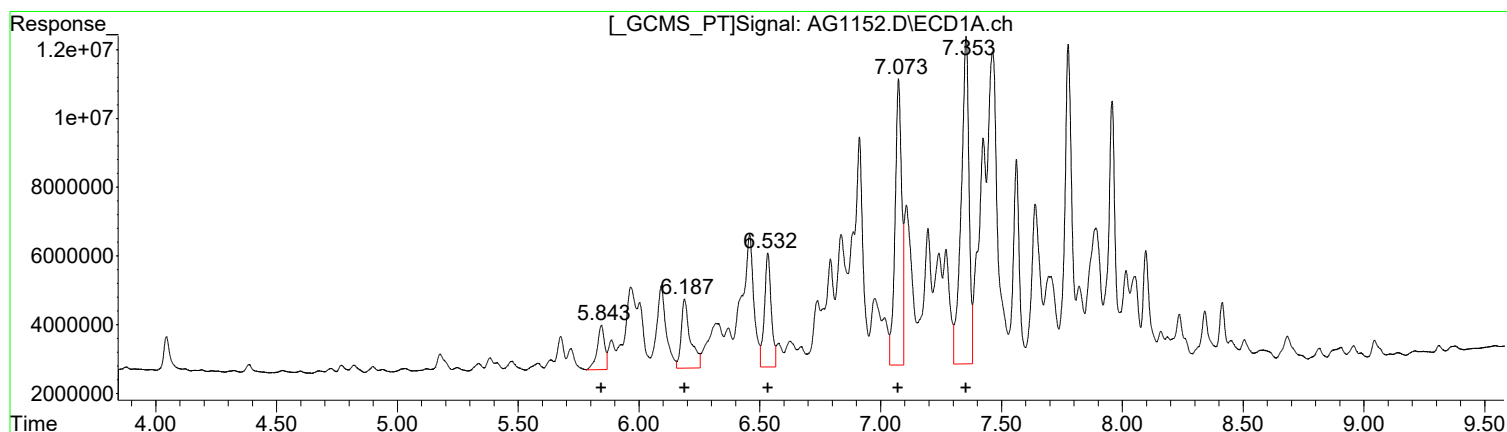
Manual Integration:
After
Poor integration.
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	117317194	101.47
6.50	107155876	98.80
7.16	374865041	104.30
7.39	231772058	100.53
7.58	254963059	99.42

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1152.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 09:42 pm
 Operator : AFelser
 Sample : TOX L
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:28 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)

R.T.	Response	Conc
5.84	27315083	78.72
6.19	52543284	107.84
6.53	65209502	89.08
7.07	159799108	90.10
7.35	215925036	93.27

Manual Integration:
 Before
 03/29/23

(24) Toxaphene #2 (L8C)

R.T.	Response	Conc
6.35	117317194	101.47
6.50	107155876	98.80
7.16	374865041	104.30
7.39	231772058	100.53
7.58	254963059	99.42

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1152.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 09:42 pm
 Operator : AFelser
 Sample : TOX L
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:28 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

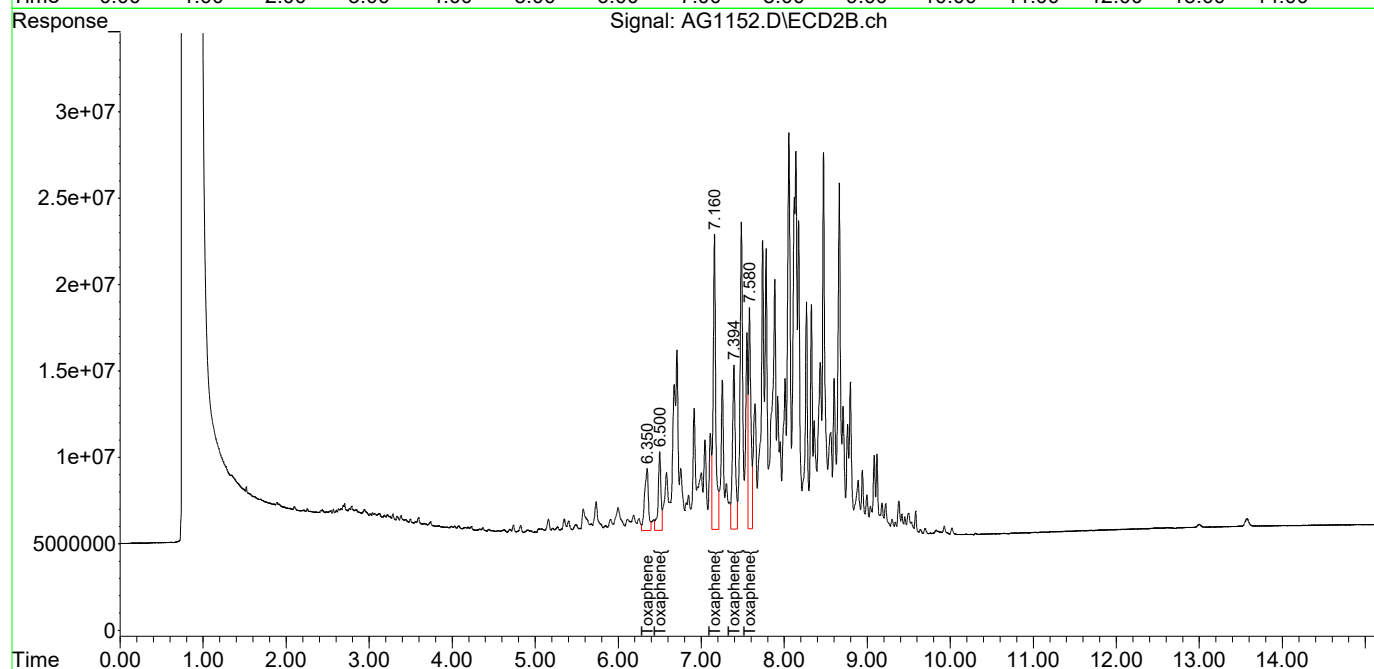
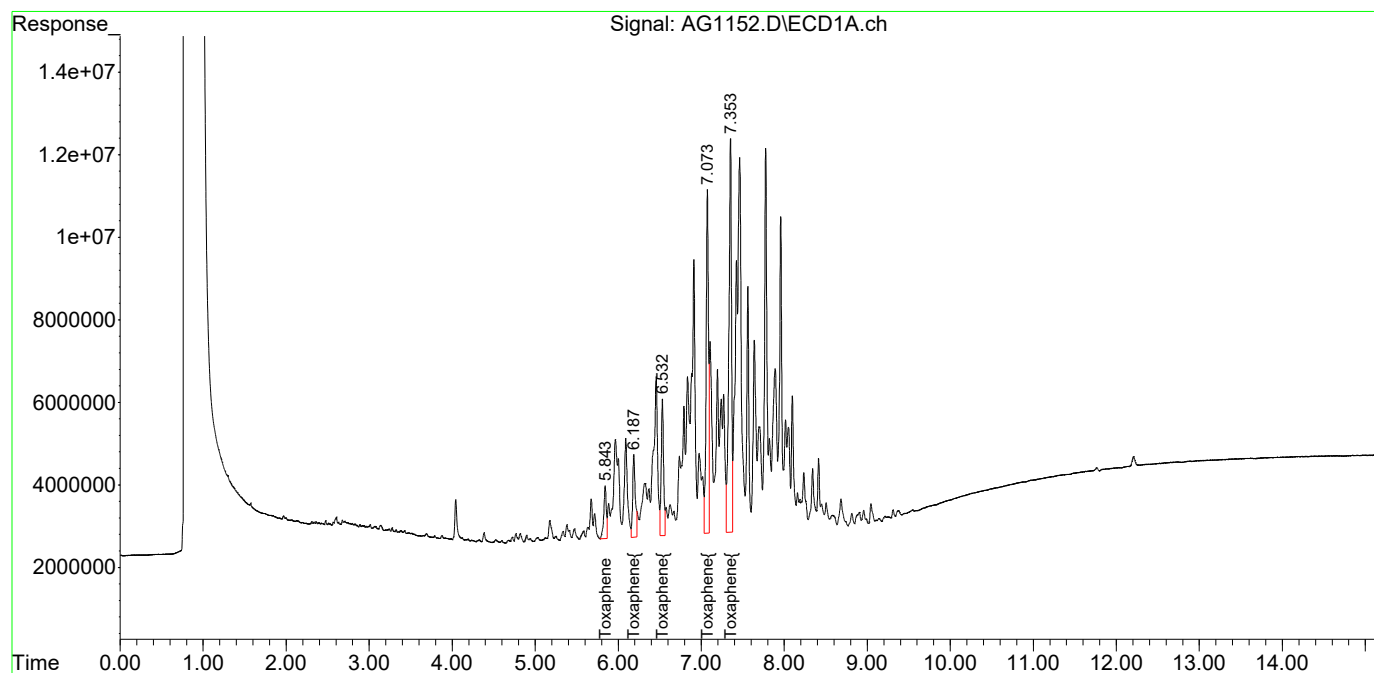
System Monitoring Compounds						
Target Compounds						
24) L8C Toxaphene	5.844	6.350	27315083	117.3E6	78.719	101.474 #
25) L8C Toxaphene{2}	6.187	6.500	44564182	107.2E6	91.460m	98.796
26) L8C Toxaphene{3}	6.533	7.160	65209502	374.9E6	89.076	104.300
27) L8C Toxaphene{4}	7.074	7.394	159.8E6	231.8E6	90.096	100.533
28) L8C Toxaphene{5}	7.354	7.581	215.9E6	255.0E6	93.271	99.416
Sum Toxaphene			512.8E6	1086.1E6	442.622	504.519
Average Toxaphene					88.524	100.904
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1152.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 09:42 pm
Operator : AFelser
Sample : TOX L
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:28 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

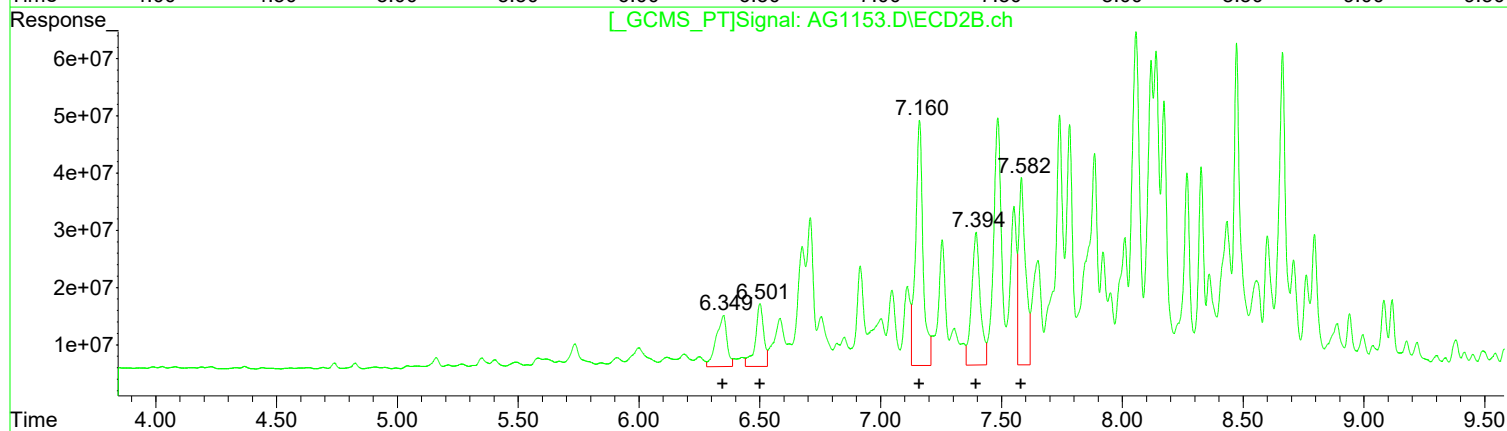
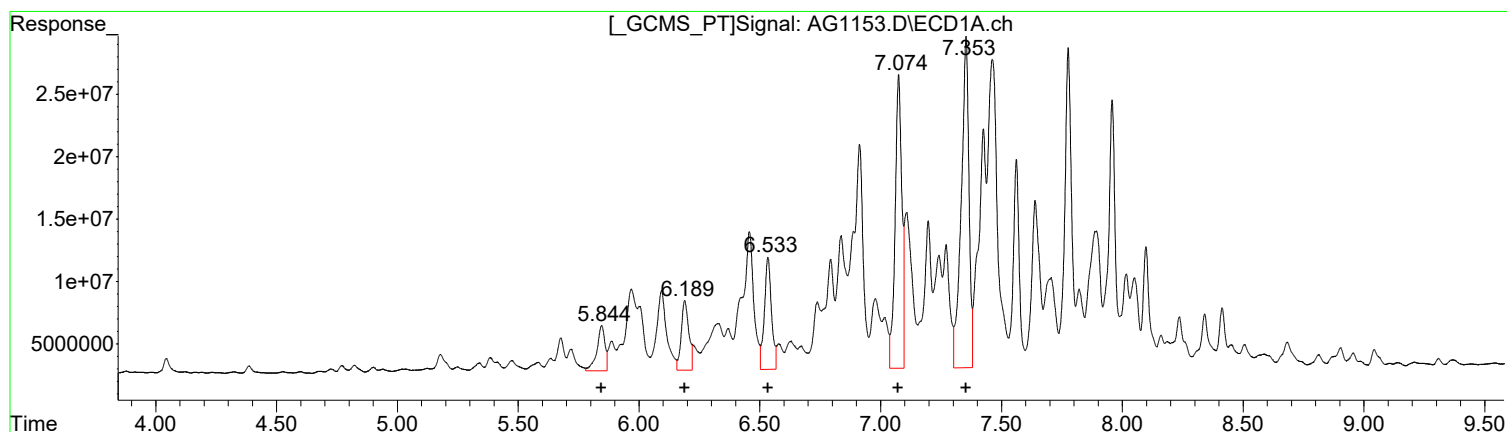
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1153.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:01 pm
Operator : AFelser
Sample : TOX ML
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:31 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	84699429	244.09
6.19	121544340	249.45
6.53	184090726	251.47
7.07	451063667	254.31
7.35	594551660	256.82

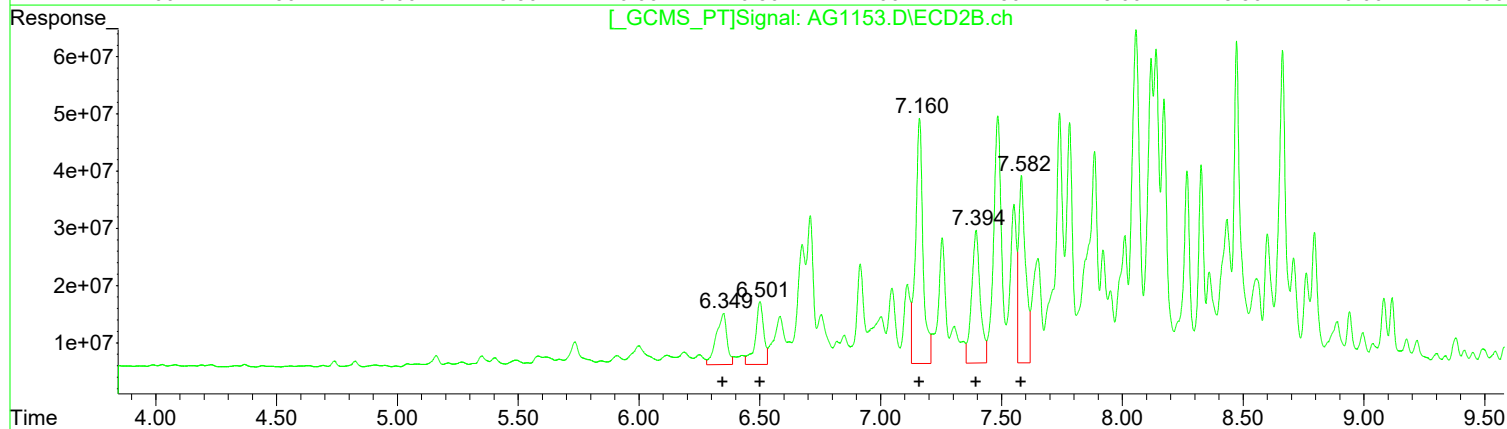
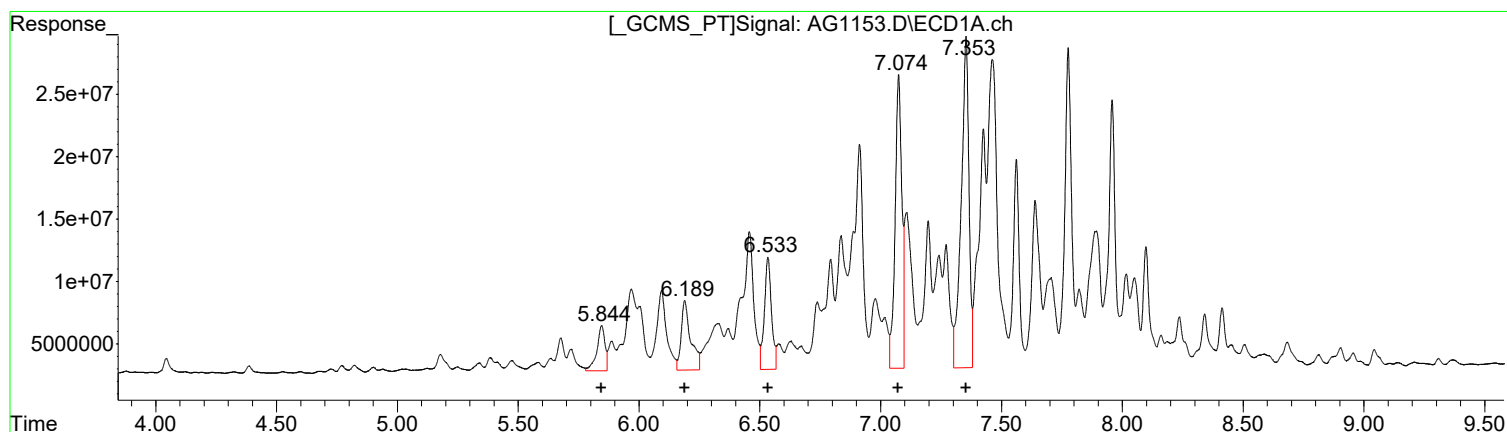
Manual Integration:
After
Poor integration.
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	276731541	239.36
6.50	265418672	244.71
7.16	923572585	256.97
7.39	577907564	250.67
7.58	648878467	253.01

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1153.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:01 pm
Operator : AFelser
Sample : TOX ML
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:31 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	84699429	244.09
6.19	151636520	311.21
6.53	184090726	251.47
7.07	451063667	254.31
7.35	594551660	256.82

Manual Integration:
Before
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	276731541	239.36
6.50	265418672	244.71
7.16	923572585	256.97
7.39	577907564	250.67
7.58	648878467	253.01

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1153.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 10:01 pm
 Operator : AFelser
 Sample : TOX ML
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:31 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

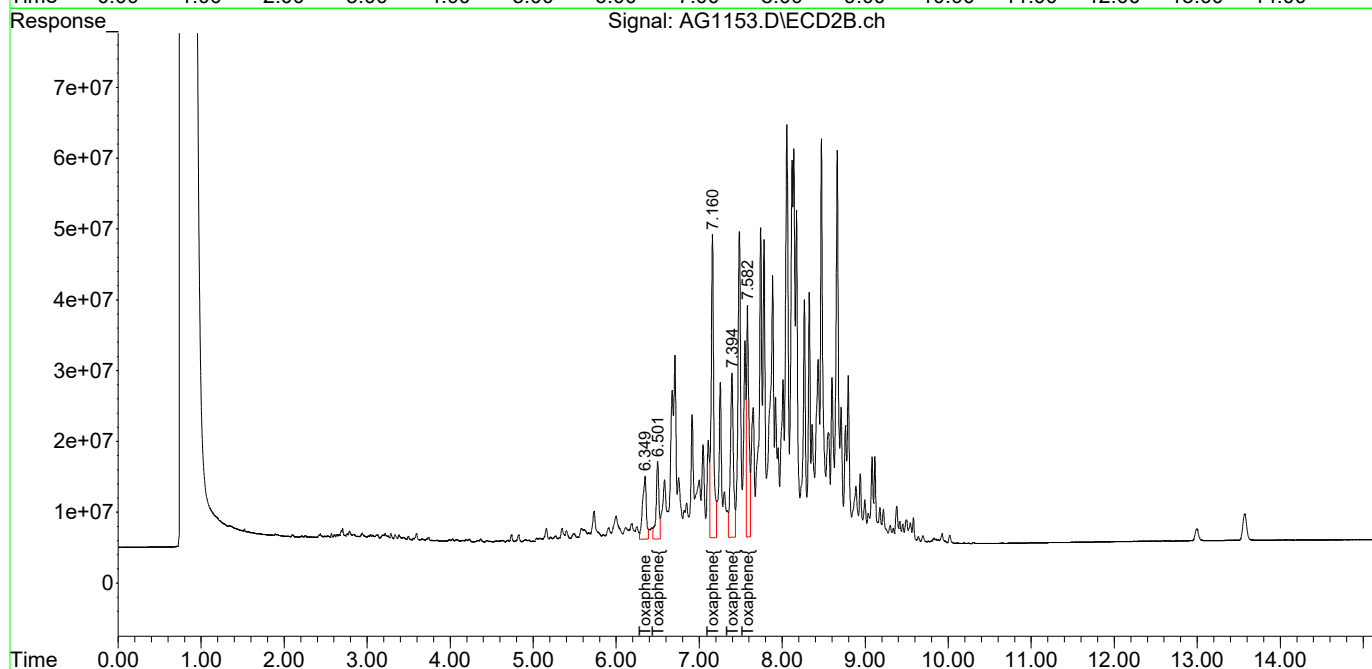
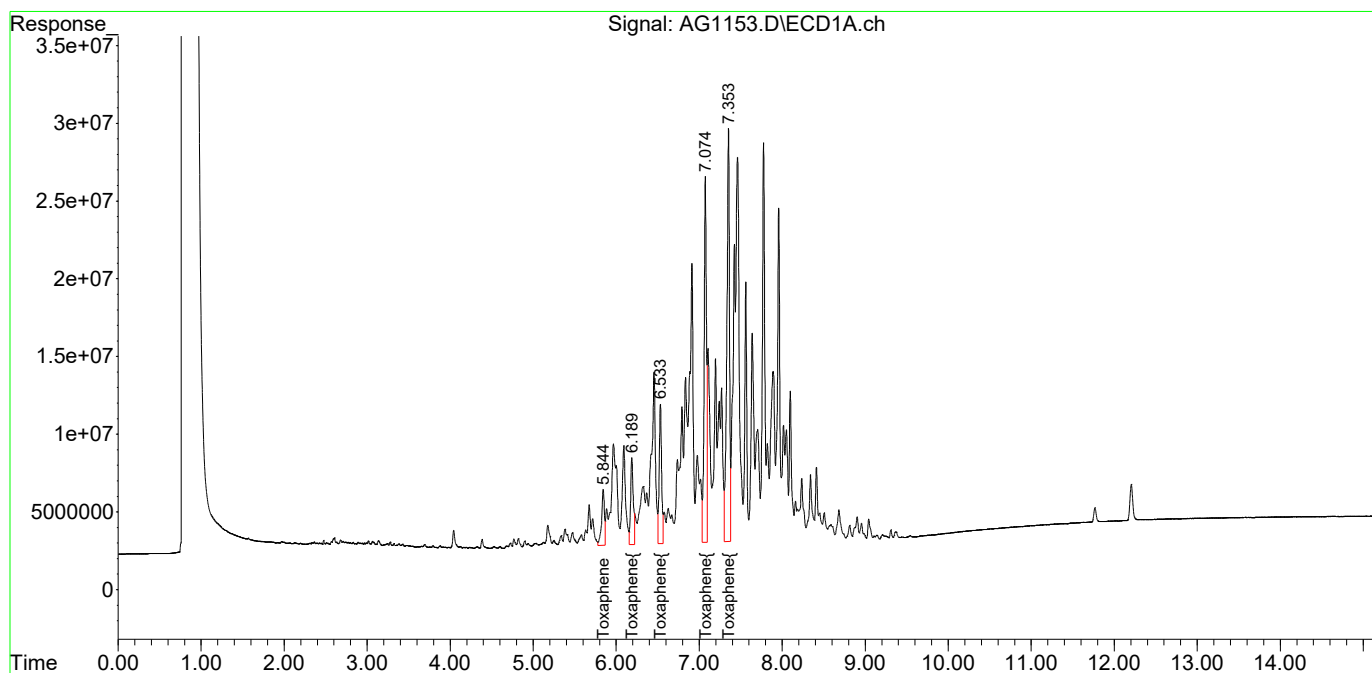
24) L8C Toxaphene	5.845	6.350	84699429	276.7E6	244.094	239.360
25) L8C Toxaphene{2}	6.189	6.501	121.5E6	265.4E6	249.447m	244.711
26) L8C Toxaphene{3}	6.533	7.161	184.1E6	923.6E6	251.469	256.969
27) L8C Toxaphene{4}	7.074	7.395	451.1E6	577.9E6	254.314	250.672
28) L8C Toxaphene{5}	7.353	7.582	594.6E6	648.9E6	256.822	253.013
Sum Toxaphene			1435.9E6	2692.5E6	1256.146	1244.725
Average Toxaphene					251.229	248.945
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1153.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:01 pm
Operator : AFelser
Sample : TOX ML
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:31 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

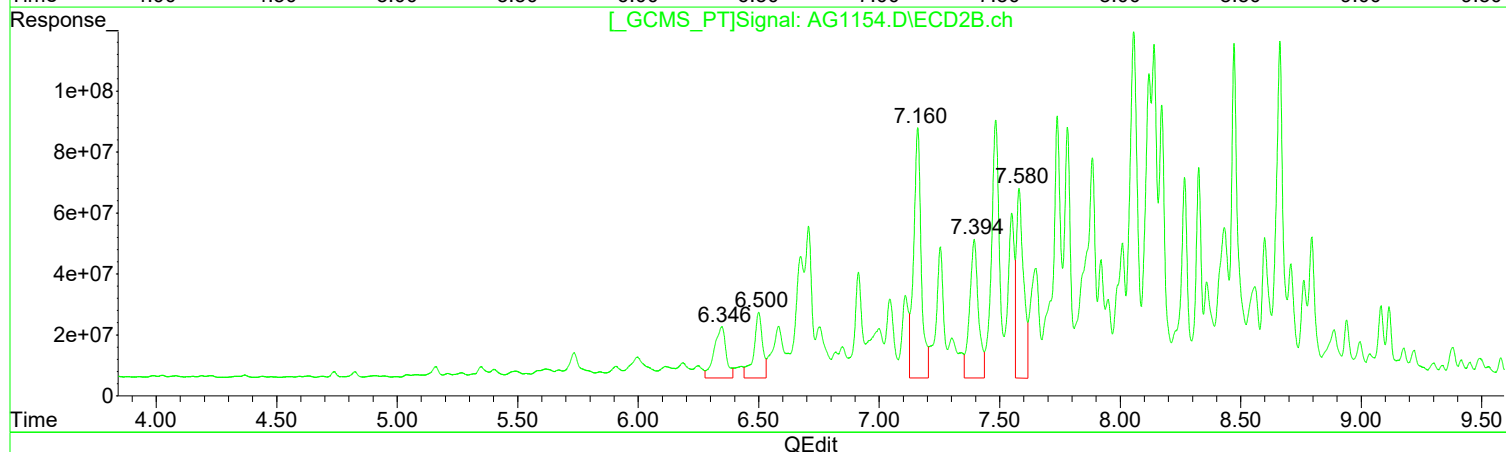
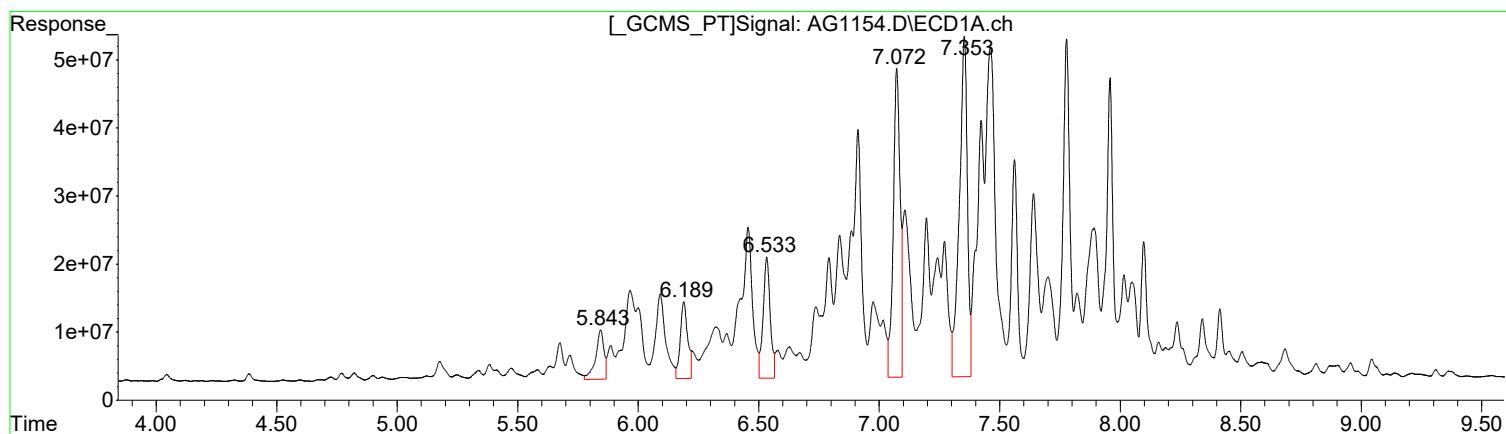
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:20 pm
Operator : AFelser
Sample : TOX M
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:40:50 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Tue Mar 14 11:39:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	173497576	687.72
6.19	243627630	692.87
6.53	366031243	664.84
7.07	886823084	625.53
7.35	1157518109	708.52

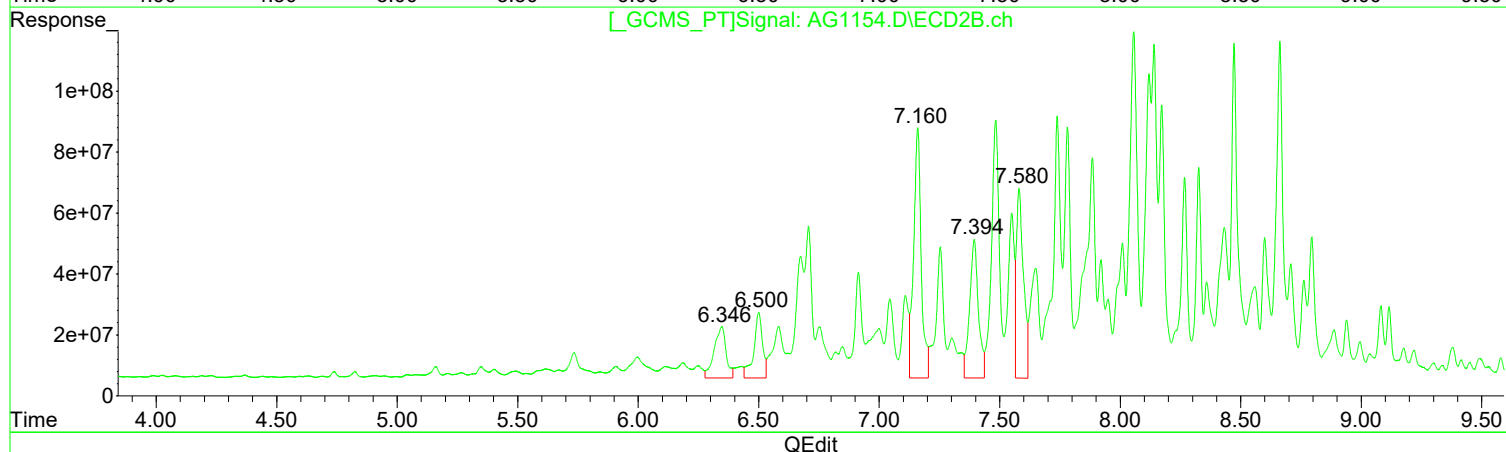
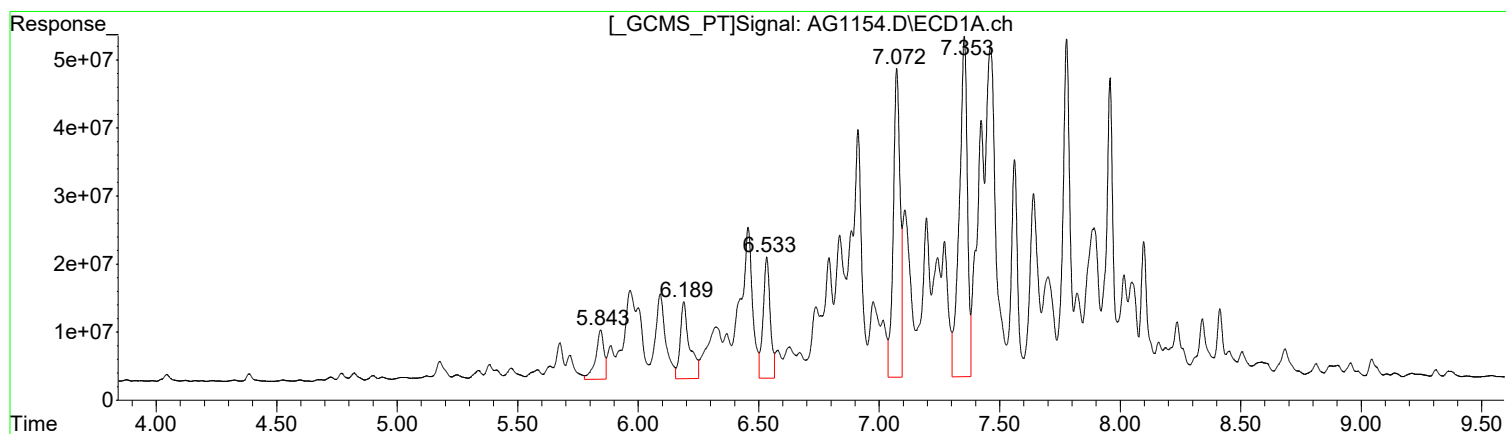
Manual Integration:
After
Poor integration.
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	578065335	551.49
6.50	542311476	634.54
7.16	1797049812	571.92
7.39	1152714357	613.29
7.58	1282302647	623.20

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:20 pm
Operator : AFelser
Sample : TOX M
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:40:50 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Tue Mar 14 11:39:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	173497576	687.72
6.19	303843498	864.12
6.53	366031243	664.84
7.07	886823084	625.53
7.35	1157518109	708.52

Manual Integration:
Before
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	578065335	551.49
6.50	542311476	634.54
7.16	1797049812	571.92
7.39	1152714357	613.29
7.58	1282302647	623.20

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1154.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 10:20 pm
 Operator : AFelser
 Sample : TOX M
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:40:50 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Tue Mar 14 11:39:15 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

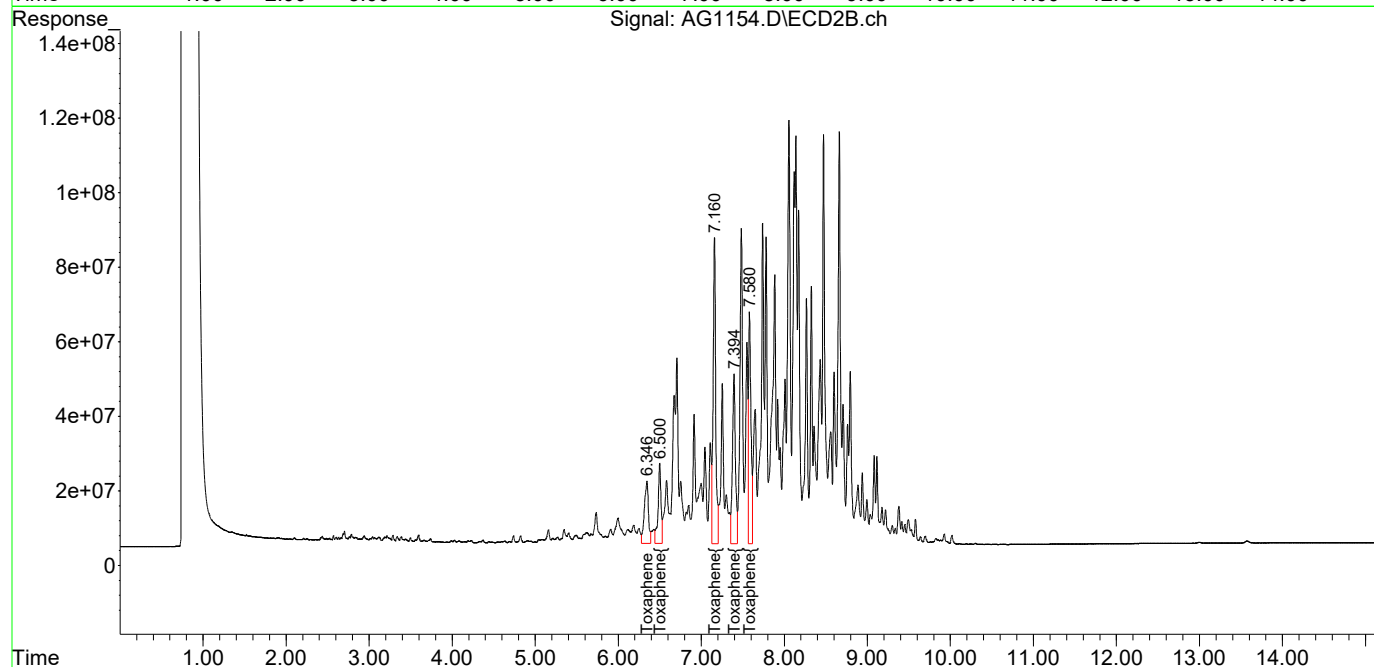
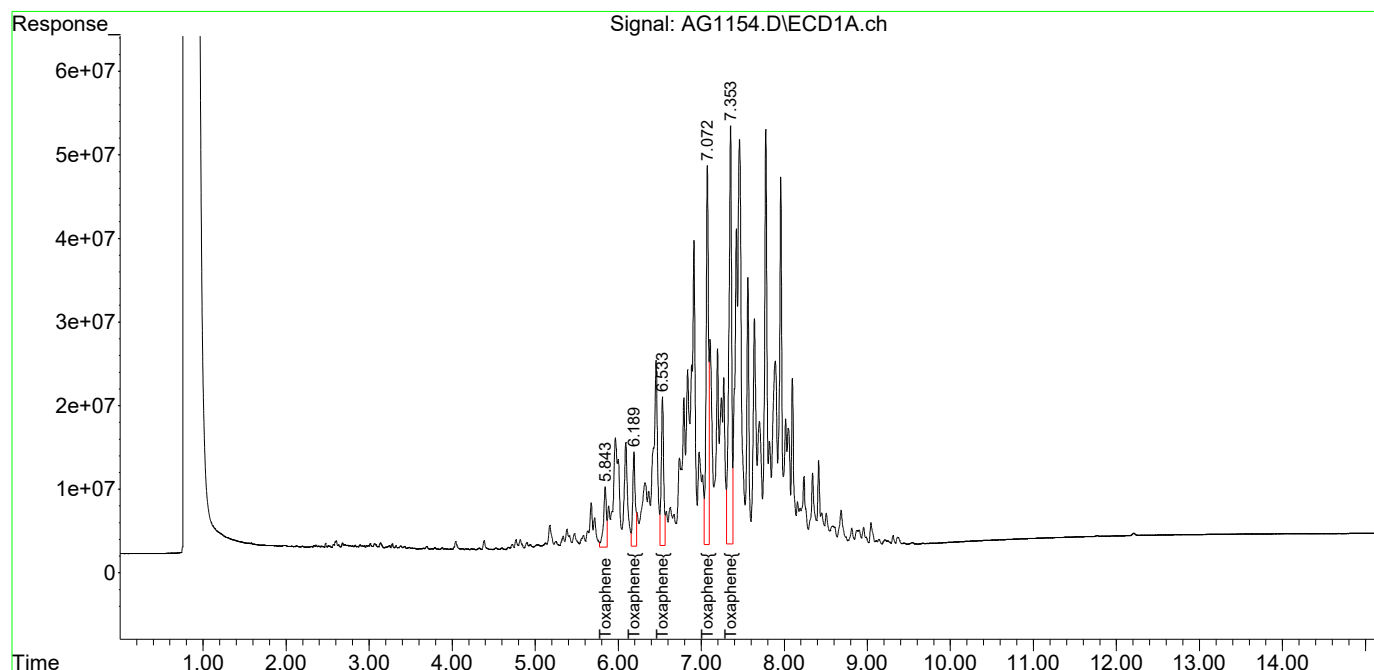
24) L8C Toxaphene	5.844	6.347	173.5E6	578.1E6	687.716	551.487
25) L8C Toxaphene{2}	6.189	6.500	243.6E6	542.3E6	692.867m	634.544
26) L8C Toxaphene{3}	6.533	7.160	366.0E6	1797.0E6	664.842	571.922
27) L8C Toxaphene{4}	7.073	7.394	886.8E6	1152.7E6	625.525	613.287
28) L8C Toxaphene{5}	7.353	7.580	1157.5E6	1282.3E6	708.517	623.200
Sum Toxaphene			2827.5E6	5352.4E6	3379.466	2994.440
Average Toxaphene					675.893	598.888
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1154.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:20 pm
Operator : AFelser
Sample : TOX M
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:40:50 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Tue Mar 14 11:39:15 2023
Response via : Initial Calibration
Integrator: ChemStation

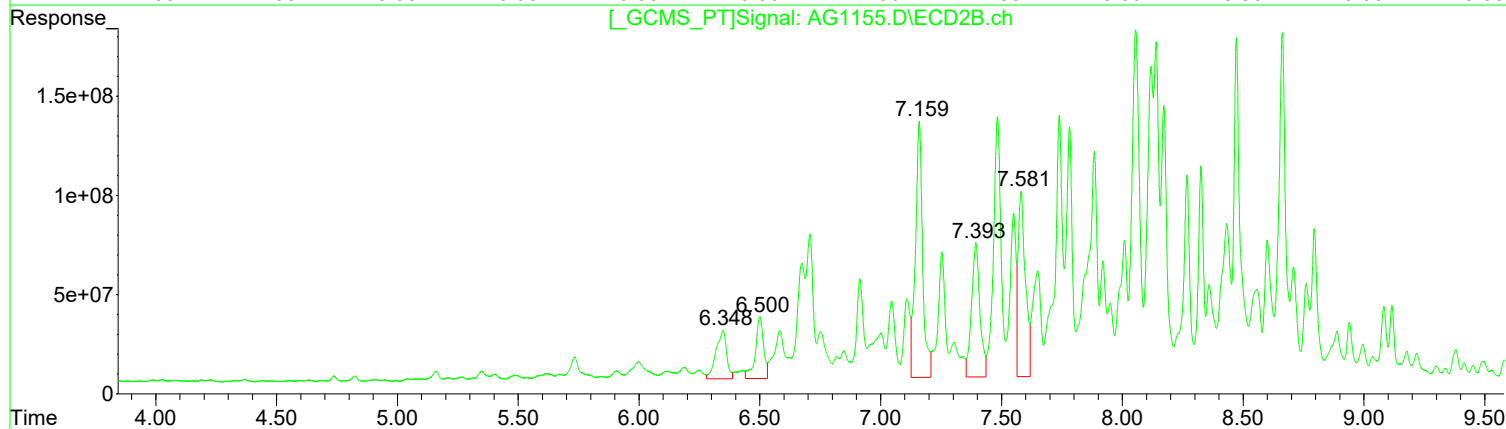
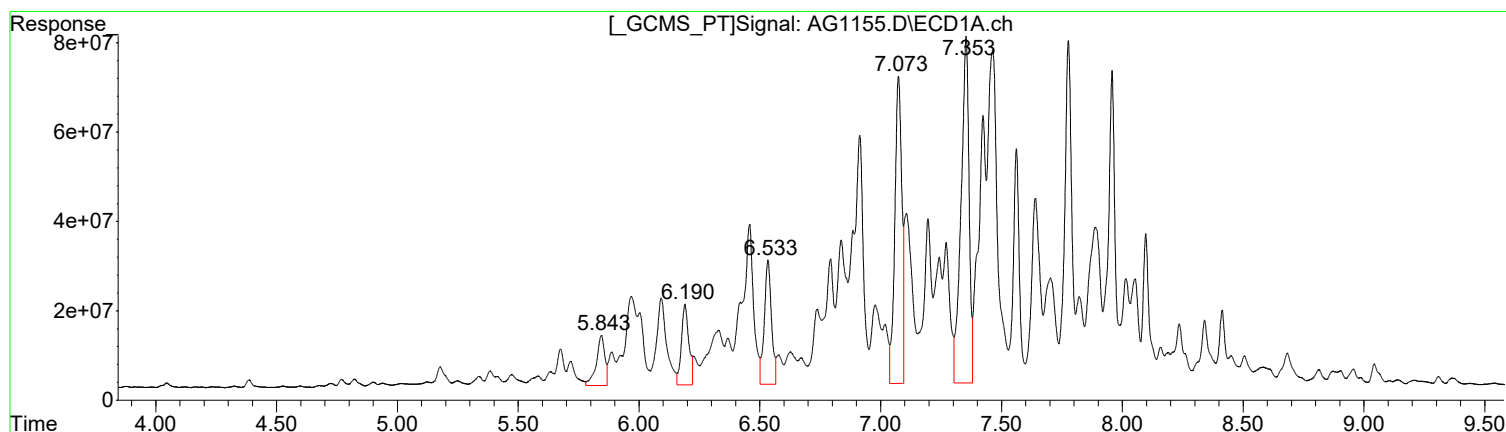
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1155.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:39 pm
Operator : AFelser
Sample : TOX MH
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:34 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	270026280	778.18
6.19	385299508	790.75
6.53	577567865	788.96
7.07	1375217406	775.36
7.35	1797757862	776.56

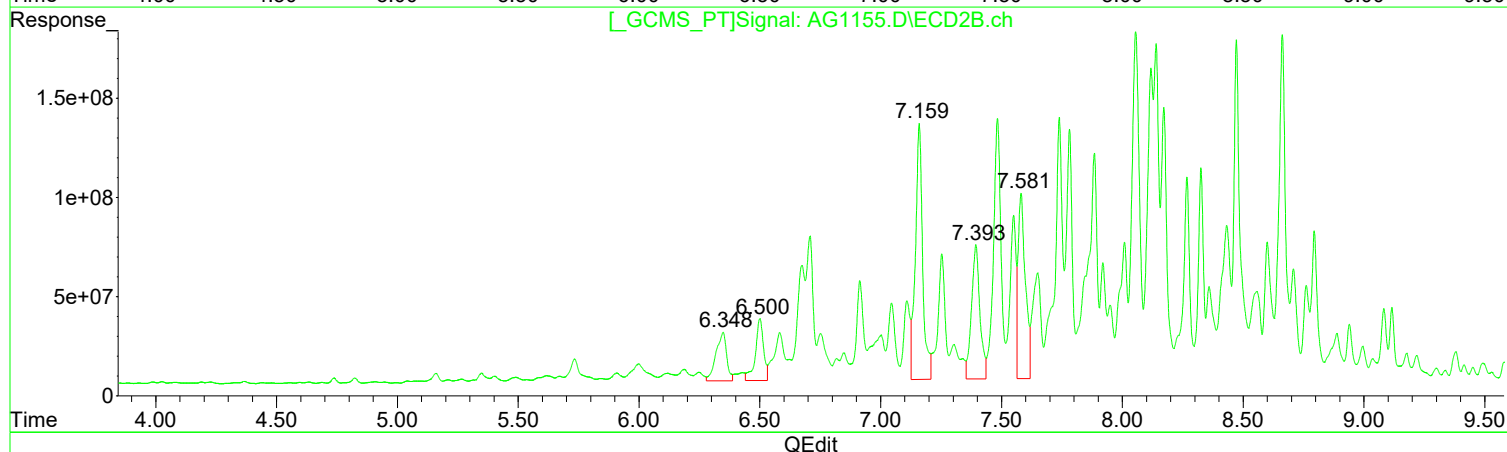
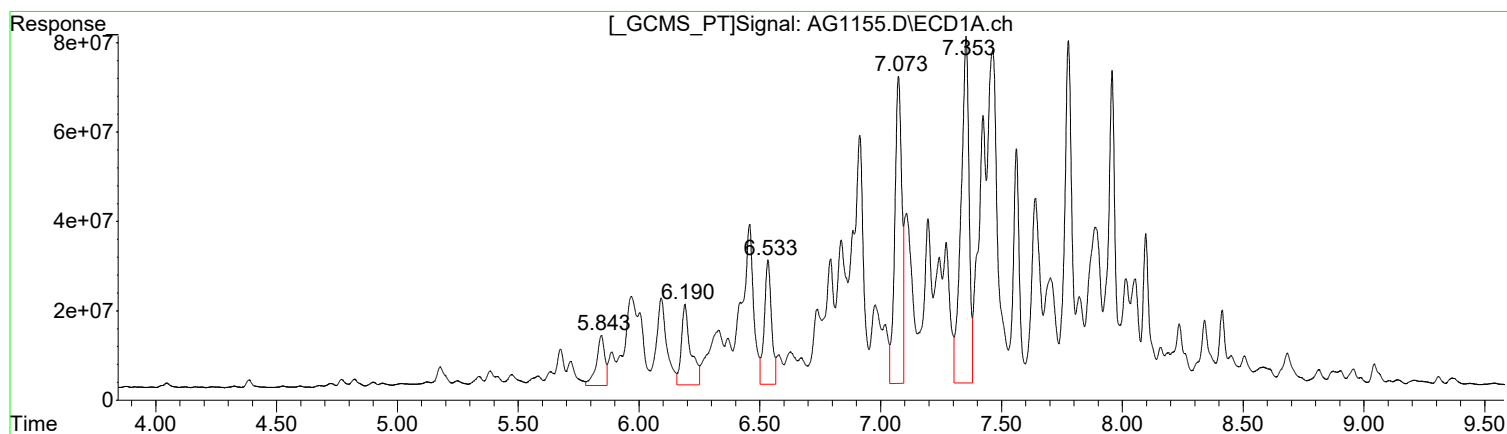
Manual Integration:
After
Poor integration.
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	745249475	644.61
6.50	732686289	675.52
7.16	2698985771	750.95
7.39	1645980456	713.96
7.58	1930091531	752.59

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1155.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:39 pm
Operator : AFelser
Sample : TOX MH
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:34 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	270026280	778.18
6.19	479180141	983.43
6.53	577567865	788.96
7.07	1375217406	775.36
7.35	1797757862	776.56

Manual Integration:
Before
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	745249475	644.61
6.50	732686289	675.52
7.16	2698985771	750.95
7.39	1645980456	713.96
7.58	1930091531	752.59

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1155.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 10:39 pm
 Operator : AFelser
 Sample : TOX MH
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:34 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

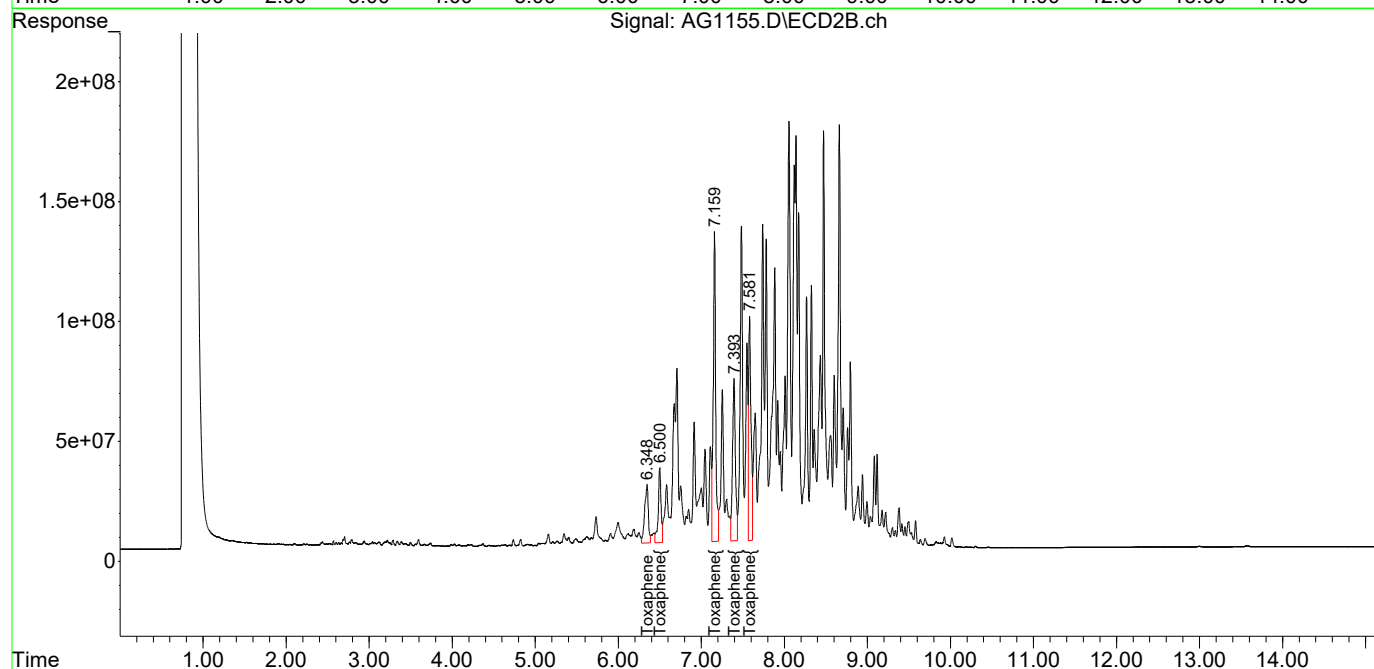
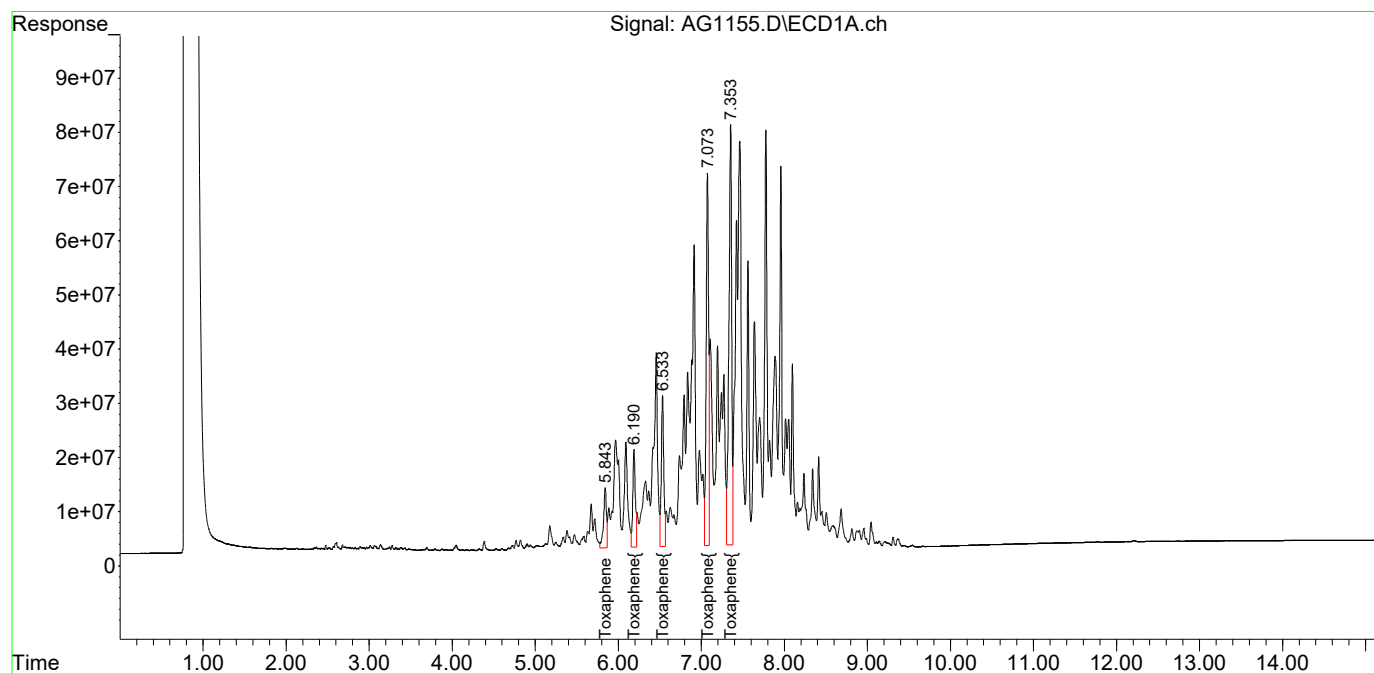
24) L8C Toxaphene	5.844	6.348	270.0E6	745.2E6	778.185	644.607
25) L8C Toxaphene{2}	6.190	6.500	385.3E6	732.7E6	790.755m	675.522
26) L8C Toxaphene{3}	6.534	7.160	577.6E6	2699.0E6	788.960	750.949
27) L8C Toxaphene{4}	7.074	7.394	1375.2E6	1646.0E6	775.362	713.959
28) L8C Toxaphene{5}	7.353	7.581	1797.8E6	1930.1E6	776.557	752.588
Sum Toxaphene			4405.9E6	7753.0E6	3909.818	3537.624
Average Toxaphene					781.964	707.525
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1155.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:39 pm
Operator : AFelser
Sample : TOX MH
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:34 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

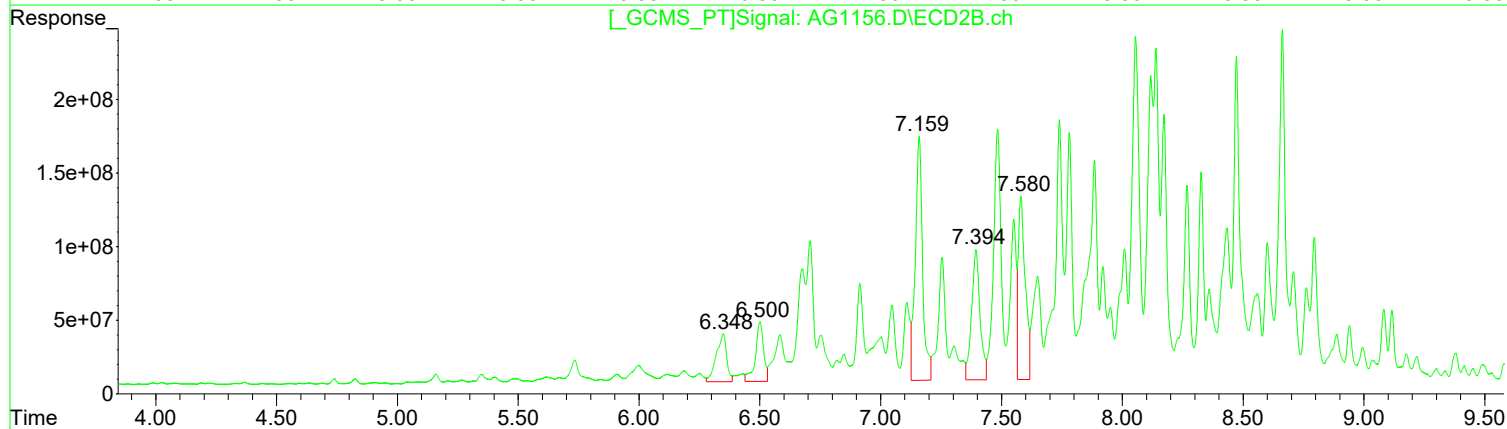
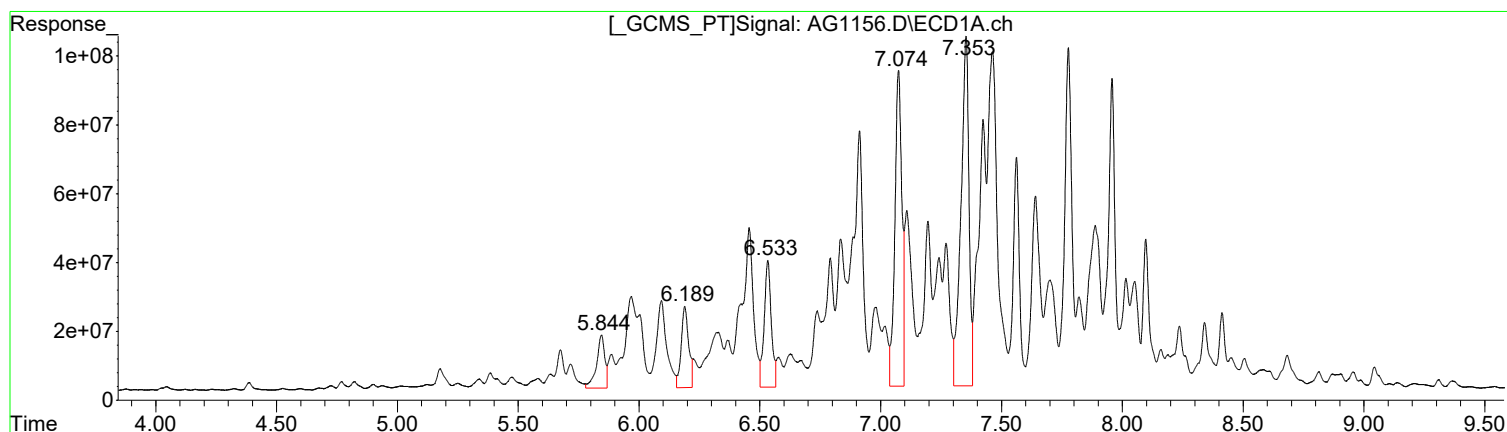
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:58 pm
Operator : AFelser
Sample : TOX H
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:37 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	362167098	1043.72
6.19	502976676	1032.27
6.53	753548734	1029.35
7.07	1850627874	1043.40
7.35	2347306486	1013.94

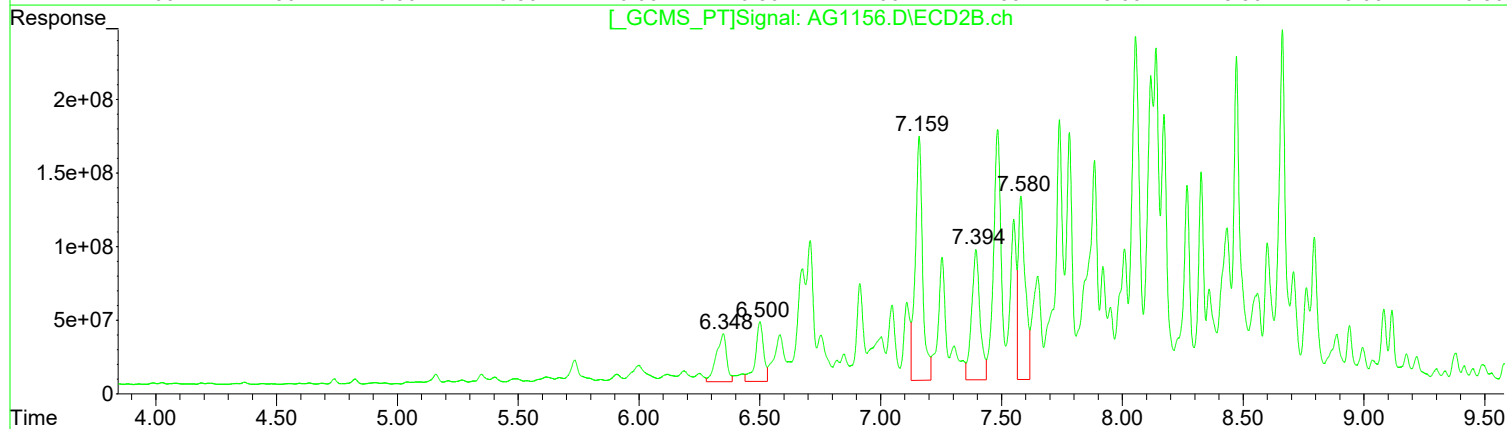
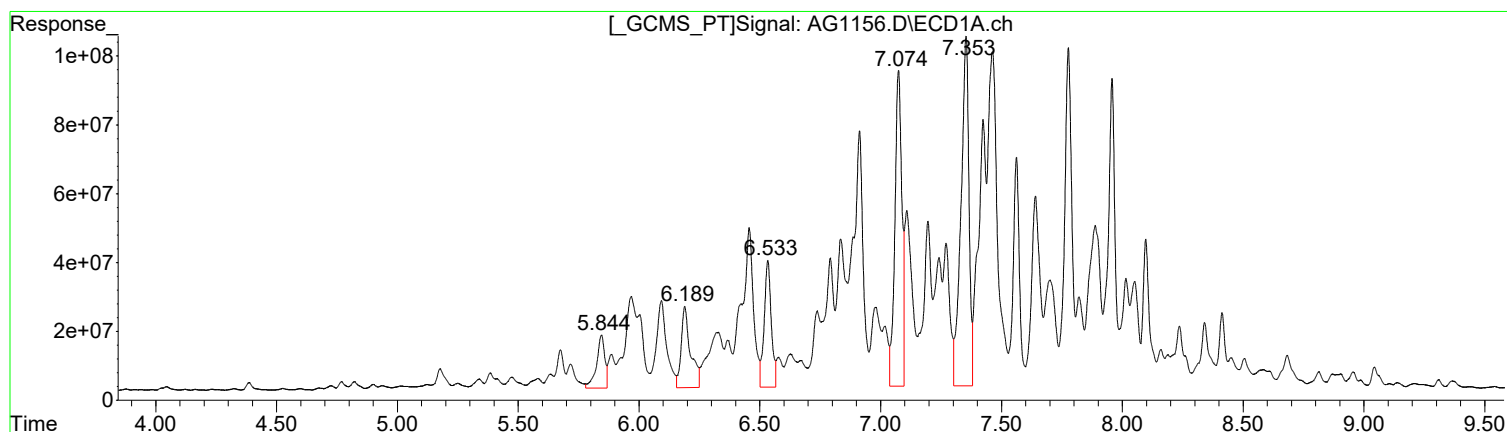
(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	964271101	834.05
6.50	951234807	877.02
7.16	3496185166	972.76
7.39	2151789484	933.36
7.58	2512635160	979.74

Manual Integration:
After
Poor integration.
03/29/23

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:58 pm
Operator : AFelser
Sample : TOX H
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:37 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	362167098	1043.72
6.19	629213954	1291.34
6.53	753548734	1029.35
7.07	1850627874	1043.40
7.35	2347306486	1013.94

Manual Integration:
Before
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.35	964271101	834.05
6.50	951234807	877.02
7.16	3496185166	972.76
7.39	2151789484	933.36
7.58	2512635160	979.74

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:58 pm
Operator : AFelser
Sample : TOX H
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:37 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound RT#1 RT#2 Resp#1 Resp#2 ug/l ug/l

System Monitoring Compounds

Target Compounds

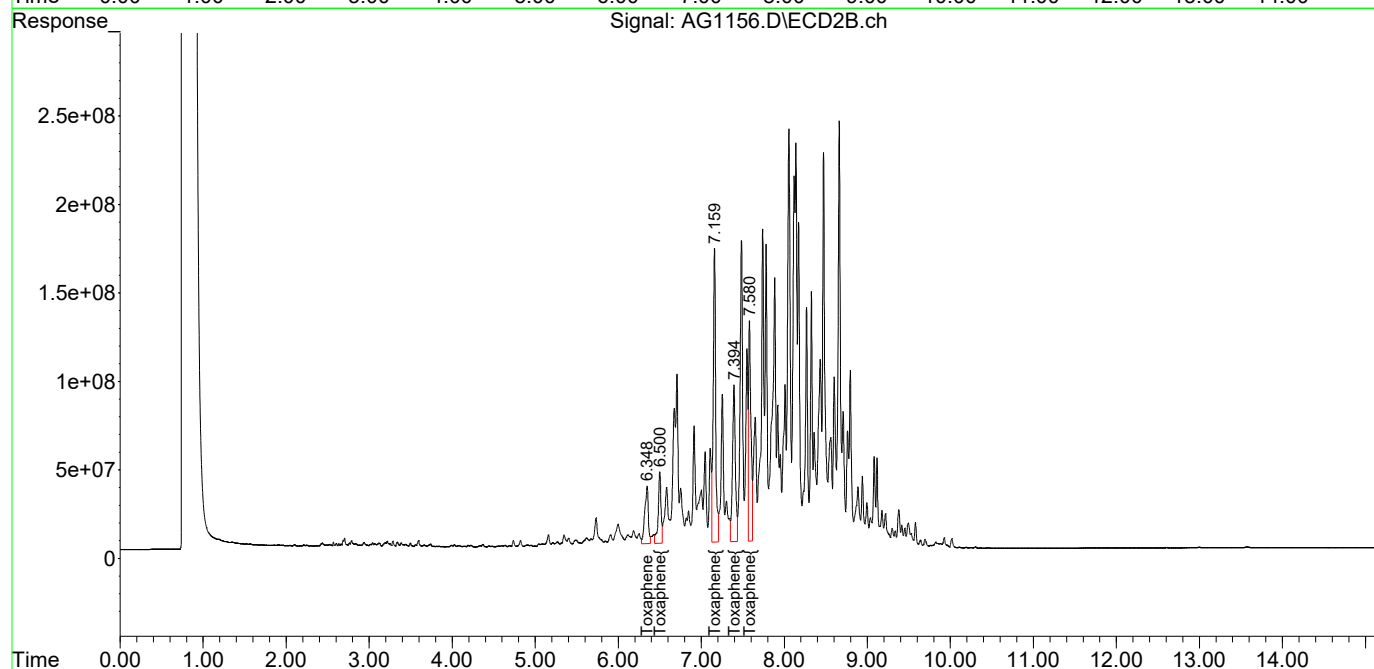
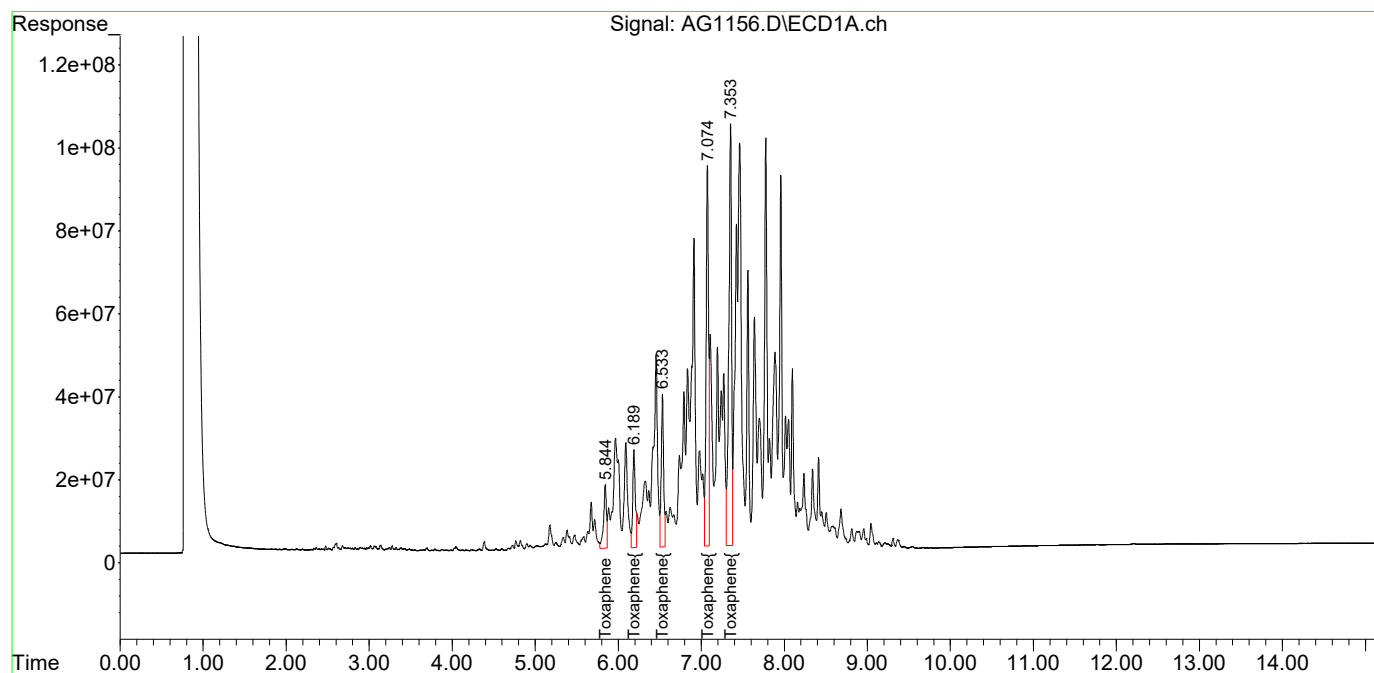
24) L8C Toxaphene	5.844	6.349	362.2E6	964.3E6	1043.724	834.050
25) L8C Toxaphene{2}	6.189	6.500	503.0E6	951.2E6	1032.265m	877.019
26) L8C Toxaphene{3}	6.533	7.159	753.5E6	3496.2E6	1029.350	972.757
27) L8C Toxaphene{4}	7.074	7.394	1850.6E6	2151.8E6	1043.403	933.358
28) L8C Toxaphene{5}	7.353	7.580	2347.3E6	2512.6E6	1013.939	979.736
Sum Toxaphene			5816.6E6	10076.1E6	5162.682	4596.919
Average Toxaphene					1032.536	919.384
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1156.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 10:58 pm
Operator : AFelser
Sample : TOX H
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:37 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

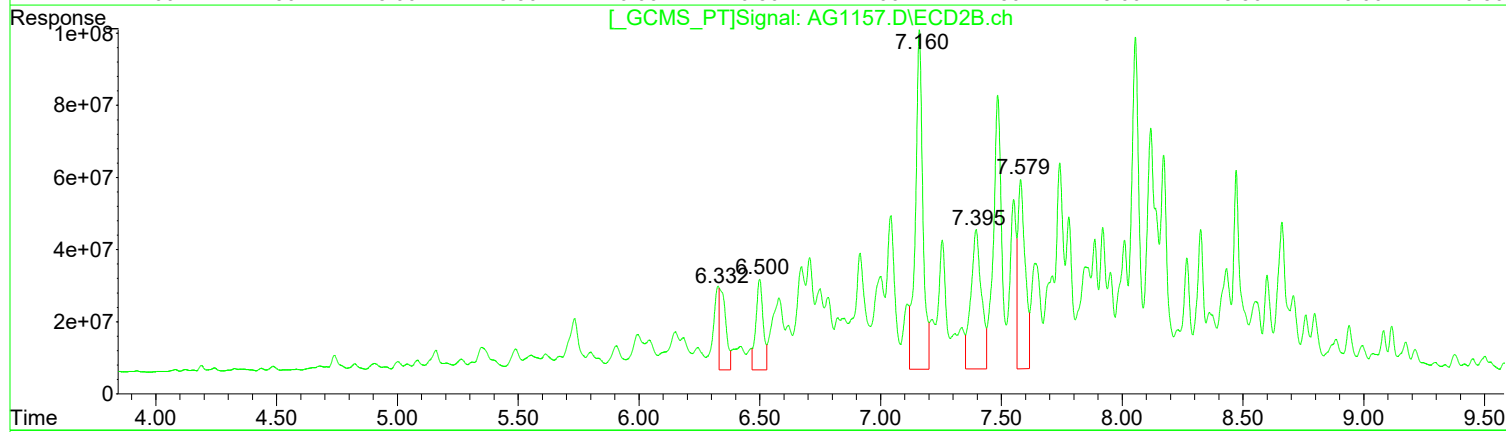
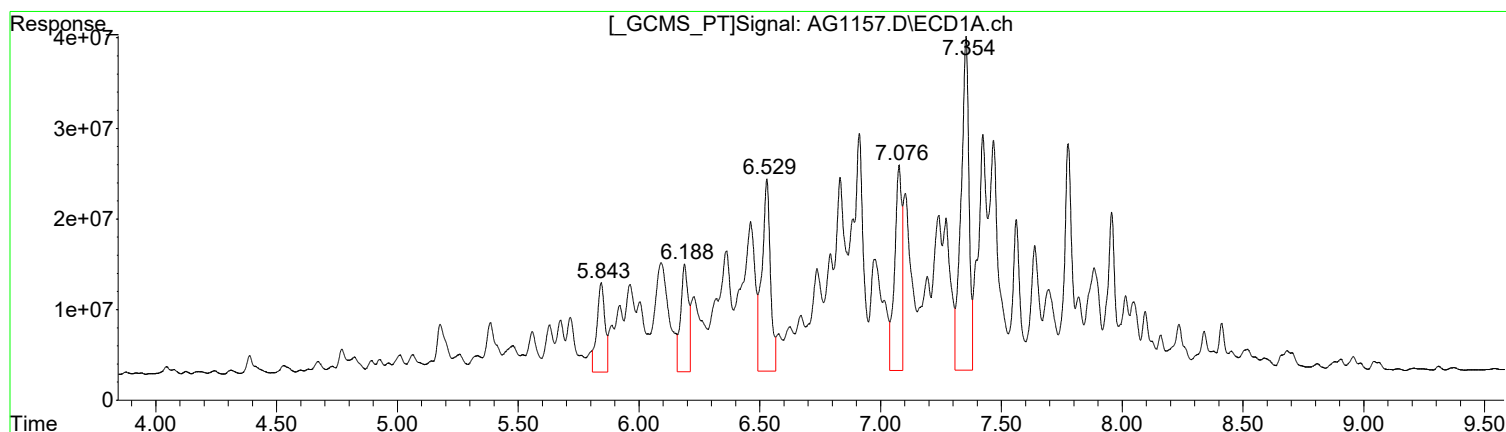
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 11:17 pm
Operator : AFelser
Sample : TOX ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:02:37 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:02:12 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	228194093	719.59
6.19	263862794	576.02
6.53	522833009	765.63
7.08	465931438	278.25
7.35	844457791	382.59

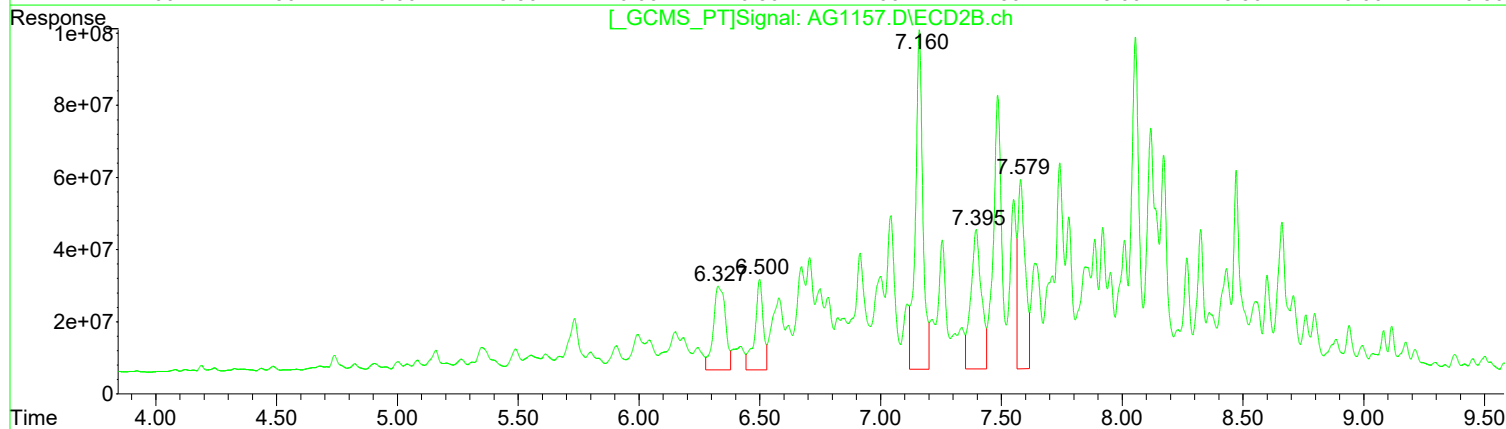
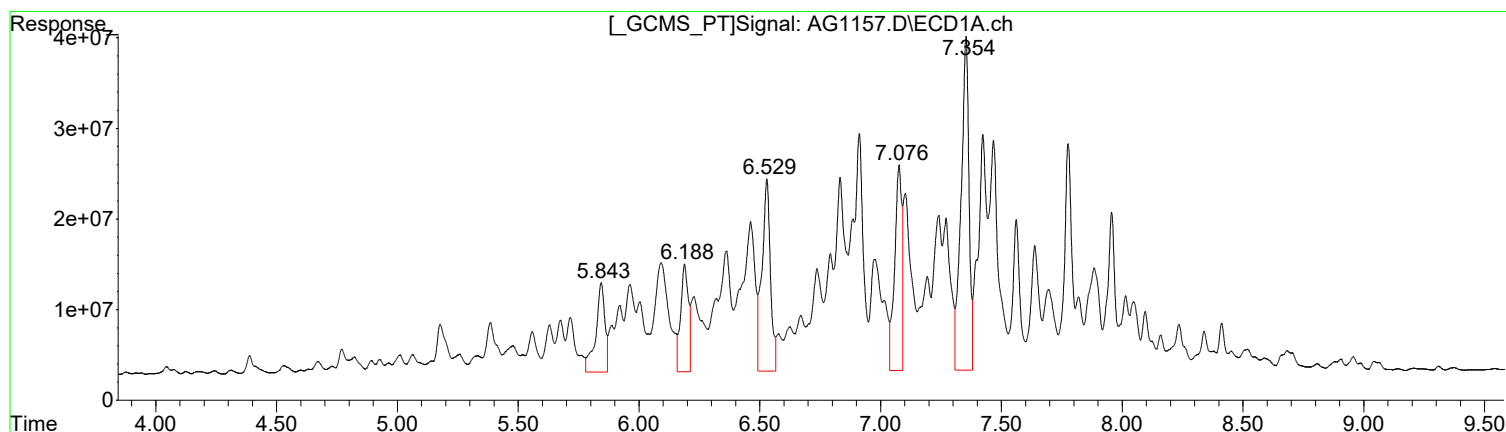
Manual Integration:
After
Poor integration.
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.33	421831896	392.04
6.50	530789381	527.14
7.16	1997023065	561.24
7.40	1185593066	529.94
7.58	1101423810	435.41

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 11:17 pm
Operator : AFelser
Sample : TOX ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:02:37 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:02:12 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
5.84	258655261	815.65
6.19	263862794	576.02
6.53	522833009	765.63
7.08	465931438	278.25
7.35	844457791	382.59

Manual Integration:
Before
03/29/23

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.33	812218403	754.86
6.50	604455453	600.30
7.16	1997023065	561.24
7.40	1185593066	529.94
7.58	1101423810	435.41

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 11:17 pm
Operator : AFelser
Sample : TOX ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:02:37 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:02:12 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
24 L8C Toxaphene	500.000	719.590	-43.9#	132	0.00
25 L8C Toxaphene{2}	500.000	576.022	-15.2	108	0.00
26 L8C Toxaphene{3}	500.000	765.634	-53.1#	143	0.00
27 L8C Toxaphene{4}	500.000	278.252	44.3#	53	0.00
28 L8C Toxaphene{5}	500.000	382.587	23.5#	73	0.00

Signal #2

24 L8C Toxaphene	500.000	392.045	21.6#	73	-0.02
25 L8C Toxaphene{2}	500.000	527.143	-5.4	98	0.00
26 L8C Toxaphene{3}	500.000	561.242	-12.2	111	0.00
27 L8C Toxaphene{4}	500.000	529.936	-6.0	103	0.00
28 L8C Toxaphene{5}	500.000	435.409	12.9	86	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	25.000	0.000	100.0#	0	-2.70#
2 tc alpha-BHC	25.000	0.000	100.0#	0	-3.15#
3 tcm gamma-BHC (L	25.000	0.000	100.0#	0	-3.43#
4 tcm Heptachlor	25.000	0.000	100.0#	0	-3.88#
5 tcm Aldrin	25.000	0.000	100.0#	0	-4.19#
6 tc beta-BHC	25.000	0.000	100.0#	0	-3.51#
7 TC delta-BHC	25.000	0.000	100.0#	0	-3.68#
8 tc Heptachlor E	25.000	0.000	100.0#	0	-4.88#
9 tc alpha-Endosu	25.000	0.000	100.0#	0	-5.38#
10 tc gamma-Chlord	25.000	0.000	100.0#	0	-5.04#
11 tc alpha-Chlord	25.000	0.000	100.0#	0	-5.20#
12 tc 4,4'-DDE	25.000	0.000	100.0#	0	-5.33#
13 tcm Dieldrin	25.000	0.000	100.0#	0	-5.70#
14 tcm Endrin	25.000	0.000	100.0#	0	-6.04#
15 tc beta-Endosul	25.000	0.000	100.0#	0	-6.37#
16 tc 4,4'-DDD	25.000	0.000	100.0#	0	-6.19#
17 tcm 4,4'-DDT	25.000	0.000	100.0#	0	-6.59#
18 tc Endrin Aldeh	25.000	0.000	100.0#	0	-6.94#
19 tc Endosulfan S	25.000	0.000	100.0#	0	-7.48#
20 tc Methoxychlor	25.000	0.000	100.0#	0	-7.25#
21 tc Endrin Keton	25.000	0.000	100.0#	0	-7.80#
22 tc Mirex	25.000	0.000	100.0#	0	-7.33#
23 S SURR2,Decachlorobiphenyl	25.000	0.000	100.0#	0	-8.90#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.80#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.34#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.81#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.04#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.20#

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1157.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 11:17 pm
 Operator : AFelser
 Sample : TOX ICV
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 10:02:37 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:02:12 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.77#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.20#

Signal #2

1 S SURR1,Tetrac	25.000	0.000	100.0#	0	-2.85#
2 tc alpha-BHC	25.000	0.000	100.0#	0	-3.38#
3 tcm gamma-BHC (L	25.000	0.000	100.0#	0	-3.74#
4 tcm Heptachlor	25.000	0.000	100.0#	0	-4.23#
5 tcm Aldrin	25.000	0.000	100.0#	0	-4.62#
6 tc beta-BHC	25.000	0.000	100.0#	0	-3.82#
7 tc delta-BHC	25.000	0.000	100.0#	0	-4.15#
8 tc Heptachlor E	25.000	0.000	100.0#	0	-5.36#
9 tc alpha-Endosu	25.000	0.000	100.0#	0	-5.94#
10 tc gamma-Chlord	25.000	0.000	100.0#	0	-5.63#
11 tc alpha-Chlord	25.000	0.000	100.0#	0	-5.85#
12 tc 4,4'-DDE	25.000	0.000	100.0#	0	-6.14#
13 tcm Dieldrin	25.000	0.000	100.0#	0	-6.35#
14 tcm Endrin	25.000	0.000	100.0#	0	-6.77#
15 tc beta-Endosul	25.000	0.000	100.0#	0	-7.05#
16 tc 4,4'-DDD	25.000	0.000	100.0#	0	-6.96#
17 tcm 4,4'-DDT	25.000	0.000	100.0#	0	-7.35#
18 tc Endrin Aldeh	25.000	0.000	100.0#	0	-7.47#
19 tc Endosulfan S	25.000	0.000	100.0#	0	-7.79#
20 tc Methoxychlor	25.000	0.000	100.0#	0	-8.13#
21 tc Endrin Keton	25.000	0.000	100.0#	0	-8.36#
22 tc Mirex	25.000	0.000	100.0#	0	-8.32#
23 S SURR2,Decachlorobiphenyl	25.000	0.000	100.0#	0	-9.55#
29 L9C Chlordane	100.000	0.000	100.0#	0	-4.07#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.80#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-5.63#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.78#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.85#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-12.99#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-13.57#

(#) = Out of Range

SPCC's out = 0 CCC's out = 61

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1157.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 11:17 pm
 Operator : AFelser
 Sample : TOX ICV
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 10:02:37 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 10:02:12 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

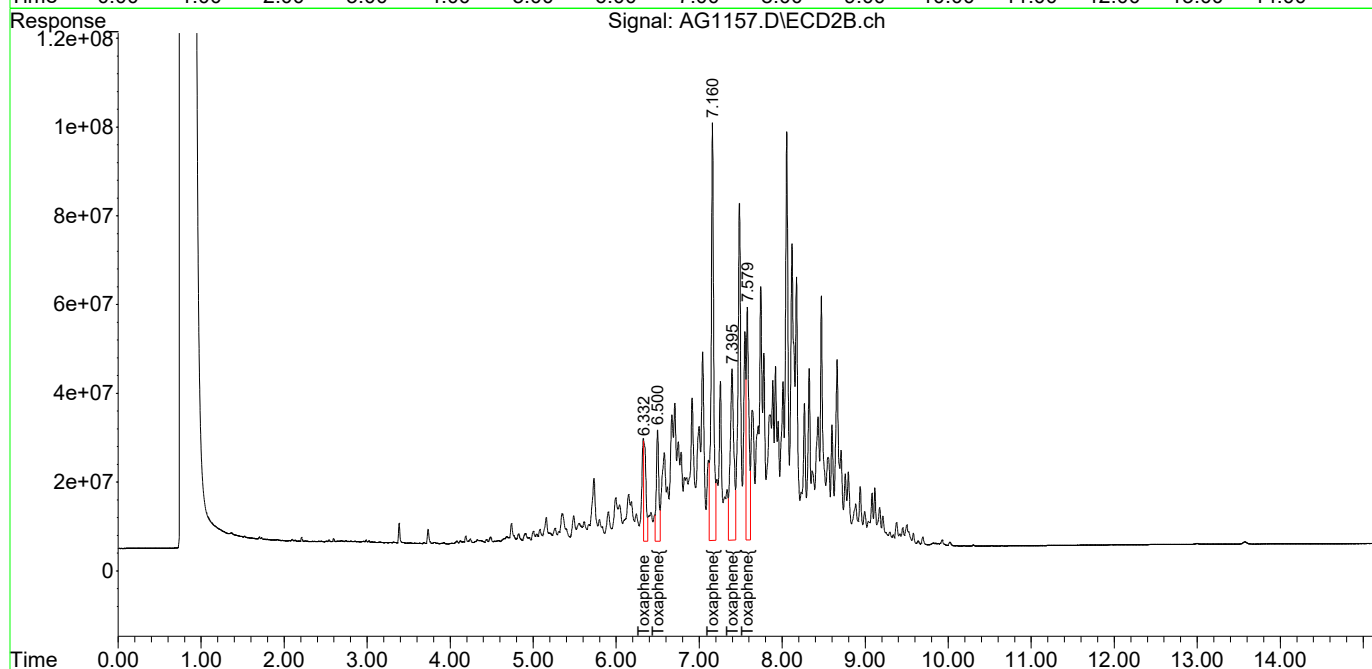
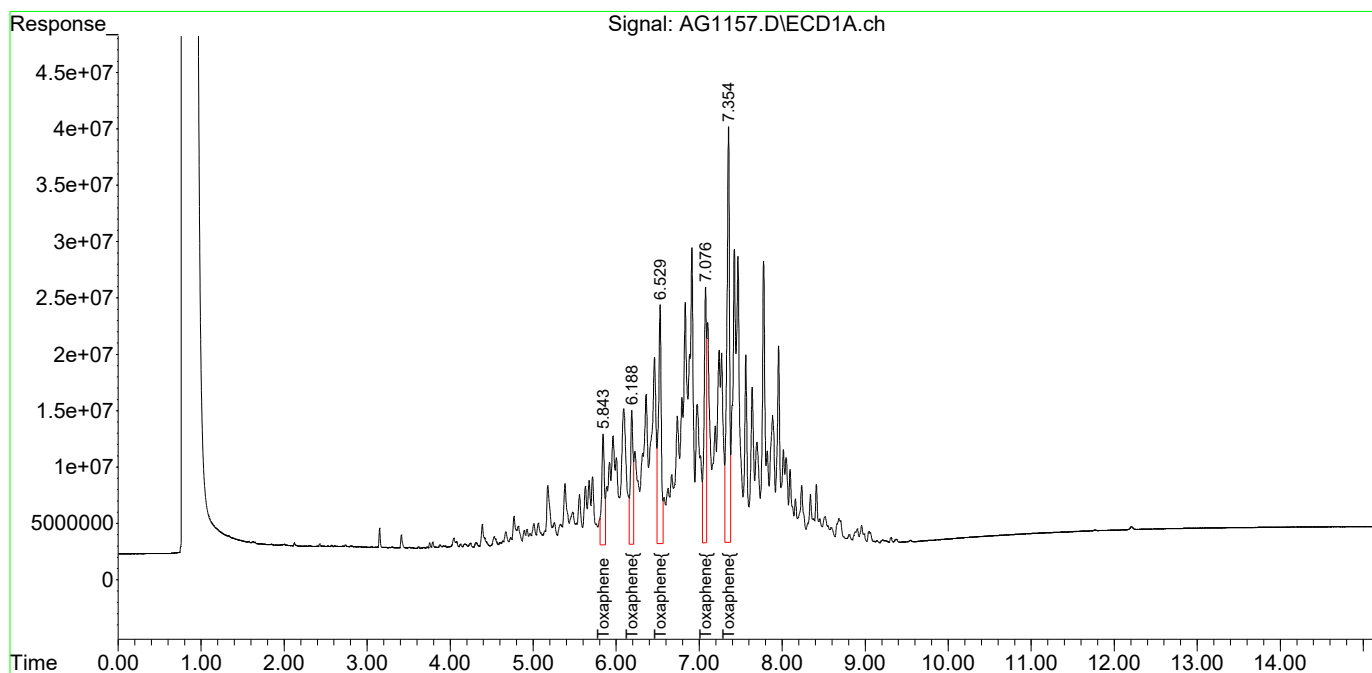
24) L8C Toxaphene	5.843	6.332f	228.2E6	421.8E6	719.590m	392.045m#
25) L8C Toxaphene{2}	6.189	6.500	263.9E6	530.8E6	576.022	527.143m
26) L8C Toxaphene{3}	6.530	7.161	522.8E6	1997.0E6	765.634	561.242 #
27) L8C Toxaphene{4}	7.077	7.396	465.9E6	1185.6E6	278.252	529.936 #
28) L8C Toxaphene{5}	7.354	7.580	844.5E6	1101.4E6	382.587	435.409
Sum Toxaphene			2325.3E6	5236.7E6	2722.085	2445.775
Average Toxaphene					544.417	489.155
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1157.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 11:17 pm
Operator : AFelser
Sample : TOX ICV
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:02:37 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:02:12 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 11:36 pm
 Operator : AFelser
 Sample : CHLOR LL
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:40 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

29) L9C Chlordane	3.799	4.066	6347813	20559230	4.588	5.485
30) L9C Chlordane{2}	4.342	4.807	8368769	26640030	4.865	6.091 #
31) L9C Chlordane{3}	4.807	5.632	4581700	77547783	4.761	5.562
32) L9C Chlordane{4}	5.036	5.780	25789038	68406837	4.371	5.504 #
33) L9C Chlordane{5}	5.196	5.856	39950563	63191544	4.392	5.535 #
Sum Chlordane			85037884	256.3E6	22.977	28.177
Average Chlordane					4.595	5.635

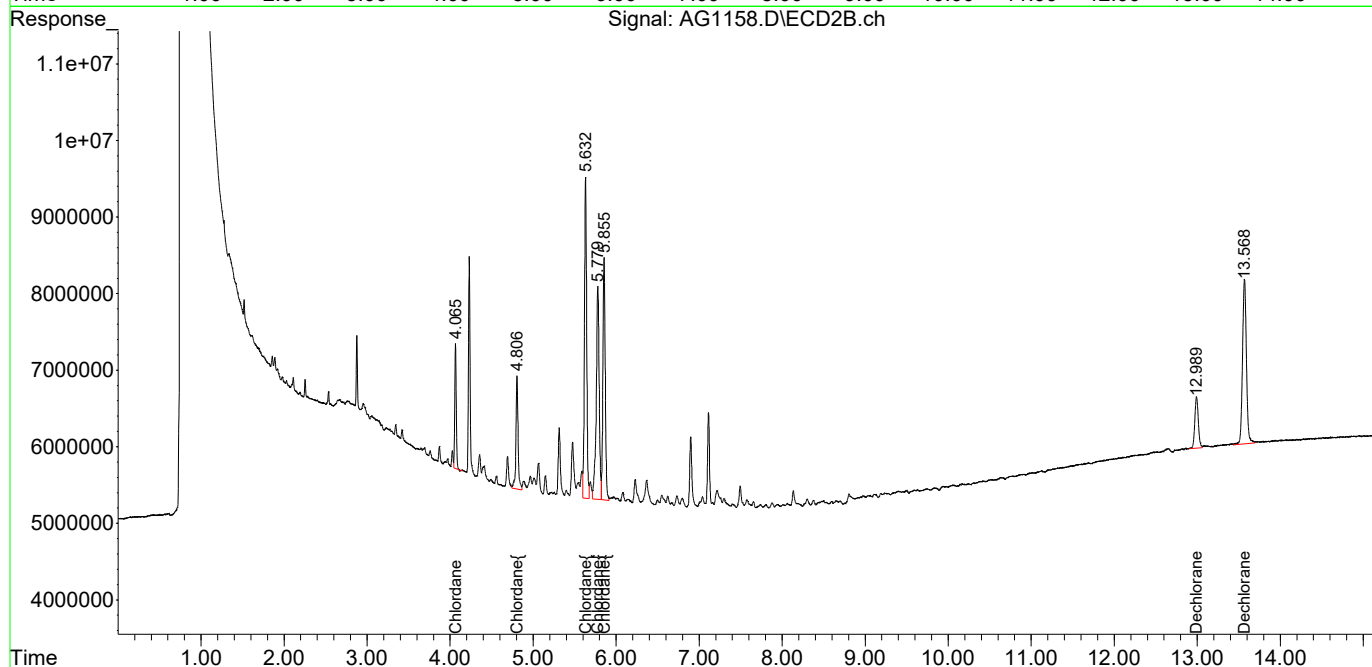
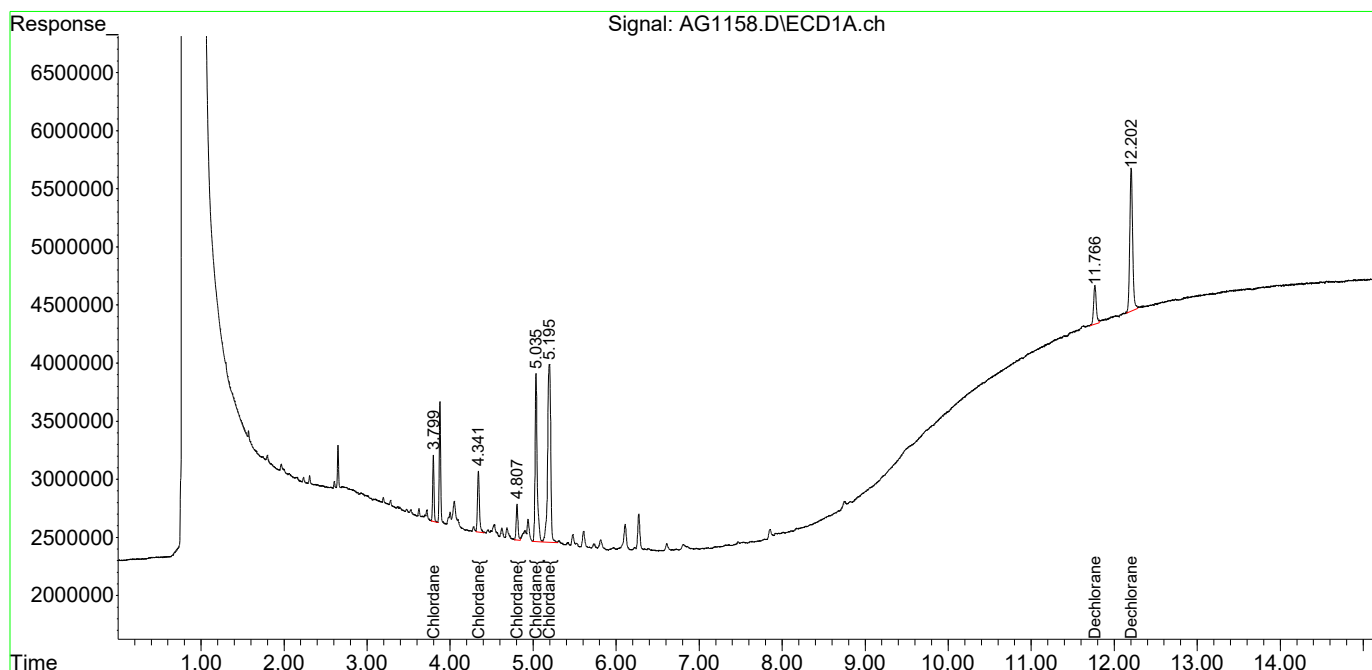
34) L10C Dechloran...	11.766	12.990	7493302	19696531	0.988	1.284 #
35) L10C Dechloran...	12.204	13.569	29476187	69966739	1.068	1.292
Sum Dechlorane			36969489	89663271	2.056	2.576
Average Dechlorane					1.028	1.288

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1158.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 11:36 pm
Operator : AFelser
Sample : CHLOR LL
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:40 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Mar 2023 11:56 pm
 Operator : AFelser
 Sample : CHLOR L
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:42 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

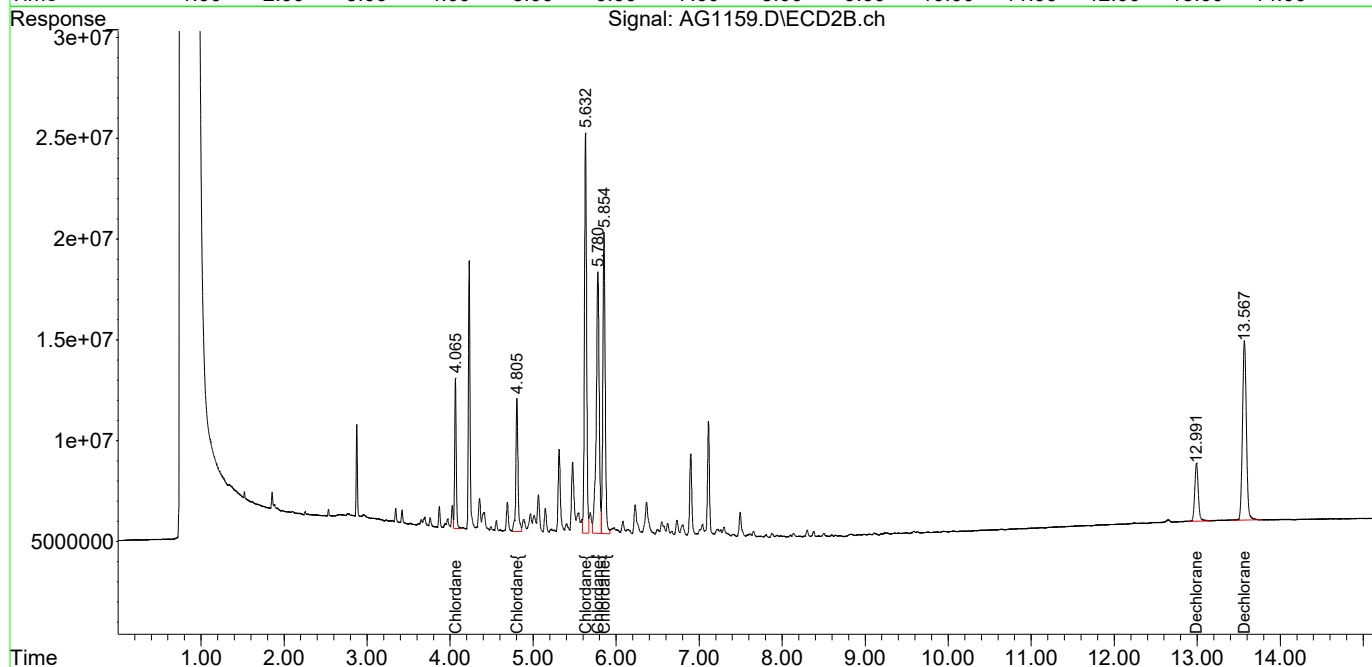
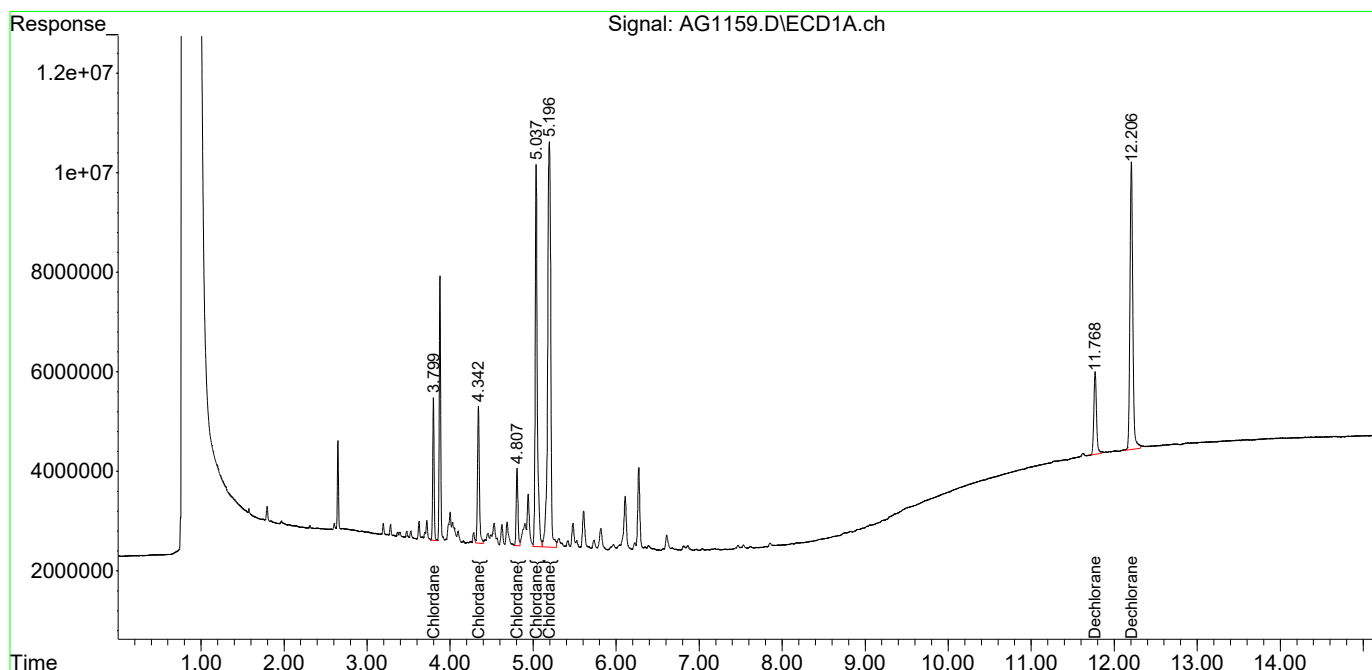
System Monitoring Compounds						
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
29) L9C Chlordane	3.800	4.065	33065673	97860997	23.897	26.106
30) L9C Chlordane{2}	4.342	4.806	42763717	119.6E6	24.859	27.346
31) L9C Chlordane{3}	4.807	5.632	22815592	353.9E6	23.708	25.380
32) L9C Chlordane{4}	5.037	5.781	134.8E6	317.9E6	22.852	25.573
33) L9C Chlordane{5}	5.196	5.855	214.1E6	295.6E6	23.539	25.892
Sum Chlordane			447.6E6	1184.8E6	118.855	130.297
Average Chlordane					23.771	26.059
34) L10C Dechloran...	11.769	12.990	36892947	85151929	4.866	5.551
35) L10C Dechloran...	12.206	13.568	137.9E6	292.6E6	4.996	5.403
Sum Dechlorane			174.8E6	377.7E6	9.862	10.954
Average Dechlorane					4.931	5.477

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1159.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Mar 2023 11:56 pm
Operator : AFelser
Sample : CHLOR L
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:42 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1160.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Mar 2023 12:15 am
 Operator : AFelser
 Sample : CHLOR ML
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:45 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

29) L9C Chlordane	3.799	4.066	68280027	192.4E6	49.347	51.329
30) L9C Chlordane{2}	4.342	4.805	87406090	228.4E6	50.811	52.223
31) L9C Chlordane{3}	4.807	5.632	47095389	712.0E6	48.938	51.064
32) L9C Chlordane{4}	5.036	5.780	287.7E6	633.8E6	48.760	50.995
33) L9C Chlordane{5}	5.194	5.854	448.4E6	586.2E6	49.294	51.343
Sum Chlordane			938.8E6	2352.8E6	247.150	256.954
Average Chlordane					49.430	51.391

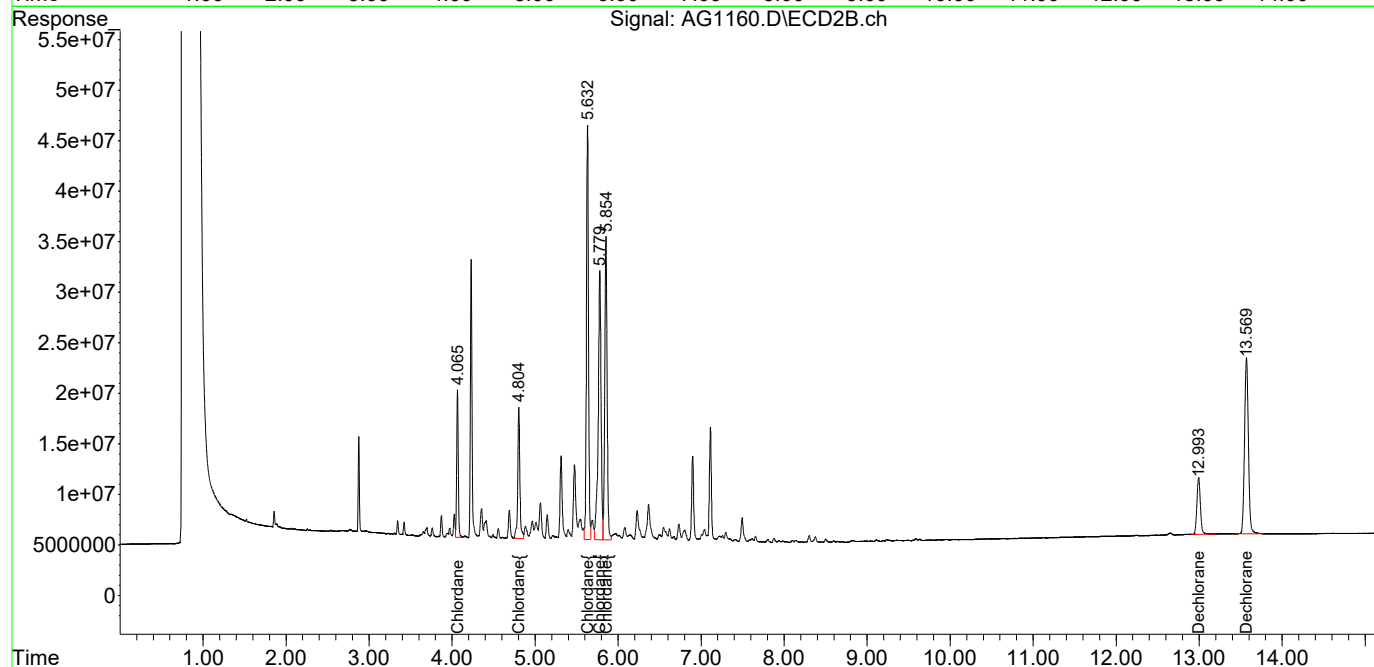
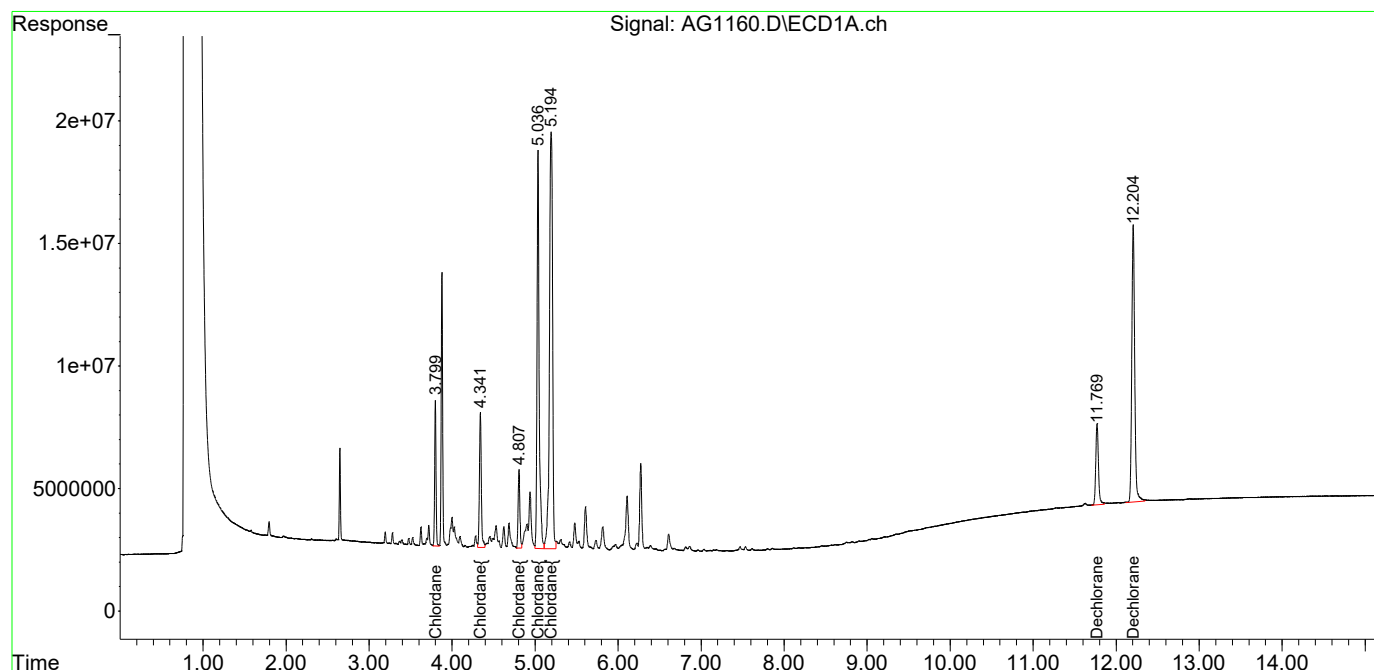
34) L10C Dechloran...	11.770	12.993	73995445	164.4E6	9.759	10.717
35) L10C Dechloran...	12.204	13.569	275.2E6	563.9E6	9.969	10.414
Sum Dechlorane			349.2E6	728.3E6	19.728	21.131
Average Dechlorane					9.864	10.566

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 12:15 am
Operator : AFelser
Sample : CHLOR ML
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:45 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

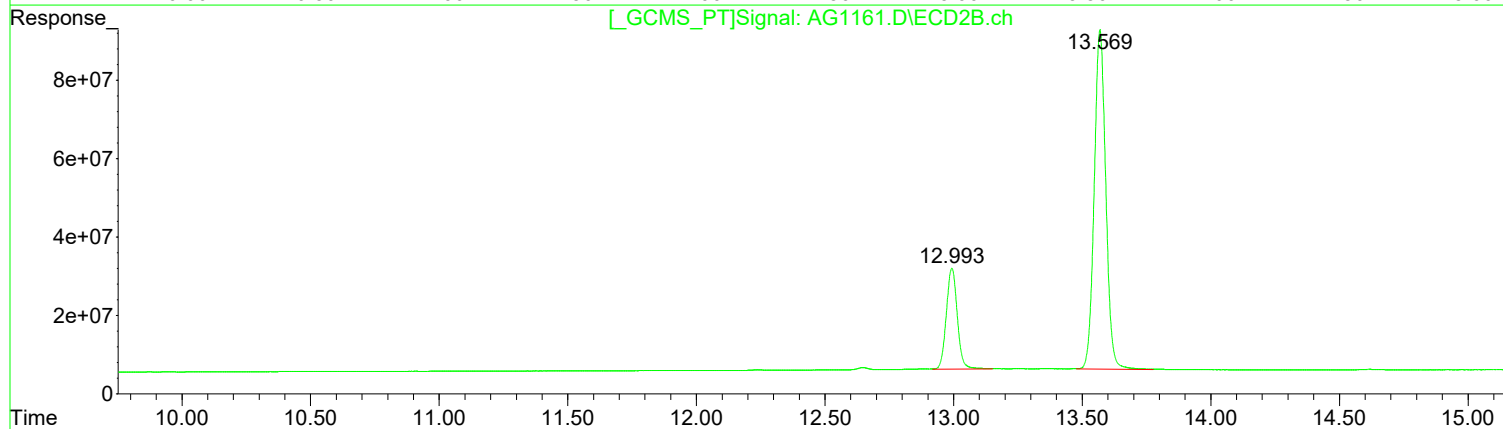
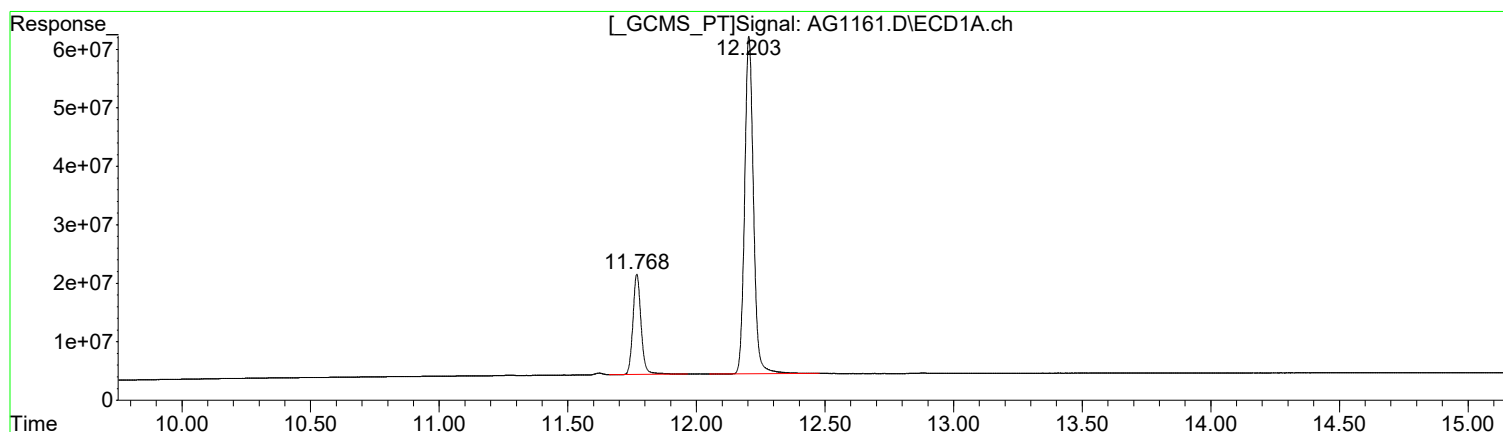
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 12:34 am
Operator : AFelser
Sample : CHLOR M
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:40:53 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Tue Mar 14 11:39:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(34) Dechlorane{1} (L10C)
R.T. Response Conc
11.77 379111825 64.64
12.20 1380391108 58.99

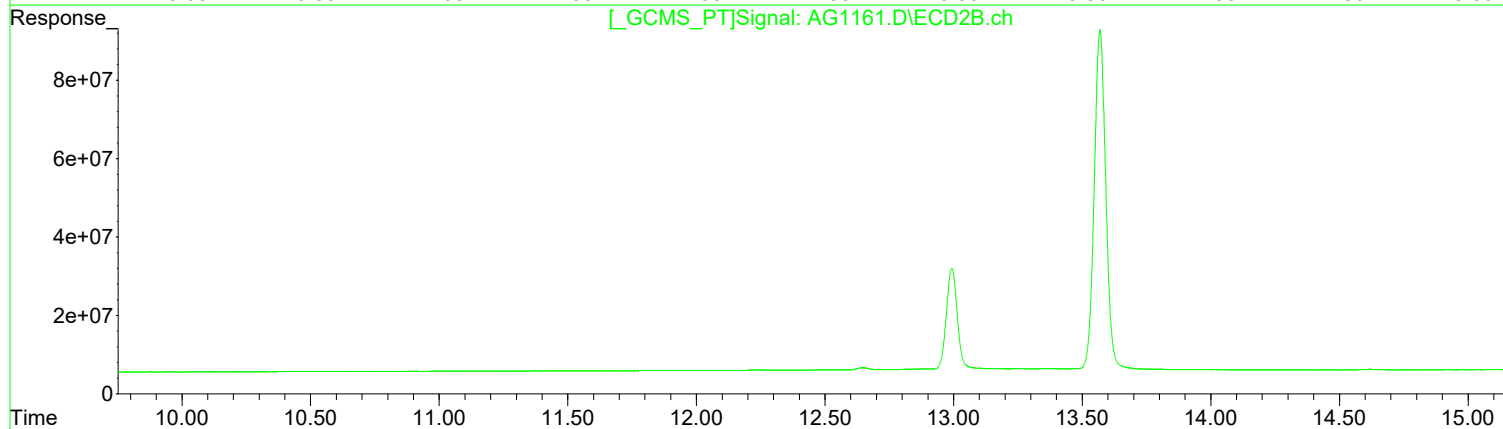
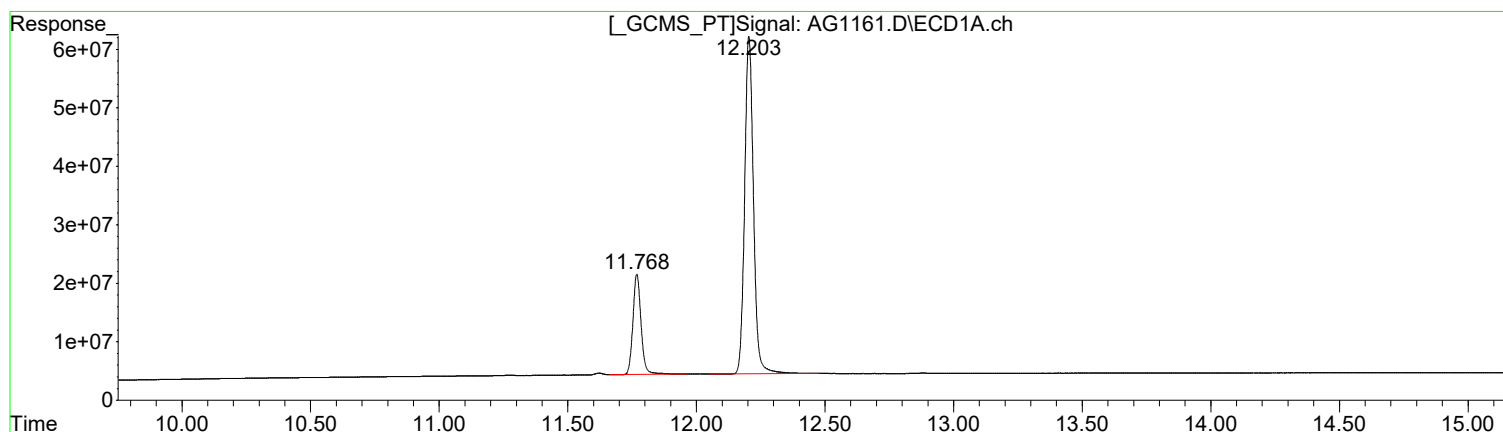
Manual Integration:
After
Peak not found.
03/29/23

(34) Dechlorane{1} #2 (L10C)
R.T. Response Conc
12.99 767035748 58.76
13.57 2707393314 55.49

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 12:34 am
Operator : AFelser
Sample : CHLOR M
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:40:53 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Tue Mar 14 11:39:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(34) Dechlorane{1} (L10C)
R.T. Response Conc
11.77 379111825 64.64
12.20 1380391108 58.99

Manual Integration:
Before

03/29/23

(34) Dechlorane{1} #2 (L10C)
R.T. Response Conc
0.00 0 0.00
0.00 0 0.00

Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1161.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Mar 2023 12:34 am
 Operator : AFelser
 Sample : CHLOR M
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:40:53 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Tue Mar 14 11:39:15 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

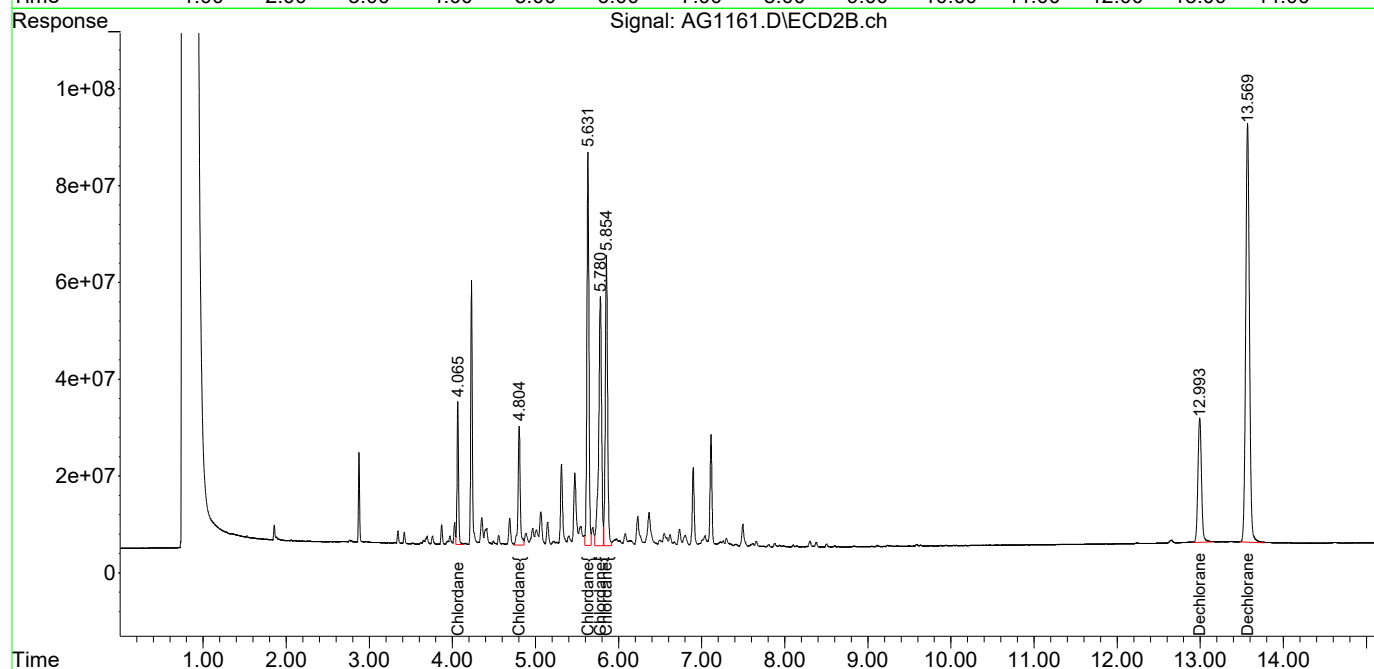
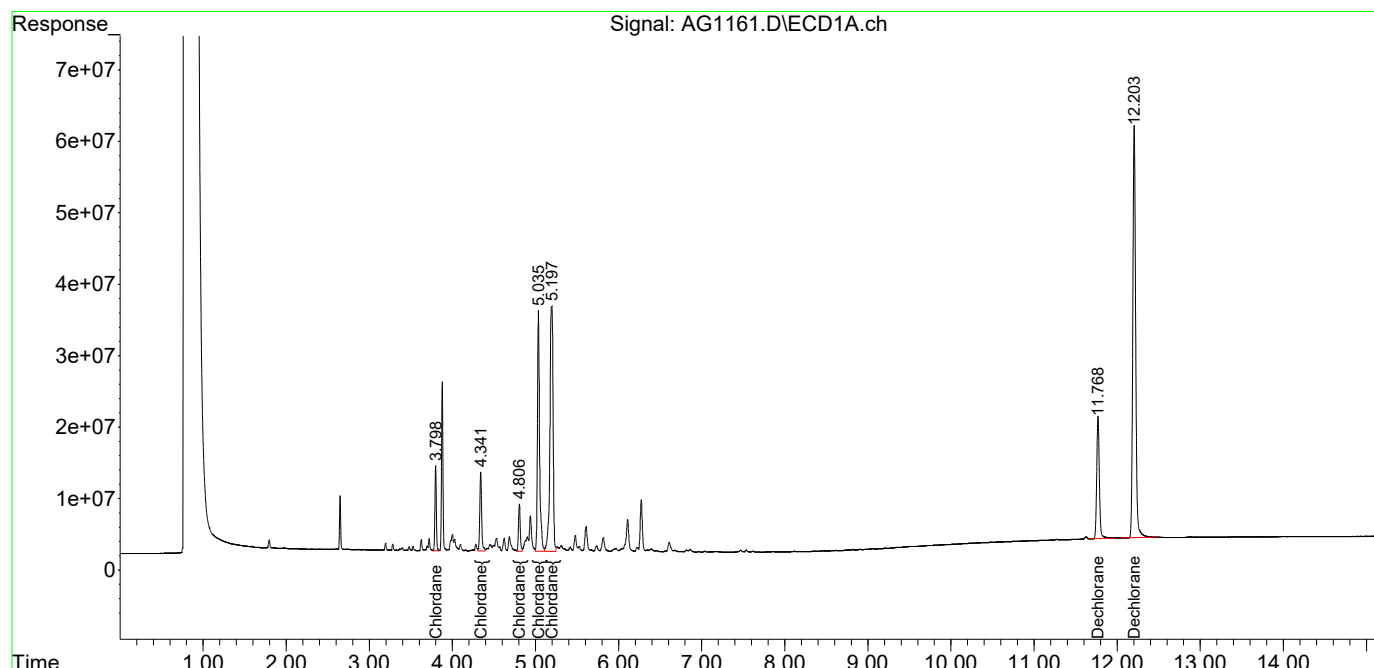
29) L9C Chlordane	3.799	4.065	138.4E6	374.9E6	113.909	101.881
30) L9C Chlordane{2}	4.342	4.804	172.0E6	437.3E6	113.946	100.271
31) L9C Chlordane{3}	4.806	5.631	96235511	1394.3E6	114.563	102.134
32) L9C Chlordane{4}	5.036	5.780	590.0E6	1243.0E6	118.439	102.308
33) L9C Chlordane{5}	5.197	5.855	909.6E6	1141.7E6	118.451	103.291
Sum Chlordane			1906.2E6	4591.1E6	579.309	509.884
Average Chlordane					115.862	101.977
34) L10C Dechloran...	11.768f	12.993f	379.1E6	767.0E6	64.636	58.765m
35) L10C Dechloran...	12.204f	13.569f	1380.4E6	2707.4E6	58.987	55.487m
Sum Dechlorane			1759.5E6	3474.4E6	123.623	114.252
Average Dechlorane					61.812	57.126

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1161.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 12:34 am
Operator : AFelser
Sample : CHLOR M
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:40:53 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Tue Mar 14 11:39:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1162.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Mar 2023 12:53 am
 Operator : AFelser
 Sample : CHLOR MH
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:48 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

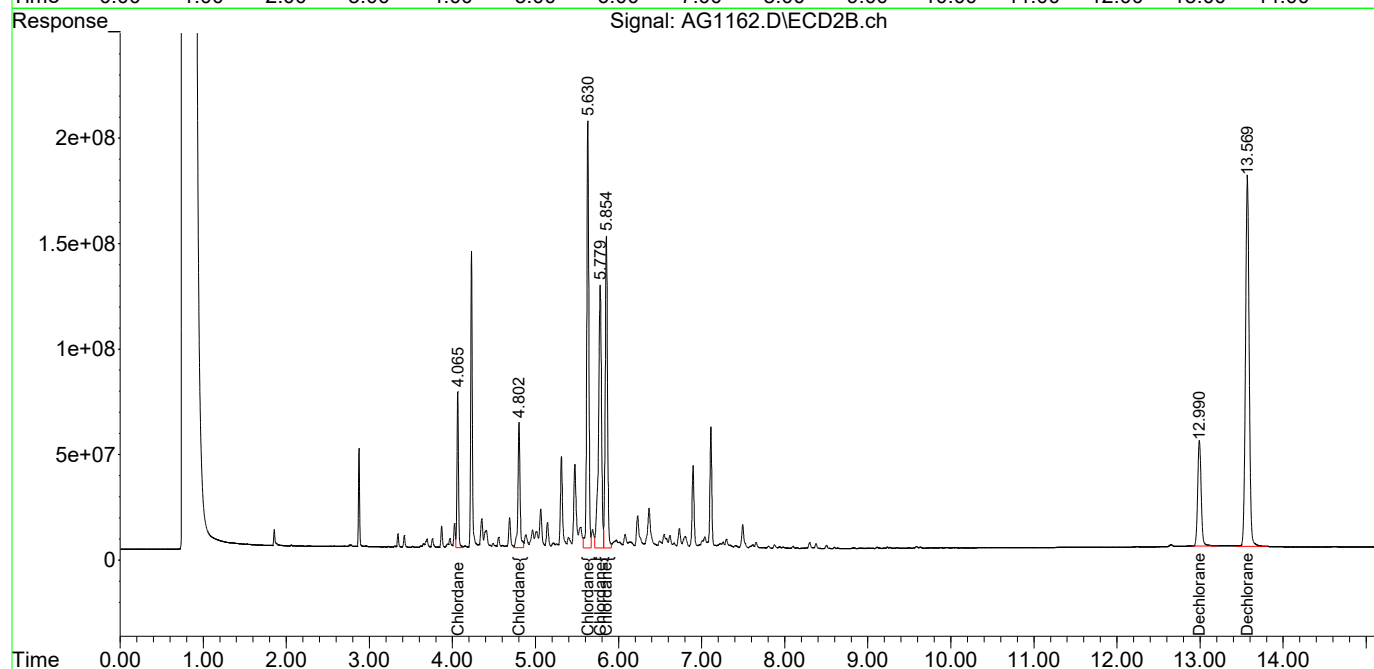
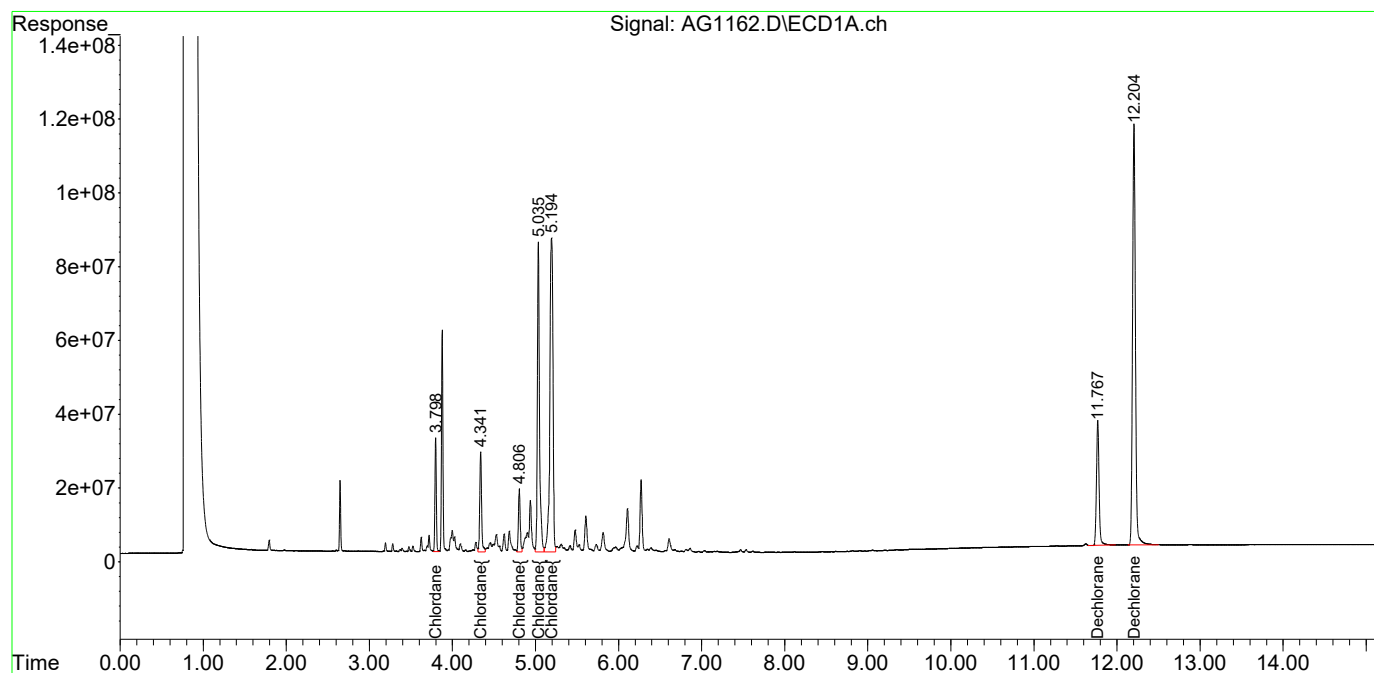
System Monitoring Compounds						
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
29) L9C Chlordane	3.799	4.065	359.4E6	931.8E6	259.733	248.567
30) L9C Chlordane{2}	4.341	4.803	425.8E6	1048.6E6	247.525	239.771
31) L9C Chlordane{3}	4.806	5.631	254.6E6	3529.8E6	264.609	253.164
32) L9C Chlordane{4}	5.036	5.779	1498.7E6	3082.3E6	254.029	247.978
33) L9C Chlordane{5}	5.194	5.854	2276.9E6	2804.4E6	250.318	245.647
Sum Chlordane			4815.4E6	11396.9E6	1276.214	1235.128
Average Chlordane					255.243	247.026
34) L10C Dechloran...	11.767	12.991	733.7E6	1465.8E6	96.765	95.548
35) L10C Dechloran...	12.204	13.569	2732.0E6	5391.1E6	98.957	99.563
Sum Dechlorane			3465.7E6	6856.9E6	195.722	195.112
Average Dechlorane					97.861	97.556

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1162.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 12:53 am
Operator : AFelser
Sample : CHLOR MH
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:48 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
 Data File : AG1163.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Mar 2023 01:12 am
 Operator : AFelser
 Sample : CHLOR H
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Mar 29 09:52:51 2023
 Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Wed Mar 29 09:47:43 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

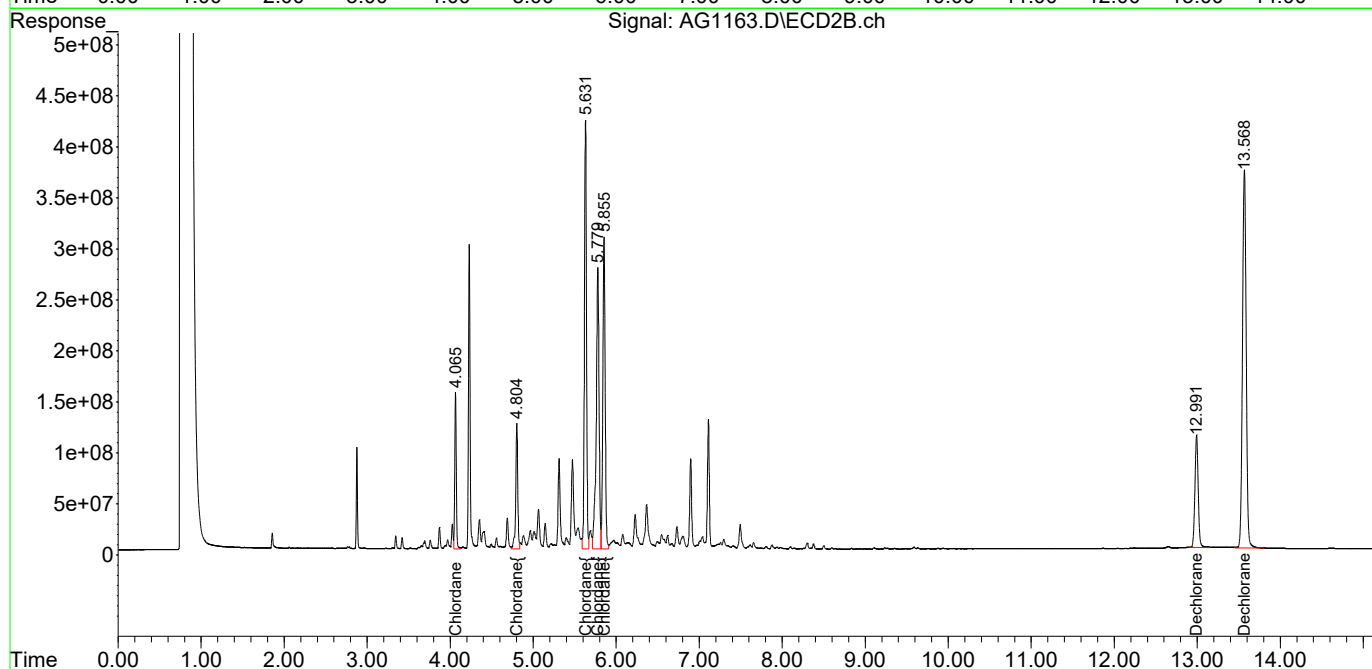
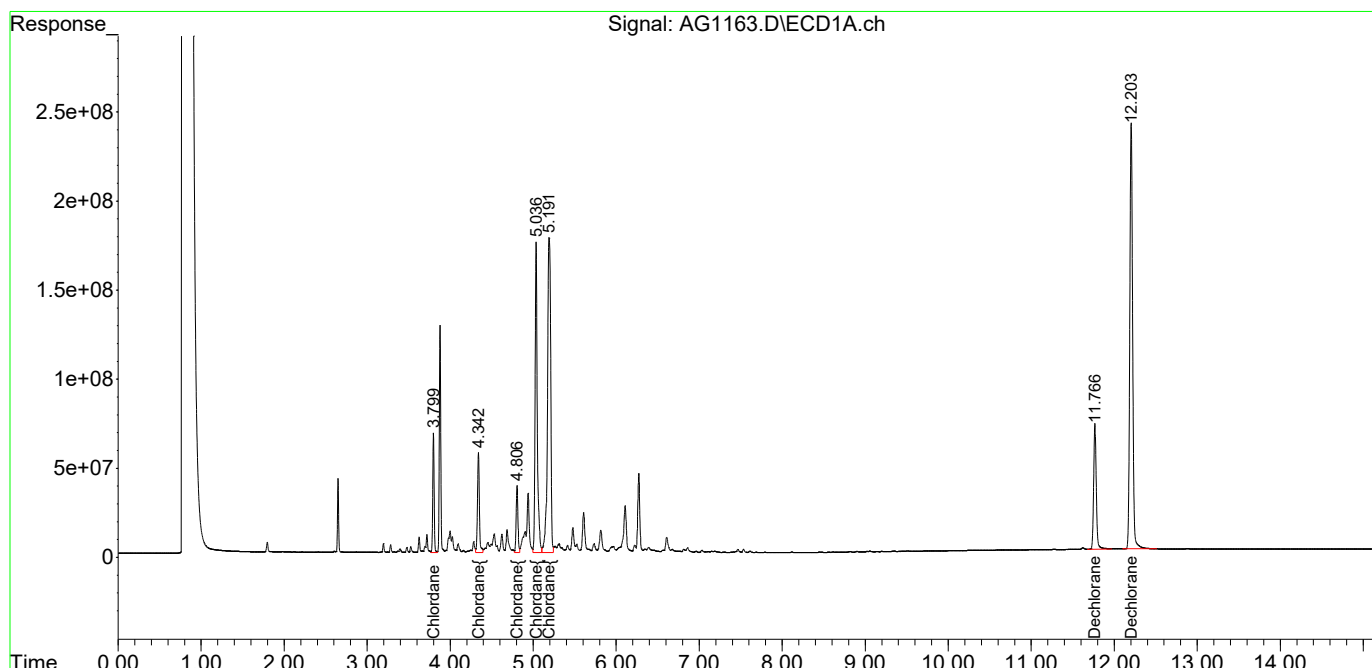
29) L9C Chlordane	3.800	4.066	772.9E6	1965.2E6	558.581	524.251
30) L9C Chlordane{2}	4.342	4.804	891.2E6	2069.8E6	518.082	473.276
31) L9C Chlordane{3}	4.807	5.631	557.9E6	7348.0E6	579.691	527.012
32) L9C Chlordane{4}	5.037	5.779	3180.9E6	6603.4E6	539.168	531.266
33) L9C Chlordane{5}	5.193	5.855	4794.2E6	5934.2E6	527.070	519.792
Sum Chlordane			10197.0E6	23920.6E6	2722.591	2575.597
Average Chlordane					544.518	515.119
34) L10C Dechloran...	11.766	12.992	1540.6E6	3040.2E6	203.188	198.178
35) L10C Dechloran...	12.203	13.568	5713.9E6	11526.7E6	206.966	212.875
Sum Dechlorane			7254.5E6	14566.9E6	410.155	411.053
Average Dechlorane					205.077	205.527

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1163.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 01:12 am
Operator : AFelser
Sample : CHLOR H
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 09:52:51 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 09:47:43 2023
Response via : Initial Calibration
Integrator: ChemStation

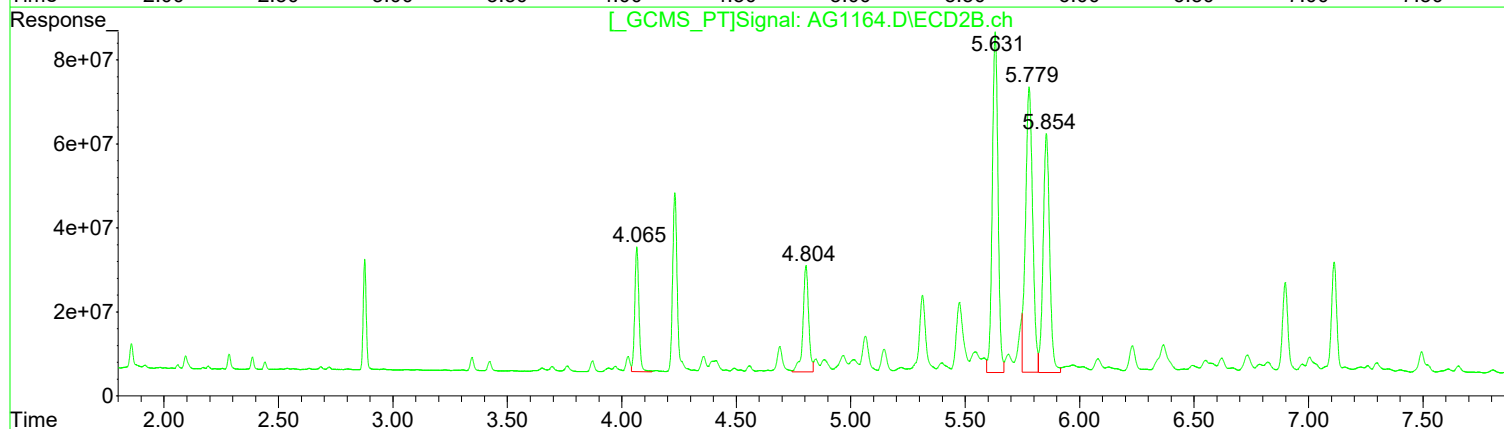
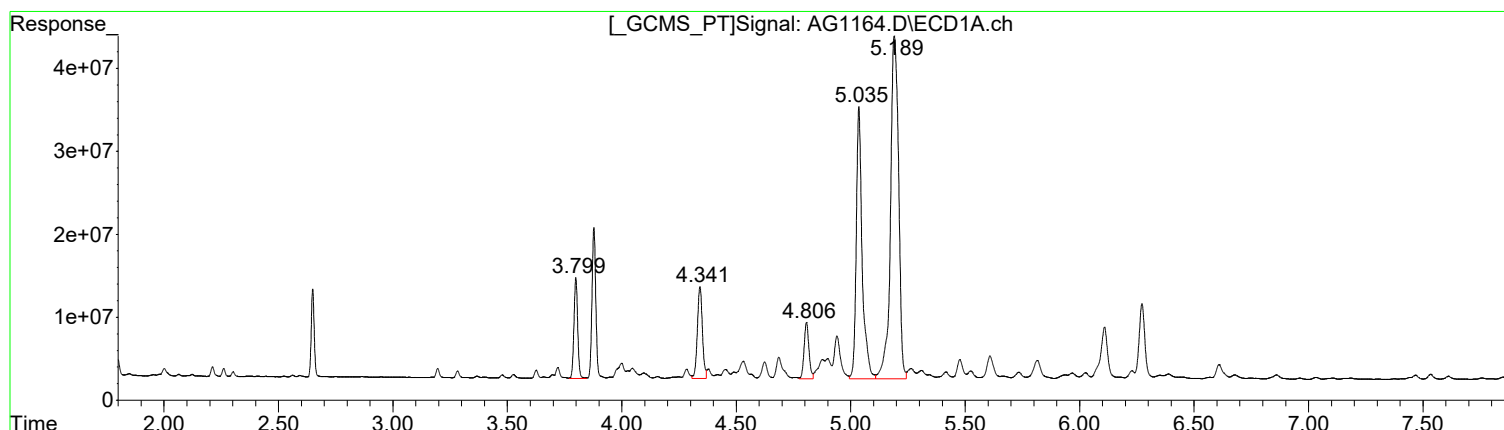
Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 01:31 am
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:07:01 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)	R.T.	Response	Conc
	3.80	138269452	99.66
	4.34	169256095	98.23
	4.81	99611059	101.86
	5.04	589807462	102.40
	5.19	1026220774	115.49

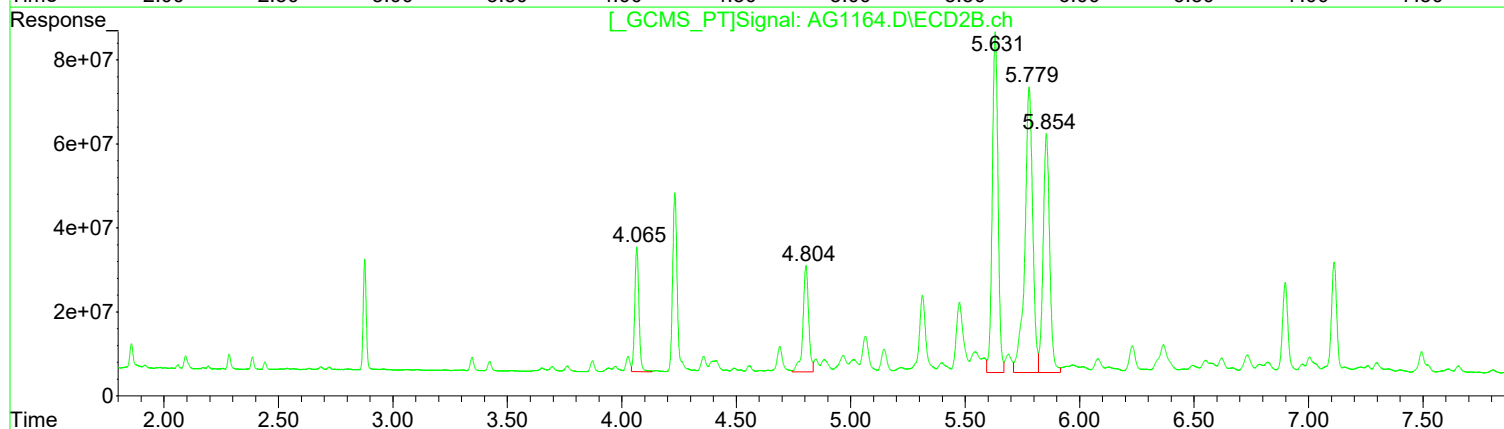
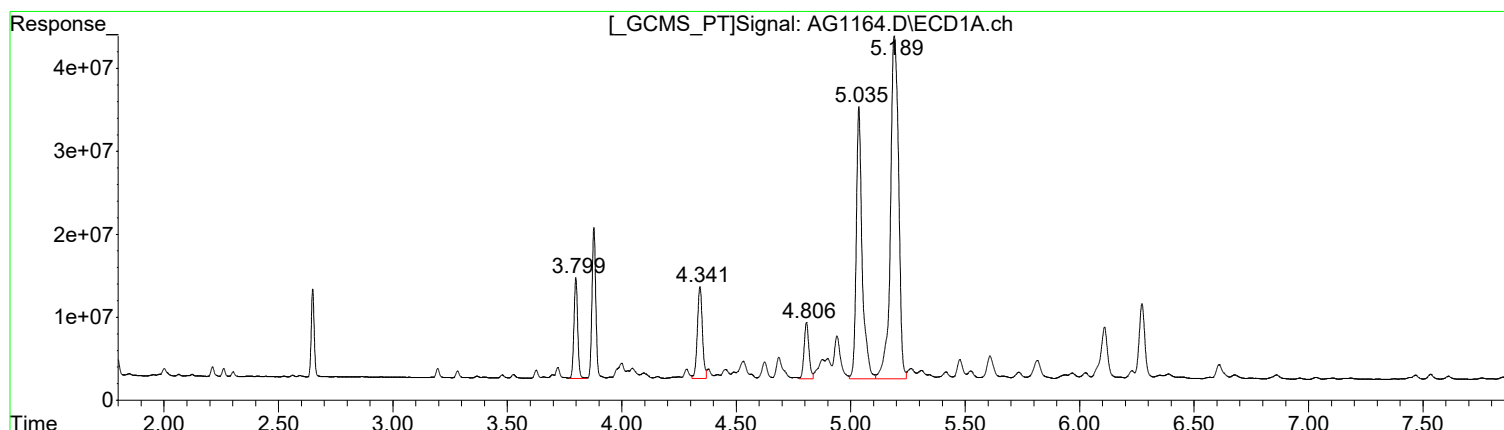
Manual Integration:
After
Poor integration.
03/29/23

(29) Chlordane #2 (L9C)	R.T.	Response	Conc
	4.07	380215566	97.99
	4.80	439368423	96.26
	5.63	1410027681	97.62
	5.78	1463387744	113.97
	5.85	1136661487	96.48

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 01:31 am
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:07:01 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)		
R.T.	Response	Conc
3.80	138269452	99.66
4.34	169256095	98.23
4.81	99611059	101.86
5.04	589807462	102.40
5.19	1026220774	115.49

Manual Integration:
Before
03/29/23

(29) Chlordane #2 (L9C)		
R.T.	Response	Conc
4.07	380215566	97.99
4.80	439368423	96.26
5.63	1410027681	97.62
5.78	1624885733	126.55
5.85	1136661487	96.48

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 01:31 am
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:07:01 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29 L9C Chlordane	100.000	99.656	0.3	100	0.00
30 L9C Chlordane{2}	100.000	98.231	1.8	98	0.00
31 L9C Chlordane{3}	100.000	101.860	-1.9	104	0.00
32 L9C Chlordane{4}	100.000	102.398	-2.4	100	0.00
33 L9C Chlordane{5}	100.000	115.492	-15.5	113	0.00
34 L10CDechlorane{1}	50.000	53.230	-6.5	105	0.00
35 L10CDechlorane{2}	50.000	52.491	-5.0	107	0.00

Signal #2

29 L9C Chlordane	100.000	97.992	2.0	101	0.00
30 L9C Chlordane{2}	100.000	96.258	3.7	100	0.00
31 L9C Chlordane{3}	100.000	97.623	2.4	101	0.00
32 L9C Chlordane{4}	100.000	113.973	-14.0	118	0.00
33 L9C Chlordane{5}	100.000	96.480	3.5	100	0.00
34 L10CDechlorane{1}	50.000	49.434	1.1	106	0.00
35 L10CDechlorane{2}	50.000	49.760	0.5	107	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	25.000	0.000	100.0#	0	-2.70#
2 tc alpha-BHC	25.000	0.000	100.0#	0	-3.15#
3 tcm gamma-BHC (L	25.000	0.000	100.0#	0	-3.43#
4 tcm Heptachlor	25.000	0.000	100.0#	0	-3.88#
5 tcm Aldrin	25.000	0.000	100.0#	0	-4.19#
6 tc beta-BHC	25.000	0.000	100.0#	0	-3.51#
7 TC delta-BHC	25.000	0.000	100.0#	0	-3.68#
8 tc Heptachlor E	25.000	0.000	100.0#	0	-4.88#
9 tc alpha-Endosu	25.000	0.000	100.0#	0	-5.38#
10 tc gamma-Chlord	25.000	0.000	100.0#	0	-5.04#
11 tc alpha-Chlord	25.000	0.000	100.0#	0	-5.20#
12 tc 4,4'-DDE	25.000	0.000	100.0#	0	-5.33#
13 tcm Dieldrin	25.000	0.000	100.0#	0	-5.70#
14 tcm Endrin	25.000	0.000	100.0#	0	-6.04#
15 tc beta-Endosul	25.000	0.000	100.0#	0	-6.37#
16 tc 4,4'-DDD	25.000	0.000	100.0#	0	-6.19#
17 tcm 4,4'-DDT	25.000	0.000	100.0#	0	-6.59#
18 tc Endrin Aldeh	25.000	0.000	100.0#	0	-6.94#
19 tc Endosulfan S	25.000	0.000	100.0#	0	-7.48#
20 tc Methoxychlor	25.000	0.000	100.0#	0	-7.25#
21 tc Endrin Keton	25.000	0.000	100.0#	0	-7.80#
22 tc Mirex	25.000	0.000	100.0#	0	-7.33#
23 S SURR2,Decachlorobiphenyl	25.000	0.000	100.0#	0	-8.90#
24 L8C Toxaphene	500.000	0.000	100.0#	0	-5.84#

Data Path : I:\ACQUDATA\7890N.net\data\032823\
Data File : AG1164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Mar 2023 01:31 am
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Mar 29 10:07:01 2023
Quant Method : I:\ACQUDATA\7890N.net\Methods\8081-032823.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Wed Mar 29 10:06:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : DB-CLP Signal #2 Phase: DB-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.19#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-6.53#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.07#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.35#

Signal #2

1 S SURR1,Tetrac	25.000	0.000	100.0#	0	-2.85#
2 tc alpha-BHC	25.000	0.000	100.0#	0	-3.38#
3 tcm gamma-BHC (L	25.000	0.000	100.0#	0	-3.74#
4 tcm Heptachlor	25.000	0.000	100.0#	0	-4.23#
5 tcm Aldrin	25.000	0.000	100.0#	0	-4.62#
6 tc beta-BHC	25.000	0.000	100.0#	0	-3.82#
7 tc delta-BHC	25.000	0.000	100.0#	0	-4.15#
8 tc Heptachlor E	25.000	0.000	100.0#	0	-5.36#
9 tc alpha-Endosu	25.000	0.000	100.0#	0	-5.94#
10 tc gamma-Chlord	25.000	0.000	100.0#	0	-5.63#
11 tc alpha-Chlord	25.000	0.000	100.0#	0	-5.85#
12 tc 4,4'-DDE	25.000	0.000	100.0#	0	-6.14#
13 tcm Dieldrin	25.000	0.000	100.0#	0	-6.35#
14 tcm Endrin	25.000	0.000	100.0#	0	-6.77#
15 tc beta-Endosul	25.000	0.000	100.0#	0	-7.05#
16 tc 4,4'-DDD	25.000	0.000	100.0#	0	-6.96#
17 tcm 4,4'-DDT	25.000	0.000	100.0#	0	-7.35#
18 tc Endrin Aldeh	25.000	0.000	100.0#	0	-7.47#
19 tc Endosulfan S	25.000	0.000	100.0#	0	-7.79#
20 tc Methoxychlor	25.000	0.000	100.0#	0	-8.13#
21 tc Endrin Keton	25.000	0.000	100.0#	0	-8.36#
22 tc Mirex	25.000	0.000	100.0#	0	-8.32#
23 S SURR2,Decachlorobiphenyl	25.000	0.000	100.0#	0	-9.55#
24 L8C Toxaphene	500.000	0.000	100.0#	0	-6.35#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.50#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-7.16#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.39#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.58#

(#) = Out of Range

SPCC's out = 0 CCC's out = 52

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson

Service Request: R2302240
Calibration Date: 3/28/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography

Calibration ID: RC2300025
Instrument ID: R-GC-63

Signal ID: DB-CLP

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2300025-01	8081 LL	I:\ACQUADATA\7890N.net\data\032823\AG1144.D	03/28/2023 19:09
02	RC2300025-02	8081 L	I:\ACQUADATA\7890N.net\data\032823\AG1145.D	03/28/2023 19:28
03	RC2300025-03	8081 ML	I:\ACQUADATA\7890N.net\data\032823\AG1146.D	03/28/2023 19:47
04	RC2300025-04	8081 M	I:\ACQUADATA\7890N.net\data\032823\AG1147.D	03/28/2023 20:06
05	RC2300025-05	8081 MH	I:\ACQUADATA\7890N.net\data\032823\AG1148.D	03/28/2023 20:25
06	RC2300025-06	8081 H	I:\ACQUADATA\7890N.net\data\032823\AG1149.D	03/28/2023 20:44
08	RC2300025-08	TOX LL	I:\ACQUADATA\7890N.net\data\032823\AG1151.D	03/28/2023 21:23
09	RC2300025-09	TOX L	I:\ACQUADATA\7890N.net\data\032823\AG1152.D	03/28/2023 21:42
10	RC2300025-10	TOX ML	I:\ACQUADATA\7890N.net\data\032823\AG1153.D	03/28/2023 22:01
11	RC2300025-11	TOX M	I:\ACQUADATA\7890N.net\data\032823\AG1154.D	03/28/2023 22:20
12	RC2300025-12	TOX MH	I:\ACQUADATA\7890N.net\data\032823\AG1155.D	03/28/2023 22:39
13	RC2300025-13	TOX H	I:\ACQUADATA\7890N.net\data\032823\AG1156.D	03/28/2023 22:58
15	RC2300025-15	CHLOR LL	I:\ACQUADATA\7890N.net\data\032823\AG1158.D	03/28/2023 23:36
16	RC2300025-16	CHLOR L	I:\ACQUADATA\7890N.net\data\032823\AG1159.D	03/28/2023 23:56
17	RC2300025-17	CHLOR ML	I:\ACQUADATA\7890N.net\data\032823\AG1160.D	03/29/2023 00:15
18	RC2300025-18	CHLOR M	I:\ACQUADATA\7890N.net\data\032823\AG1161.D	03/29/2023 00:34
19	RC2300025-19	CHLOR MH	I:\ACQUADATA\7890N.net\data\032823\AG1162.D	03/29/2023 00:53
20	RC2300025-20	CHLOR H	I:\ACQUADATA\7890N.net\data\032823\AG1163.D	03/29/2023 01:12

Analyte

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.242E7	02	5.000	2.154E7	03	10.000	2.389E7	04	25.000	2.163E7
05	50.000	2.108E7	06	100.000	1.767E7						

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	4.162E7	02	5.000	3.915E7	03	10.000	4.38E7	04	25.000	4.013E7
05	50.000	3.9E7	06	100.000	3.657E7						

alpha-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	5.01E7	02	5.000	5.649E7	03	10.000	6.692E7	04	25.000	6.382E7
05	50.000	6.422E7	06	100.000	6.258E7						

beta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.436E7	02	5.000	2.326E7	03	10.000	2.616E7	04	25.000	2.428E7
05	50.000	2.394E7	06	100.000	2.297E7						

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	4.654E7	02	5.000	4.966E7	03	10.000	6.036E7	04	25.000	5.826E7

Client: Olin Corporation
Project: Charles Gibson

Service Request: R2302240
Calibration Date: 3/28/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography

Calibration ID: RC2300025
Instrument ID: R-GC-63

Signal ID: DB-CLP

Analyte

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	5.866E7	06	100.000	5.678E7						

gamma-BHC (Lindane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	4.938E7	02	5.000	5.382E7	03	10.000	6.306E7	04	25.000	5.975E7
05	50.000	5.974E7	06	100.000	5.771E7						

Client: Olin Corporation
Project: Charles Gibson

Service Request: R2302240
Calibration Date: 3/28/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography

Calibration ID: RC2300025
Instrument ID: R-GC-63

Signal ID: DB-CLP

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Decachlorobiphenyl	SURR	Average RF	% RSD	9.7	20	2.137E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	6.2	20	4.005E7	
alpha-BHC	TRG	Average RF	% RSD	10.3	20	6.069E7	
beta-BHC	TRG	Average RF	% RSD	4.7	20	2.416E7	
delta-BHC	TRG	Average RF	% RSD	10.1	20	5.504E7	
gamma-BHC (Lindane)	TRG	Average RF	% RSD	8.6	20	5.724E7	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson

Service Request: R2302240
Calibration Date: 3/28/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography

Calibration ID: RC2300025
Instrument ID: R-GC-63

Signal ID: DB-CLPII

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2300025-01	8081 LL	I:\ACQUDATA\7890N.net\data\032823\AG1144.D	03/28/2023 19:09
02	RC2300025-02	8081 L	I:\ACQUDATA\7890N.net\data\032823\AG1145.D	03/28/2023 19:28
03	RC2300025-03	8081 ML	I:\ACQUDATA\7890N.net\data\032823\AG1146.D	03/28/2023 19:47
04	RC2300025-04	8081 M	I:\ACQUDATA\7890N.net\data\032823\AG1147.D	03/28/2023 20:06
05	RC2300025-05	8081 MH	I:\ACQUDATA\7890N.net\data\032823\AG1148.D	03/28/2023 20:25
06	RC2300025-06	8081 H	I:\ACQUDATA\7890N.net\data\032823\AG1149.D	03/28/2023 20:44
08	RC2300025-08	TOX LL	I:\ACQUDATA\7890N.net\data\032823\AG1151.D	03/28/2023 21:23
09	RC2300025-09	TOX L	I:\ACQUDATA\7890N.net\data\032823\AG1152.D	03/28/2023 21:42
10	RC2300025-10	TOX ML	I:\ACQUDATA\7890N.net\data\032823\AG1153.D	03/28/2023 22:01
11	RC2300025-11	TOX M	I:\ACQUDATA\7890N.net\data\032823\AG1154.D	03/28/2023 22:20
12	RC2300025-12	TOX MH	I:\ACQUDATA\7890N.net\data\032823\AG1155.D	03/28/2023 22:39
13	RC2300025-13	TOX H	I:\ACQUDATA\7890N.net\data\032823\AG1156.D	03/28/2023 22:58
15	RC2300025-15	CHLOR LL	I:\ACQUDATA\7890N.net\data\032823\AG1158.D	03/28/2023 23:36
16	RC2300025-16	CHLOR L	I:\ACQUDATA\7890N.net\data\032823\AG1159.D	03/28/2023 23:56
17	RC2300025-17	CHLOR ML	I:\ACQUDATA\7890N.net\data\032823\AG1160.D	03/29/2023 00:15
18	RC2300025-18	CHLOR M	I:\ACQUDATA\7890N.net\data\032823\AG1161.D	03/29/2023 00:34
19	RC2300025-19	CHLOR MH	I:\ACQUDATA\7890N.net\data\032823\AG1162.D	03/29/2023 00:53
20	RC2300025-20	CHLOR H	I:\ACQUDATA\7890N.net\data\032823\AG1163.D	03/29/2023 01:12

Analyte

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	5.41E7	02	5.000	4.559E7	03	10.000	4.799E7	04	25.000	4.394E7
05	50.000	4.11E7	06	100.000	3.749E7						

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.12E8	02	5.000	1.015E8	03	10.000	1.115E8	04	25.000	1.057E8
05	50.000	1.021E8	06	100.000	9.784E7						

alpha-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.465E8	02	5.000	1.482E8	03	10.000	1.697E8	04	25.000	1.669E8
05	50.000	1.681E8	06	100.000	1.734E8						

beta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	7.601E7	02	5.000	6.566E7	03	10.000	6.973E7	04	25.000	6.41E7
05	50.000	6.198E7	06	100.000	5.938E7						

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.353E8	02	5.000	1.352E8	03	10.000	1.546E8	04	25.000	1.517E8

Client: Olin Corporation
Project: Charles Gibson

Service Request: R2302240
Calibration Date: 3/28/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography

Calibration ID: RC2300025
Instrument ID: R-GC-63

Signal ID: DB-CLPII

Analyte

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	50.000	1.532E8	06	100.000	1.527E8						

gamma-BHC (Lindane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.433E8	02	5.000	1.404E8	03	10.000	1.588E8	04	25.000	1.549E8
05	50.000	1.547E8	06	100.000	1.556E8						

Client: Olin Corporation
Project: Charles Gibson

Service Request: R2302240
Calibration Date: 3/28/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography

Calibration ID: RC2300025
Instrument ID: R-GC-63

Signal ID: DB-CLPII

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Decachlorobiphenyl	SURR	Average RF	% RSD	12.7	20	4.504E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	5.5	20	1.051E8	
alpha-BHC	TRG	Average RF	% RSD	7.2	20	1.621E8	
beta-BHC	TRG	Average RF	% RSD	9.0	20	6.614E7	
delta-BHC	TRG	Average RF	% RSD	6.3	20	1.471E8	
gamma-BHC (Lindane)	TRG	Average RF	% RSD	5.0	20	1.513E8	

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QA/QC Report

Client: Olin Corporation
Project: Charles Gibson

Service Request: R2302240
Calibration Date: 3/28/2023

Initial Calibration Verification Summary
Organochlorine Pesticides by Gas Chromatography

Calibration ID: RC2300025
Instrument ID: R-GC-63

Signal ID: DB-CLP

#	Lab Code	Sample Name	File Location	Acquisition Date
07	RC2300025-07	8081 ICV	I:\ACQUADATA\7890N.net\data\032823\AG1150.D	03/28/2023 21:03
14	RC2300025-14	TOX ICV	I:\ACQUADATA\7890N.net\data\032823\AG1157.D	03/28/2023 23:17
21	RC2300025-21	CHLOR ICV	I:\ACQUADATA\7890N.net\data\032823\AG1164.D	03/29/2023 01:31

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
alpha-BHC	10.0	9.47	6.069E7	5.749E7	-5.276	±30	Average RF
beta-BHC	10.0	9.47	2.416E7	2.288E7	-5.308	±30	Average RF
delta-BHC	10.0	8.46	5.504E7	4.659E7	-15.362	±30	Average RF
gamma-BHC (Lindane)	10.0	9.22	5.724E7	5.275E7	-7.842	±30	Average RF

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QA/QC Report

Client: Olin Corporation
Project: Charles Gibson

Service Request: R2302240
Calibration Date: 3/28/2023

Initial Calibration Verification Summary
Organochlorine Pesticides by Gas Chromatography

Calibration ID: RC2300025
Instrument ID: R-GC-63

Signal ID: DB-CLPII

#	Lab Code	Sample Name	File Location	Acquisition Date
07	RC2300025-07	8081 ICV	I:\ACQUADATA\7890N.net\data\032823\AG1150.D	03/28/2023 21:03
14	RC2300025-14	TOX ICV	I:\ACQUADATA\7890N.net\data\032823\AG1157.D	03/28/2023 23:17
21	RC2300025-21	CHLOR ICV	I:\ACQUADATA\7890N.net\data\032823\AG1164.D	03/29/2023 01:31

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
alpha-BHC	10.0	9.37	1.621E8	1.518E8	-6.344	±30	Average RF
beta-BHC	10.0	9.65	6.614E7	6.384E7	-3.483	±30	Average RF
delta-BHC	10.0	8.46	1.471E8	1.245E8	-15.388	±30	Average RF
gamma-BHC (Lindane)	10.0	9.11	1.513E8	1.378E8	-8.893	±30	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/30/23 11:09

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033023\AG1230.D\
Signal ID: DB-CLPII

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799403
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	25.5	1.621E8	1.653E8	2.0	NA	±20	Average RF
beta-BHC	25.0	24.1	6.614E7	6.366E7	-3.8	NA	±20	Average RF
delta-BHC	25.0	25.6	1.471E8	1.506E8	2.4	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	25.3	1.513E8	1.532E8	1.3	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/30/23 11:09

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033023\AG1230.D\
Signal ID: DB-CLP

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799403
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	27.0	6.069E7	6.554E7	8.0	NA	±20	Average RF
beta-BHC	25.0	25.8	2.416E7	2.497E7	3.4	NA	±20	Average RF
delta-BHC	25.0	27.2	5.504E7	5.982E7	8.7	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	26.8	5.724E7	6.126E7	7.0	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/30/23 14:39

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033023\AG1241.D\
Signal ID: DB-CLPII

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799403
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	25.9	1.621E8	1.677E8	3.4	NA	±20	Average RF
beta-BHC	25.0	24.5	6.614E7	6.492E7	-1.9	NA	±20	Average RF
delta-BHC	25.0	25.9	1.471E8	1.521E8	3.4	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	25.7	1.513E8	1.553E8	2.7	NA	±20	Average RF

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QA/QC Report

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/30/23 14:39

Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033023\AG1241.D\
Signal ID: DB-CLP

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799403
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	27.0	6.069E7	6.546E7	7.9	NA	±20	Average RF
beta-BHC	25.0	25.8	2.416E7	2.494E7	3.2	NA	±20	Average RF
delta-BHC	25.0	27.2	5.504E7	5.988E7	8.8	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	26.7	5.724E7	6.114E7	6.8	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/30/23 16:14

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033023\AG1246.D\
Signal ID: DB-CLPII

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799403
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	25.5	1.621E8	1.655E8	2.1	NA	±20	Average RF
beta-BHC	25.0	24.4	6.614E7	6.443E7	-2.6	NA	±20	Average RF
delta-BHC	25.0	25.2	1.471E8	1.484E8	0.9	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	25.3	1.513E8	1.532E8	1.2	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/30/23 16:14

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033023\AG1246.D\
Signal ID: DB-CLP

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799403
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	26.4	6.069E7	6.418E7	5.7	NA	±20	Average RF
beta-BHC	25.0	25.5	2.416E7	2.469E7	2.2	NA	±20	Average RF
delta-BHC	25.0	26.5	5.504E7	5.835E7	6.0	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	26.2	5.724E7	6.002E7	4.8	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/31/23 19:34

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033123\AG1319.D\
Signal ID: DB-CLPII

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799631
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	28.5	1.621E8	1.848E8	14.0	NA	±20	Average RF
beta-BHC	25.0	27.0	6.614E7	7.149E7	8.1	NA	±20	Average RF
delta-BHC	25.0	28.5	1.471E8	1.678E8	14.1	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	28.3	1.513E8	1.711E8	13.1	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/31/23 19:34

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033123\AG1319.D\
Signal ID: DB-CLP

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799631
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	29.6	6.069E7	7.179E7	18.3	NA	±20	Average RF
beta-BHC	25.0	28.2	2.416E7	2.726E7	12.8	NA	±20	Average RF
delta-BHC	25.0	29.6	5.504E7	6.507E7	18.2	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	29.3	5.724E7	6.703E7	17.1	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/31/23 23:05

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033123\AG1330.D\
Signal ID: DB-CLPII

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799631
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	28.4	1.621E8	1.84E8	13.5	NA	±20	Average RF
beta-BHC	25.0	27.0	6.614E7	7.141E7	8.0	NA	±20	Average RF
delta-BHC	25.0	28.0	1.471E8	1.647E8	12.0	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	28.1	1.513E8	1.699E8	12.3	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 03/31/23 23:05

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033123\AG1330.D\
Signal ID: DB-CLP

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799631
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	29.2	6.069E7	7.082E7	16.7	NA	±20	Average RF
beta-BHC	25.0	28.1	2.416E7	2.719E7	12.5	NA	±20	Average RF
delta-BHC	25.0	29.2	5.504E7	6.434E7	16.9	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	28.9	5.724E7	6.625E7	15.7	NA	±20	Average RF

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QA/QC Report

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 04/01/23 02:35

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033123\AG1341.D\
Signal ID: DB-CLPII

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799631
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	29.8	1.621E8	1.931E8	19.1	NA	±20	Average RF
beta-BHC	25.0	27.7	6.614E7	7.331E7	10.8	NA	±20	Average RF
delta-BHC	25.0	29.5	1.471E8	1.737E8	18.0	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	29.4	1.513E8	1.782E8	17.8	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request: R2302240
Date Analyzed: 04/01/23 02:35

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890N.net\data\033123\AG1341.D\
Signal ID: DB-CLP

Calibration Date: 3/28/2023
Calibration ID: RC2300025
Analysis Lot: 799631
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	30.5	6.069E7	7.404E7	22.0*	NA	±20	Average RF
beta-BHC	25.0	28.9	2.416E7	2.793E7	15.6	NA	±20	Average RF
delta-BHC	25.0	30.2	5.504E7	6.649E7	20.8*	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	30.1	5.724E7	6.893E7	20.4	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request:R2302240

Analysis Run Log
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Analysis Lot:799403
Instrument ID:R-GC-63

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\7890N.net\data\033023 \AG1227.D\	Performance Evaluation	RQ2303703-01	3/30/2023	10:11:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1228.D\	Continuing Calibration Verification	RQ2303703-02	3/30/2023	10:30:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1229.D\	Continuing Calibration Verification	RQ2303703-02	3/30/2023	10:49:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1230.D\	Continuing Calibration Verification	RQ2303703-02	3/30/2023	11:09:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1231.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	11:28:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1232.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	11:47:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1233.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	12:06:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1234.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	12:25:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1235.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	12:44:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1236.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	13:03:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1237.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	13:22:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1238.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	13:42:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1239.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	14:01:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1240.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	14:20:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1241.D\	Continuing Calibration Verification	RQ2303703-03	3/30/2023	14:39:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1242.D\	Method Blank	RQ2303300-01	3/30/2023	14:58:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1243.D\	Lab Control Sample	RQ2303300-02	3/30/2023	15:17:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1244.D\	Duplicate Lab Control Sample	RQ2303300-03	3/30/2023	15:36:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1245.D\	ZZZZZZZ	ZZZZZZZ	3/30/2023	15:55:00	
I:\ACQUDATA\7890N.net\data\033023 \AG1246.D\	Continuing Calibration Verification	RQ2303703-04	3/30/2023	16:14:00	

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QA/QC Report

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request:R2302240

Analysis Run Log
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Analysis Lot:799631
Instrument ID:R-GC-63

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUADATA\7890N.net\data\033123\AG1316.D\	Performance Evaluation	RQ2303789-01	3/31/2023	18:36:00	
I:\ACQUADATA\7890N.net\data\033123\AG1316.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	18:36:00	
I:\ACQUADATA\7890N.net\data\033123\AG1317.D\	Continuing Calibration Verification	RQ2303789-03	3/31/2023	18:55:00	
I:\ACQUADATA\7890N.net\data\033123\AG1317.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	18:55:00	
I:\ACQUADATA\7890N.net\data\033123\AG1318.D\	Continuing Calibration Verification	RQ2303789-03	3/31/2023	19:15:00	
I:\ACQUADATA\7890N.net\data\033123\AG1318.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	19:15:00	
I:\ACQUADATA\7890N.net\data\033123\AG1319.D\	Continuing Calibration Verification	RQ2303789-03	3/31/2023	19:34:00	
I:\ACQUADATA\7890N.net\data\033123\AG1319.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	19:34:00	
I:\ACQUADATA\7890N.net\data\033123\AG1320.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	19:53:00	
I:\ACQUADATA\7890N.net\data\033123\AG1321.D\	Field Blank-031523	R2302240-001	3/31/2023	20:12:00	
I:\ACQUADATA\7890N.net\data\033123\AG1322.D\	MW5-031523	R2302240-002	3/31/2023	20:31:00	
I:\ACQUADATA\7890N.net\data\033123\AG1323.D\	MW4-031523	R2302240-003	3/31/2023	20:50:00	
I:\ACQUADATA\7890N.net\data\033123\AG1324.D\	MW4-031523 MS	RQ2303300-06	3/31/2023	21:09:00	
I:\ACQUADATA\7890N.net\data\033123\AG1325.D\	MW4-031523 DMS	RQ2303300-07	3/31/2023	21:29:00	
I:\ACQUADATA\7890N.net\data\033123\AG1326.D\	MW7-031523	R2302240-004	3/31/2023	21:48:00	
I:\ACQUADATA\7890N.net\data\033123\AG1327.D\	MHB-031523	R2302240-005	3/31/2023	22:07:00	
I:\ACQUADATA\7890N.net\data\033123\AG1328.D\	MWA3-031523	R2302240-006	3/31/2023	22:26:00	
I:\ACQUADATA\7890N.net\data\033123\AG1329.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	22:45:00	
I:\ACQUADATA\7890N.net\data\033123\AG1330.D\	Continuing Calibration Verification	RQ2303789-05	3/31/2023	23:05:00	
I:\ACQUADATA\7890N.net\data\033123\AG1330.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	23:05:00	
I:\ACQUADATA\7890N.net\data\033123\AG1331.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	23:24:00	
I:\ACQUADATA\7890N.net\data\033123\AG1332.D\	ZZZZZZZ	ZZZZZZZ	3/31/2023	23:43:00	
I:\ACQUADATA\7890N.net\data\033123\AG1333.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	00:02:00	

Client: Olin Corporation
Project: Charles Gibson/1305

Service Request:R2302240

Analysis Run Log
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B

Analysis Lot:799631
Instrument ID:R-GC-63

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\7890N.net\data\033123 \AG1334.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	00:21:00	
I:\ACQUDATA\7890N.net\data\033123 \AG1335.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	00:40:00	
I:\ACQUDATA\7890N.net\data\033123 \AG1336.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	00:59:00	
I:\ACQUDATA\7890N.net\data\033123 \AG1337.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	01:19:00	
I:\ACQUDATA\7890N.net\data\033123 \AG1338.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	01:38:00	
I:\ACQUDATA\7890N.net\data\033123 \AG1339.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	01:57:00	
I:\ACQUDATA\7890N.net\data\033123 \AG1340.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	02:16:00	
I:\ACQUDATA\7890N.net\data\033123 \AG1341.D\	Continuing Calibration Verification	RQ2303789-07	4/1/2023	02:35:00	
I:\ACQUDATA\7890N.net\data\033123 \AG1341.D\	ZZZZZZZ	ZZZZZZZ	4/1/2023	02:35:00	

7081
3/16/15

Analyst: AGL
Instr. 7890N R-GC-63

Run Method: 7081A
Quant Method: 7081-03274

LIMS Run#: 799403

Sample	Diln.	Stds. ID	File#	OK?	Comments
			AG1226		
		228572	27	Y	
		228570	28	Y	
		228586	29	Y	
		228574	30	Y	
			31	Y	
			32	Y	
			33	Y	
			34	Y	
			35	Y	
			36	Y	
			37	Y	
			38	Y	
			39	Y	
			40	Y	
5		228574	41	Y	
41			42	Y	
42			43	Y	
43			44	Y	
44			45	Y	
5		228574	46	Y	
<i>AGL</i> <i>3/16/15</i>					

All samples = _____ mL + _____ uL Combined IS/Surr.;

Primary : _____ exp: _____
Primary : _____ exp: _____
Reagents:

Secondary : _____ exp: _____
Secondary : _____ exp: _____

Runlog GCEXT r2 4/27/17
O-1106 Page 37 of 150

(Vials: 8081
 Date: 3/29/23
 Volumes: _____

Analyst: A. Fisher
 Instr. 7890N R-GC-63

Run Method: 8091A
 Quant Method: 8091-032923
 LIMS Run#: _____

OS	Sample	Diln.	Stds. ID	File#	OK?	Comments
	BLU			AG1140	—	
	BLU			41	—	
2	Inst. BLU			42	Y	
3	PEM		228262	43	Y	
4	8091 LL		228377	44	Y	
5	L		228376	45	Y	
6	M		228375	46	Y	
7	M		228374	47	Y	
8	MH		228373	48	Y	
9	H		228372	49	Y	
10	↓ ICW		227740	50	Y	
11	TOX LL		228371	51	Y	
12	L		228370	52	Y	
13	M		228369	53	Y	
14	M		228368	54	Y	
15	MH		228367	55	Y	
16	H		228366	56	Y	
17	↓ ICW		227760	57	Y	
18	CHOR LL		228365	58	Y	
19	L		228364	59	Y	
20	M		228363	60	Y	
21	M		228362	61	Y	
22	MH		228361	62	Y	
23	H		228360	63	Y	
24	↓ ICW		227753	64	Y	
3	PEM		228262	65	N	Endin Breakdown
14	TOX CW		228360	66		
21	CHLOR CW		228366	67		
7	8091 CW		228374	68		
25	R2302049-001			69		
26	↓ -02			70		
27	R2302049-002			71		
28	R2302058-001			72		
29	R2302058-004			73		
30	R2301878-004			74		
31	R2301878-004			75		
32	R2301878-004			76		
33	R2301874-004			77		
34	R2301876-004			78		
7	8091 CW		228374	79	Y	

All samples = _____ mL + _____ uL Combined IS/Surr.;

Primary: _____ exp:
 Primary: _____ exp:
 Reagents:

Secondary: _____ exp:
 Secondary: _____ exp:

Runlog GCEXT r2 4/27/17
 O-1106 Page 34 of 150

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: Olin Corporation
Project: Charles Gibson/1305
Sample Matrix: Water

Service Request:R2302240

Organochlorine Pesticides by Gas Chromatography

Prep Method: EPA 3510C
Analytical Method: 8081B

Extraction Lot: 416859
Extraction Date: 03/21/23 12:47

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Field Blank-031523	R2302240-001	3/15/23	3/16/23	280.0000 mL	10 mL	
MW5-031523	R2302240-002	3/15/23	3/16/23	280.0000 mL	10 mL	
MW4-031523	R2302240-003	3/15/23	3/16/23	280.0000 mL	10 mL	
MW7-031523	R2302240-004	3/15/23	3/16/23	270.0000 mL	10 mL	
MHB-031523	R2302240-005	3/15/23	3/16/23	270.0000 mL	10 mL	
MWA3-031523	R2302240-006	3/15/23	3/16/23	270.0000 mL	10 mL	
Method Blank	RQ2303300-01MB	NA	NA	250 mL	10 mL	
Lab Control Sample	RQ2303300-02LCS	NA	NA	250 mL	10 mL	
Duplicate Lab Control Sample	RQ2303300-03DLCS	NA	NA	250 mL	10 mL	
Matrix Spike	RQ2303300-06MS	3/15/23	3/16/23	270.0000 mL	10 mL	
Duplicate Matrix Spike	RQ2303300-07DMS	3/15/23	3/16/23	275.0000 mL	10 mL	

Preparation Information Benchsheet

Prep Run#: 416859
 Team: Semivoa GC/EDEGRAY

Prep Workflow: OrgExtAq(7)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 3/21/23 12:47

#	Lab Code	Client ID	B#	Amt. Extl	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ2303300-01	MB		250mL	608 Modified/PCB	7			10.00mL		200.0000 uL/227928	
2	RQ2303300-01	MB		250mL	608 Modified/PEST_OC	7			10.00mL		200.0000 uL/227928	
3	RQ2303300-01	MB		250mL	8081B/Pest OC	7			10.00mL		200.0000 uL/227928	
4	RQ2303300-01	MB		250mL	8082A/PCB	7			10.00mL		200.0000 uL/227928	
5	RQ2303300-02	LCS		250mL	608 Modified/PEST_OC	7			10.00mL		0.5000 mL/227334; 200.0000 uL/227928	
6	RQ2303300-02	LCS		250mL	8081B/Pest OC	7			10.00mL		200.0000 uL/227928; 0.5000 mL/227334	
7	RQ2303300-03	DLCS		250mL	608 Modified/PEST_OC	7			10.00mL		0.5000 mL/227334; 200.0000 uL/227928	
8	RQ2303300-03	DLCS		250mL	8081B/Pest OC	7			10.00mL		0.5000 mL/227334; 200.0000 uL/227928	
9	RQ2303300-04	LCS		250mL	608 Modified/PCB	7			10.00mL		200.0000 uL/226599; 200.0000 uL/227928	
10	RQ2303300-04	LCS		250mL	8082A/PCB	7			10.00mL		200.0000 uL/226599; 200.0000 uL/227928	
11	RQ2303300-05	DLCS		250mL	608 Modified/PCB	7			10.00mL		200.0000 uL/226599; 200.0000 uL/227928	
12	RQ2303300-05	DLCS		250mL	8082A/PCB	7			10.00mL		200.0000 uL/226599; 200.0000 uL/227928	
13	R2302238-001	Inquois Street San.		280mL	608 Modified/PCB	7			10.00mL	colorless, clear	200.0000 uL/227928	
14	R2302238-002	47th Street San.		280mL	608 Modified/PEST_OC	7			10.00mL	colorless, clear	200.0000 uL/227928	
15	R2302240-001	Field Blank-031523		280mL	8081B/Pest OC	7			10.00mL	colorless, clear	200.0000 uL/227928	
16	R2302240-002	MW5-031523		280mL	8081B/Pest OC	7			10.00mL	yellow, clear	200.0000 uL/227928	
17	R2302240-003	MW4-031523		280mL	8081B/Pest OC	7			10.00mL	yellow, clear	200.0000 uL/227928	
18	RQ2303300-06	R2302240-003 MS		270mL	8081B/Pest OC	7			10.00mL	yellow, clear	200.0000 uL/227928; 0.5000 mL/227334	
19	RQ2303300-07	R2302240-003 DMS		275mL	8081B/Pest OC	7			10.00mL	yellow, clear	200.0000 uL/227928; 0.5000 mL/227334	
20	R2302240-004	MW7-031523		270mL	8081B/Pest OC	7			10.00mL	light yellow, clear	200.0000 uL/227928	
21	R2302240-005	MHB-031523		270mL	8081B/Pest OC	7			10.00mL	colorless, clear	200.0000 uL/227928	
22	R2302240-006	MVA3-031523		270mL	8081B/Pest OC	7			10.00mL	colorless, clear	200.0000 uL/227928	
23	R2302281-004	2303150943 STGT-SB-9		285mL	8081B/Pest OC	7			10.00mL	colorless, clear	200.0000 uL/227928	
24	R2302281-006	2303150945 STGT-SB-9		285mL	8082A/PCB	7			10.00mL	colorless, clear	200.0000 uL/227928	
25	R2302217-003	M31128-4 City 1		285mL	8081B/Pest OC	7			10.00mL	colorless, clear	200.0000 uL/227928	

Spiking Solutions

Name: 8082 Spike 5 ug/mL AR 1260	Inventory ID: 226599	Logbook Ref:	Expires On: 06/12/2023
Name: 608 LCS Spike STD	Inventory ID: 227334	Logbook Ref:	Expires On: 05/31/2023
Name: 8081/8082 Surrogate Spike STD 1 ug/mL	Inventory ID: 227928	Logbook Ref:	Expires On: 08/30/2023

Preparation Information Benchsheet

Prep Run#: 416859
Team: Seminova GC/EDEGRAY

Prep WorkFlow: OrgExtAq(7)
Prep Method: EPA 3510C

Status: Prepped
Prep Date/Time: 3/21/23 12:47

Preparation Materials

Eppendorf Pipette Repeater	EXT #22 (227690)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	Canister (227624)	pH Paper 0-14	(223114)
Prepared Sodium Sulfate Na2SO4	(227840)				

Preparation Steps

Step:	Extraction	Step:	Concentration	Step:	Final Volume
Started:	3/21/23 12:47	Started:	3/23/23 12:15	Started:	3/23/23 12:35
Finished:	3/23/23 07:07	Finished:	3/23/23 12:35	Finished:	3/23/23 12:35
By:	EDEGRAY	By:	JVANHEYNINGEN	By:	JVANHEYNINGEN
Comments		Comments		Comments	

Comments:

Reviewed By: 

Date: 3/28/23

Spike Witness: KPROCOPIO

Date:

Chain of Custody

Relinquished By:

Date:

Received By:

Date:

Extracts Examined
Yes No

Data Evaluation Narrative

Data Evaluation Narrative**Charles Gibson – March 2023 Groundwater and Leachate Sampling Event****SDG: R2302240 – ALS Environmental, Rochester, NY****Deliverables**

The data package as submitted to Olin Corporation is complete as stipulated under the Quality Assurance Project Plan (QAPP) for the site. United States Environmental Protection Agency (USEPA) Method 8081B was utilized in laboratory testing of samples.

Sample Integrity

Samples within this sample delivery group (SDG) were submitted to the ALS Environmental Laboratory in Rochester, NY for chlorinated pesticides analysis. The sample cooler temperature measured 1.9°C upon arrival at the laboratory. The specified temperature limit is 4°C ± 2°C. The proper bottles were used, the Chain of Custody was properly relinquished, and the correct analytical method was employed.

Sample Identification

This SDG contains the following water and quality control (QC) samples collected March 15, 2023:

SDG R2302240:

Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
Field Blank-031523	MW5-031523	MW4-031523	MW7-031523*	MHB-031523	MWA3-031523

* Blind Field Duplicate of MW5-031523.

Chlorinated Pesticides (8081B)

The samples in this SDG were submitted for site-specific chlorinated pesticides (BHCs) analysis by USEPA Method 8081B.

Holding Times:

The extraction and analytical logs indicate that applicable holding times were met for samples submitted for chlorinated pesticide analysis.

Practical Quantitation Limits:

The practical quantitation limits (PQLs) were met for all samples submitted for chlorinated pesticide analysis by USEPA Method 8081B.

Calibration:

The initial and continuing calibration data for this SDG indicates that the applicable calibration criteria were met. The column breakdowns were assessed, and the percent degradation was within QC limits.

Surrogates:

The surrogate recoveries were within applicable QC advisory limits for all samples submitted for chlorinated pesticide analysis.

Blank Summary:

The analytical results of the laboratory method blank and field blank indicate that chlorinated pesticides were not detected.

Laboratory Control Sample (LCS) and LCS Duplicate (LCSD):

The LCS/LCSD spike recoveries and relative percent differences (RPDs) were within applicable QC advisory limits.

Second Column Confirmation:

The laboratory utilized a second column confirmation for the analysis of chlorinated pesticides. The RPDs were within guidelines for all project and quality control samples.

Performance Evaluation Sample (PES):

The results from the PES were within quality control guidelines.

Field Duplicate Sample:

According to the sampler, MW7-031523 was a blind field duplicate of MW5-031523. The sample and field duplicate were non-detect for all BHC compounds.

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

MS/MSD analyses were performed on groundwater sample MW4-031523. All percent recoveries and relative percent differences (RPDs) were within laboratory QC guidelines.

Overall Site Evaluation and Professional Judgment Flagging Changes

The data within this SDG were compared to site data and edits to the DQE flags were not required based on professional judgment. Monitoring period completeness, which is the percentage of analytical results judged valid, including estimated values, was 100 percent for the March 2023 sampling event. Typically, project objectives are met when completeness is 90 percent or better.

Prepared by: *Randy T. Morris*

Date: *April 19, 2023*



September 11, 2023

Service Request No:R2307728

Adam Carringer
Olin Corporation
490 Stuart Road
Cleveland, TN 37312

Laboratory Results for: Charles Gibson - Olin

Dear Adam,

Enclosed are the results of the sample(s) submitted to our laboratory August 24, 2023
For your reference, these analyses have been assigned our service request number **R2307728**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

CC: Randy Morris

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | **FAX** +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental



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1565 Jefferson Road, Building 300, Suite 360
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ALS SOP - Total Solids - 815551

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Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com



Client: Olin Corporation
Project: Charles Gibson - Olin
Sample Matrix: Soil

Service Request: R2307728
Date Received: 08/24/2023

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Three soil samples were received for analysis at ALS Environmental on 08/24/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatile GC:

Method 8081B: The Method Reporting Limit (MRL) was elevated due to sample matrix that necessitated a dilution for preservation of the analytical system.

Method 8081B, 09/07/2023: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 09/07/2023: The control limits were exceeded for analytes in the Continuing Calibration Verification (CCV). The QC failure was most likely due to the composition of the sample(s) immediately preceding the failing CCV. In order to protect the integrity of the instrument, no further corrective action was taken. Results should be considered estimated.

General Chemistry:

No significant anomalies were noted with this analysis.

Approved by _____

Date 09/11/2023



Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request:R2307728

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2307728-001	US-1-082223	8/22/2023	1415
R2307728-002	MS-1-082223	8/22/2023	1445
R2307728-003	DS-1-082223	8/22/2023	1515

Gibson Fall Ground Water Monitoring and Sampling Narrative

08/22/23

Arrived at site at 1230 for quarterly inspection and water level readings.

Creek sediment samples were taken today, upstream at 1415 (US-1-082223), midstream at 1445 (MS-1-082223), and downstream at 1515 (DS-1-082223). Creek levels were extremely low. There was only enough sediment at the downstream location for about 1/2 to 2/3 of a jar worth of material.

This narrative will be sent to ALS along with the sample COCs.



Cooler Receipt and Preservation Check

R2307728 **5**
 Olin Corporation
 Charles Gibson - Olin

Project/Client Olin Corporation Folder Number _____

Cooler received on 8/24/23 by: HE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u>	N
2	Custody papers properly completed (ink, signed)?	<u>Y</u>	N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u>	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u>	N

5a	Perchlorate samples have required headspace?	Y	N	<u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	<u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as: Bulk Encore 5035set			<u>NA</u>

8. Temperature Readings Date: 8/24/23 Time: 09:53 ID: IR#12 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.8</u>							
Within 0-6°C?	<u>Y</u>	N	Y	N	Y	N	Y	N
If <0°C, were samples frozen?	Y	N	Y	N	Y	N	Y	N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule
 & Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-102 by HE on 8/24/23 at 09:57
 5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 8/24/23 Time: 14:22 by: HE

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- 13. Were dissolved metals filtered in the field? YES NO N/A
- 14. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 010223-1SR,
 Explain all Discrepancies/ Other Comments: _____

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: HE
 PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2307728-001.01	8081B,ALS SOP	8/24/2023	1423	SMO / GESMERIAN	
		8/24/2023	1423	R-002 / GESMERIAN	
		8/29/2023	0839	In Lab / JVANHEYNINGEN	
		8/29/2023	1031	R-002 / JVANHEYNINGEN	
R2307728-002.01	8081B,ALS SOP	8/24/2023	1423	SMO / GESMERIAN	
		8/24/2023	1423	R-002 / GESMERIAN	
		8/29/2023	0839	In Lab / JVANHEYNINGEN	
		8/29/2023	1031	R-002 / JVANHEYNINGEN	
R2307728-003.01	8081B,ALS SOP	8/24/2023	1423	SMO / GESMERIAN	
		8/24/2023	1423	R-002 / GESMERIAN	
		8/29/2023	0839	In Lab / JVANHEYNINGEN	
		8/29/2023	1031	R-002 / JVANHEYNINGEN	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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REPORT QUALIFIERS AND DEFINITIONS

<p>U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p>J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728

Sample Name: US-1-082223
Lab Code: R2307728-001
Sample Matrix: Soil

Date Collected: 08/22/23
Date Received: 08/24/23

Analysis Method
8081B
ALS SOP

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER
HCASTROVINCI

Sample Name: MS-1-082223
Lab Code: R2307728-002
Sample Matrix: Soil

Date Collected: 08/22/23
Date Received: 08/24/23

Analysis Method
8081B
ALS SOP

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER
HCASTROVINCI

Sample Name: DS-1-082223
Lab Code: R2307728-003
Sample Matrix: Soil

Date Collected: 08/22/23
Date Received: 08/24/23

Analysis Method
8081B
ALS SOP

Extracted/Digested By
JVANHEYNINGEN

Analyzed By
AFELSER
HCASTROVINCI



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

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Semivolatile Organic Compounds by GC

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Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Collected: 08/22/23 14:15
Date Received: 08/24/23 09:50

Sample Name: US-1-082223
Lab Code: R2307728-001

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	22	11	5	09/07/23 23:16	8/29/23	
beta-BHC	ND U	22	11	5	09/07/23 23:16	8/29/23	
delta-BHC	ND U	22	11	5	09/07/23 23:16	8/29/23	
gamma-BHC (Lindane)	ND U	22	11	5	09/07/23 23:16	8/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	46	10 - 159	09/07/23 23:16	
Tetrachloro-m-xylene	55	10 - 132	09/07/23 23:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Collected: 08/22/23 14:45
Date Received: 08/24/23 09:50

Sample Name: MS-1-082223
Lab Code: R2307728-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	23	12	5	09/07/23 23:34	8/29/23	
beta-BHC	ND U	23	12	5	09/07/23 23:34	8/29/23	
delta-BHC	ND U	23	12	5	09/07/23 23:34	8/29/23	
gamma-BHC (Lindane)	ND U	23	12	5	09/07/23 23:34	8/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 159	09/07/23 23:34	
Tetrachloro-m-xylene	59	10 - 132	09/07/23 23:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Collected: 08/22/23 15:15
Date Received: 08/24/23 09:50

Sample Name: DS-1-082223
Lab Code: R2307728-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	29	15	5	09/07/23 23:51	8/29/23	
beta-BHC	ND U	29	15	5	09/07/23 23:51	8/29/23	
delta-BHC	ND U	29	15	5	09/07/23 23:51	8/29/23	
gamma-BHC (Lindane)	ND U	29	15	5	09/07/23 23:51	8/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	48	10 - 159	09/07/23 23:51	
Tetrachloro-m-xylene	56	10 - 132	09/07/23 23:51	



General Chemistry

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dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil
Sample Name: US-1-082223
Lab Code: R2307728-001

Service Request: R2307728
Date Collected: 08/22/23 14:15
Date Received: 08/24/23 09:50
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	39.2	Percent	-	1	08/29/23 15:15	

ALS Group USA, Corp.
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Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil
Sample Name: MS-1-082223
Lab Code: R2307728-002

Service Request: R2307728
Date Collected: 08/22/23 14:45
Date Received: 08/24/23 09:50
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	36.2	Percent	-	1	08/29/23 15:15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil
Sample Name: DS-1-082223
Lab Code: R2307728-003

Service Request: R2307728
Date Collected: 08/22/23 15:15
Date Received: 08/24/23 09:50
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	29.6	Percent	-	1	08/29/23 15:15	



QC Summary Forms

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Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 159	10 - 132
US-1-082223	R2307728-001	46	55
MS-1-082223	R2307728-002	59	59
DS-1-082223	R2307728-003	48	56
Method Blank	RQ2311102-01	91	91
Lab Control Sample	RQ2311102-02	99	95
Duplicate Lab Control Sample	RQ2311102-03	86	86

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Analyzed: NA

Method Blank Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Sample Name:
Lab Code:
Analysis Method: 8081B

Instrument ID:
File ID:
Analysis Lot:816493

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	RQ2311662-01	I:\ACQUADATA\7890m\DATA\090723\B3040.D\	09/07/23 17:37

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2311102-01

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	1.7	0.84	1	09/07/23 20:53	8/29/23	
beta-BHC	ND U	1.7	0.84	1	09/07/23 20:53	8/29/23	
delta-BHC	ND U	1.7	0.84	1	09/07/23 20:53	8/29/23	
gamma-BHC (Lindane)	ND U	1.7	0.84	1	09/07/23 20:53	8/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	91	10 - 159	09/07/23 20:53	
Tetrachloro-m-xylene	91	10 - 132	09/07/23 20:53	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Analyzed: NA

Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Sample Name: **Instrument ID:**
Lab Code: **File ID:**
Analysis Method: 8081B **Analysis Lot:**816493

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Performance Evaluation	RQ2311662-01	I:\ACQUADATA\7890m\DATA\090723\B3040.D\	09/07/23 17:37

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Analyzed: 09/07/23 21:11
Date Extracted: 08/29/23

Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Sample Name: Lab Control Sample **Instrument ID:**R-GC-62
Lab Code: RQ2311102-02 **File ID:**I:\ACQUADATA\7890m\DATA\090723\B3052.D\
Analysis Method: 8081B **Analysis Lot:**816493
Prep Method: EPA 3546 **Extraction Lot:**425596

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2311102-01	I:\ACQUADATA\7890m\DATA\090723\B3051.D\	09/07/23 20:53
Duplicate Lab Control Sample	RQ2311102-03	I:\ACQUADATA\7890m\DATA\090723\B3053.D\	09/07/23 21:29
US-1-082223	R2307728-001	I:\ACQUADATA\7890m\DATA\090723\B3059.D\	09/07/23 23:16
MS-1-082223	R2307728-002	I:\ACQUADATA\7890m\DATA\090723\B3060.D\	09/07/23 23:34
DS-1-082223	R2307728-003	I:\ACQUADATA\7890m\DATA\090723\B3061.D\	09/07/23 23:51

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Analyzed: 09/07/23

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Units:ug/Kg
Basis:Dry

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
alpha-BHC	8081B	5.85	6.66	88	5.54	6.66	83	44-109	5	30
beta-BHC	8081B	6.11	6.66	92	5.89	6.66	88	49-119	4	30
delta-BHC	8081B	6.22	6.66	93	5.94	6.66	89	49-113	4	30
gamma-BHC (Lindane)	8081B	5.96	6.66	89	5.67	6.66	85	43-112	5	30

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Matrix: Soil

Service Request: R2307728
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: RQ2311102-02

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC	0.84	5.85	6.18	5		1	09/07/23 21:11
beta-BHC	0.84	6.11	6.43	5		1	09/07/23 21:11
delta-BHC	0.84	6.22	6.50	4		1	09/07/23 21:11
gamma-BHC (Lindane)	0.84	5.96	6.24	5		1	09/07/23 21:11

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Matrix: Soil
Sample Name: Duplicate Lab Control Sample
Lab Code: RQ2311102-03

Service Request: R2307728
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC	0.84	5.54	5.94	7		1	09/07/23 21:29
beta-BHC	0.84	5.89	6.21	5		1	09/07/23 21:29
delta-BHC	0.84	5.94	6.08	2		1	09/07/23 21:29
gamma-BHC (Lindane)	0.84	5.67	6.02	6		1	09/07/23 21:29

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Matrix: Soil
Sample Name: Performance Evaluation
Lab Code: RQ2311662-01

Service Request: R2307728
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

8081B

Prep Method:

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
alpha-BHC		10	12	18		1	09/07/23 17:37
beta-BHC		10	12	18		1	09/07/23 17:37
delta-BHC		0	0			1	09/07/23 17:37
gamma-BHC (Lindane)		12	10	18		1	09/07/23 17:37



Raw Data

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Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Collected: 08/22/23 14:15
Date Received: 08/24/23 09:50

Sample Name: US-1-082223
Lab Code: R2307728-001

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	22	11	5	09/07/23 23:16	8/29/23	
beta-BHC	ND U	22	11	5	09/07/23 23:16	8/29/23	
delta-BHC	ND U	22	11	5	09/07/23 23:16	8/29/23	
gamma-BHC (Lindane)	ND U	22	11	5	09/07/23 23:16	8/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	46	10 - 159	09/07/23 23:16	
Tetrachloro-m-xylene	55	10 - 132	09/07/23 23:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Collected: 08/22/23 14:45
Date Received: 08/24/23 09:50

Sample Name: MS-1-082223
Lab Code: R2307728-002

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	23	12	5	09/07/23 23:34	8/29/23	
beta-BHC	ND U	23	12	5	09/07/23 23:34	8/29/23	
delta-BHC	ND U	23	12	5	09/07/23 23:34	8/29/23	
gamma-BHC (Lindane)	ND U	23	12	5	09/07/23 23:34	8/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	59	10 - 159	09/07/23 23:34	
Tetrachloro-m-xylene	59	10 - 132	09/07/23 23:34	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request: R2307728
Date Collected: 08/22/23 15:15
Date Received: 08/24/23 09:50

Sample Name: DS-1-082223
Lab Code: R2307728-003

Units: ug/Kg
Basis: Dry

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B
Prep Method: EPA 3546

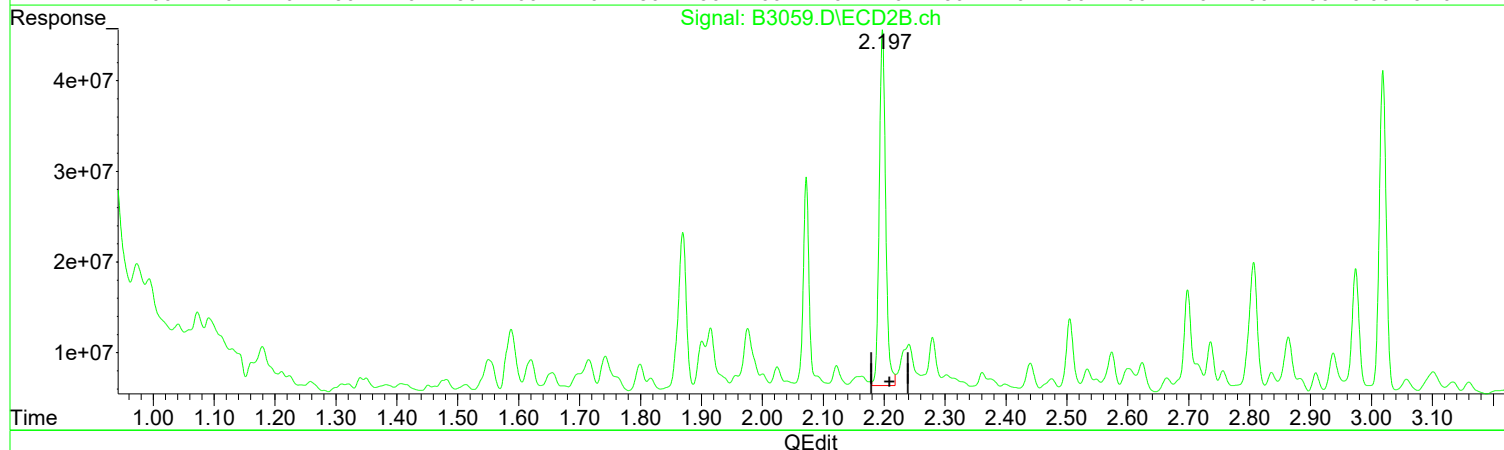
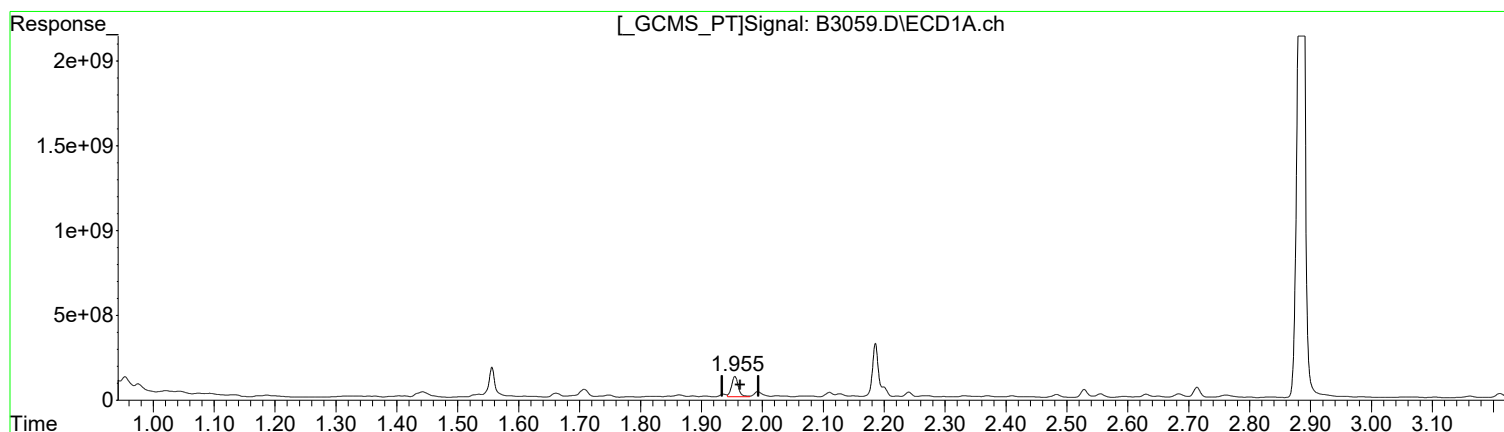
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
alpha-BHC	ND U	29	15	5	09/07/23 23:51	8/29/23	
beta-BHC	ND U	29	15	5	09/07/23 23:51	8/29/23	
delta-BHC	ND U	29	15	5	09/07/23 23:51	8/29/23	
gamma-BHC (Lindane)	ND U	29	15	5	09/07/23 23:51	8/29/23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	48	10 - 159	09/07/23 23:51	
Tetrachloro-m-xylene	56	10 - 132	09/07/23 23:51	

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:16 pm
Operator : AFelser
Sample : R2307728-001|5
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.955min 5.540 ug/l m
response 933561155

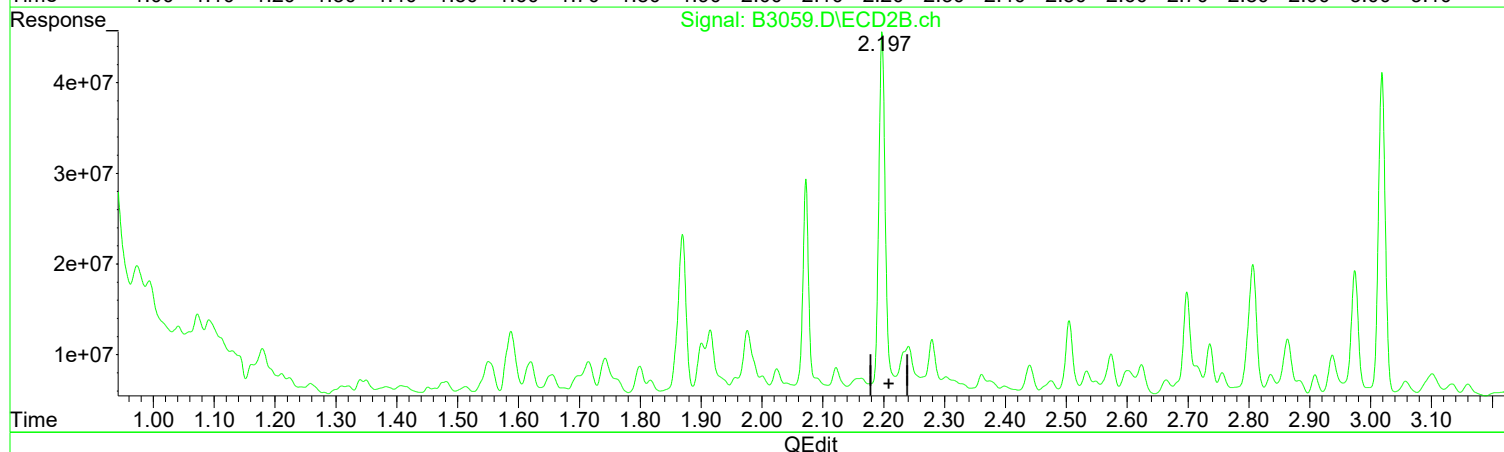
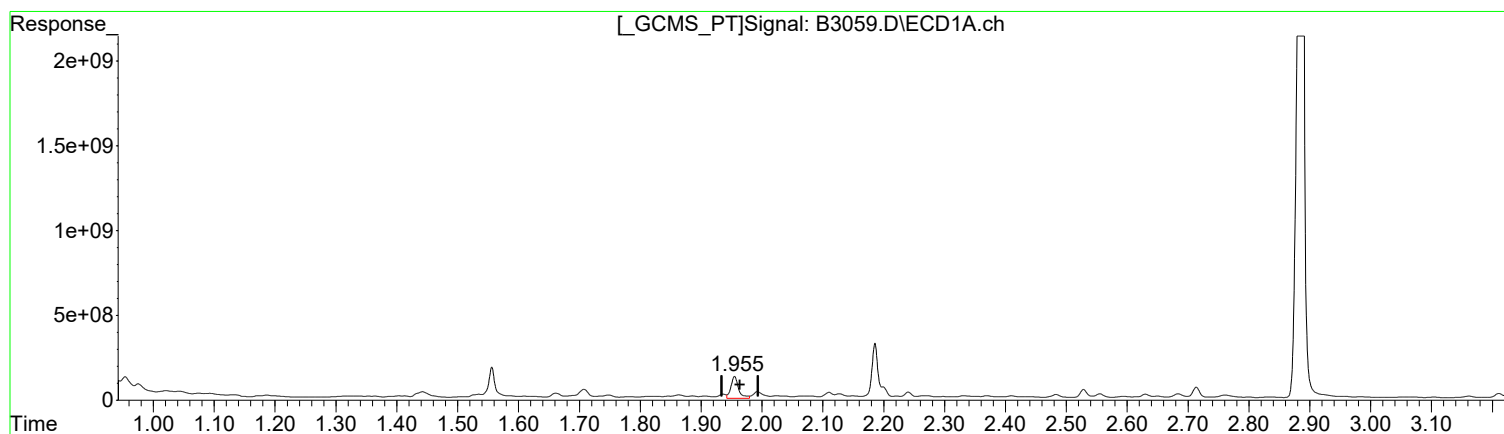
(1) SURR1,Tetrac #2 (S)
2.197min 5.635 ug/l m
response 287853618

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:16 pm
Operator : AFelser
Sample : R2307728-001|5
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.955min 6.701 ug/l
response 1129217345

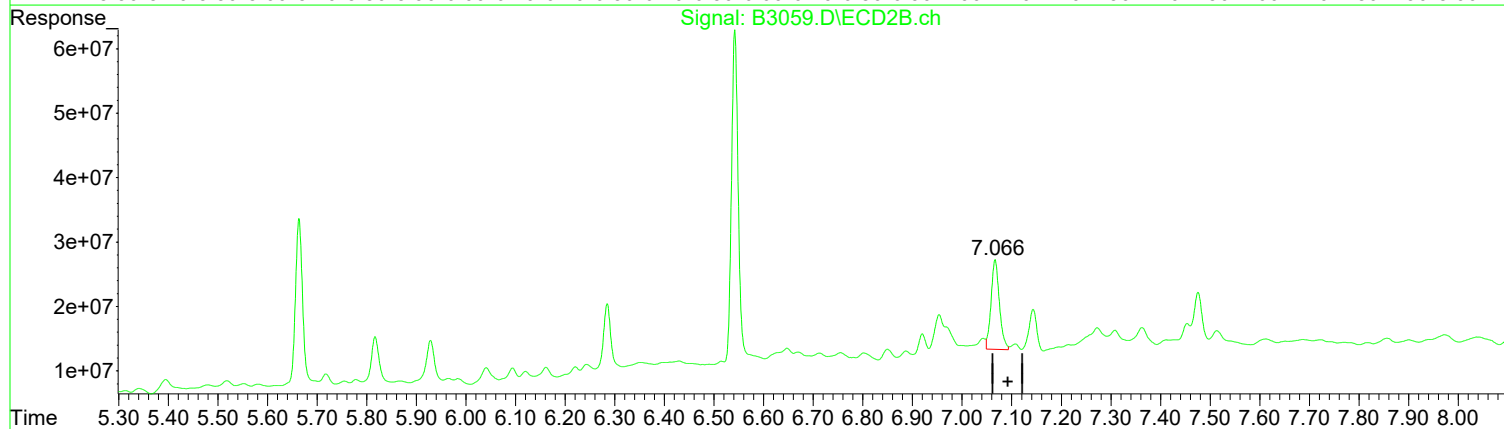
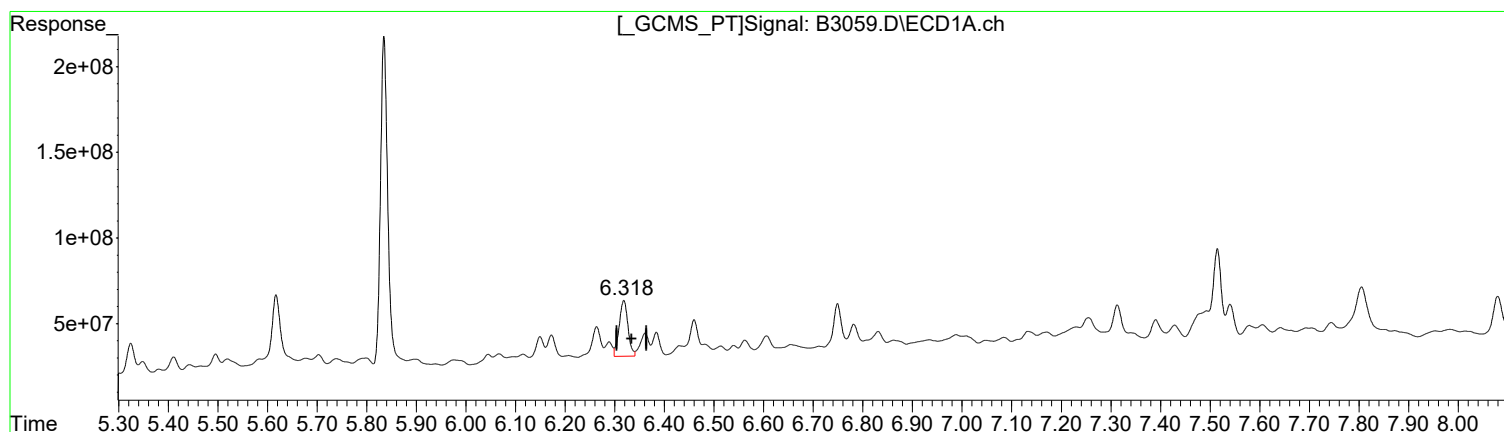
(1) SURR1,Tetrac #2 (S)
2.197min 6.699 ug/l
response 342192344

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:16 pm
Operator : AFelser
Sample : R2307728-001|5
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(23) SURR2,Decachlorobiphenyl (S)
6.318min 4.631 ug/l m
response 399537464

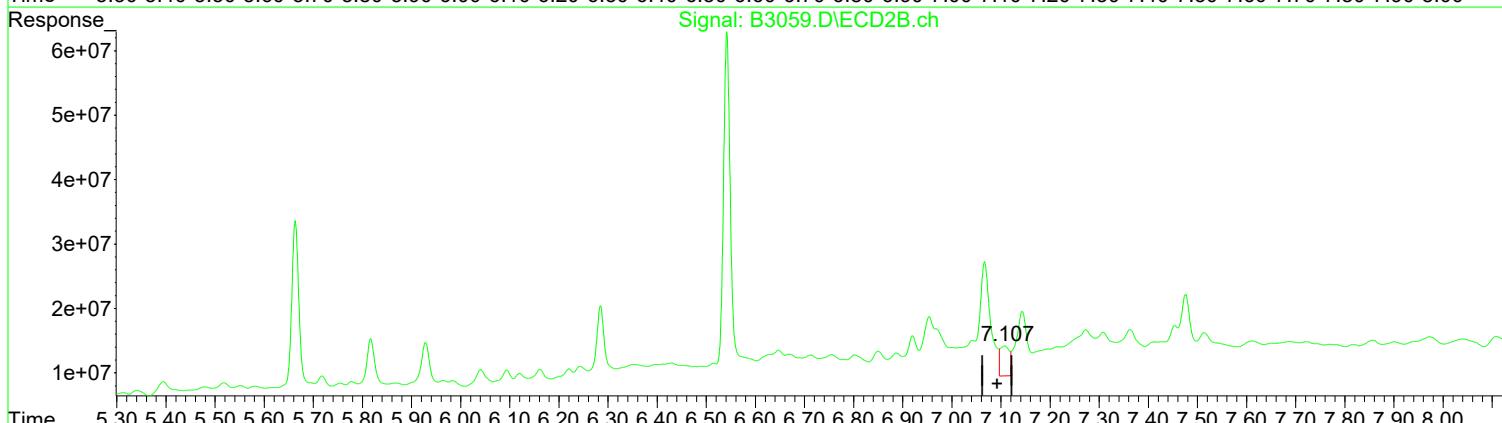
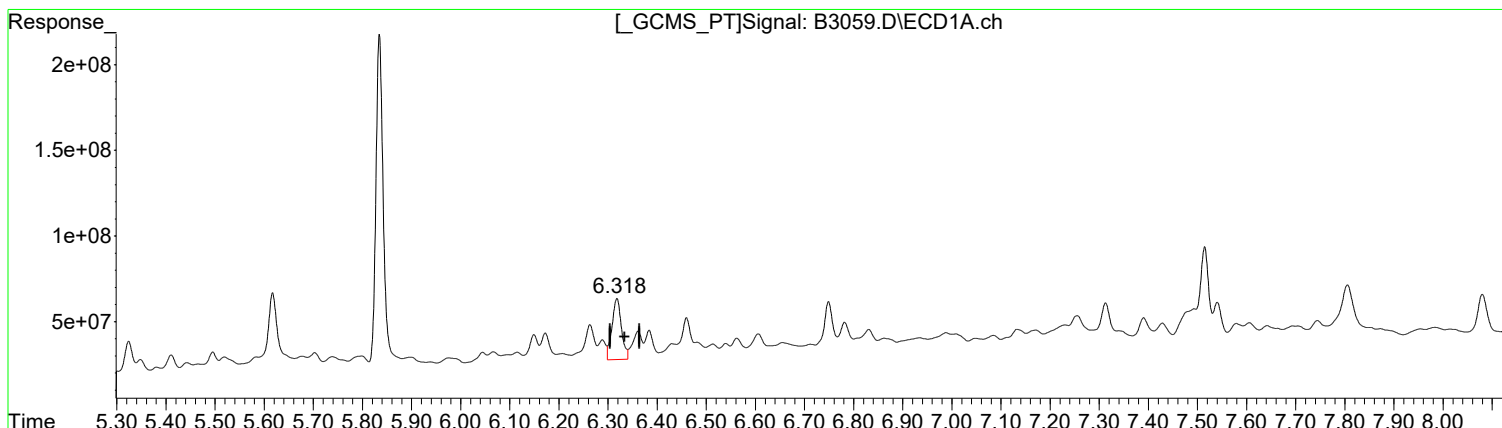
(23) SURR2,Decachlorobiphenyl #2 (S)
7.066min 6.950 ug/l m
response 162156983

Manual Integration:
After
Wrong peak selected.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:16 pm
Operator : AFelser
Sample : R2307728-001|5
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)
6.318min 5.533 ug/l
response 477358549

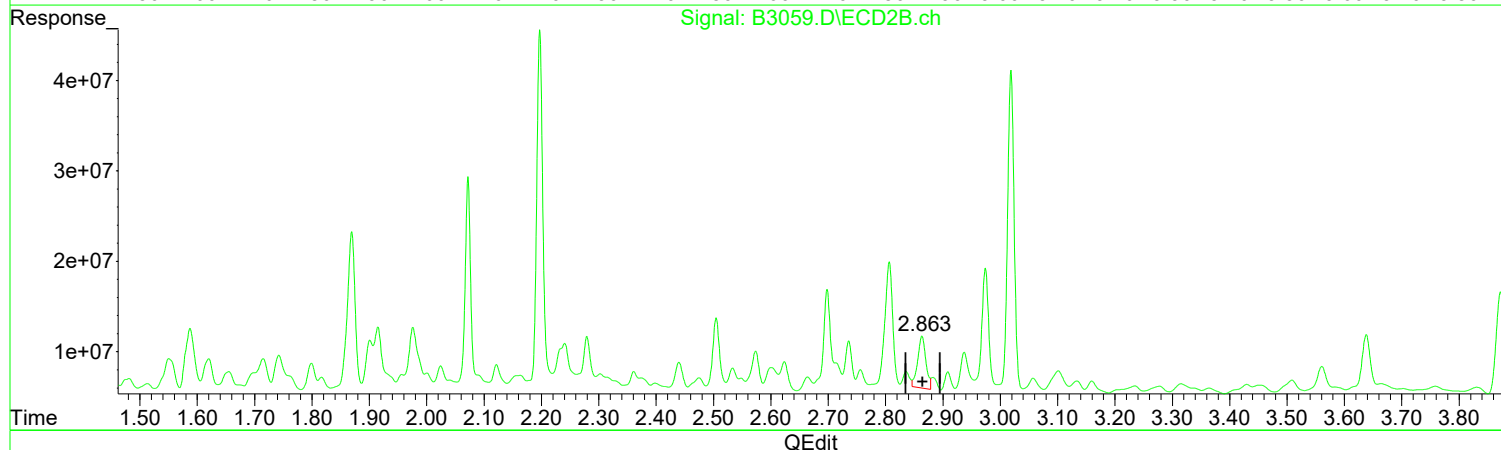
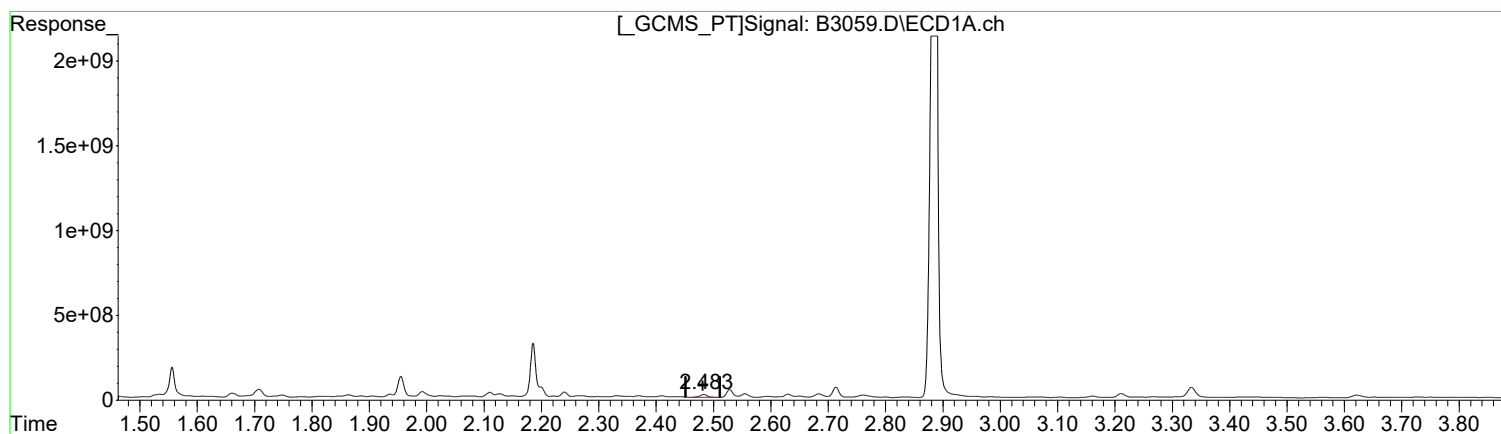
(23) SURR2,Decachlorobiphenyl #2 (S)
7.107min 2.656 ug/l
response 61956758

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:16 pm
Operator : AFelser
Sample : R2307728-001|5
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.483min 0.730 ug/l m
response 169217566

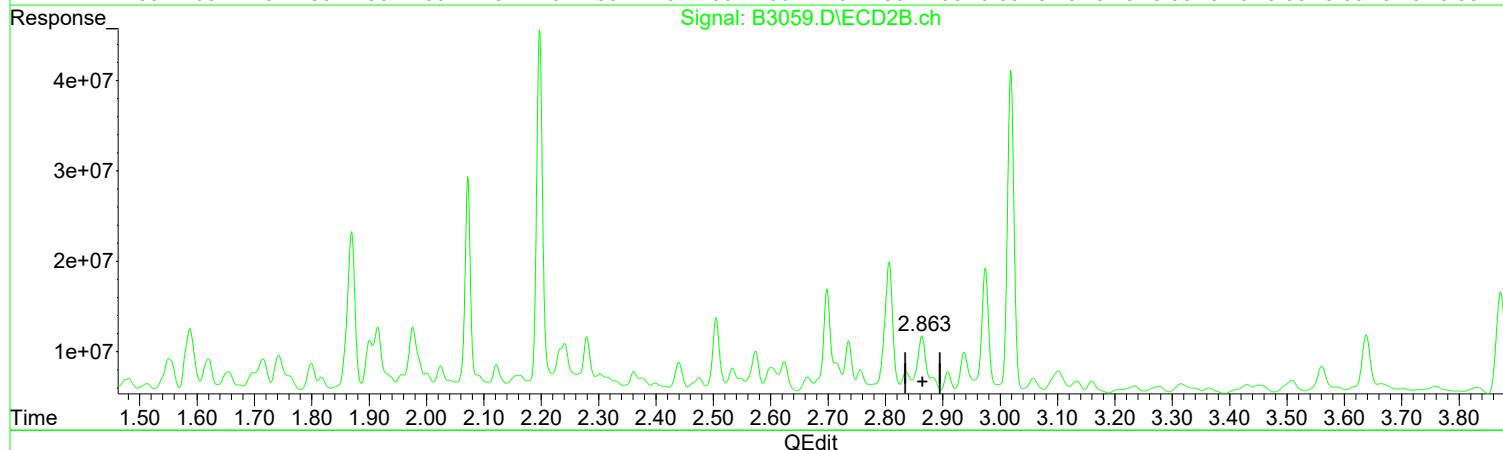
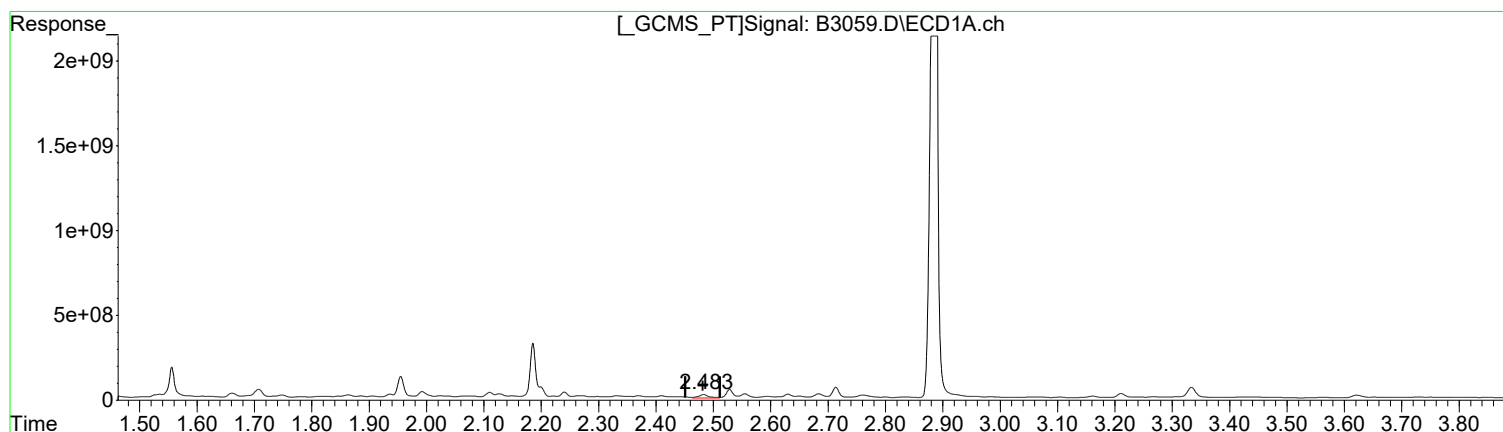
(3) gamma-BHC (L #2 (tcm)
2.863min 0.880 ug/l m
response 57366928

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:16 pm
Operator : AFelser
Sample : R2307728-001|5
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.483min 1.115 ug/l
response 258579312

(3) gamma-BHC (L #2 (tcm)
2.864min 1.185 ug/l
response 77197762

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3059.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 11:16 pm
 Operator : AFelser
 Sample : R2307728-001|5
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:06:04 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

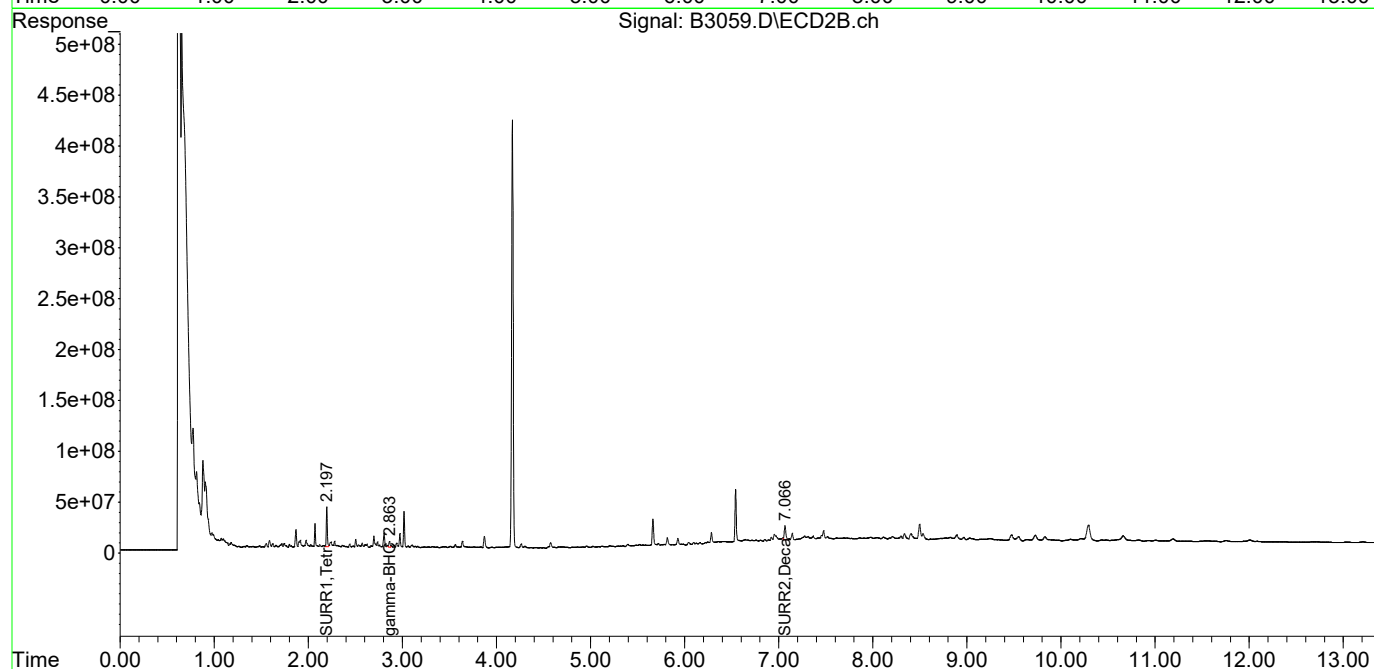
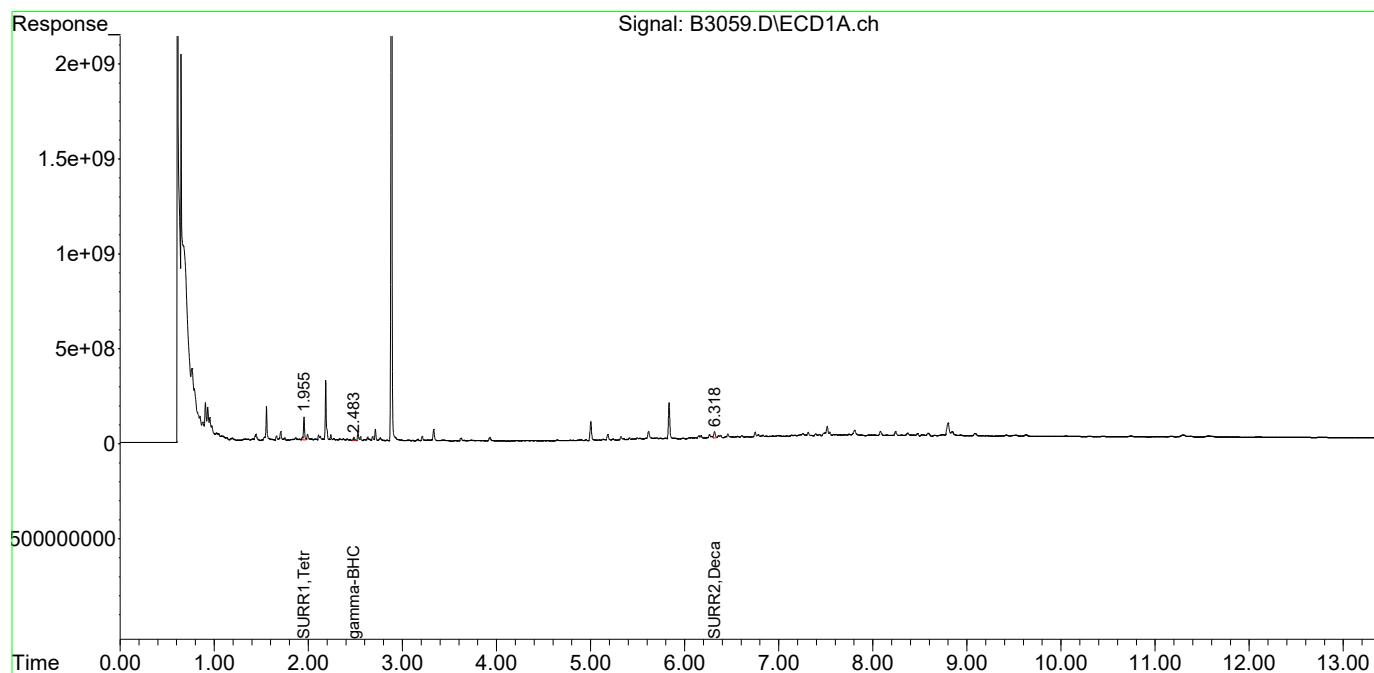
System Monitoring Compounds						
1) S SURR1,Tet...	1.955	2.197	933.6E6	287.9E6	5.540m	5.635m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	5.54%#	5.63%#
23) S SURR2,Dec...	6.318f	7.066f	399.5E6	162.2E6	4.631m	6.950m#
Spiked Amount	100.000 Range	30 - 150	Recovery	=	4.63%#	6.95%#
Target Compounds						
3) tcm gamma-BHC (L	2.483	2.863	169.2E6	57366928	0.730m	0.880m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:16 pm
Operator : AFelser
Sample : R2307728-001|5
Misc :
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

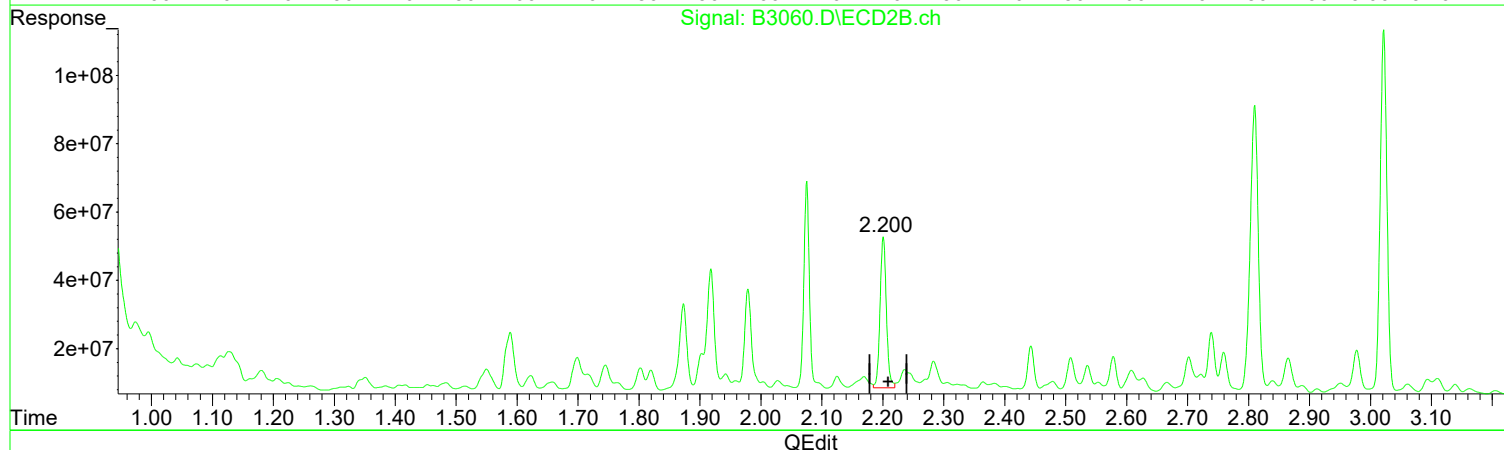
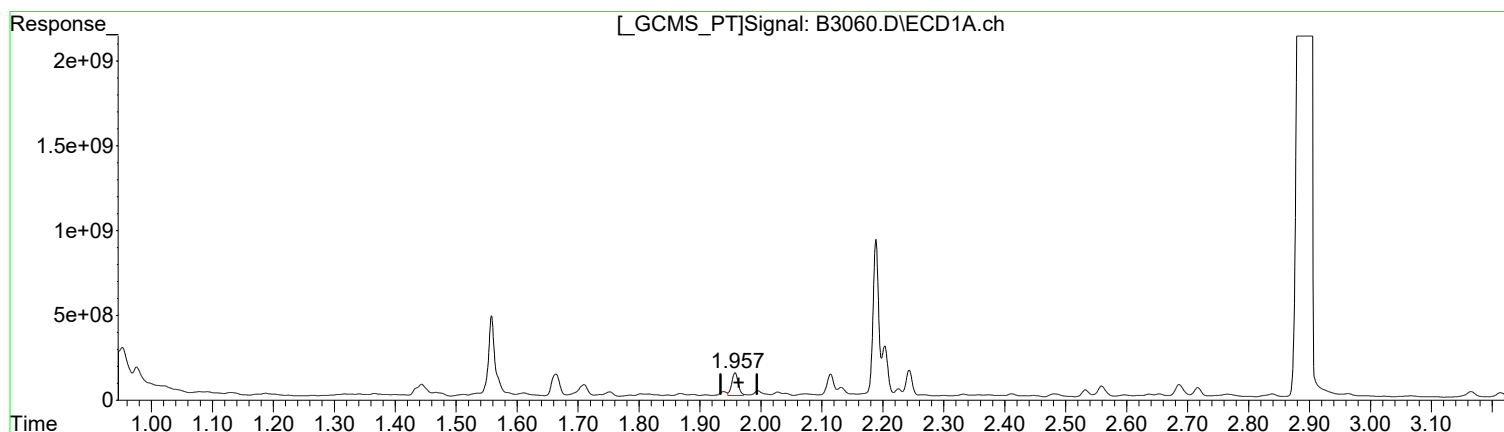
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.957min 5.932 ug/l m
response 999619652

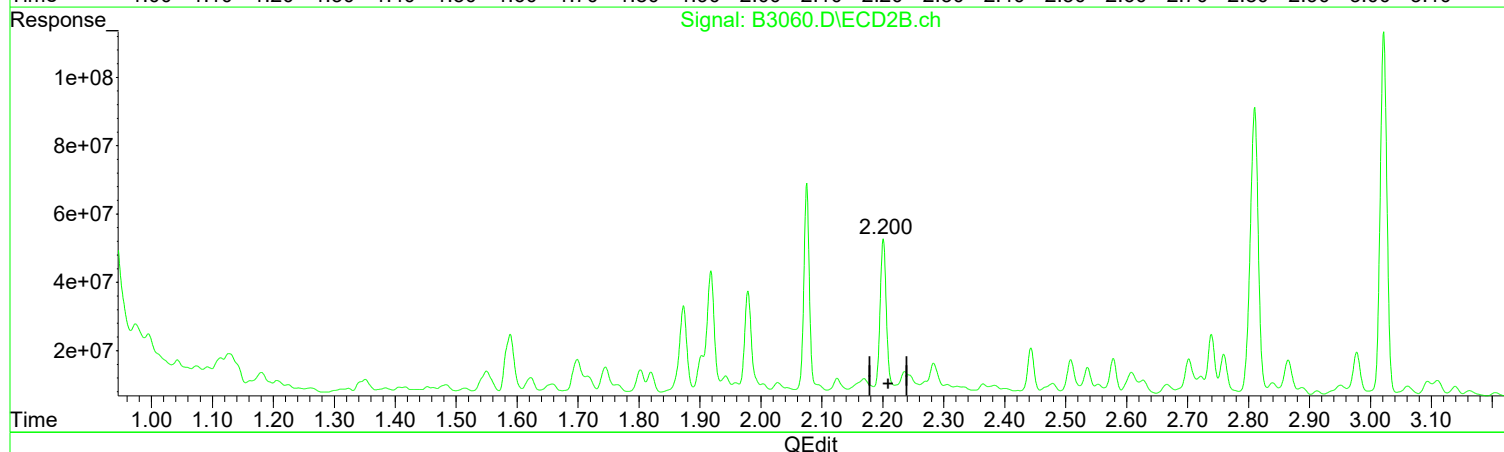
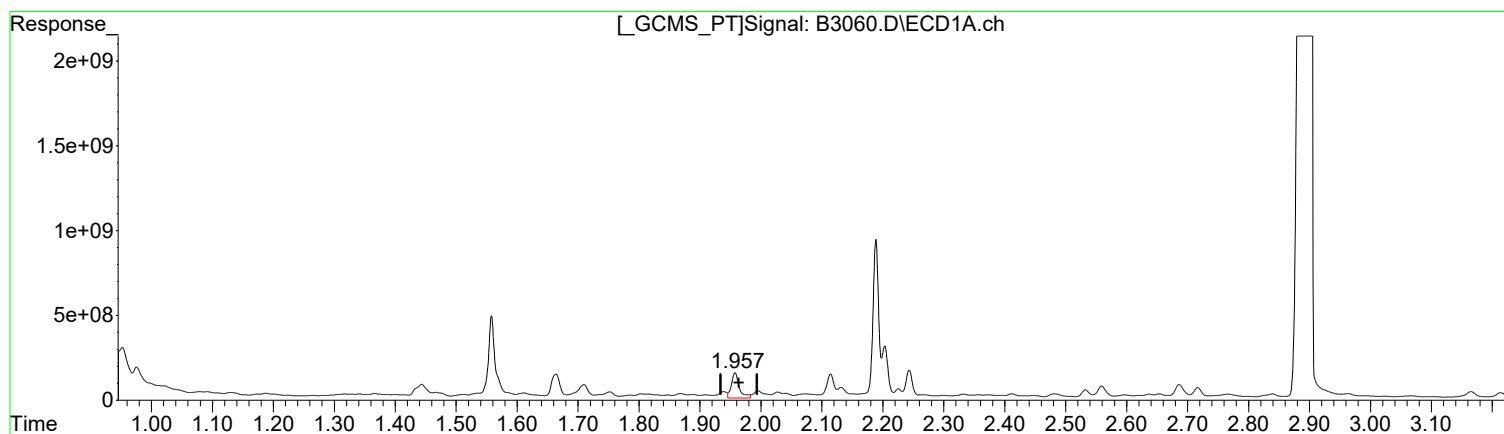
(1) SURR1,Tetrac #2 (S)
2.200min 6.269 ug/l m
response 320226356

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.958min 8.112 ug/l
response 1367035105

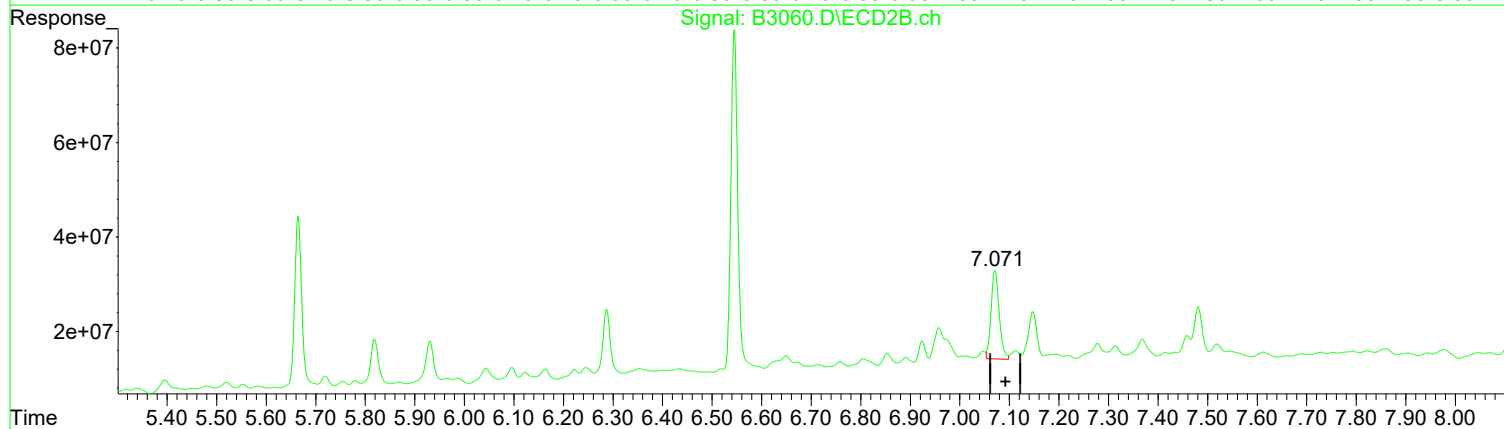
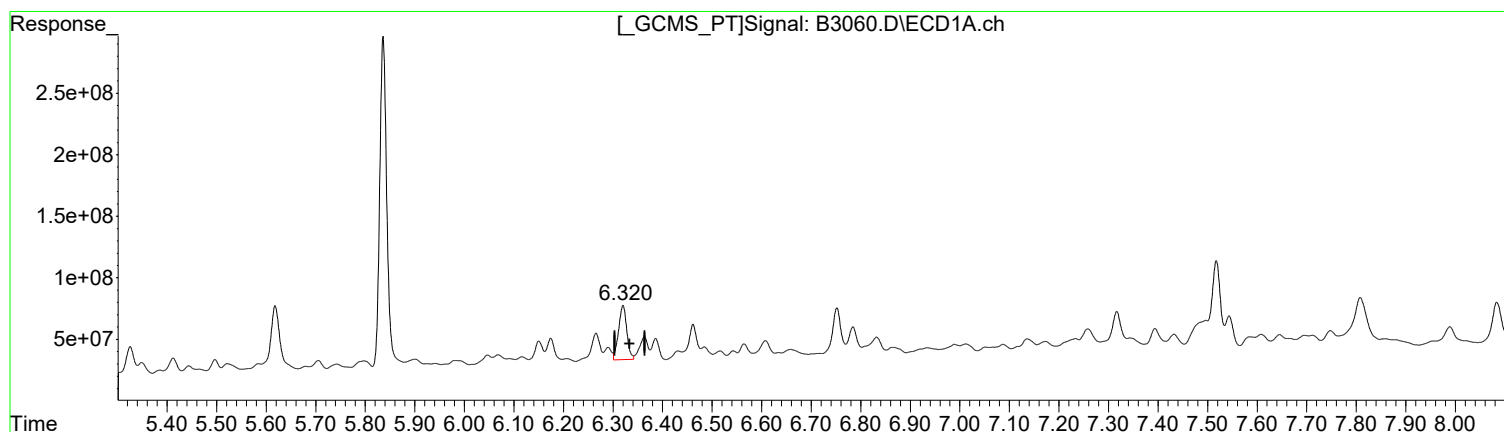
(1) SURR1,Tetrac #2 (S)
2.201min 7.731 ug/l
response 394931553

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(23) SURR2,Decachlorobiphenyl (S)
6.320min 5.878 ug/l m
response 507143797

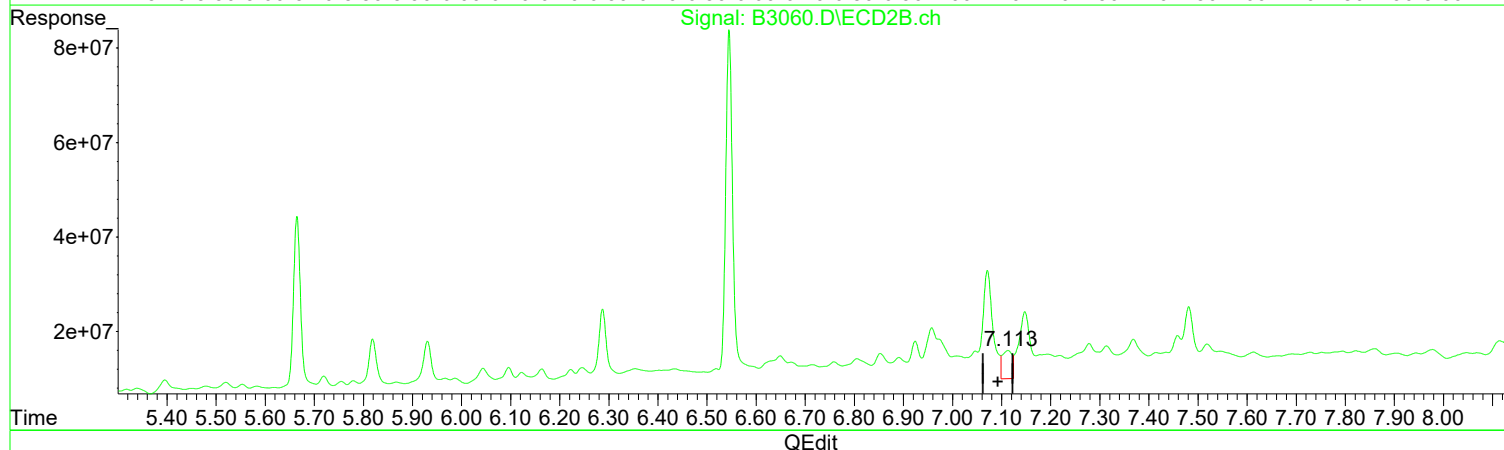
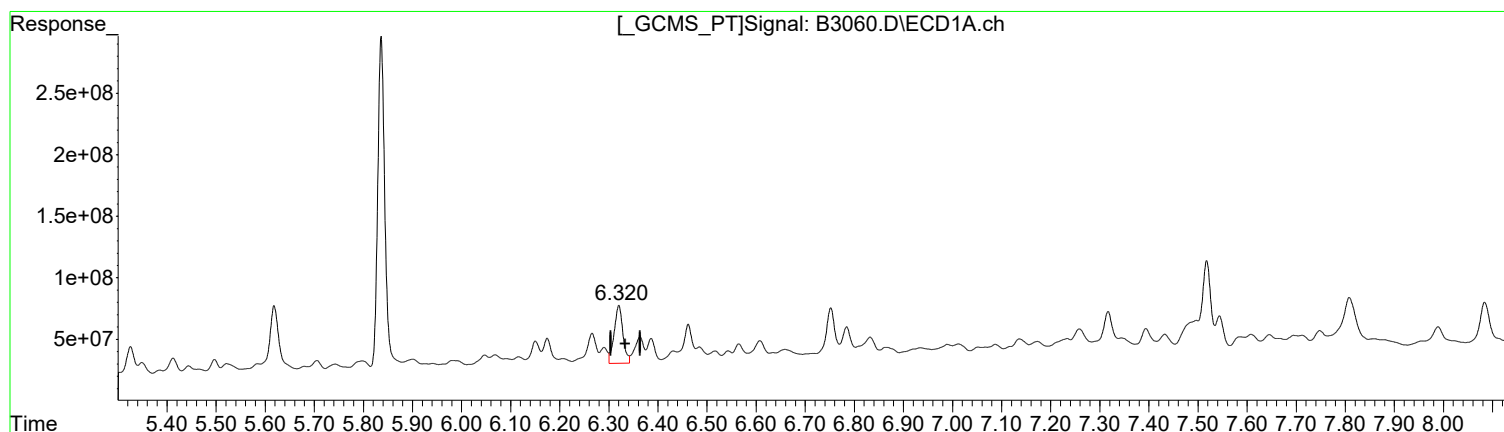
(23) SURR2,Decachlorobiphenyl #2 (S)
7.071min 9.243 ug/l m
response 215642170

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)
6.320min 6.798 ug/l
response 586535349

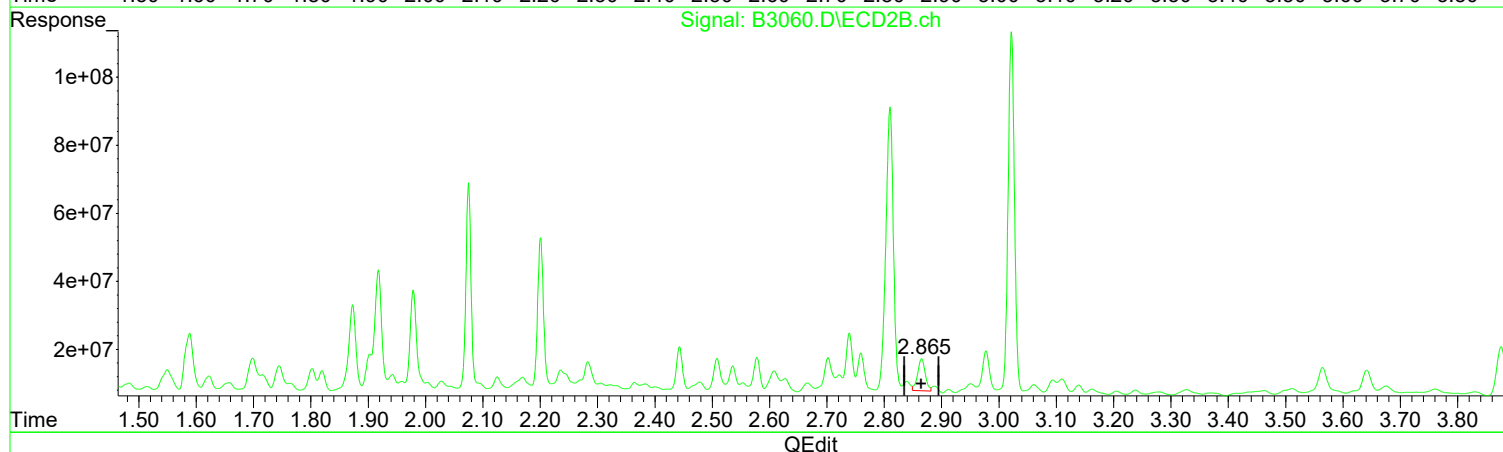
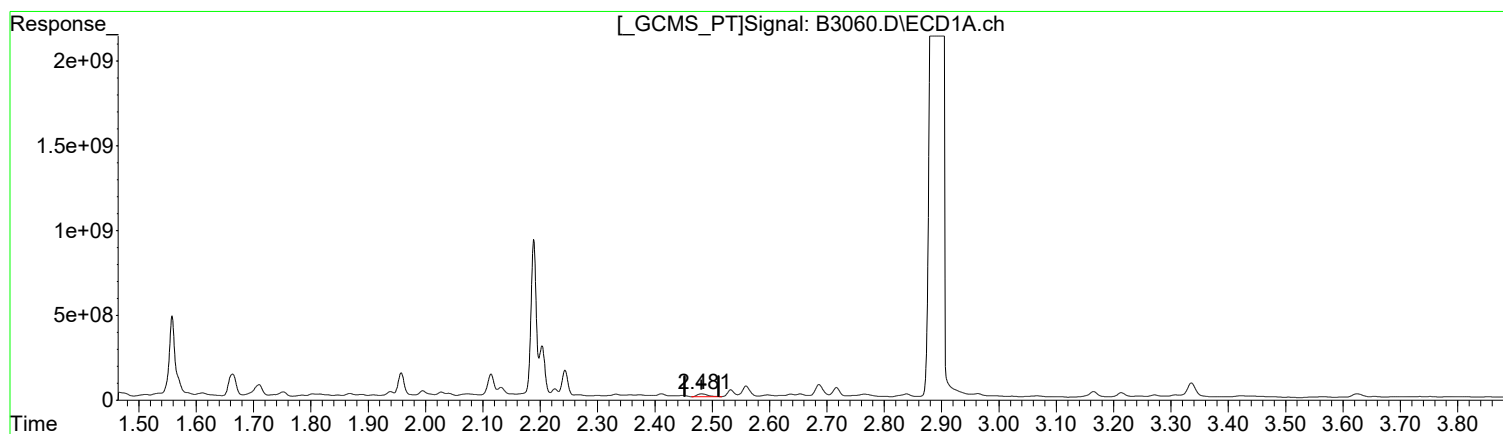
(23) SURR2,Decachlorobiphenyl #2 (S)
7.113min 3.534 ug/l
response 82452242

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.481min 1.020 ug/l m
response 236465181

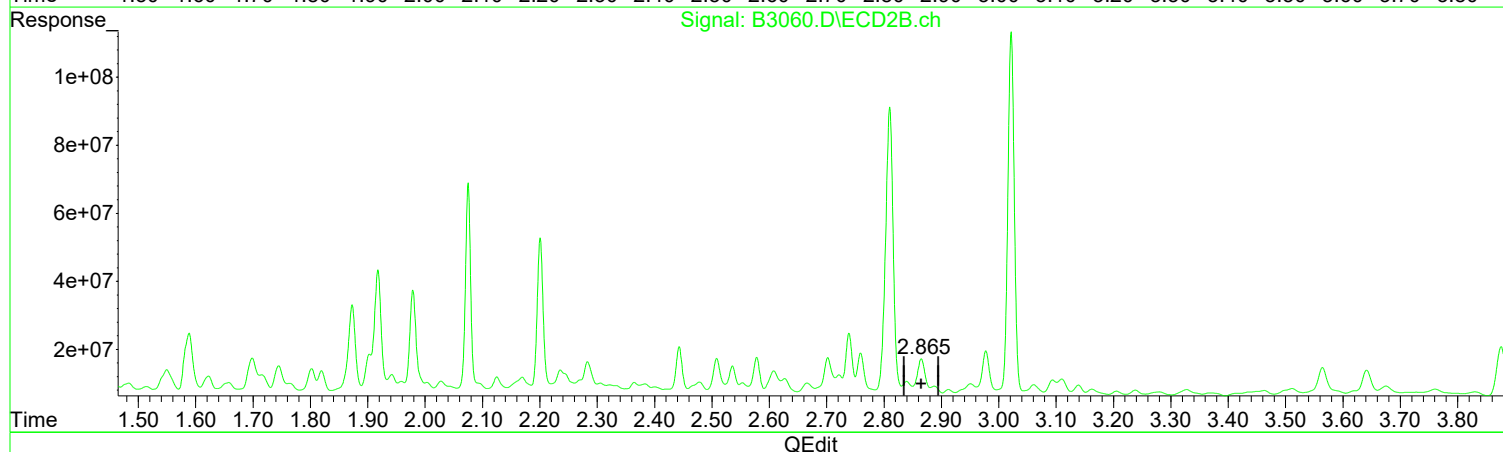
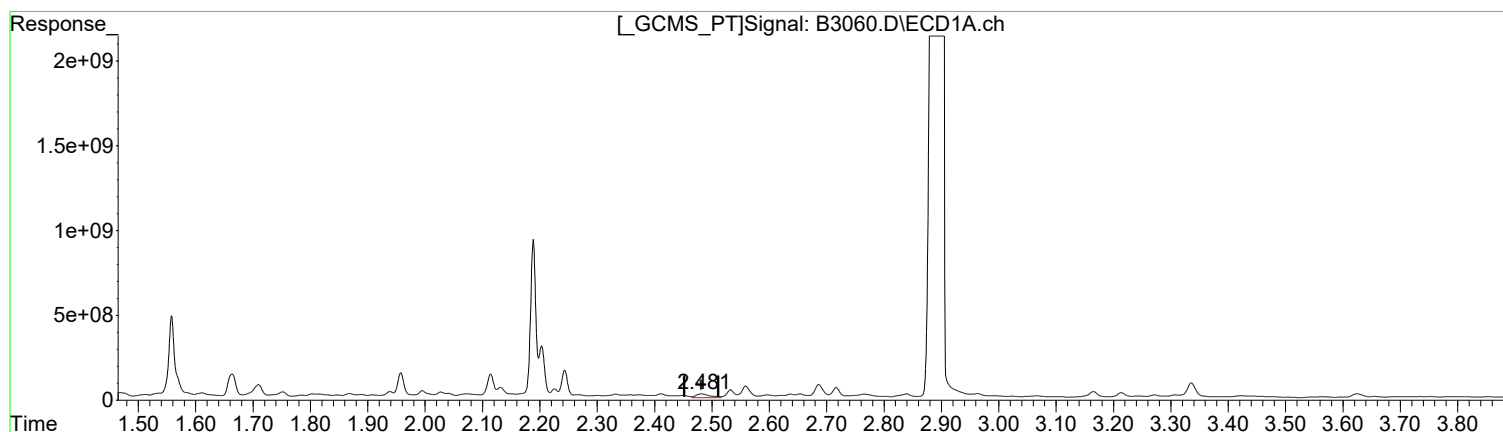
(3) gamma-BHC (L #2 (tcm)
2.865min 1.328 ug/l m
response 86570127

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.482min 1.647 ug/l
response 381950741

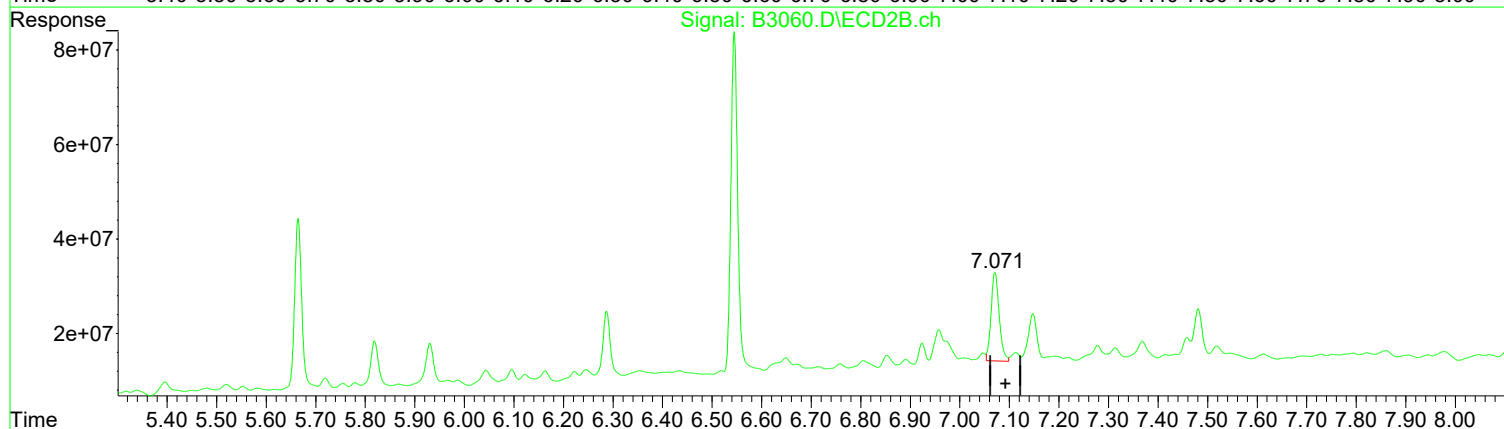
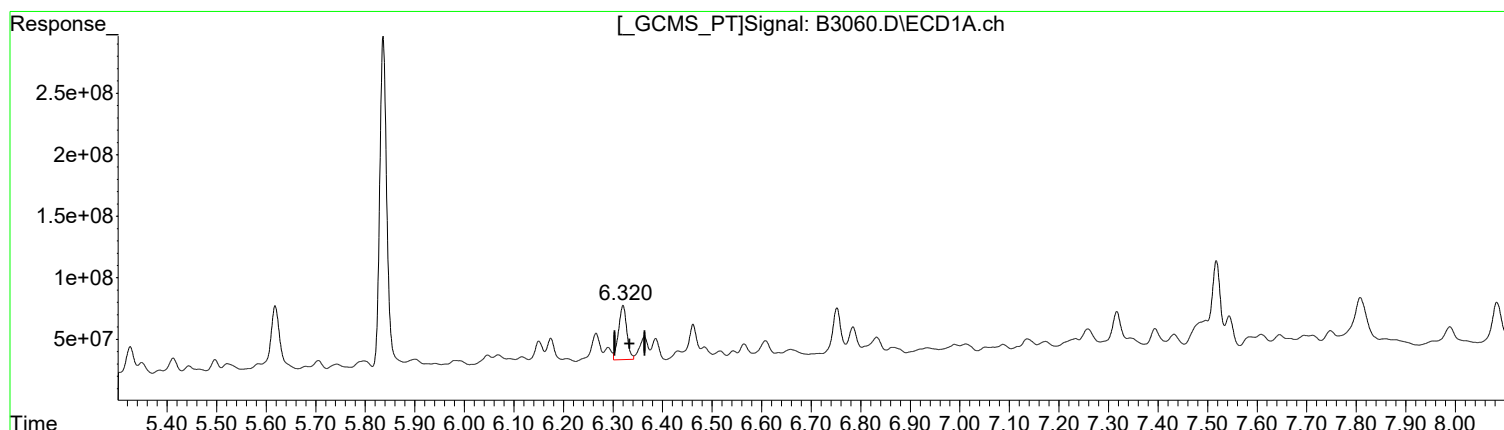
(3) gamma-BHC (L #2 (tcm)
2.865min 1.925 ug/l
response 125439265

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)
6.320min 5.878 ug/l m
response 507143797

(23) SURR2,Decachlorobiphenyl #2 (S)
7.071min 9.243 ug/l m
response 215642170

Manual Integration:
After
Wrong peak selected.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

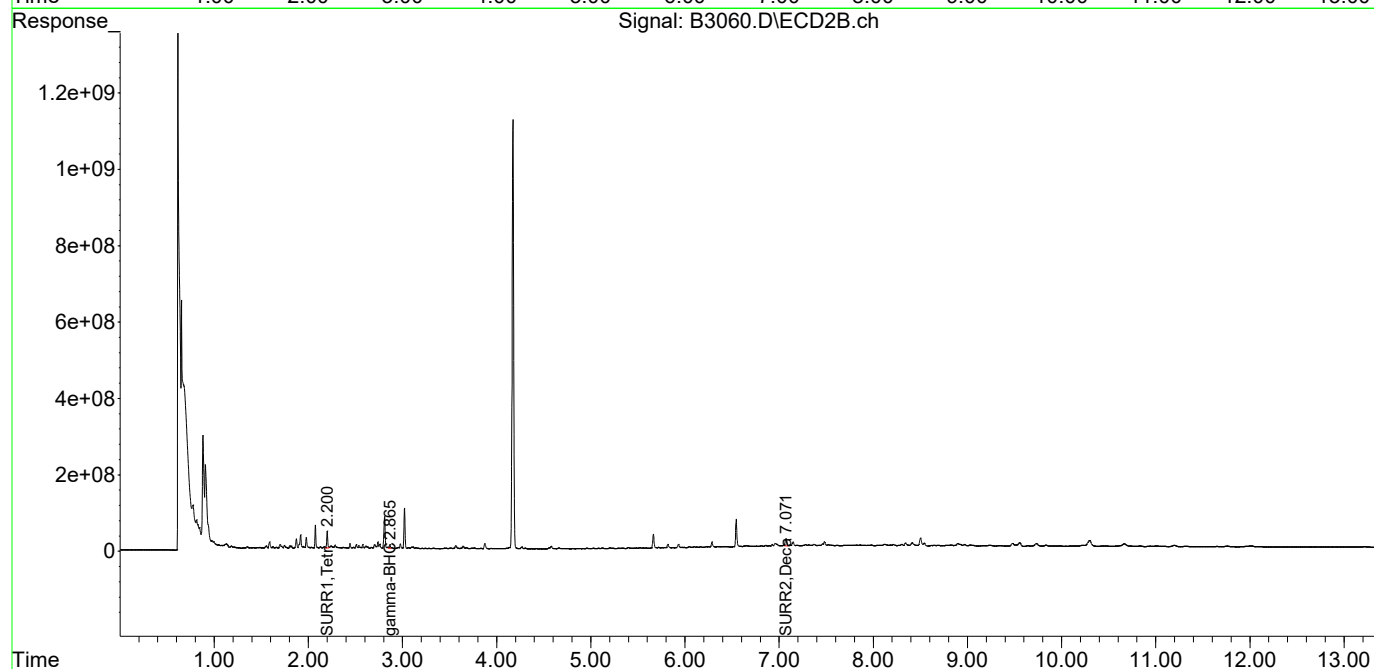
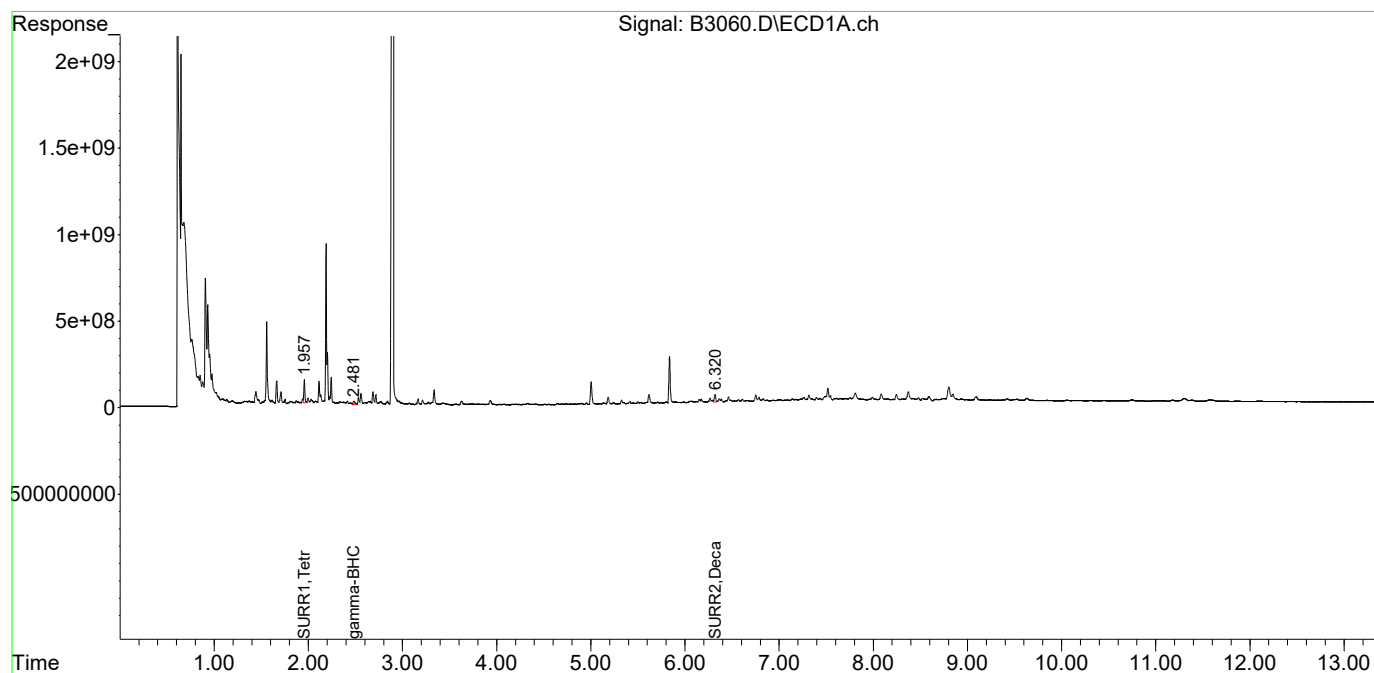
System Monitoring Compounds						
1) S SURR1,Tet...	1.957	2.200	999.6E6	320.2E6	5.932m	6.269m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	5.93%#	6.27%#
23) S SURR2,Dec...	6.320	7.071f	507.1E6	215.6E6	5.878m	9.243m#
Spiked Amount	100.000 Range	30 - 150	Recovery	=	5.88%#	9.24%#
Target Compounds						
3) tcm gamma-BHC (L	2.481	2.865	236.5E6	86570127	1.020m	1.328m#
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:34 pm
Operator : AFelser
Sample : R2307728-002|5
Misc :
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

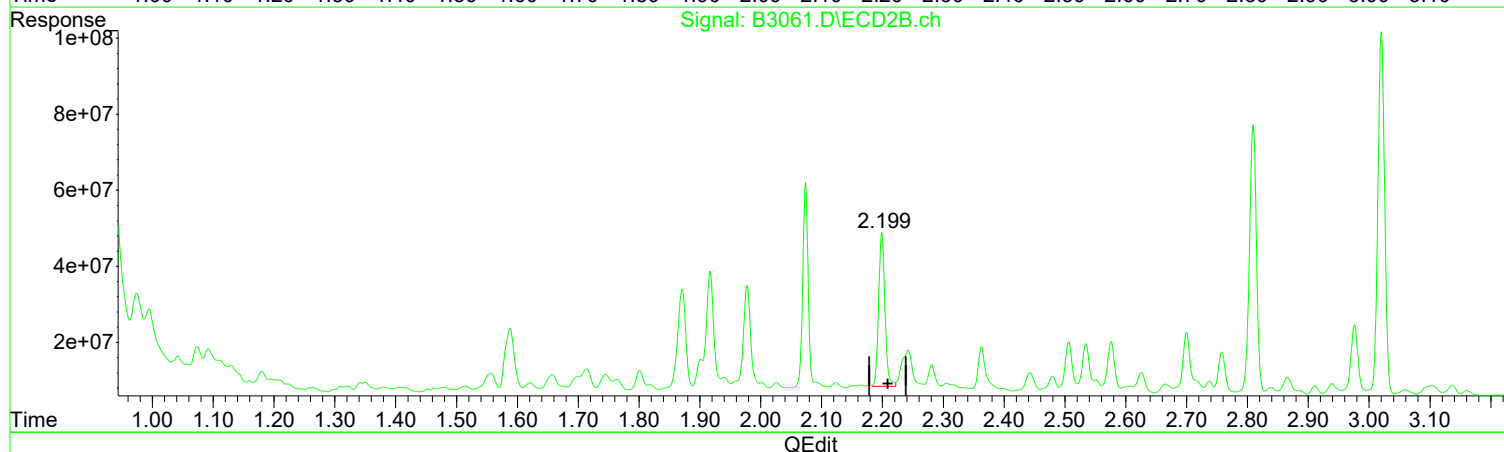
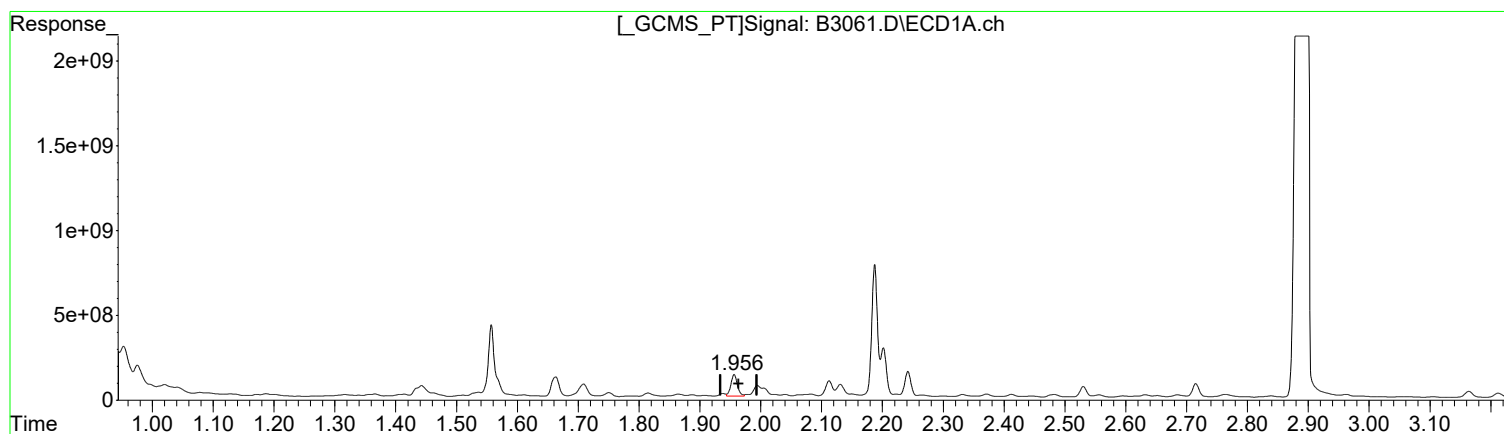
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:51 pm
Operator : AFelser
Sample : R2307728-003|5
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:10 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.956min 5.629 ug/l m
response 948590316

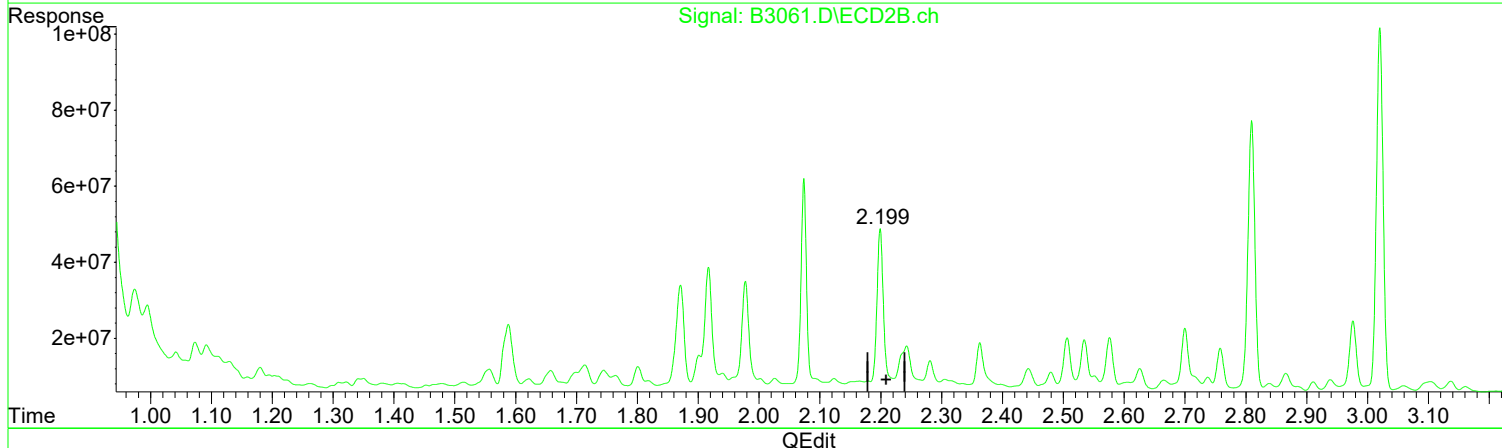
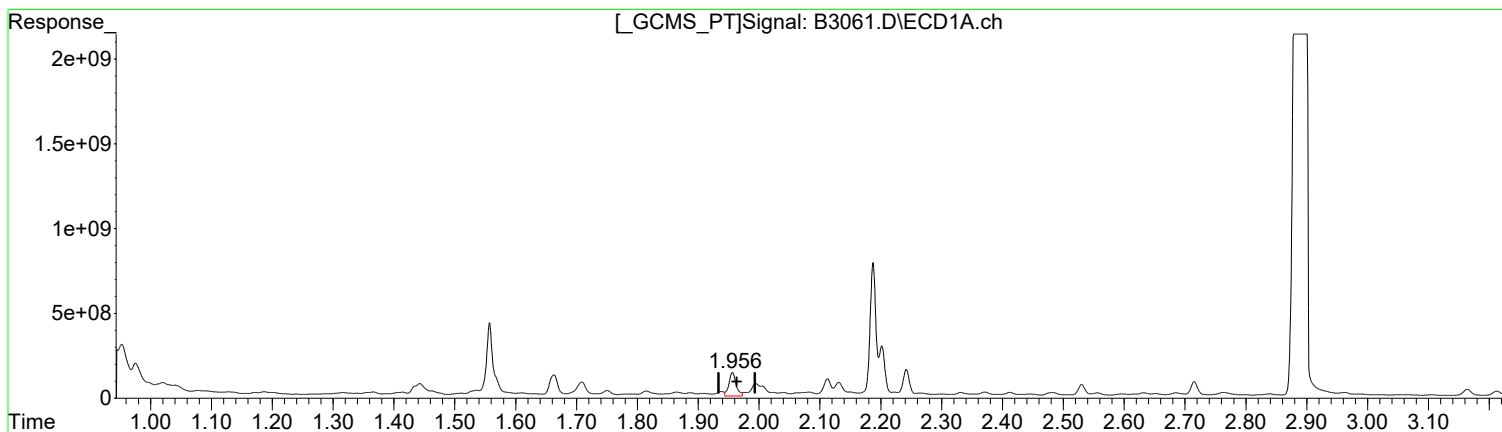
(1) SURR1,Tetrac #2 (S)
2.199min 5.737 ug/l m
response 293048919

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:51 pm
Operator : AFelser
Sample : R2307728-003|5
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:10 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.956min 6.907 ug/l
response 1163961839

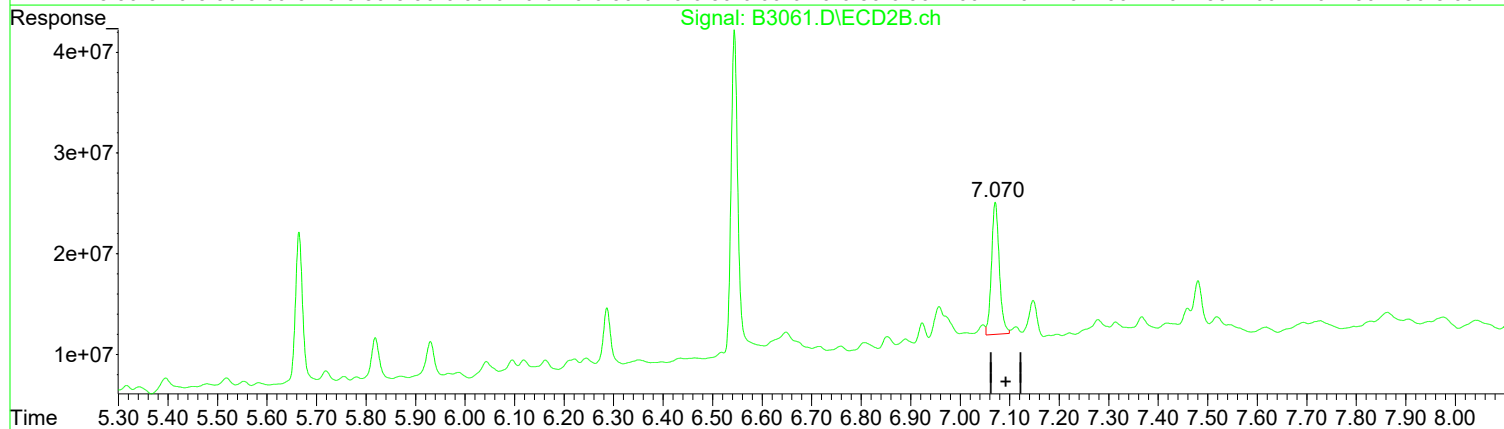
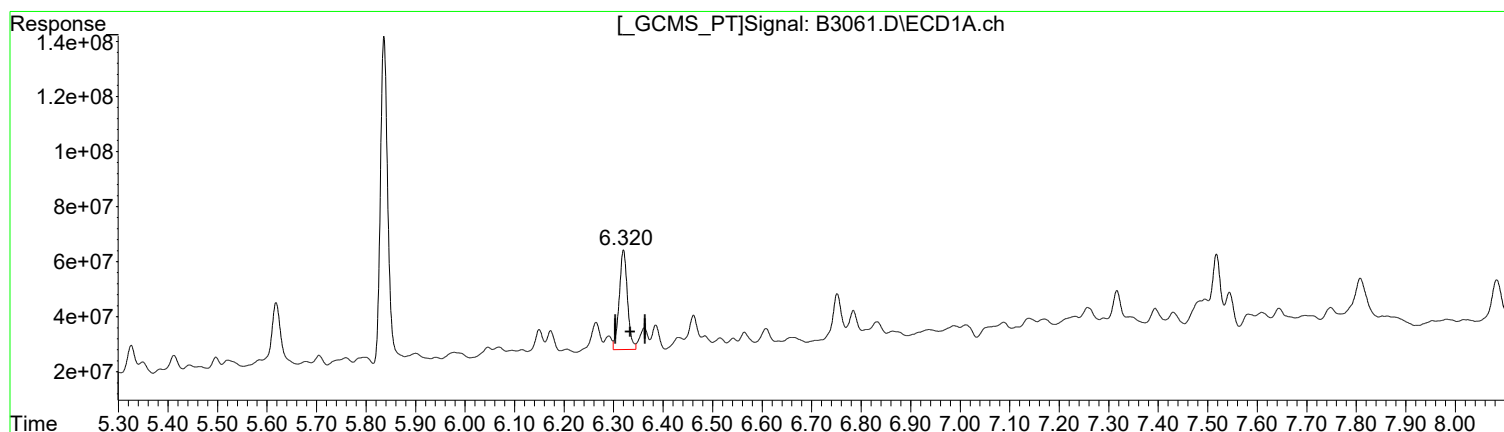
(1) SURR1,Tetrac #2 (S)
2.199min 7.429 ug/l
response 379505261

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:51 pm
Operator : AFelser
Sample : R2307728-003|5
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:10 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(23) SURR2,Decachlorobiphenyl (S)
6.320min 4.826 ug/l m
response 416405522

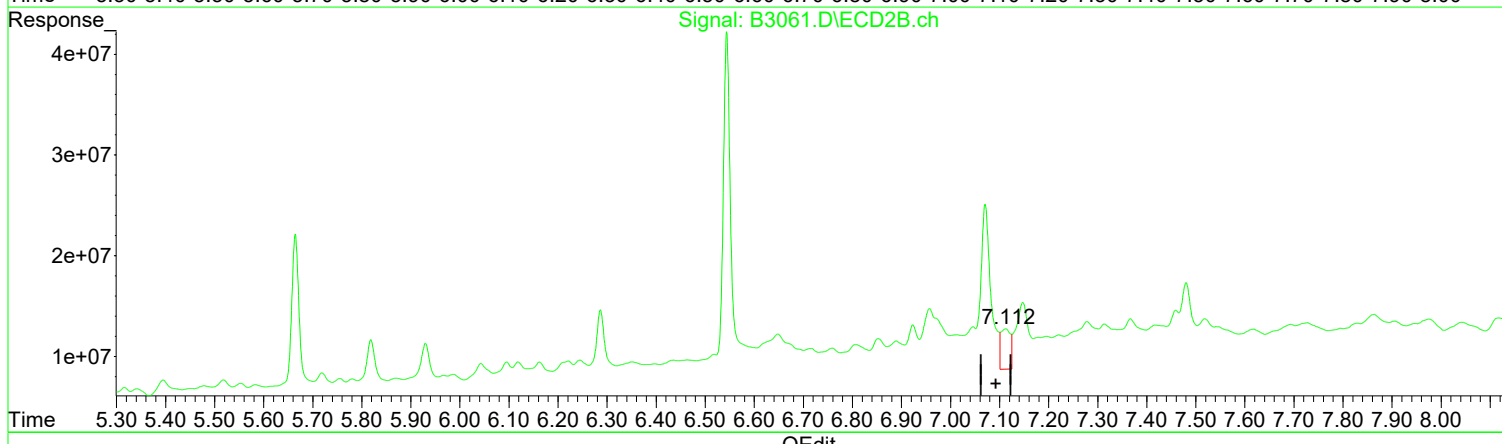
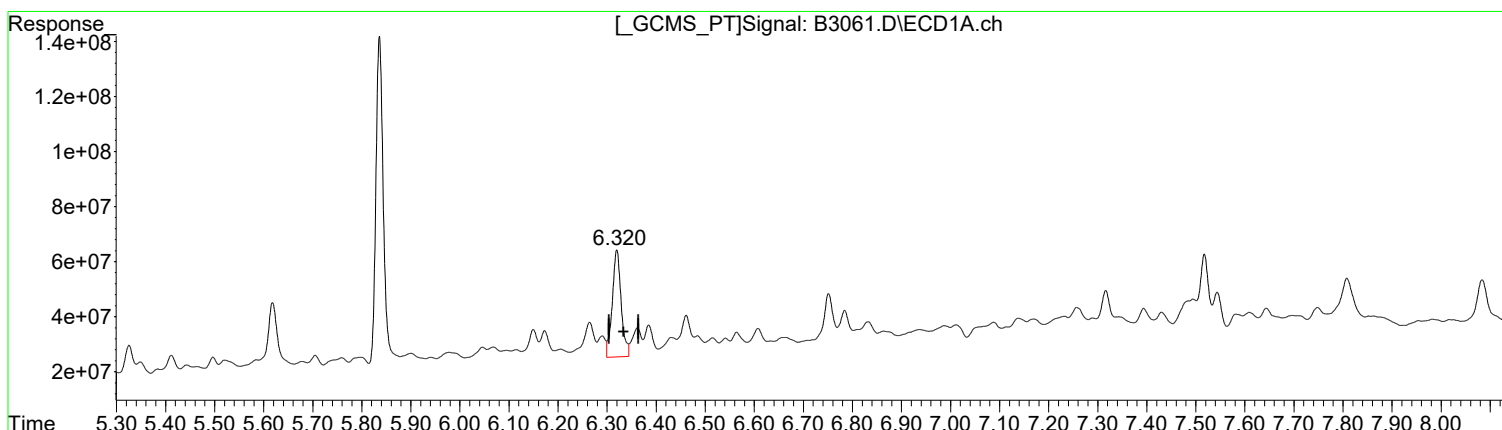
(23) SURR2,Decachlorobiphenyl #2 (S)
7.070min 6.183 ug/l m
response 144243364

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:51 pm
Operator : AFelser
Sample : R2307728-003|5
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:10 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)
6.320min 5.657 ug/l
response 488081920

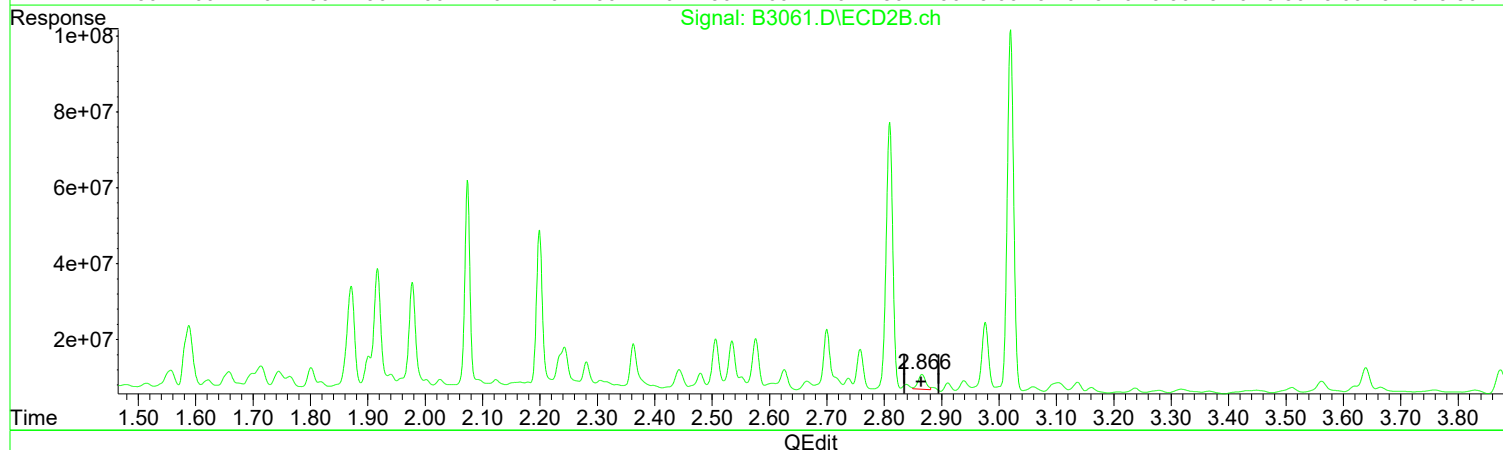
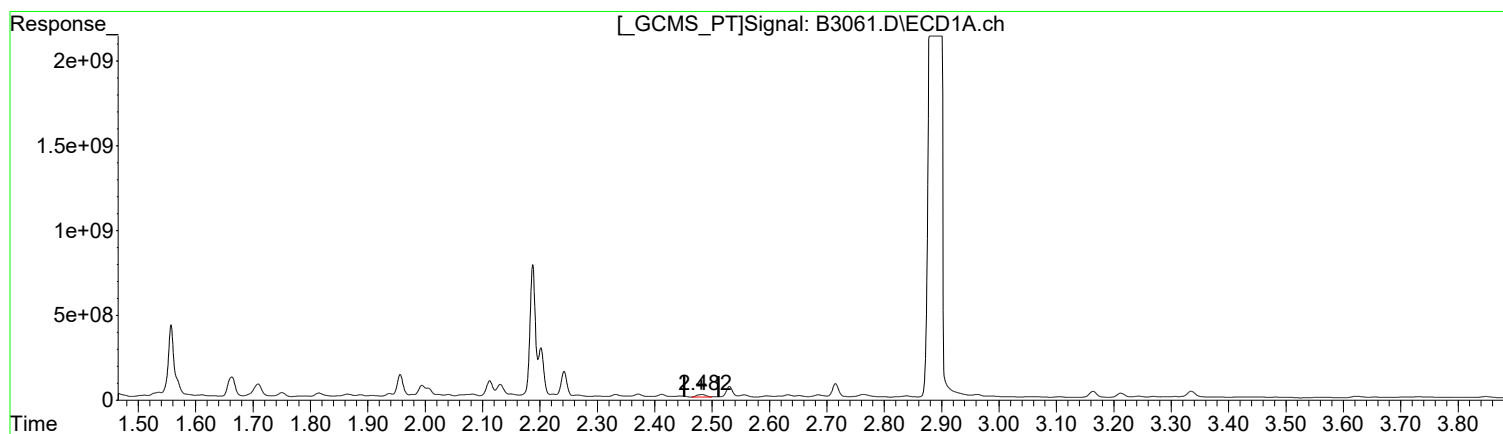
(23) SURR2,Decachlorobiphenyl #2 (S)
7.112min 2.358 ug/l
response 55008315

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:51 pm
Operator : AFelser
Sample : R2307728-003|5
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:10 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.482min 0.722 ug/l m
response 167459521

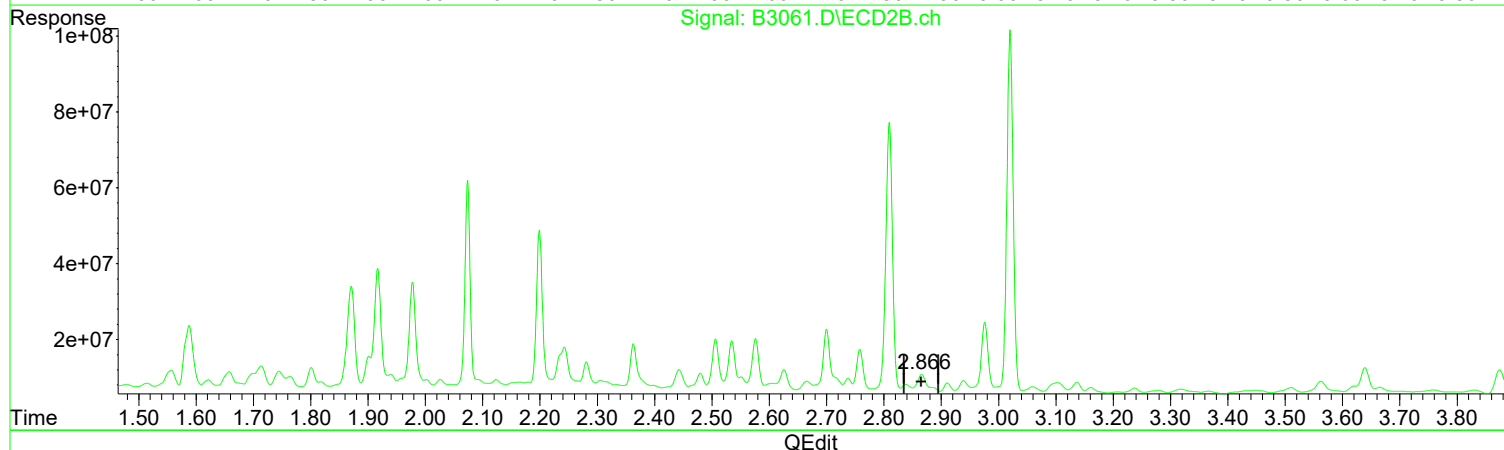
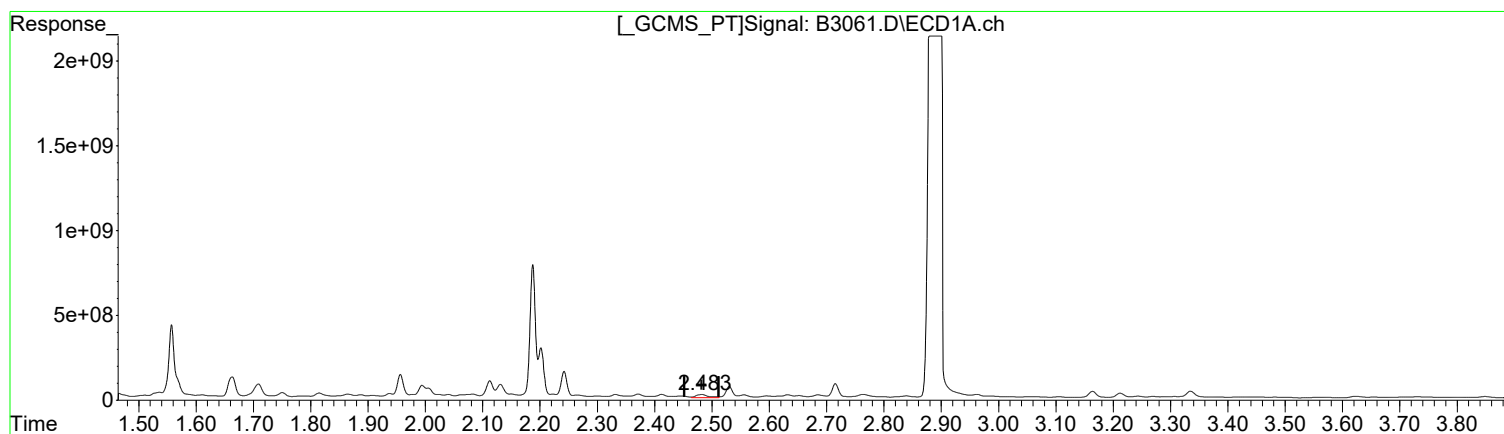
(3) gamma-BHC (L #2 (tcm)
2.866min 0.547 ug/l m
response 35680073

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:51 pm
Operator : AFelser
Sample : R2307728-003|5
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:10 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.483min 1.287 ug/l
response 298333091

(3) gamma-BHC (L #2 (tcm)
2.866min 1.059 ug/l
response 69029244

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3061.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 11:51 pm
 Operator : AFelser
 Sample : R2307728-003|5
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:06:10 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

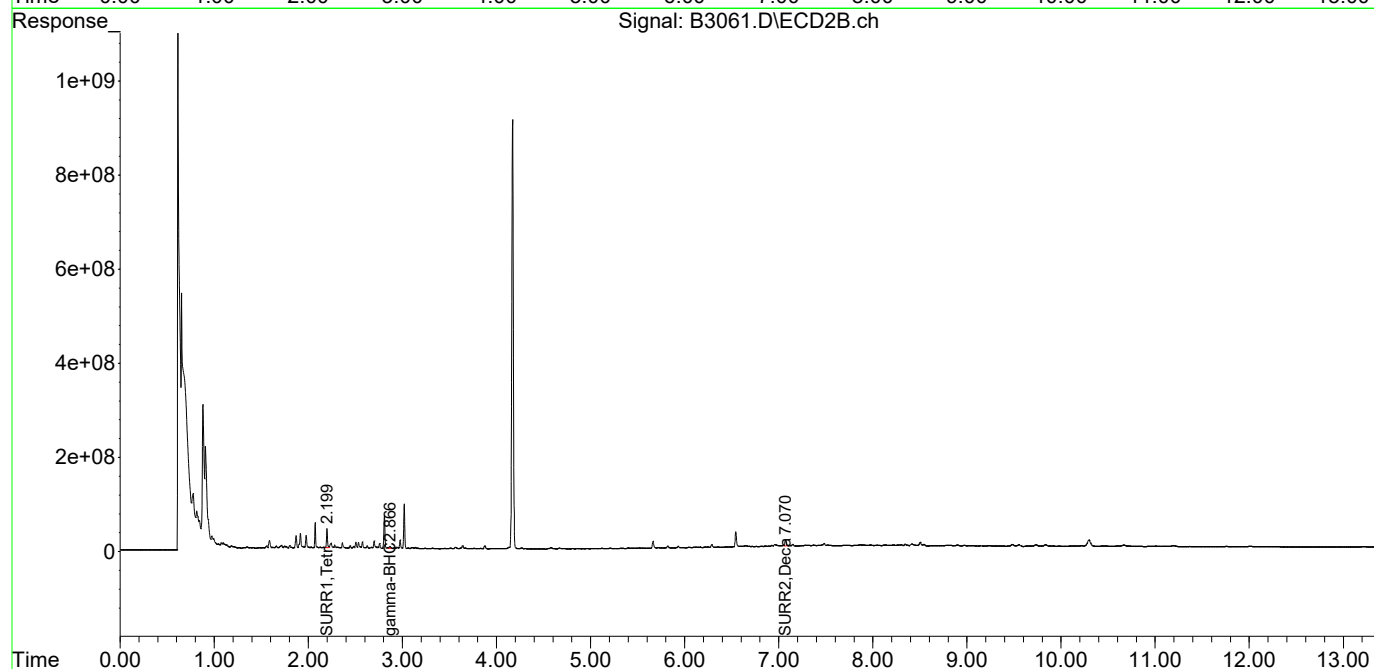
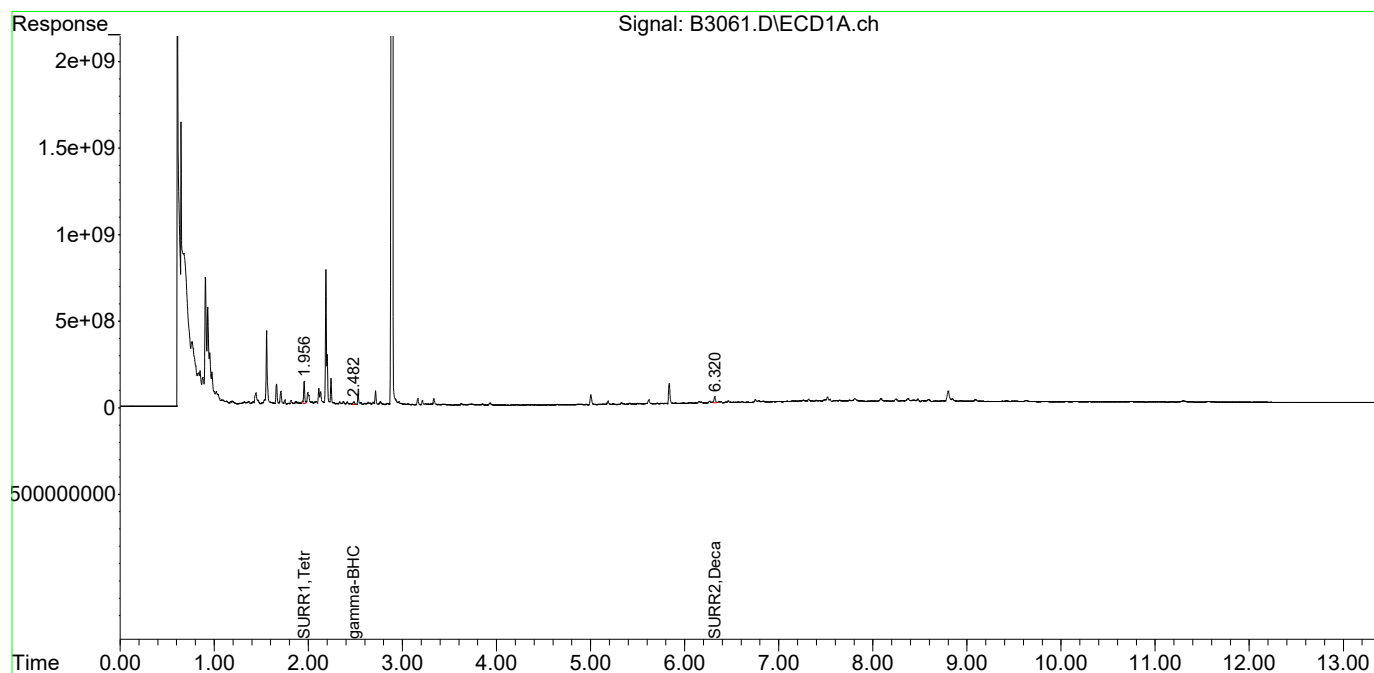
System Monitoring Compounds						
1) S SURR1,Tet...	1.956	2.199	948.6E6	293.0E6	5.629m	5.737m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	5.63%#	5.74%#
23) S SURR2,Dec...	6.320	7.070f	416.4E6	144.2E6	4.826m	6.183m#
Spiked Amount	100.000 Range	30 - 150	Recovery	=	4.83%#	6.18%#
Target Compounds						
3) tcm gamma-BHC (L	2.482	2.866	167.5E6	35680073	0.722m	0.547m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:51 pm
Operator : AFelser
Sample : R2307728-003|5
Misc :
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:10 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3051.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 08:53 pm
 Operator : AFelser
 Sample : RQ2311102-01
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:40 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

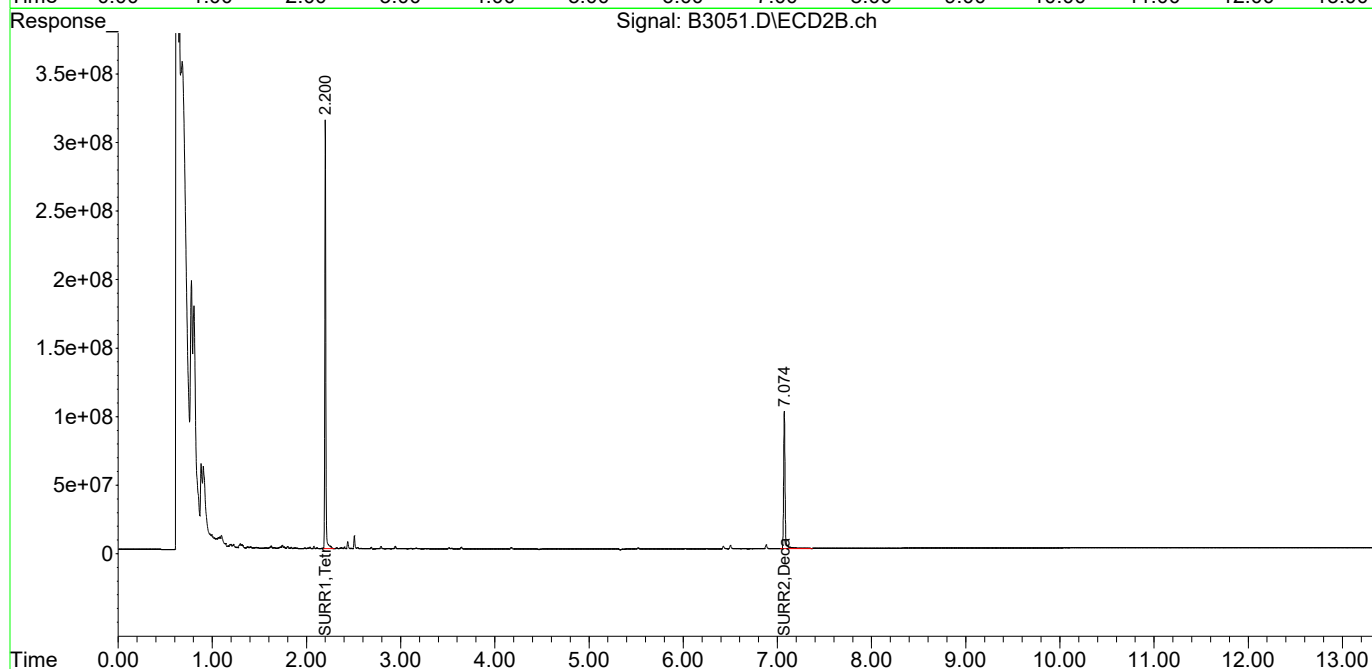
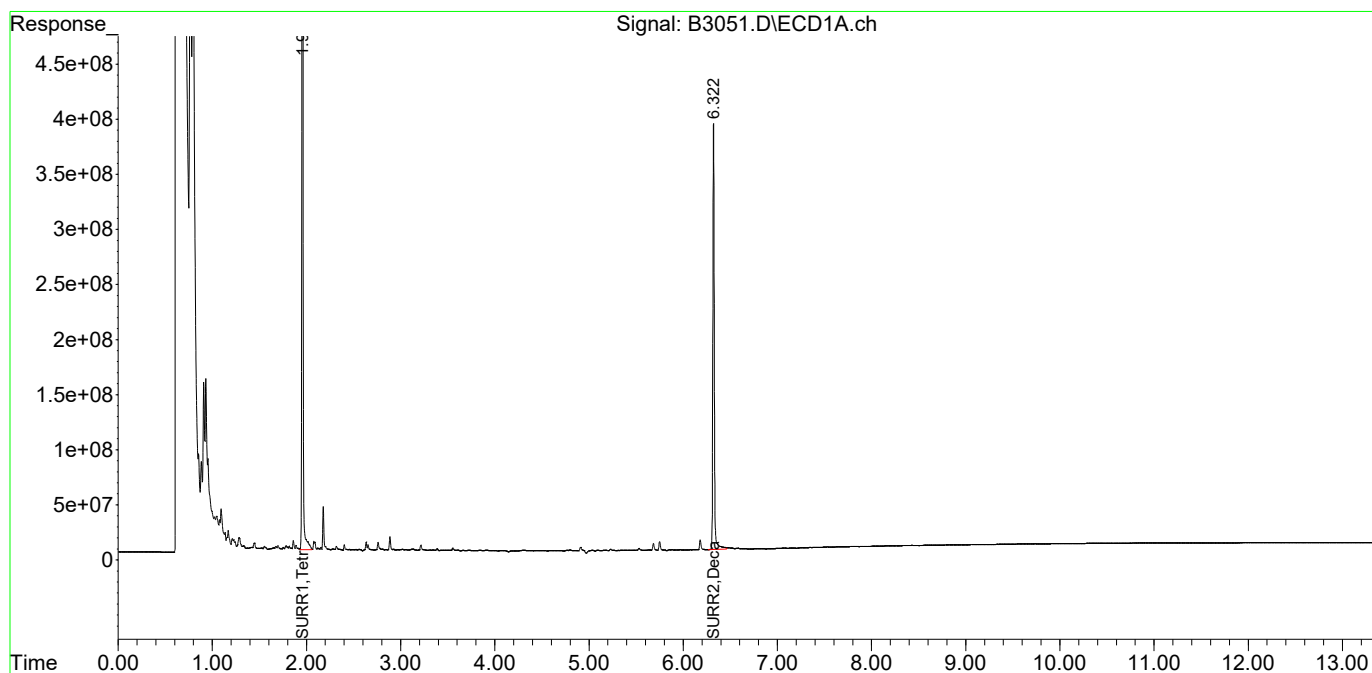
System Monitoring Compounds						
1) S SURR1,Tet...	1.958	2.201	7666.3E6	2319.5E6	45.494	45.409
Spiked Amount	100.000 Range	30 - 150	Recovery	=	45.49%	45.41%
23) S SURR2,Dec...	6.323	7.074f	4014.6E6	1056.1E6	46.529	45.266
Spiked Amount	100.000 Range	30 - 150	Recovery	=	46.53%	45.27%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3051.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 08:53 pm
Operator : AFelser
Sample : RQ2311102-01
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:40 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

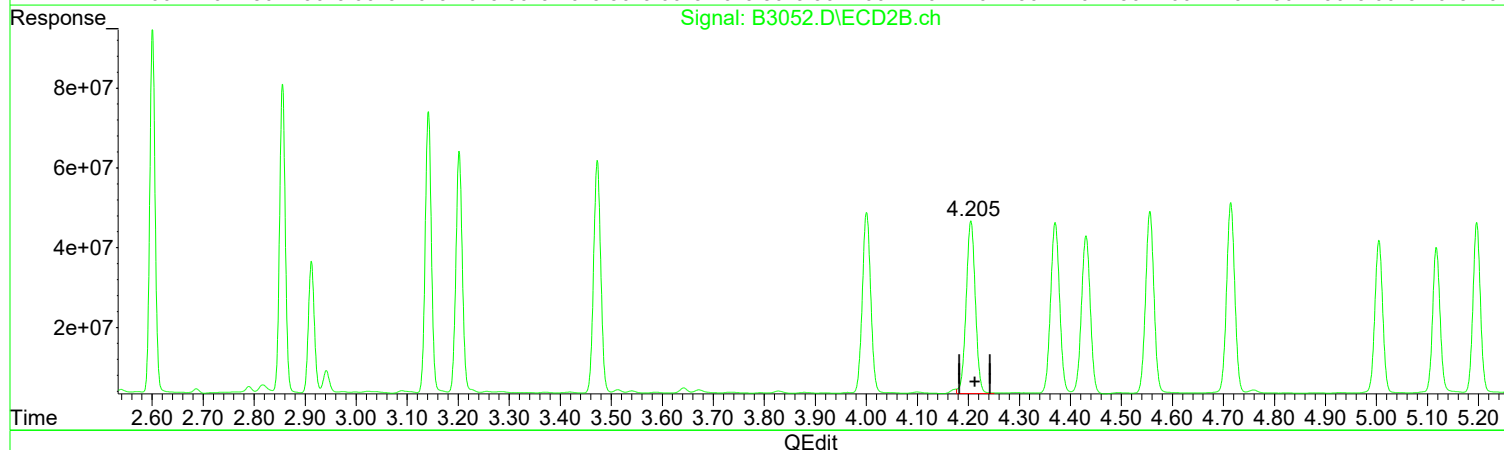
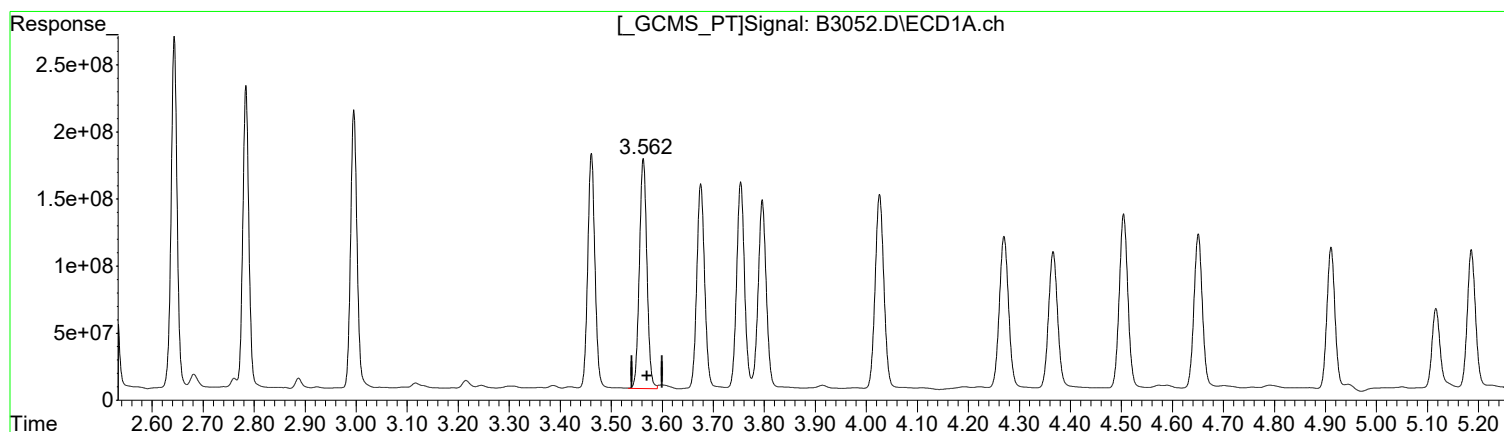
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(10) gamma-Chlord (tc)
3.563min 9.355 ug/l
response 1760429023

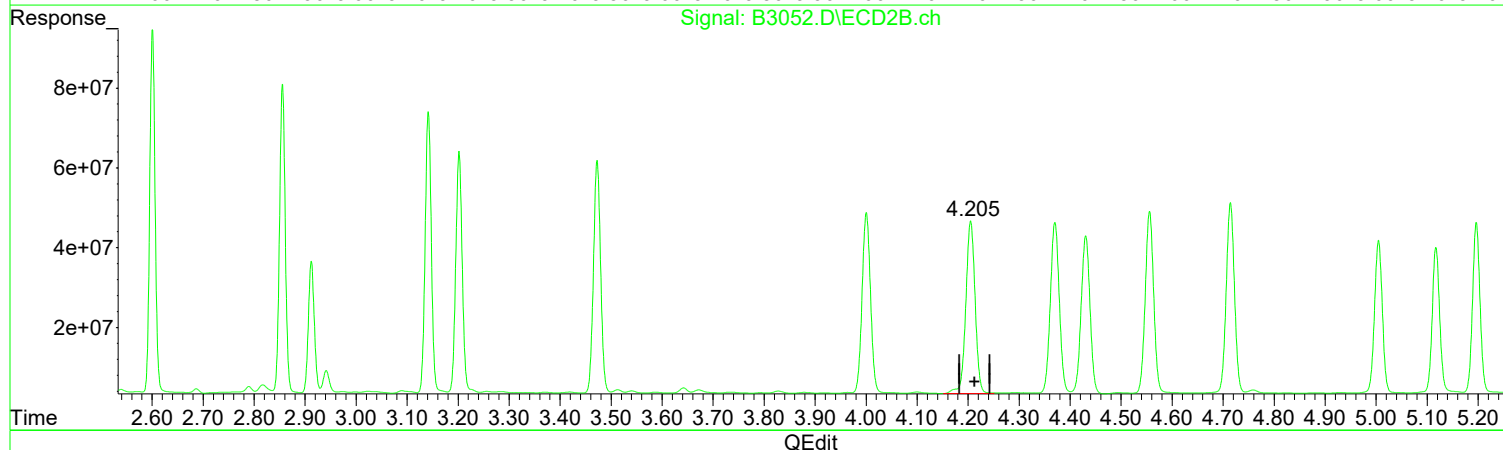
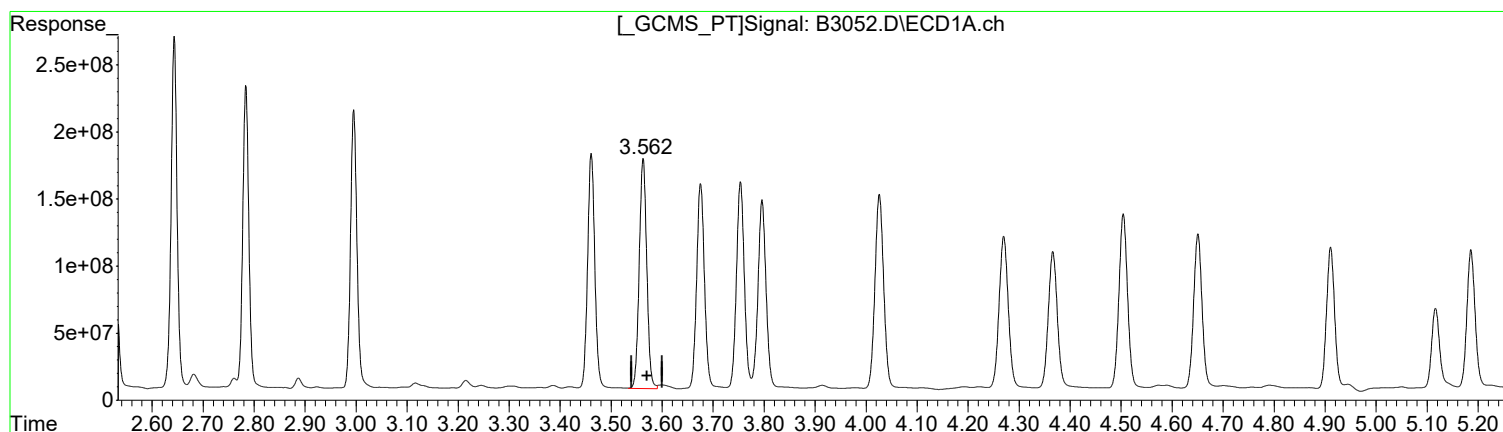
(10) gamma-Chlord #2 (tc)
4.205min 9.875 ug/l m
response 541696577

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(10) gamma-Chlord (tc)
3.563min 9.355 ug/l
response 1760429023

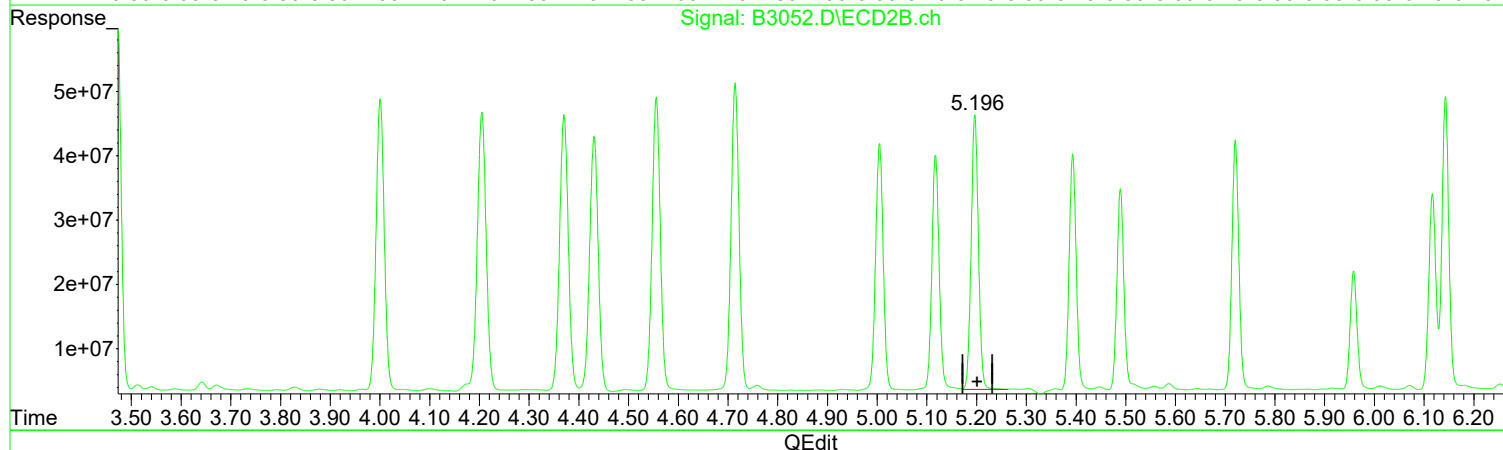
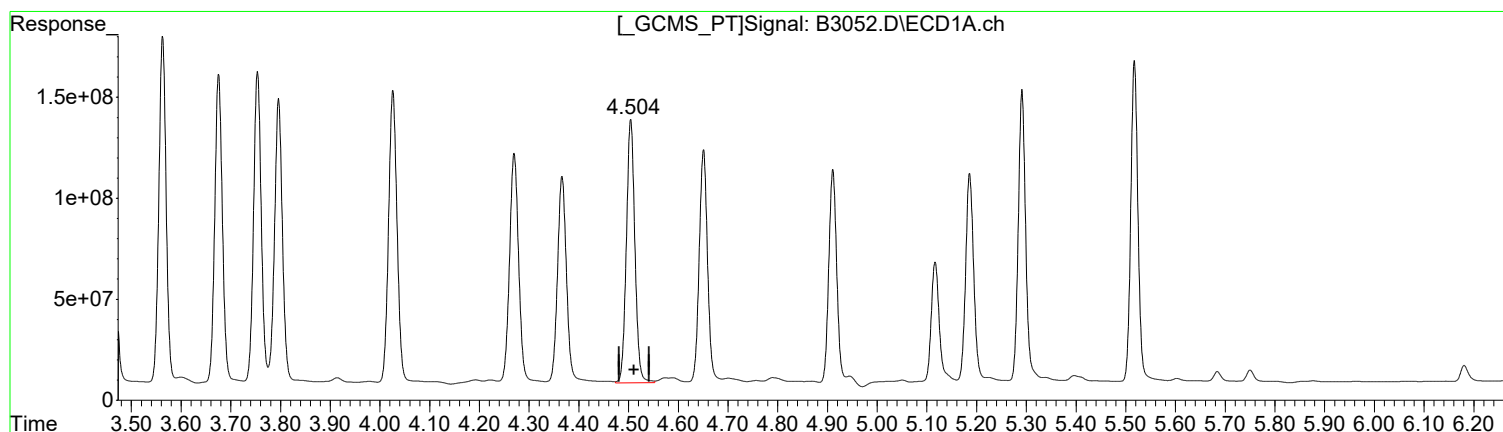
(10) gamma-Chlord #2 (tc)
4.205min 10.063 ug/l
response 552058541

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) beta-Endosul (tc)
4.504min 9.847 ug/l
response 1549253526

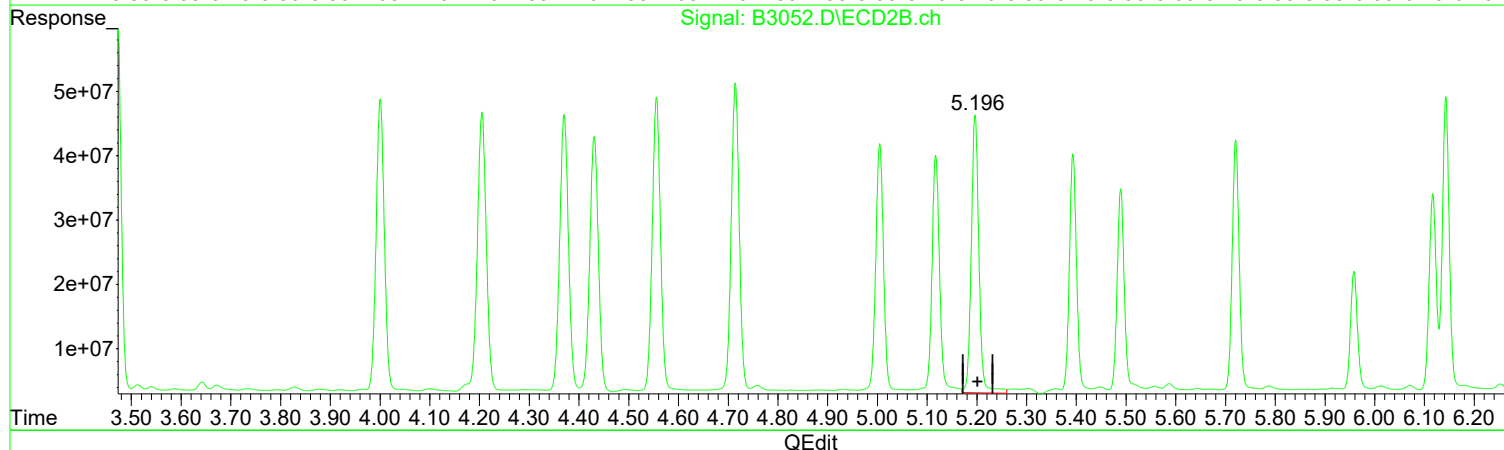
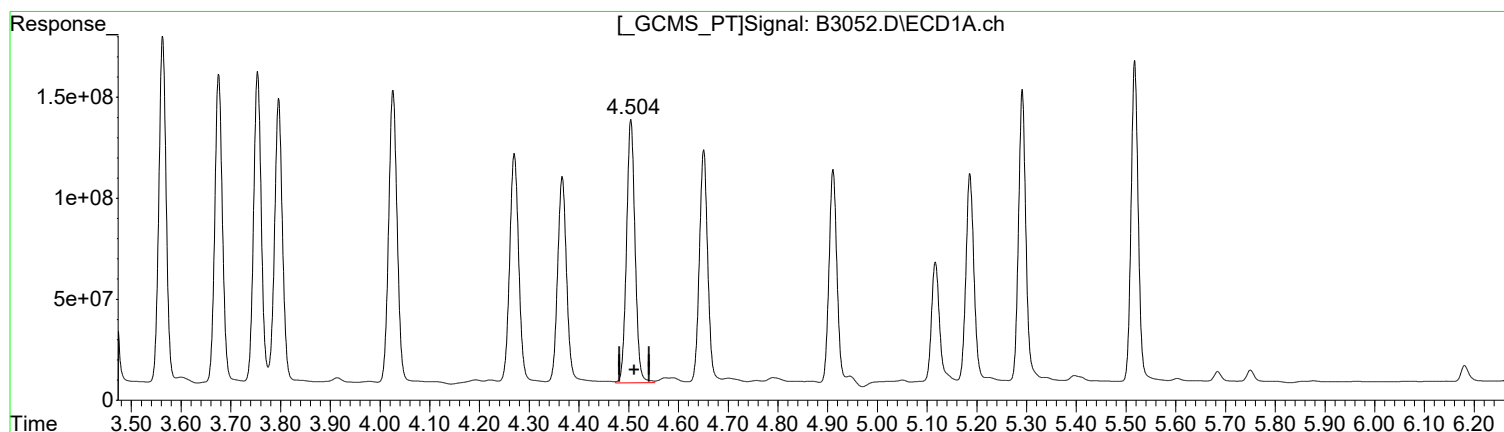
(15) beta-Endosul #2 (tc)
5.196min 9.931 ug/l m
response 432571044

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) beta-Endosul (tc)
4.504min 9.847 ug/l
response 1549253526

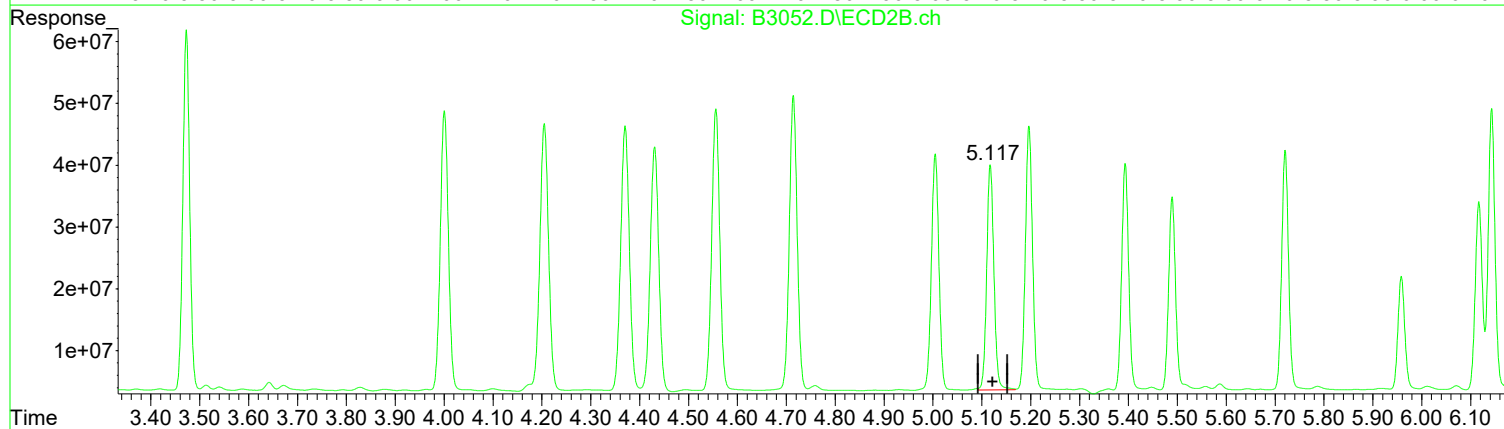
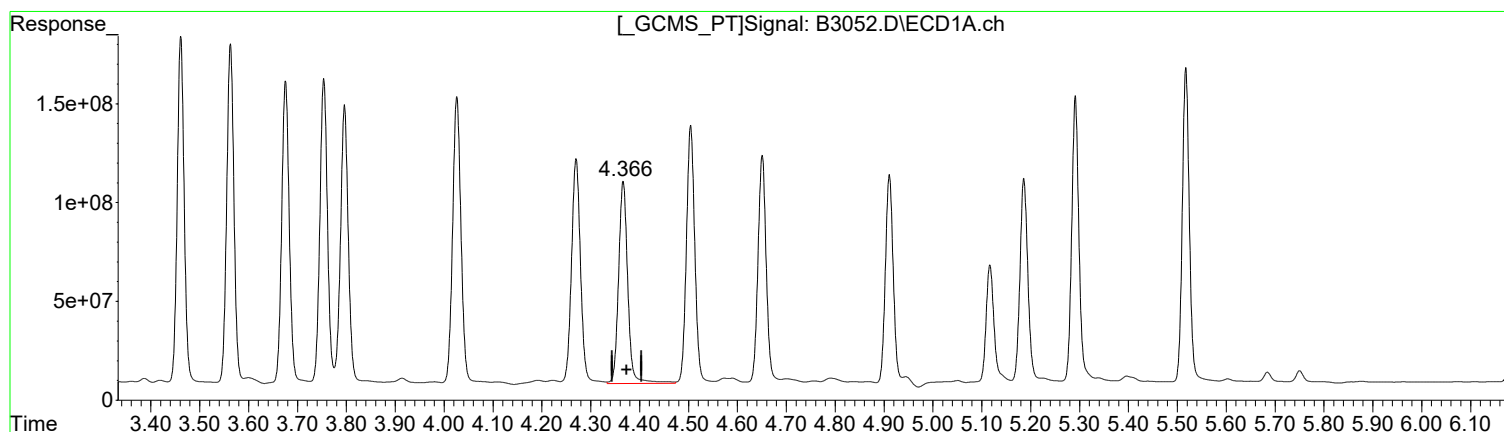
(15) beta-Endosul #2 (tc)
5.197min 10.606 ug/l
response 461992325

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(16) 4,4'-DDD (tc)
4.366min 9.690 ug/l
response 1333806191

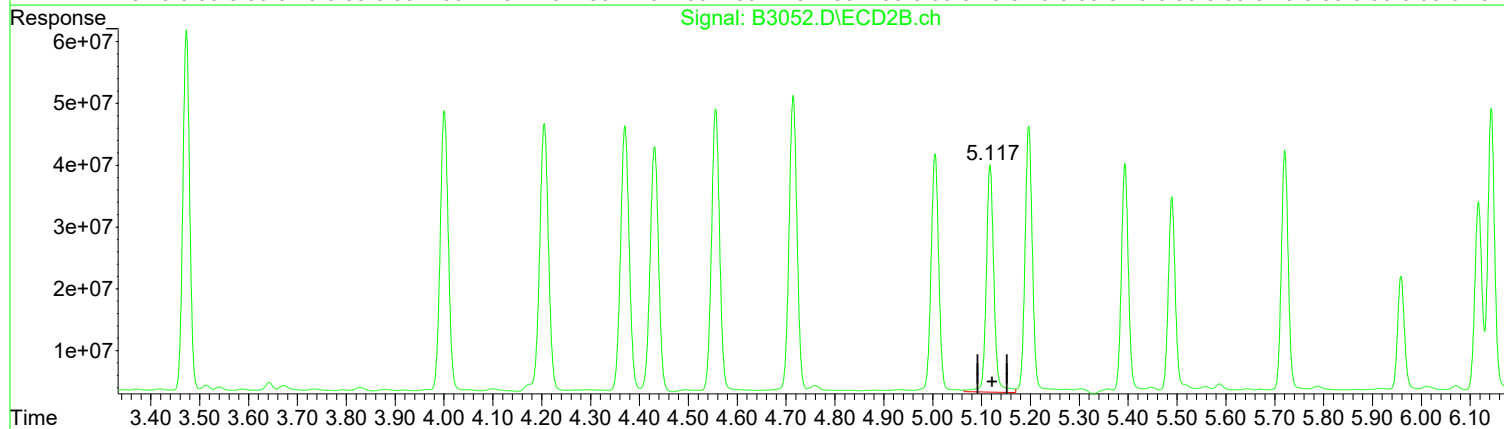
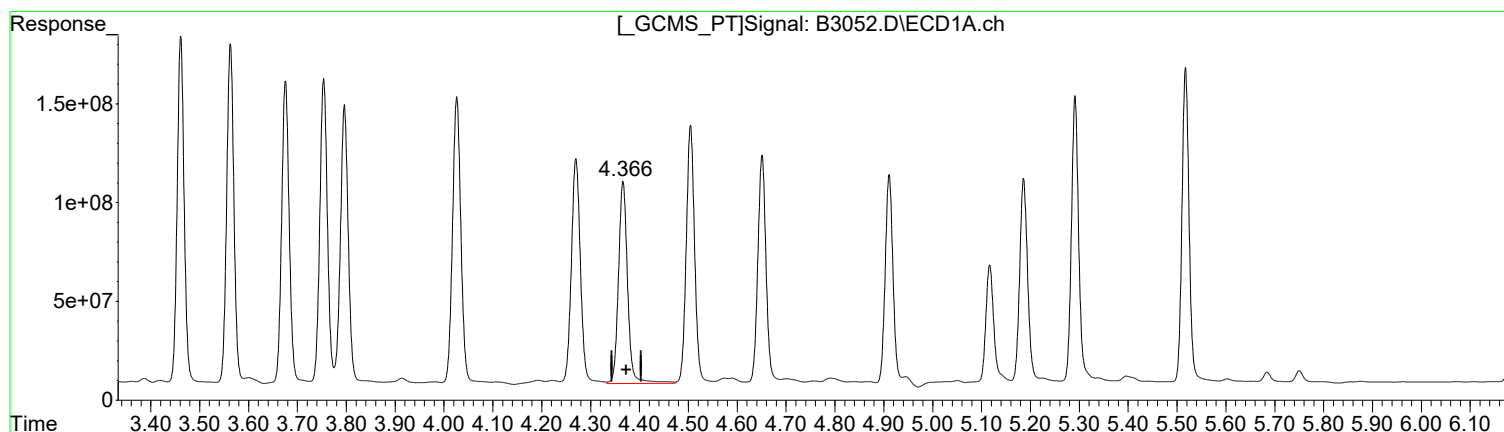
(16) 4,4'-DDD #2 (tc)
5.117min 9.631 ug/l m
response 374438750

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(16) 4,4'-DDD (tc)
4.366min 9.690 ug/l
response 1333806191

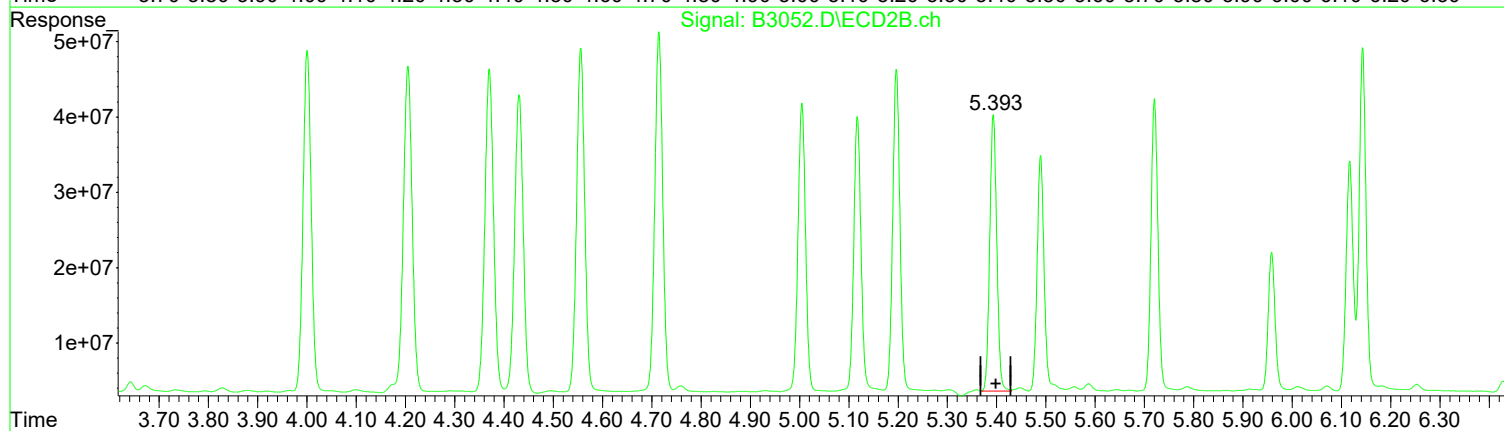
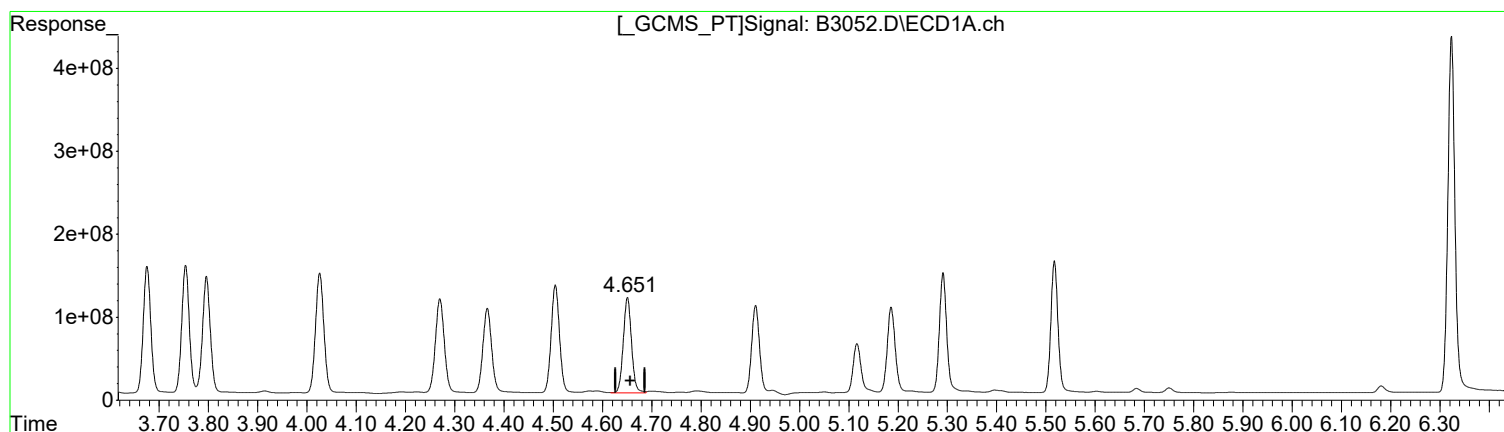
(16) 4,4'-DDD #2 (tc)
5.117min 10.270 ug/l
response 399293307

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(17) 4,4'-DDT (tcm)
4.651min 9.851 ug/l
response 1338549870

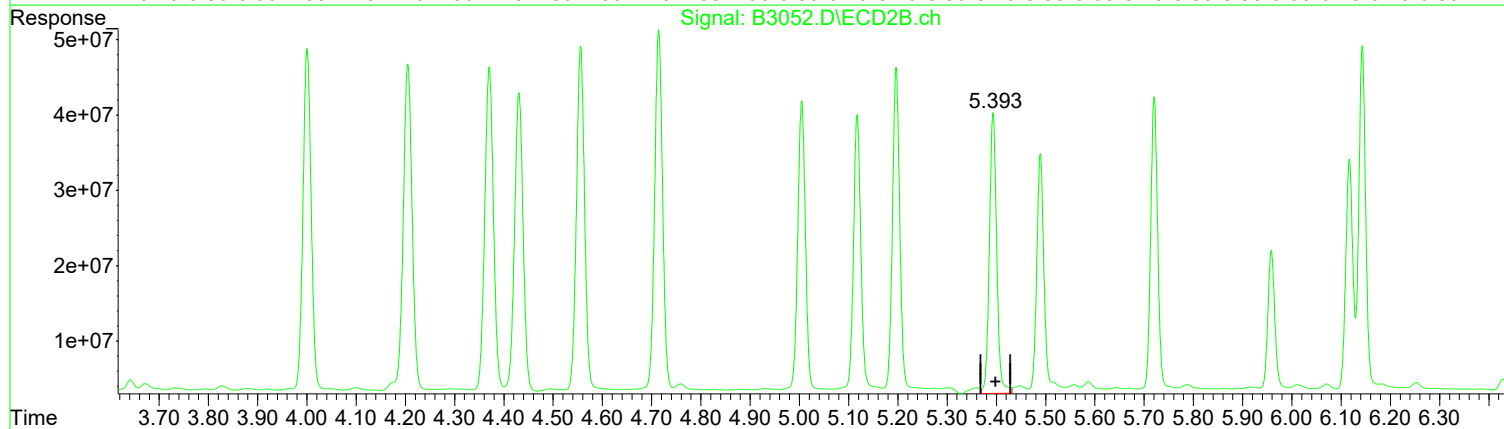
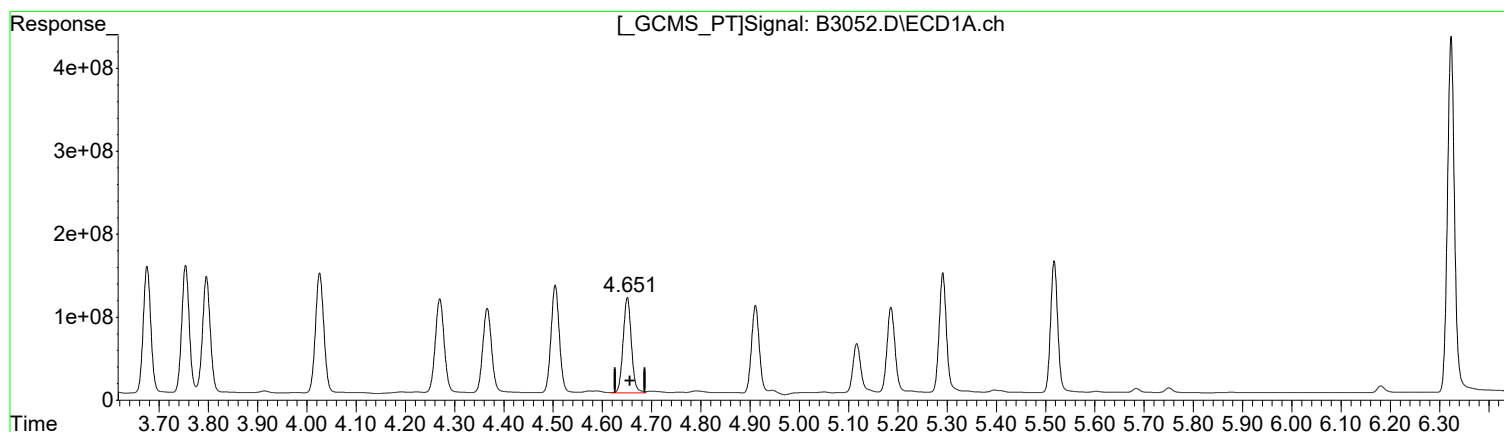
(17) 4,4'-DDT #2 (tcm)
5.393min 10.166 ug/l m
response 362914694

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(17) 4,4'-DDT (tcm)
4.651min 9.851 ug/l
response 1338549870

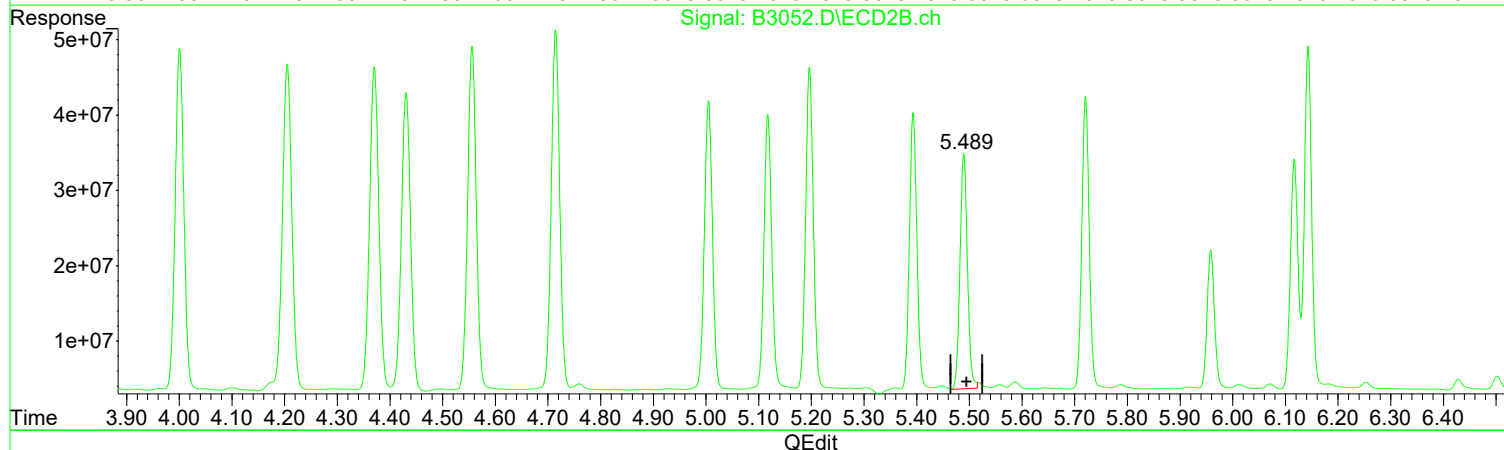
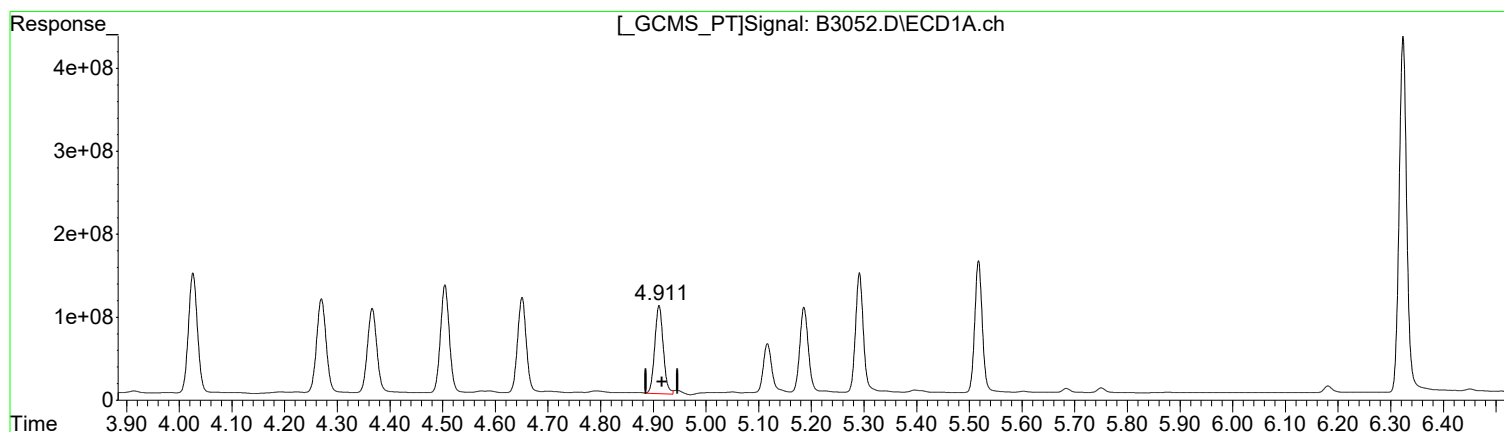
(17) 4,4'-DDT #2 (tcm)
5.393min 10.772 ug/l
response 384537769

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.911min 11.500 ug/l
response 1186833016

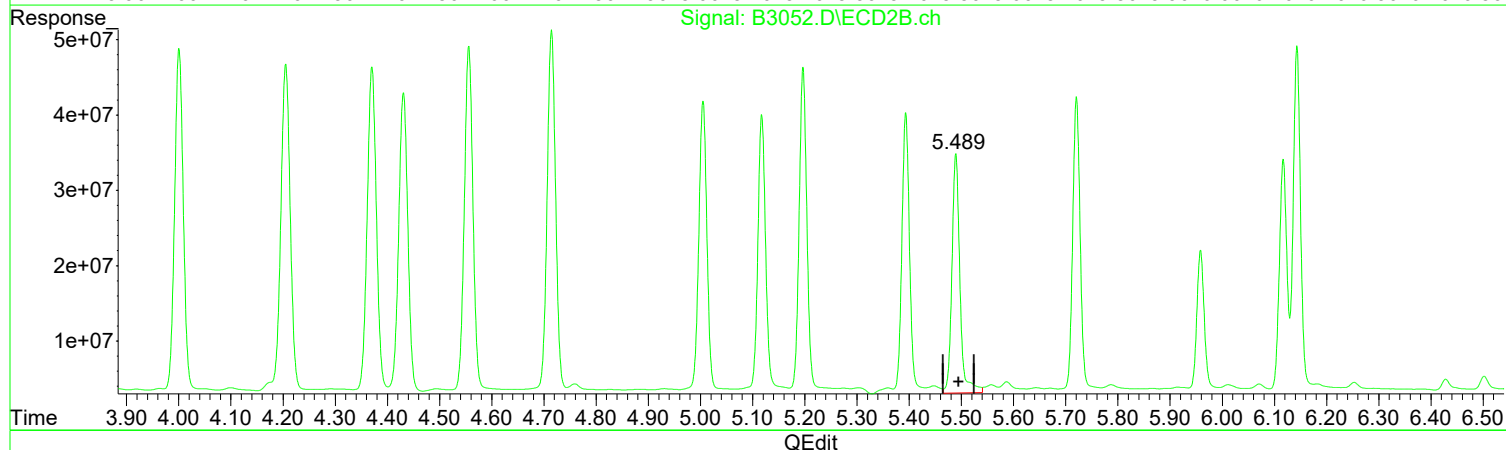
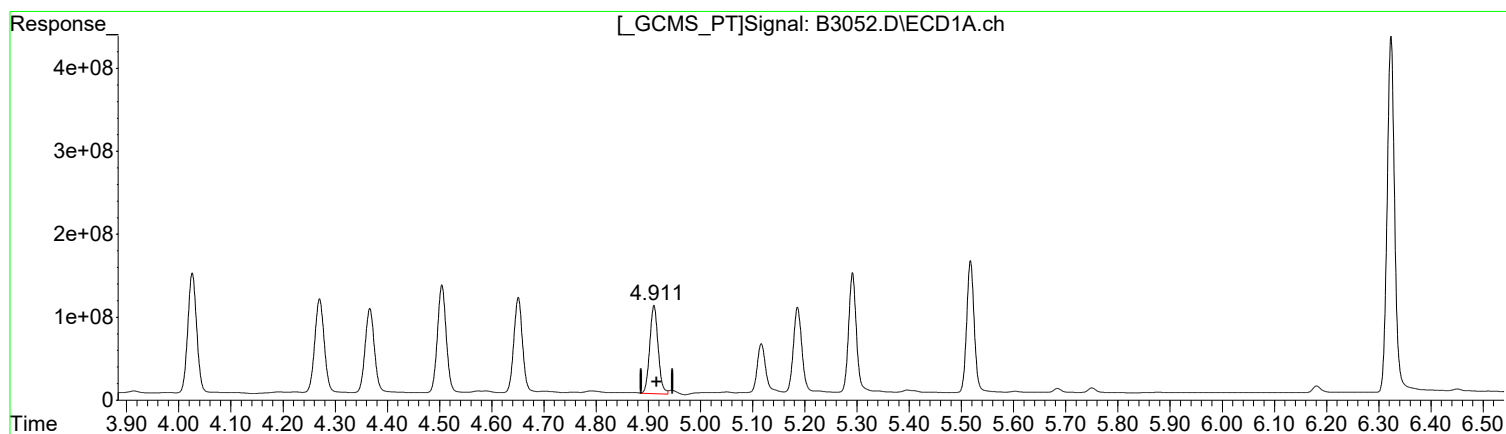
(18) Endrin Aldeh #2 (tc)
5.489min 11.388 ug/l m
response 305244903

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.911min 11.500 ug/l
response 1186833016

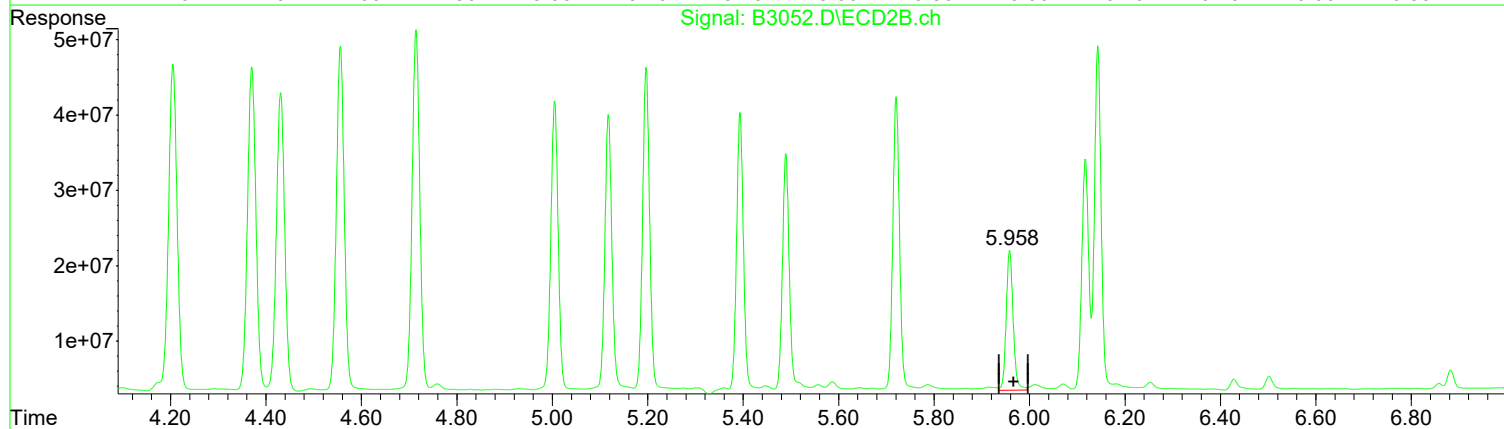
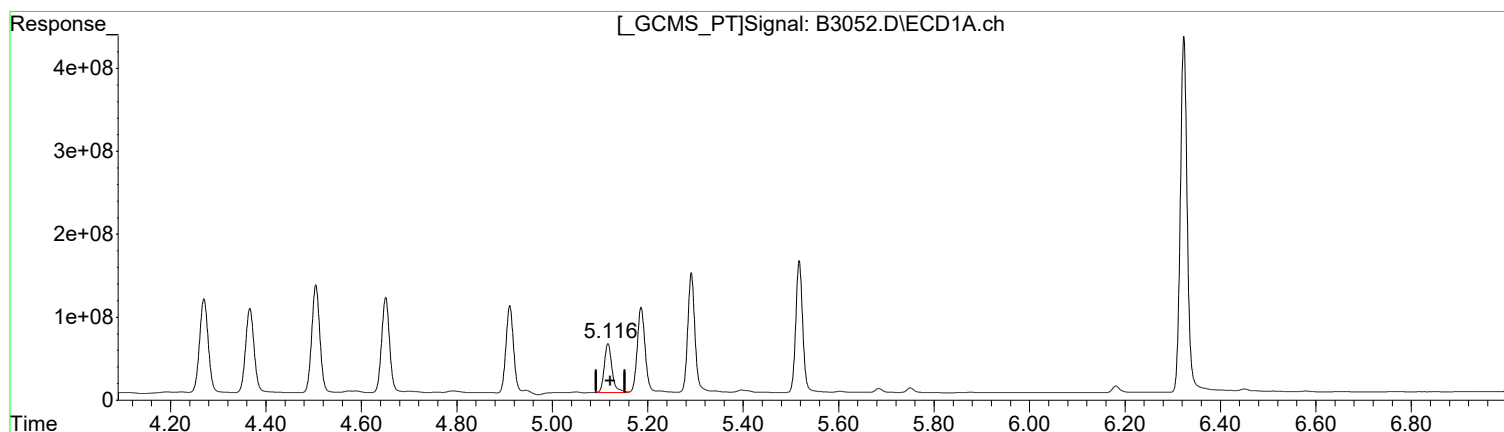
(18) Endrin Aldeh #2 (tc)
5.489min 12.558 ug/l
response 336590645

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Methoxychlor (tc)
5.116min 9.795 ug/l m
response 665734520

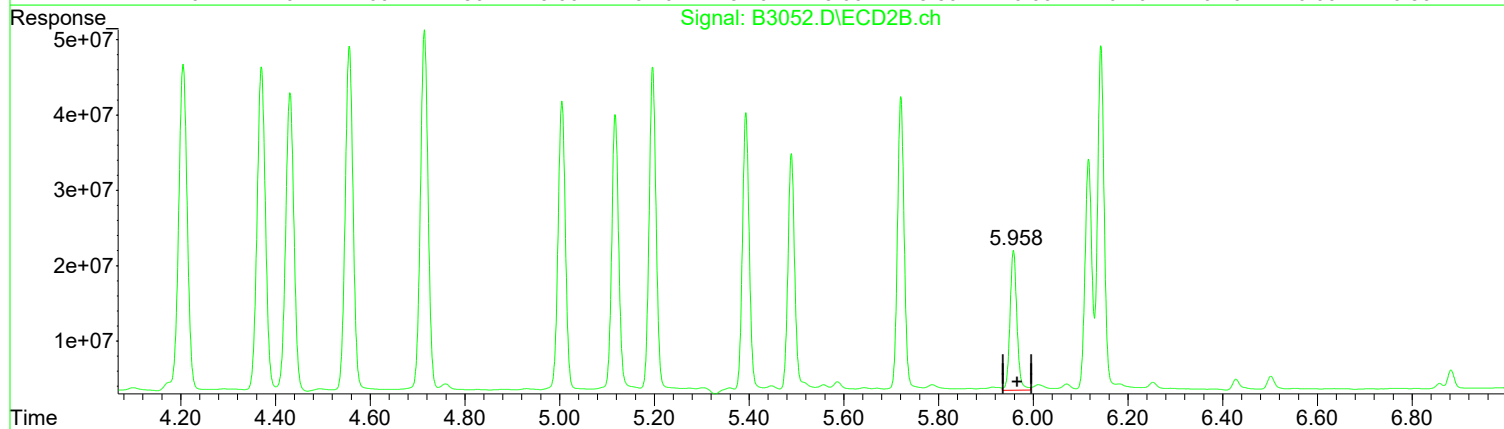
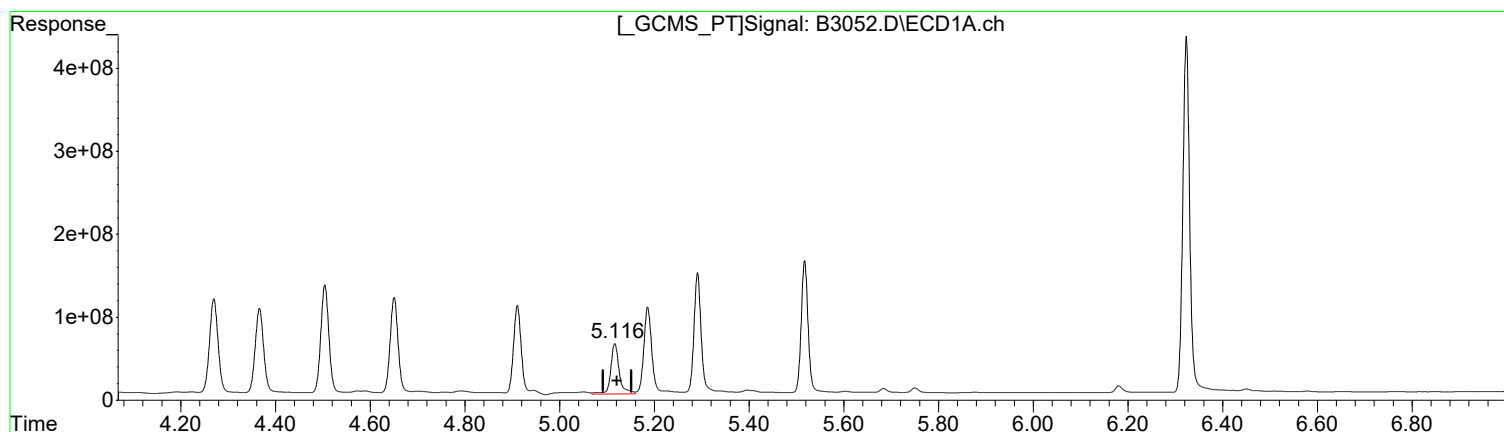
(20) Methoxychlor #2 (tc)
5.958min 10.897 ug/l
response 187236711

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Methoxychlor (tc)
5.117min 11.210 ug/l
response 761943229

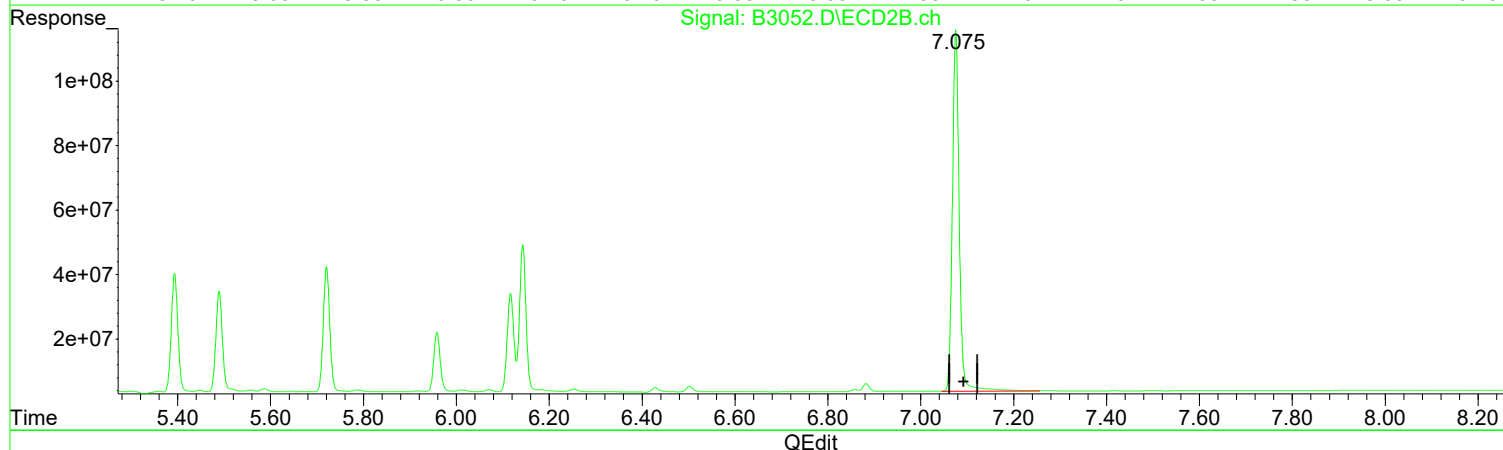
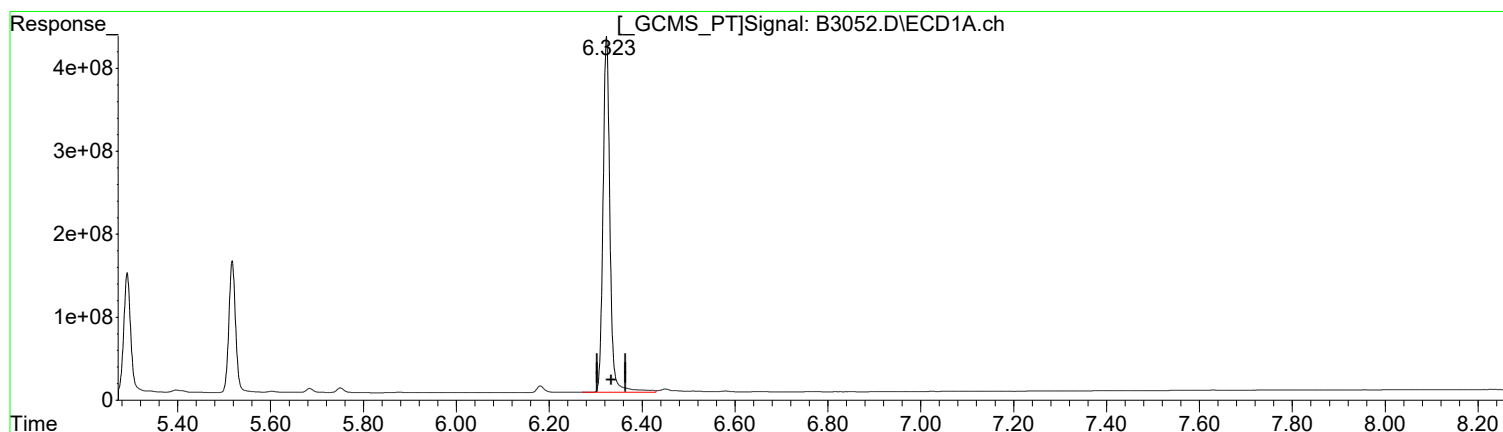
(20) Methoxychlor #2 (tc)
5.958min 10.897 ug/l
response 187236711

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)
6.323min 51.573 ug/l
response 4449749283

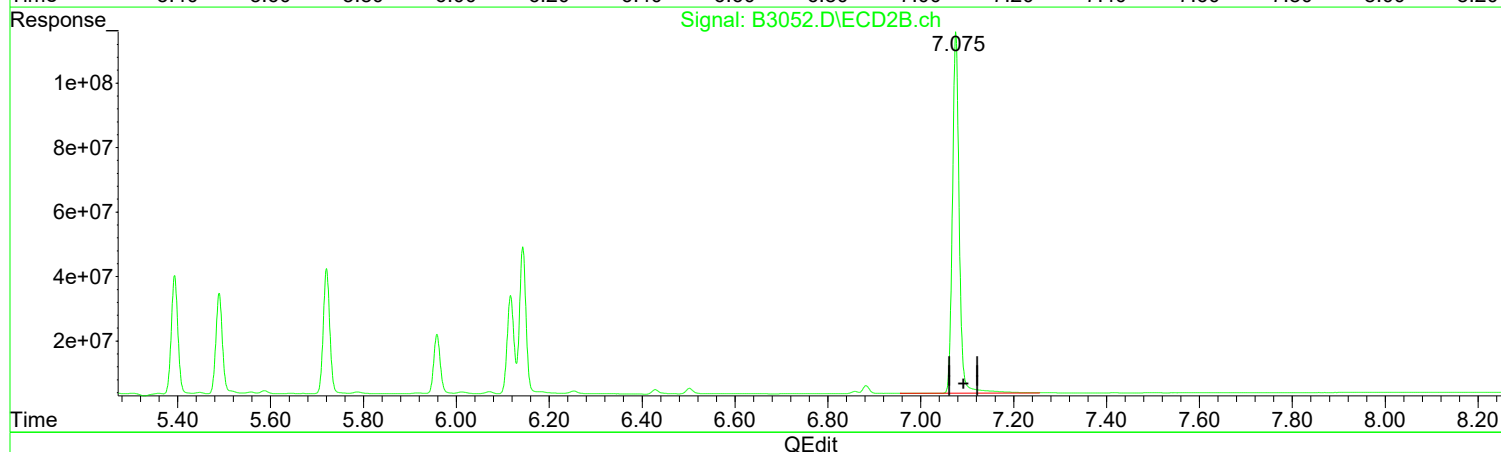
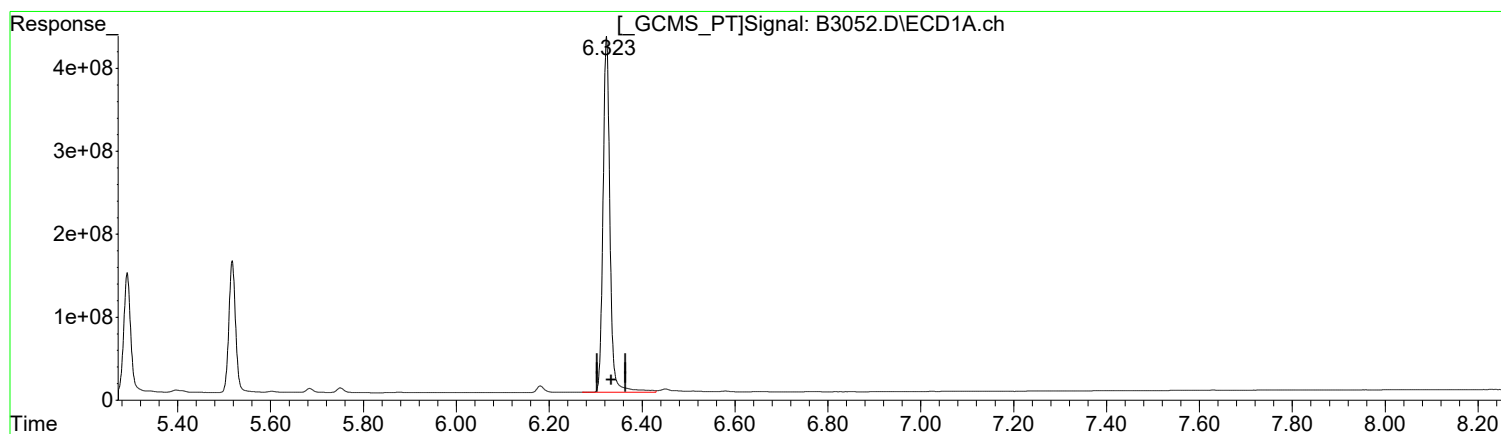
(23) SURR2,Decachlorobiphenyl #2 (S)
7.075min 49.296 ug/l m
response 1150082022

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)

6.323min 51.573 ug/l

response 4449749283

Manual Integration:

Before

09/08/23

(23) SURR2,Decachlorobiphenyl #2 (S)

7.076min 49.525 ug/l

response 1155441705

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3052.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 09:11 pm
 Operator : AFelser
 Sample : RQ2311102-02
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:43 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

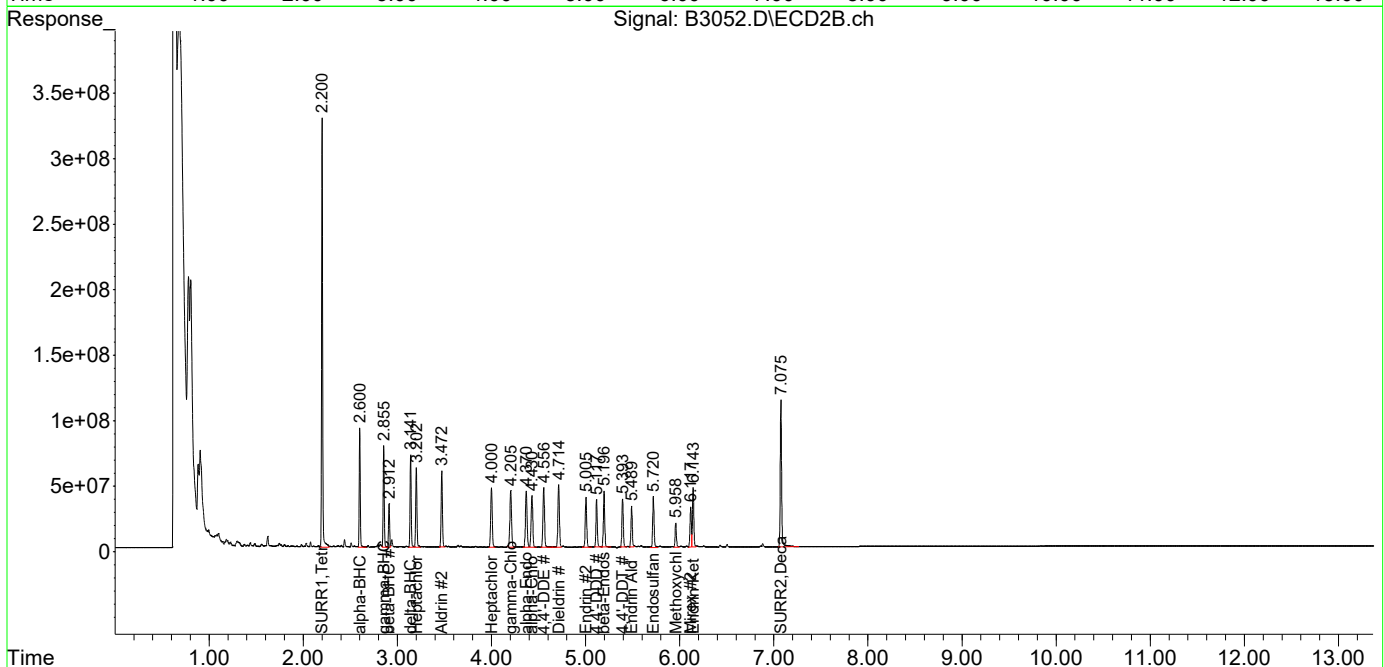
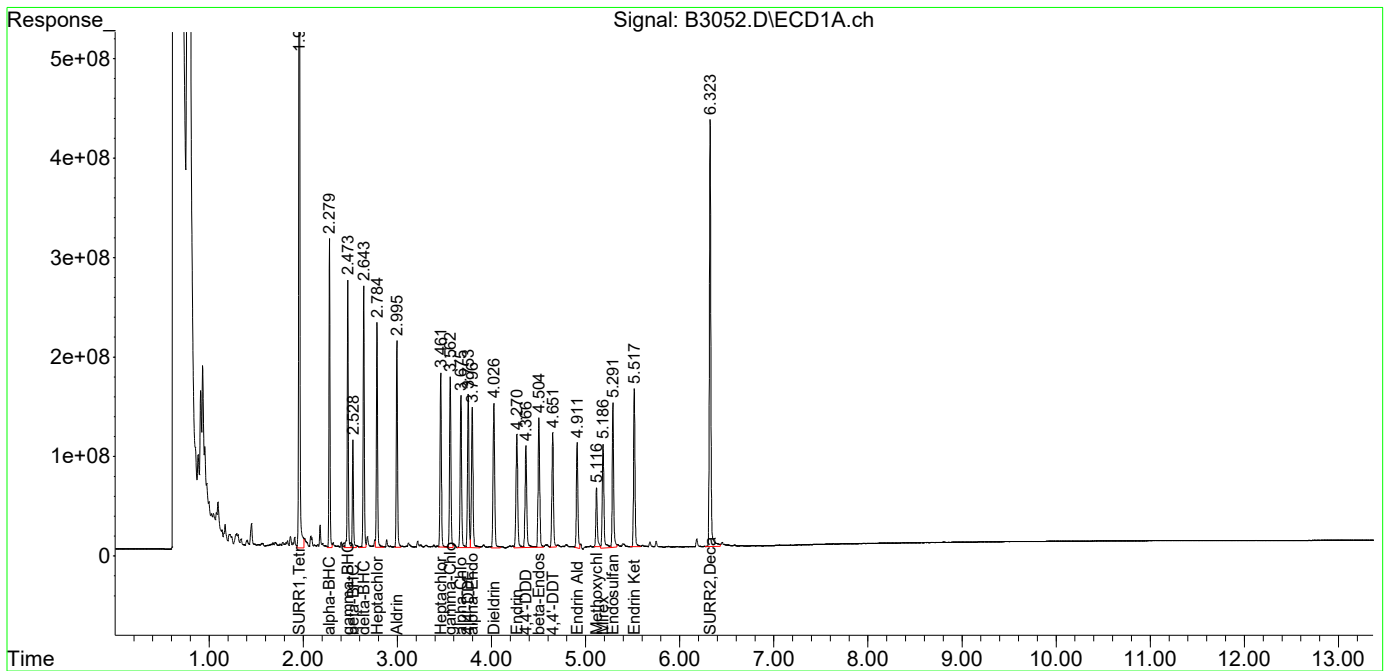
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	1.959	2.201	8043.1E6	2459.7E6	47.730	48.152
Spiked Amount	100.000	Range	30 - 150	Recovery =	47.73%	48.15%
23) S SURR2,Dec...	6.323	7.075f	4449.7E6	1150.1E6	51.573	49.296m
Spiked Amount	100.000	Range	30 - 150	Recovery =	51.57%	49.30%
Target Compounds						
2) tc alpha-BHC	2.279	2.601	2240.2E6	684.3E6	8.794	9.284
3) tcm gamma-BHC (L	2.474	2.856	2074.5E6	610.7E6	8.948	9.371
4) tcm Heptachlor	2.784	3.202	1916.4E6	540.4E6	9.384	9.479
5) tcm Aldrin	2.995	3.473	1832.8E6	568.3E6	8.510	9.301
6) tc beta-BHC	2.528	2.912	868.2E6	270.0E6	9.184	9.660
7) tc delta-BHC	2.644	3.142	2169.0E6	597.7E6	9.757	9.336
8) tc Heptachlor E	3.461	4.001	1732.9E6	524.1E6	9.565	9.780
9) tc alpha-Endosu	3.796	4.370	1603.5E6	531.5E6	9.322	9.943
10) tc gamma-Chlord	3.563	4.205	1760.4E6	541.7E6	9.355	9.875m
11) tc alpha-Chlord	3.676	4.431	1661.7E6	482.8E6	9.233	9.672
12) tc 4,4'-DDE	3.754	4.556	1663.2E6	533.1E6	9.512	10.176
13) tcm Dieldrin	4.026	4.715	1770.8E6	541.7E6	9.886	10.193
14) tcm Endrin	4.270	5.005	1483.5E6	421.6E6	9.484	9.869
15) tc beta-Endosul	4.504	5.196	1549.3E6	432.6E6	9.847	9.931m
16) tc 4,4'-DDD	4.366	5.117	1333.8E6	374.4E6	9.690	9.631m
17) tcm 4,4'-DDT	4.651	5.393	1338.5E6	362.9E6	9.851	10.166m
18) tc Endrin Aldeh	4.911	5.489	1186.8E6	305.2E6	11.500	11.388m
19) tc Endosulfan S	5.291	5.721	1531.8E6	398.6E6	10.301	10.792
20) tc Methoxychlor	5.116	5.958	665.7E6	187.2E6	9.795m	10.897
21) tc Endrin Keton	5.518	6.143	1603.3E6	444.7E6	10.093	10.677
22) tc Mirex	5.186	6.117	1259.8E6	302.3E6	9.586	9.636
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3052.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:11 pm
Operator : AFelser
Sample : RQ2311102-02
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:43 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

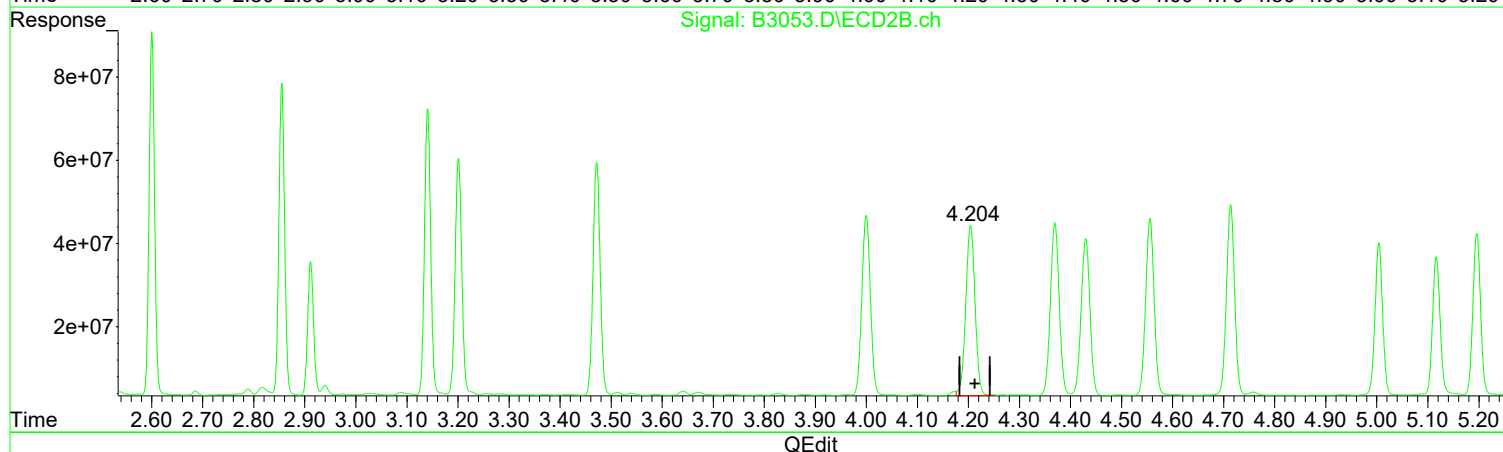
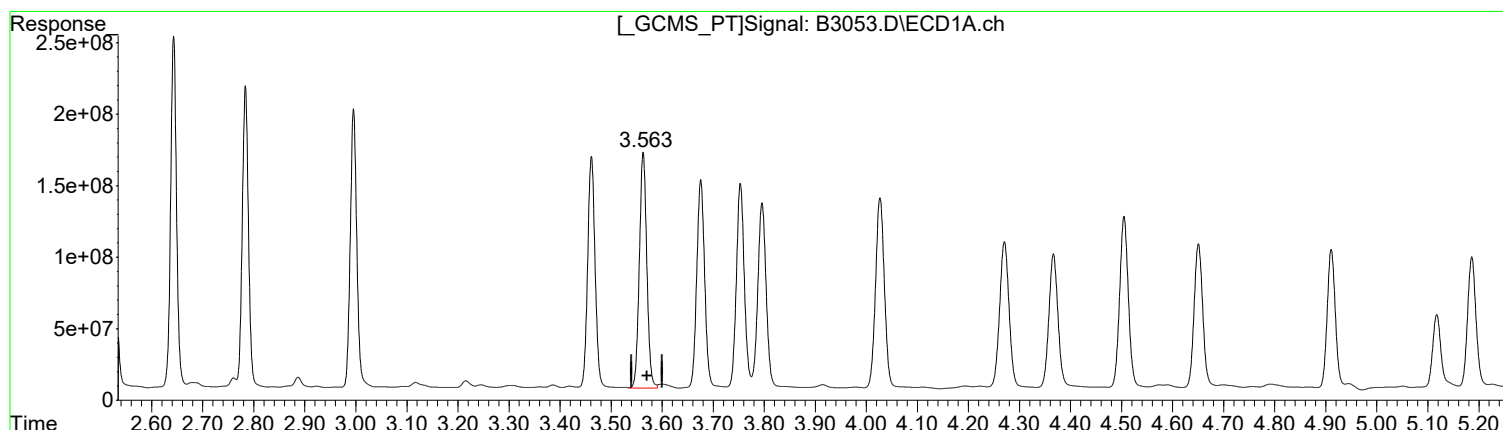
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(10) gamma-Chlord (tc)
3.563min 8.867 ug/l
response 1668583101

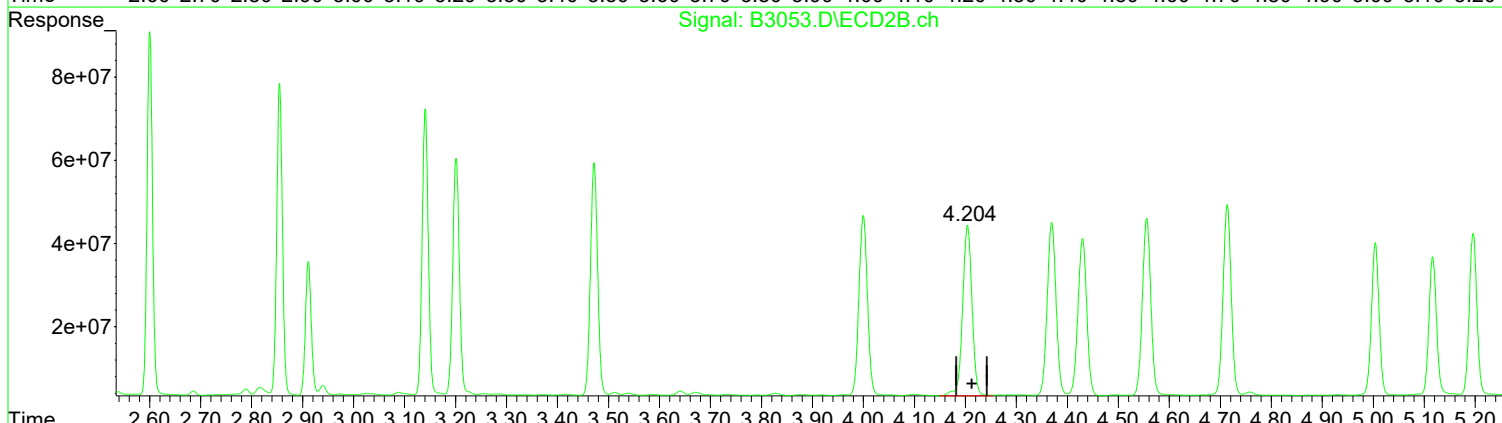
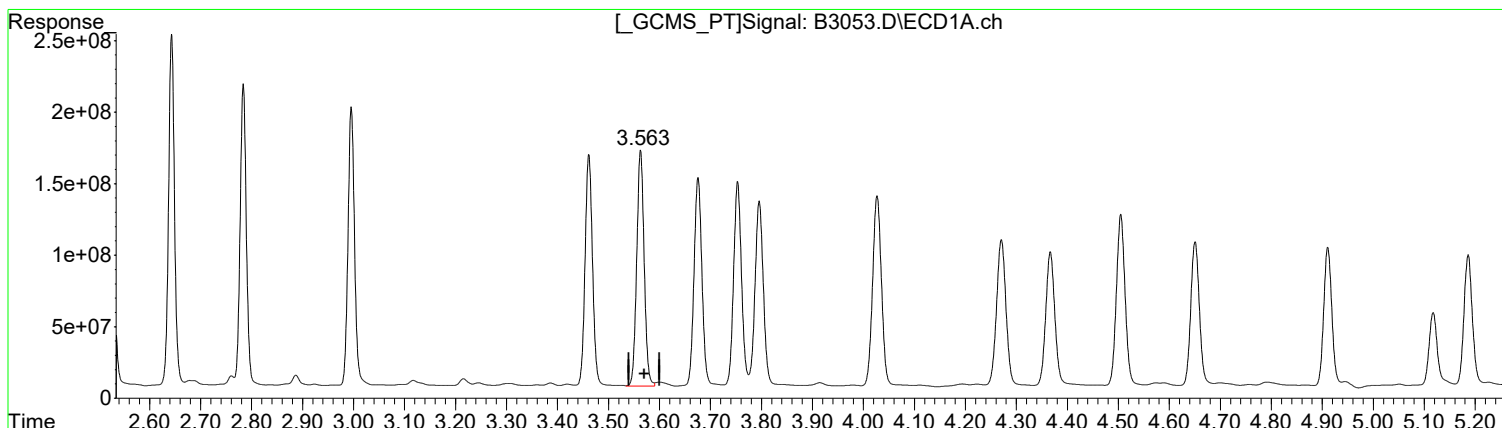
(10) gamma-Chlord #2 (tc)
4.204min 9.401 ug/l m
response 515701003

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(10) gamma-Chlord (tc)
3.563min 8.867 ug/l
response 1668583101

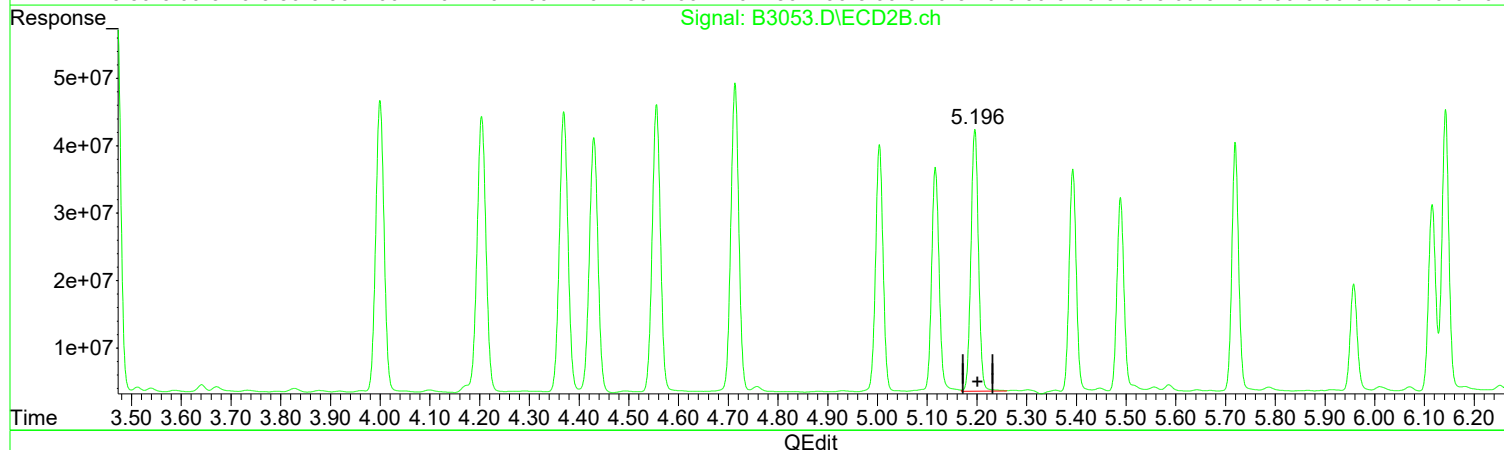
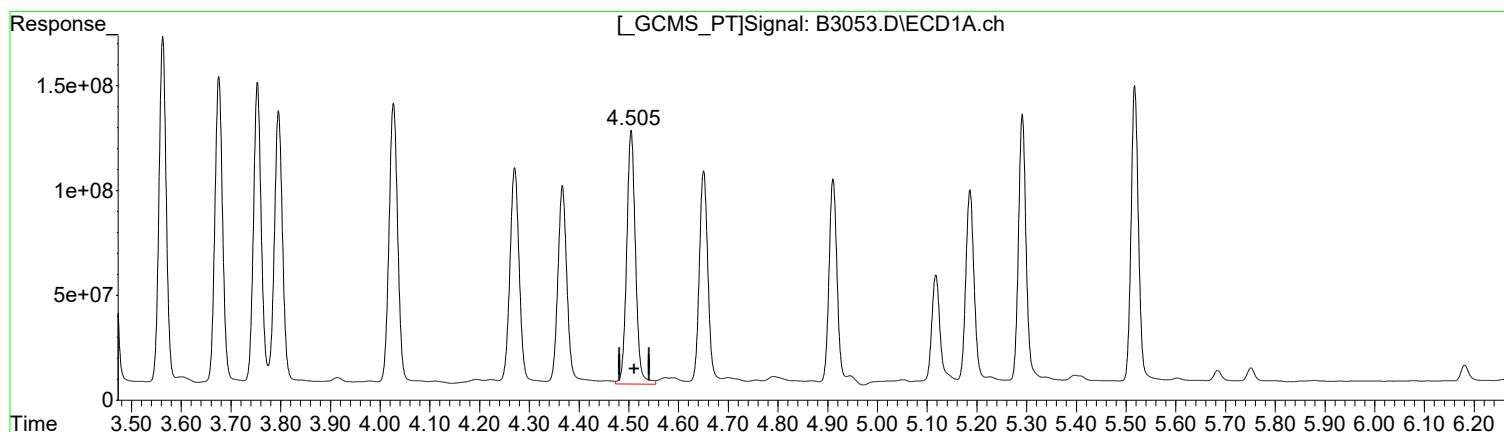
(10) gamma-Chlord #2 (tc)
4.204min 9.618 ug/l
response 527635328

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) beta-Endosul (tc)
4.505min 9.448 ug/l
response 1486553094

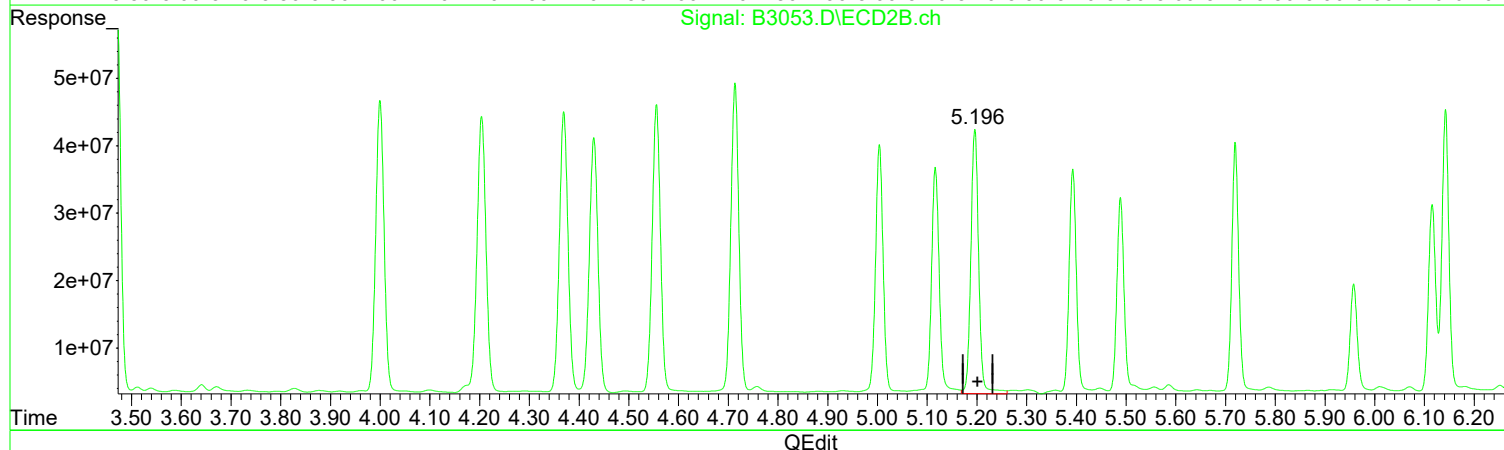
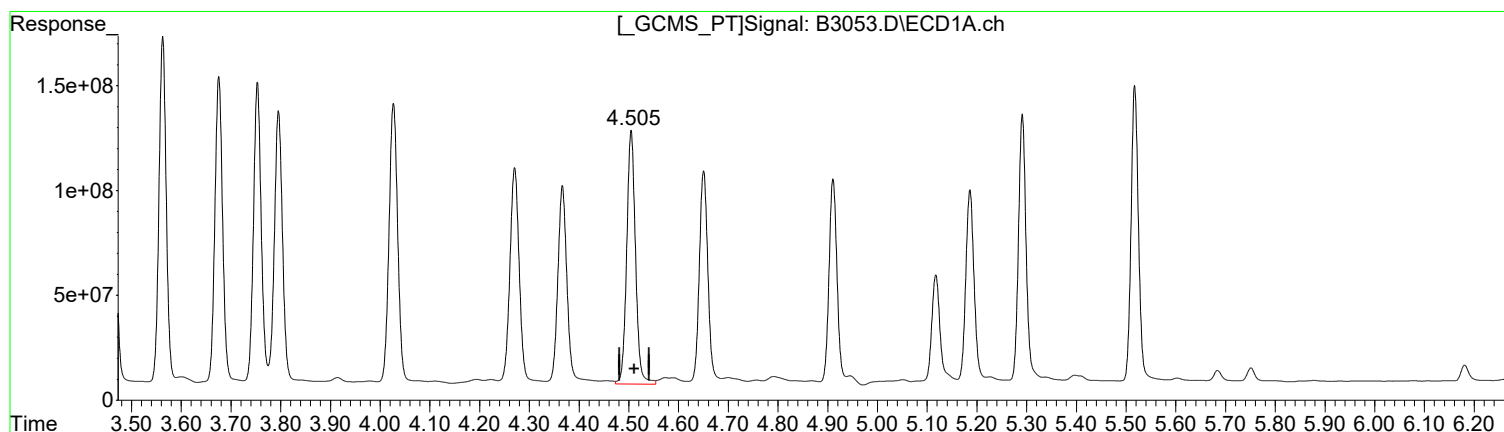
(15) beta-Endosul #2 (tc)
5.196min 9.433 ug/l m
response 410869987

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) beta-Endosul (tc)
4.505min 9.448 ug/l
response 1486553094

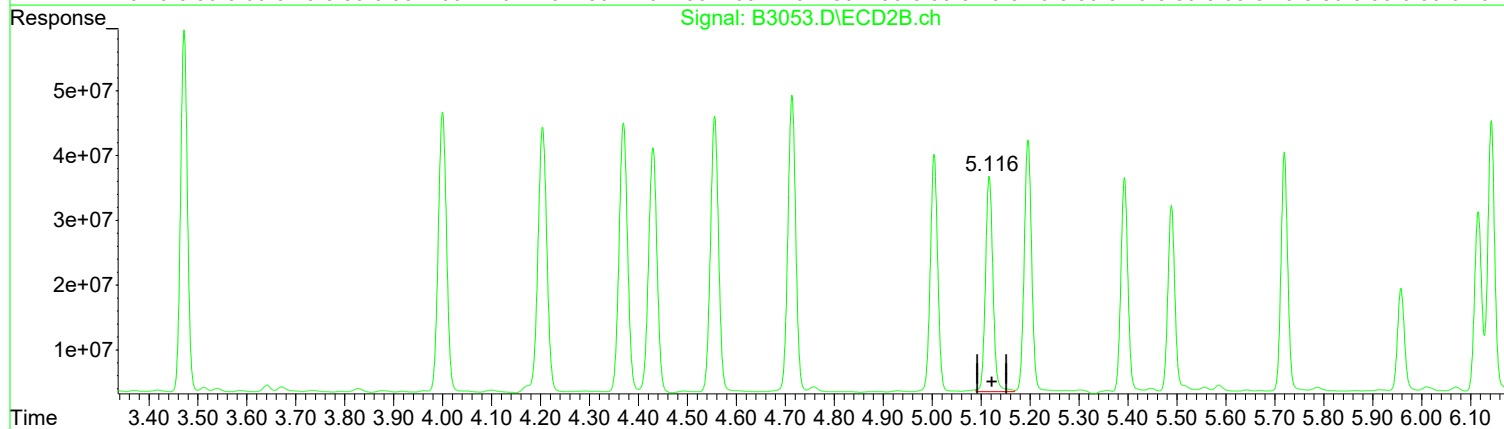
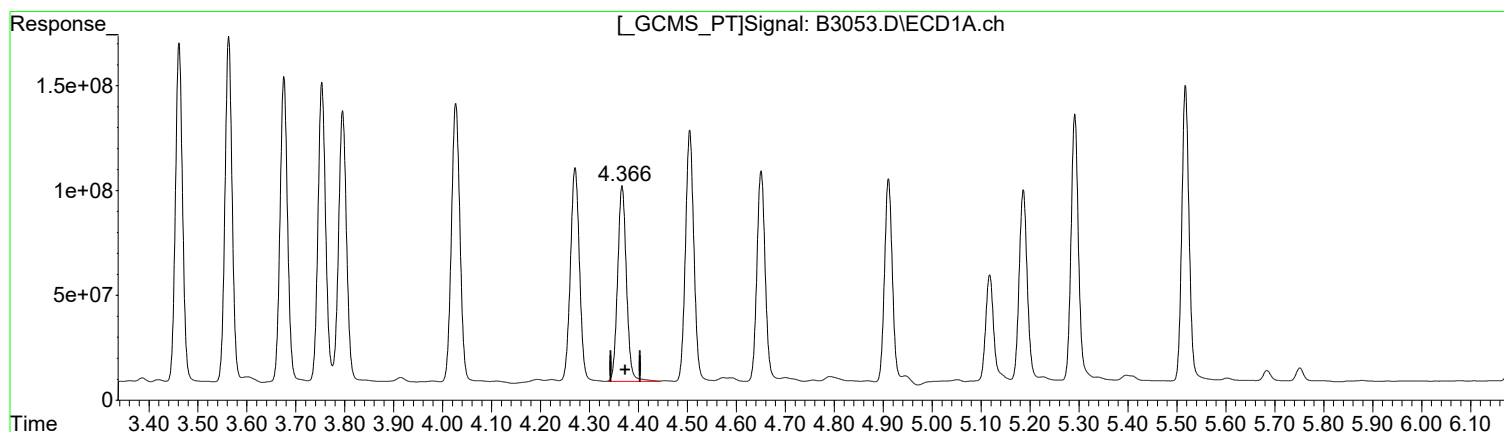
(15) beta-Endosul #2 (tc)
5.196min 9.915 ug/l
response 431857638

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(16) 4,4'-DDD (tc)
4.366min 8.509 ug/l m
response 1171217098

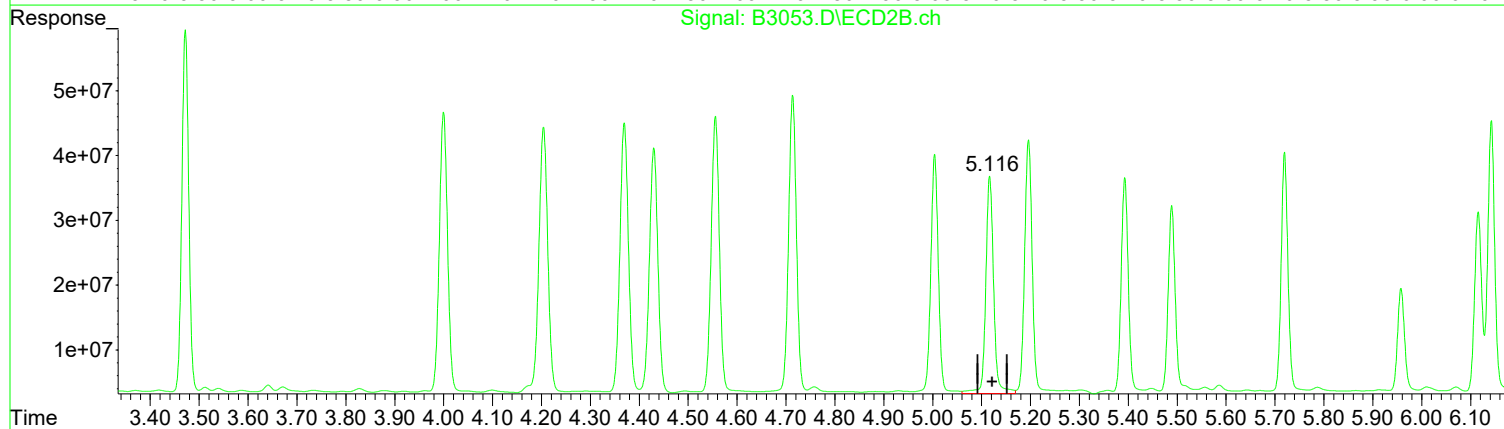
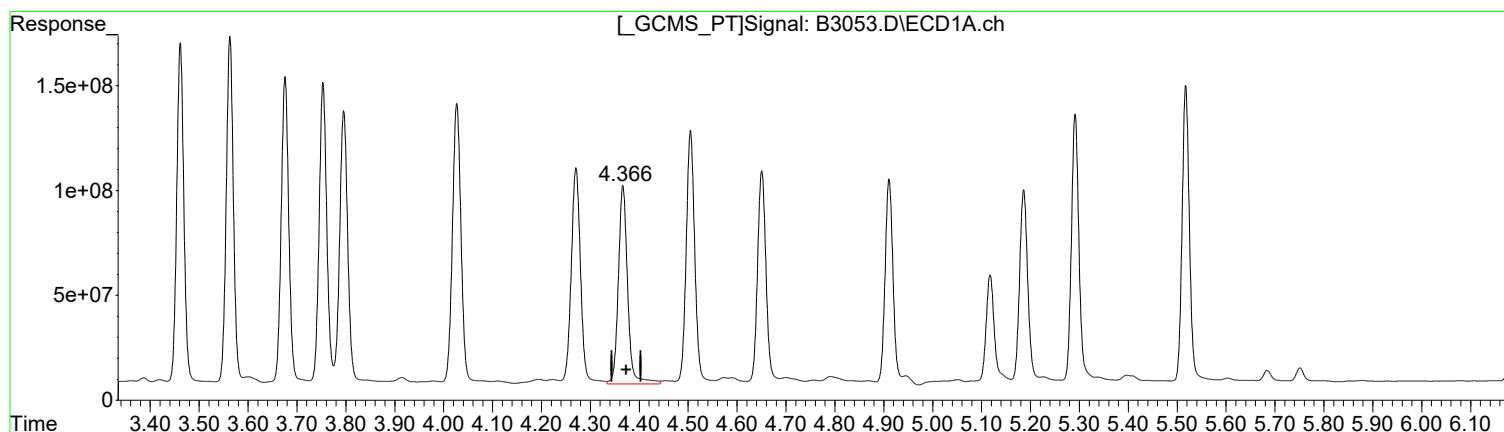
(16) 4,4'-DDD #2 (tc)
5.116min 9.030 ug/l m
response 351097126

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(16) 4,4'-DDD (tc)
4.367min 9.056 ug/l
response 1246575191

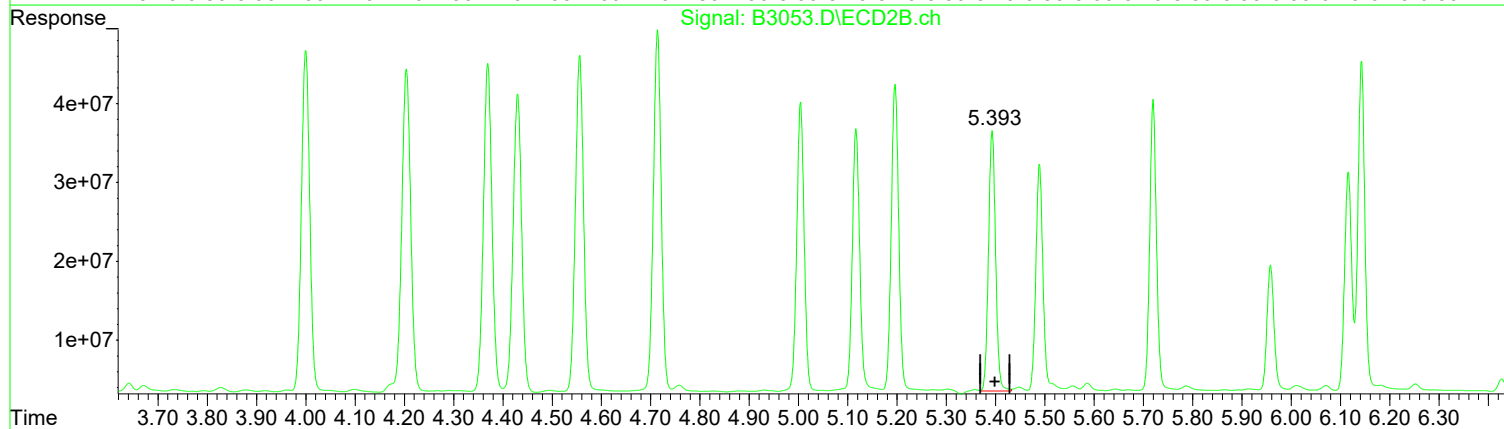
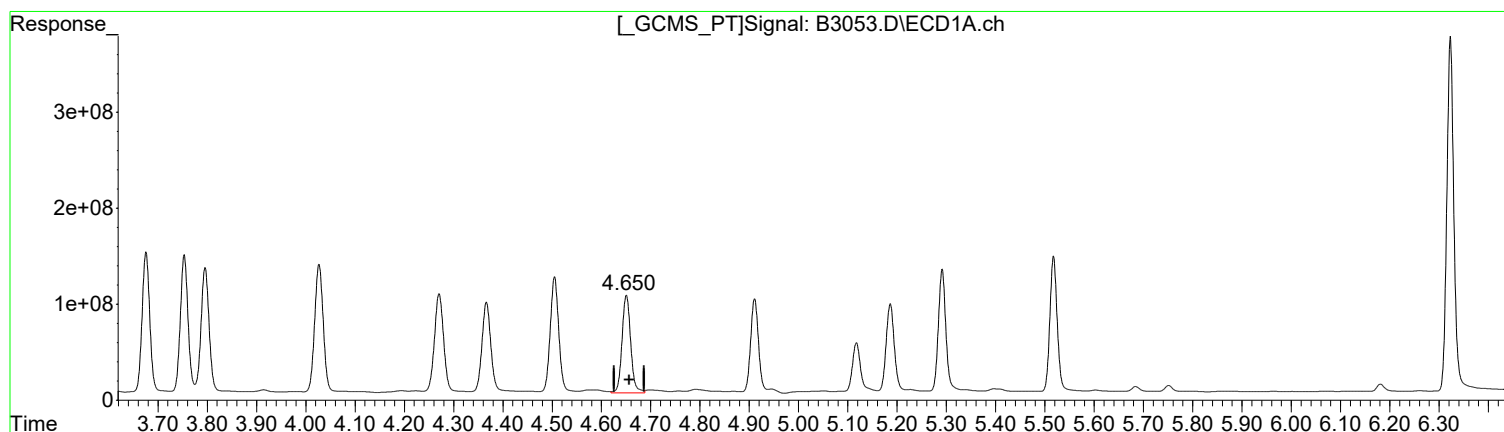
(16) 4,4'-DDD #2 (tc)
5.117min 9.657 ug/l
response 375471962

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) 4,4'-DDT (tcm)
4.651min 9.174 ug/l
response 1246545284

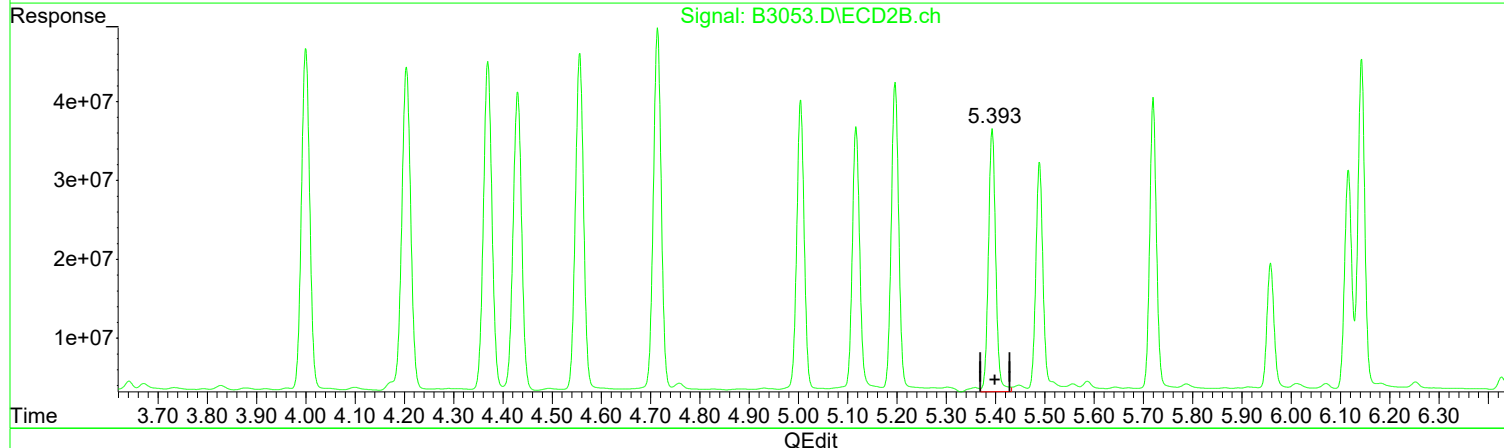
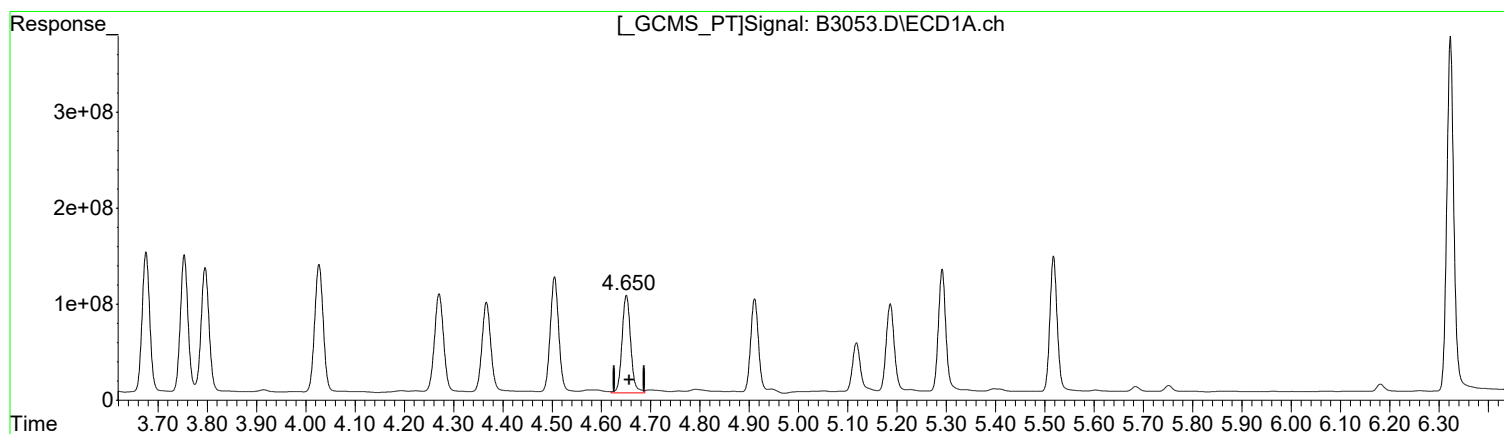
(17) 4,4'-DDT #2 (tcm)
5.393min 9.276 ug/l m
response 331119425

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) 4,4'-DDT (tcm)
4.651min 9.174 ug/l
response 1246545284

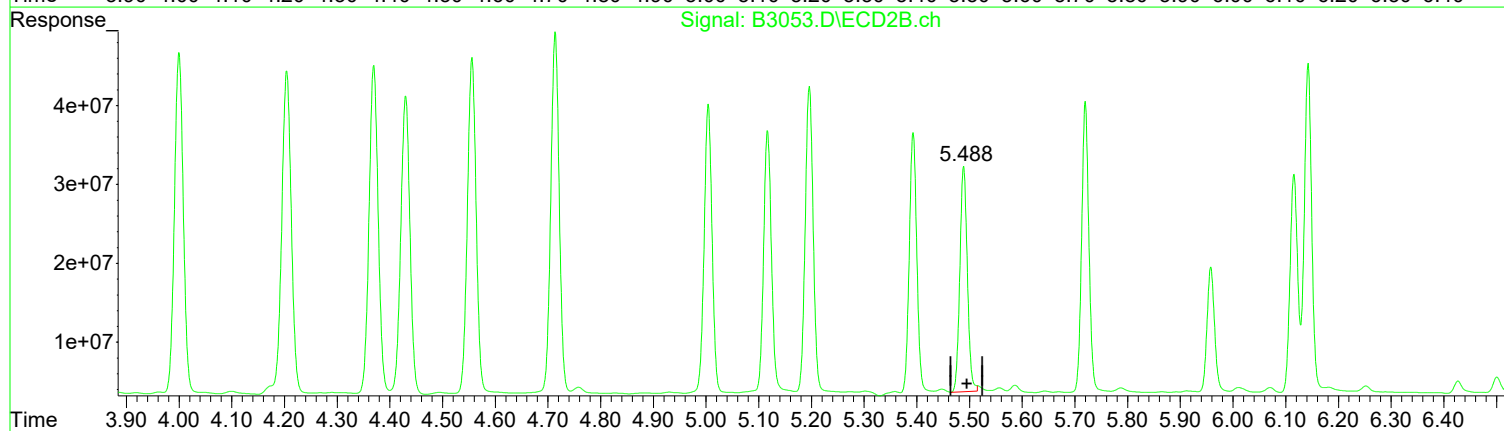
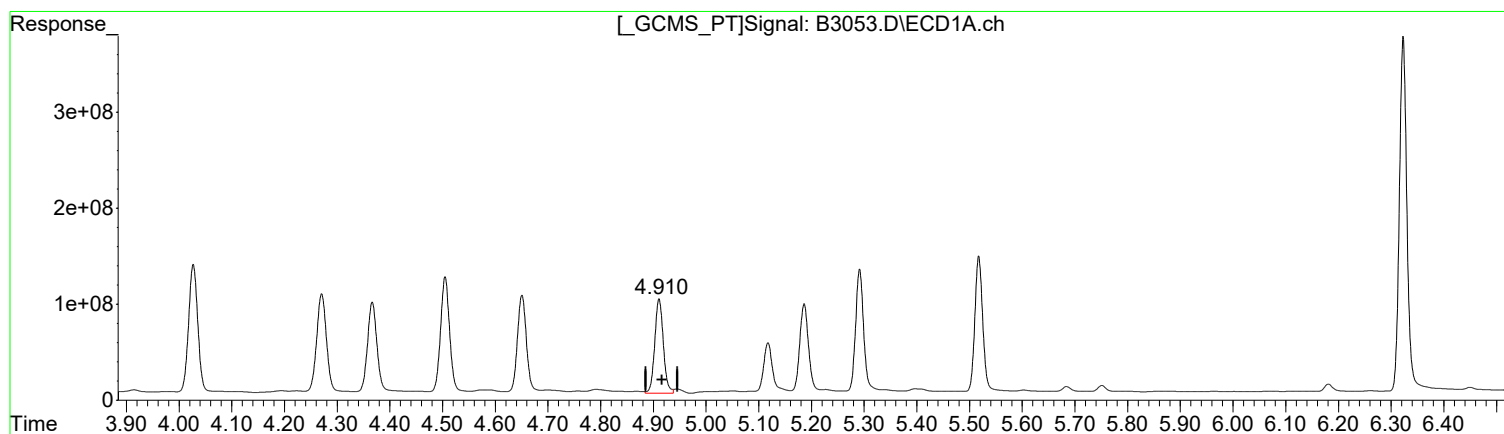
(17) 4,4'-DDT #2 (tcm)
5.393min 9.623 ug/l
response 343518964

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.911min 10.815 ug/l
response 1116186638

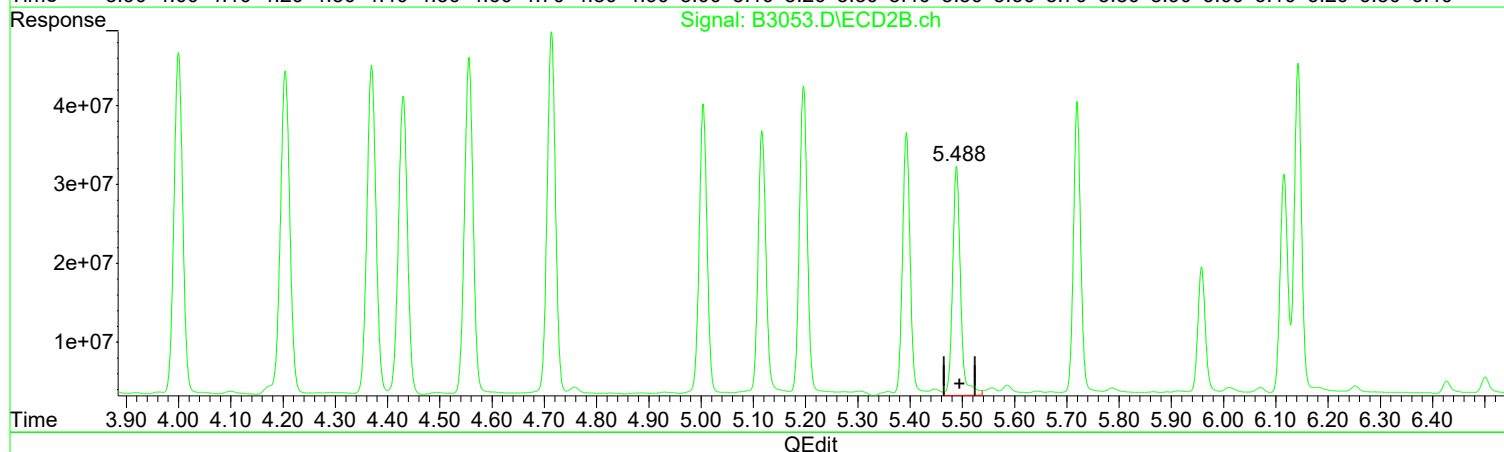
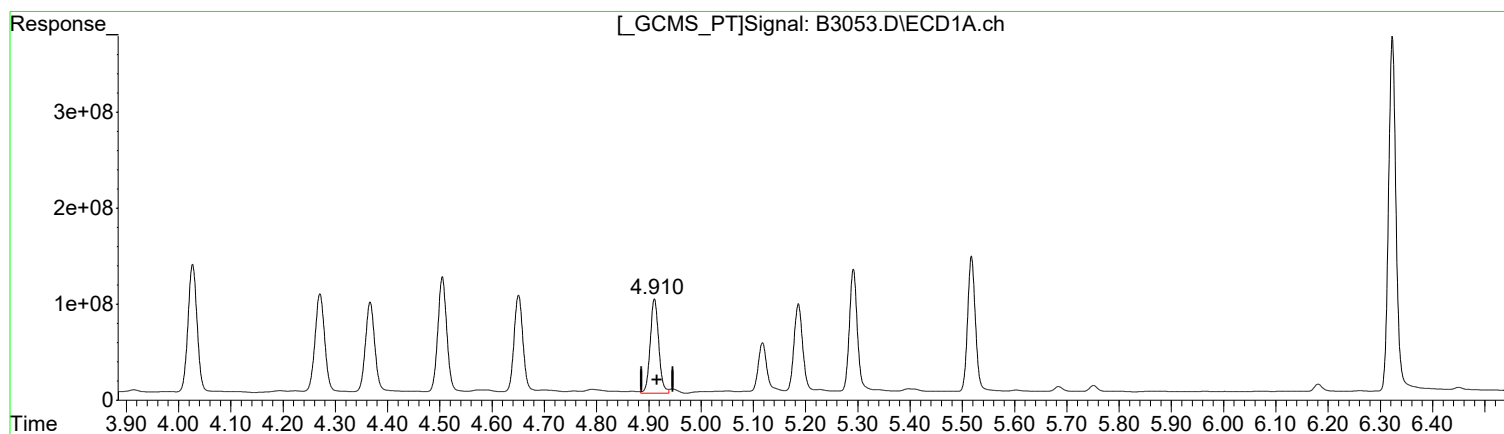
(18) Endrin Aldeh #2 (tc)
5.488min 10.539 ug/l m
response 282491904

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.911min 10.815 ug/l
response 1116186638

(18) Endrin Aldeh #2 (tc)
5.489min 11.461 ug/l
response 307196369

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3053.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 09:29 pm
 Operator : AFelser
 Sample : RQ2311102-03
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:46 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

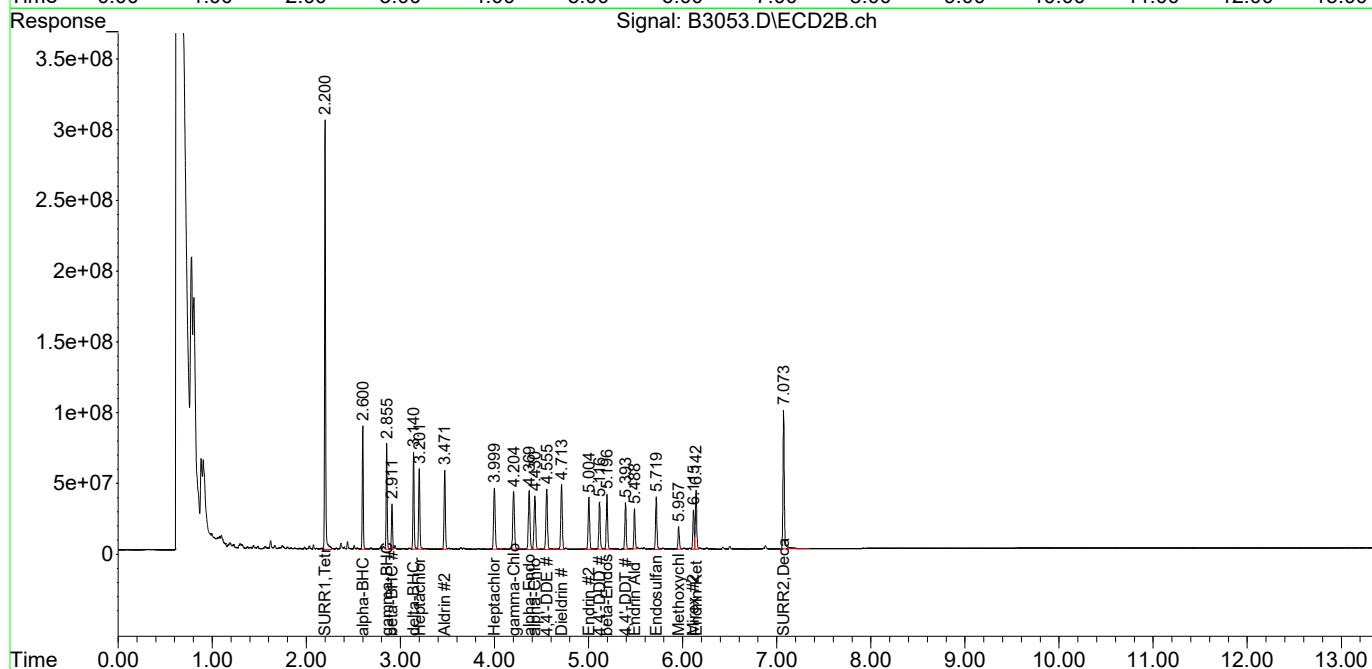
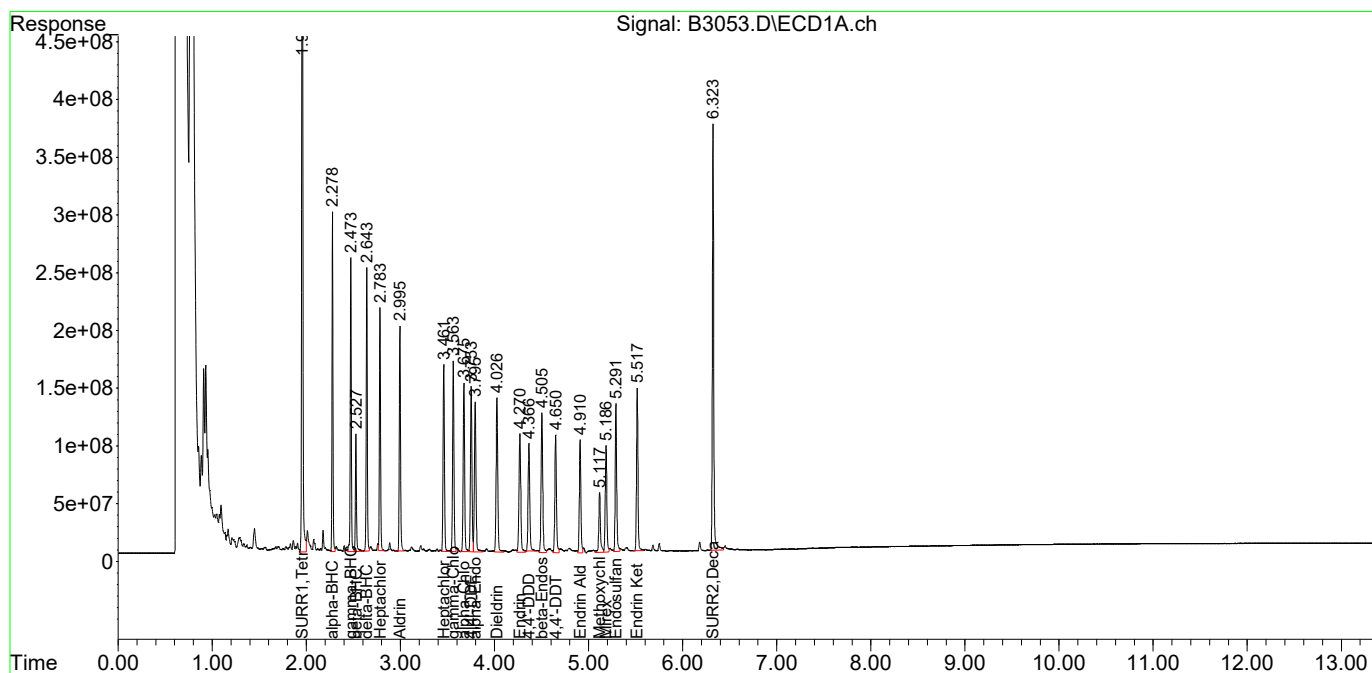
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	1.958	2.200	7246.4E6	2261.7E6	43.002	44.275
Spiked Amount	100.000 Range	30 - 150	Recovery =		43.00%	44.27%
23) S SURR2,Dec...	6.323	7.073f	3800.5E6	1008.5E6	44.047	43.227
Spiked Amount	100.000 Range	30 - 150	Recovery =		44.05%	43.23%
Target Compounds						
2) tc alpha-BHC	2.279	2.600	2119.1E6	657.1E6	8.319	8.915
3) tcm gamma-BHC (L	2.473	2.855	1972.0E6	588.8E6	8.506	9.034
4) tcm Heptachlor	2.784	3.201	1776.9E6	523.5E6	8.701	9.182
5) tcm Aldrin	2.996	3.472	1741.6E6	544.4E6	8.086	8.910
6) tc beta-BHC	2.528	2.911	835.9E6	260.4E6	8.842	9.314
7) tc delta-BHC	2.643	3.141	1983.1E6	584.1E6	8.921	9.123
8) tc Heptachlor E	3.462	4.000	1642.5E6	512.1E6	9.066	9.555
9) tc alpha-Endosu	3.796	4.369	1513.3E6	506.3E6	8.797	9.472
10) tc gamma-Chlord	3.563	4.204	1668.6E6	515.7E6	8.867	9.401m
11) tc alpha-Chlord	3.676	4.430	1587.8E6	460.4E6	8.823	9.223
12) tc 4,4'-DDE	3.753	4.556	1552.8E6	509.7E6	8.880	9.729
13) tcm Dieldrin	4.027	4.714	1648.8E6	523.6E6	9.205	9.852
14) tcm Endrin	4.271	5.004	1375.5E6	401.2E6	8.794	9.392
15) tc beta-Endosul	4.505	5.196	1486.6E6	410.9E6	9.448	9.433m
16) tc 4,4'-DDD	4.366	5.116	1171.2E6	351.1E6	8.509m	9.030m
17) tcm 4,4'-DDT	4.651	5.393	1246.5E6	331.1E6	9.174	9.276m
18) tc Endrin Aldeh	4.911	5.488	1116.2E6	282.5E6	10.815	10.539m
19) tc Endosulfan S	5.291	5.720	1389.0E6	365.4E6	9.342	9.893
20) tc Methoxychlor	5.118	5.958	659.4E6	164.7E6	9.701	9.586
21) tc Endrin Keton	5.517	6.143	1468.1E6	412.2E6	9.242	9.896
22) tc Mirex	5.186	6.116	1090.3E6	277.5E6	8.296	8.845
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3053.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:29 pm
Operator : AFelser
Sample : RQ2311102-03
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:46 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3043.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 06:30 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:16 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	28.092	-12.4	112	0.00
2 tc	alpha-BHC	25.000	29.119	-16.5#	115	0.00
3 tcm	gamma-BHC (L	25.000	29.484	-17.9#	115	0.00
4 tcm	Heptachlor	25.000	27.611	-10.4	114	0.00
5 tcm	Aldrin	25.000	27.639	-10.6	114	0.00
6 tc	beta-BHC	25.000	26.738	-7.0	114	0.00
7 TC	delta-BHC	25.000	27.658	-10.6	111	0.00
8 tc	Heptachlor E	25.000	27.530	-10.1	114	0.00
9 tc	alpha-Endosu	25.000	27.234	-8.9	113	0.00
10 tc	gamma-Chlord	25.000	27.492	-10.0	113	0.00
11 tc	alpha-Chlord	25.000	27.236	-8.9	112	0.00
12 tc	4,4'-DDE	25.000	27.959	-11.8	112	0.00
13 tcm	Dieldrin	25.000	27.528	-10.1	110	0.00
14 tcm	Endrin	25.000	25.392	-1.6	104	0.00
15 tc	beta-Endosul	25.000	27.497	-10.0	114	0.00
16 tc	4,4'-DDD	25.000	27.802	-11.2	111	0.00
17 tcm	4,4'-DDT	25.000	27.452	-9.8	110	0.00
18 tc	Endrin Aldeh	25.000	31.334	-25.3#	128	0.00
19 tc	Endosulfan S	25.000	28.216	-12.9	114	0.00
20 tc	Methoxychlor	25.000	25.282	-1.1	109	0.00
21 tc	Endrin Keton	25.000	28.384	-13.5	117	0.00
22 tc	Mirex	25.000	26.121	-4.5	112	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	26.134	-4.5	109	0.00

Signal #2

1 S	SURR1,Tetrac	25.000	29.073	-16.3	117	0.00
2 tc	alpha-BHC	25.000	30.221	-20.9#	117	0.00
3 tcm	gamma-BHC (L	25.000	29.870	-19.5#	117	0.00
4 tcm	Heptachlor	25.000	29.487	-17.9#	117	0.00
5 tcm	Aldrin	25.000	29.643	-18.6#	116	0.00
6 tc	beta-BHC	25.000	28.188	-12.8	116	0.00
7 tc	delta-BHC	25.000	30.005	-20.0#	116	0.00
8 tc	Heptachlor E	25.000	28.588	-14.4	116	0.00
9 tc	alpha-Endosu	25.000	28.811	-15.2#	116	0.00
10 tc	gamma-Chlord	25.000	29.351	-17.4#	116	0.00
11 tc	alpha-Chlord	25.000	28.684	-14.7	116	0.00
12 tc	4,4'-DDE	25.000	29.190	-16.8#	114	0.00
13 tcm	Dieldrin	25.000	29.348	-17.4#	116	0.00
14 tcm	Endrin	25.000	26.592	-6.4	106	0.00
15 tc	beta-Endosul	25.000	28.943	-15.8#	115	0.00
16 tc	4,4'-DDD	25.000	29.277	-17.1#	115	0.00
17 tcm	4,4'-DDT	25.000	29.163	-16.7#	114	0.00
18 tc	Endrin Aldeh	25.000	33.231	-32.9#	131	0.00

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3043.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 06:30 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:16 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 tc Endosulfan S	25.000	28.915	-15.7#	117	0.00
20 tc Methoxychlor	25.000	27.533	-10.1	116	0.00
21 tc Endrin Keton	25.000	29.916	-19.7#	120	0.00
22 tc Mirex	25.000	27.620	-10.5	117	0.00
23 S SURR2,Decachlorobiphenyl	25.000	28.785	-15.1	123	-0.01

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-3.93#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-4.13#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-4.84#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-5.03#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-5.21#
29 L9C Chlordane	100.000	0.000	100.0#	0	-2.74#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-3.11#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-3.42#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-3.57#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-3.68#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-8.51#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-8.83#

Signal #2

24 L8C Toxaphene	500.000	0.000	100.0#	0	-4.70#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-4.82#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-5.28#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-5.51#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-5.92#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.10#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-3.61#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.21#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-4.32#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-4.38#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-9.86#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-10.33#

(#) = Out of Range

SPCC's out = 0 CCC's out = 42

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3043.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 06:30 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:16 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

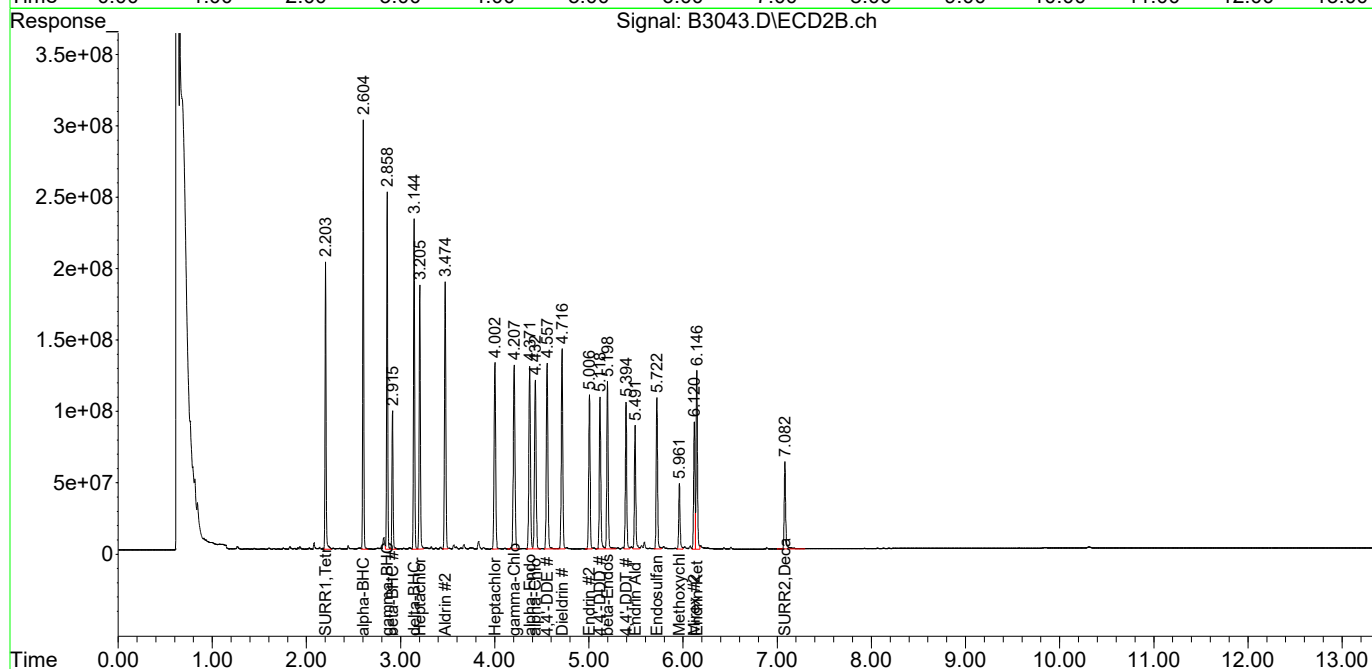
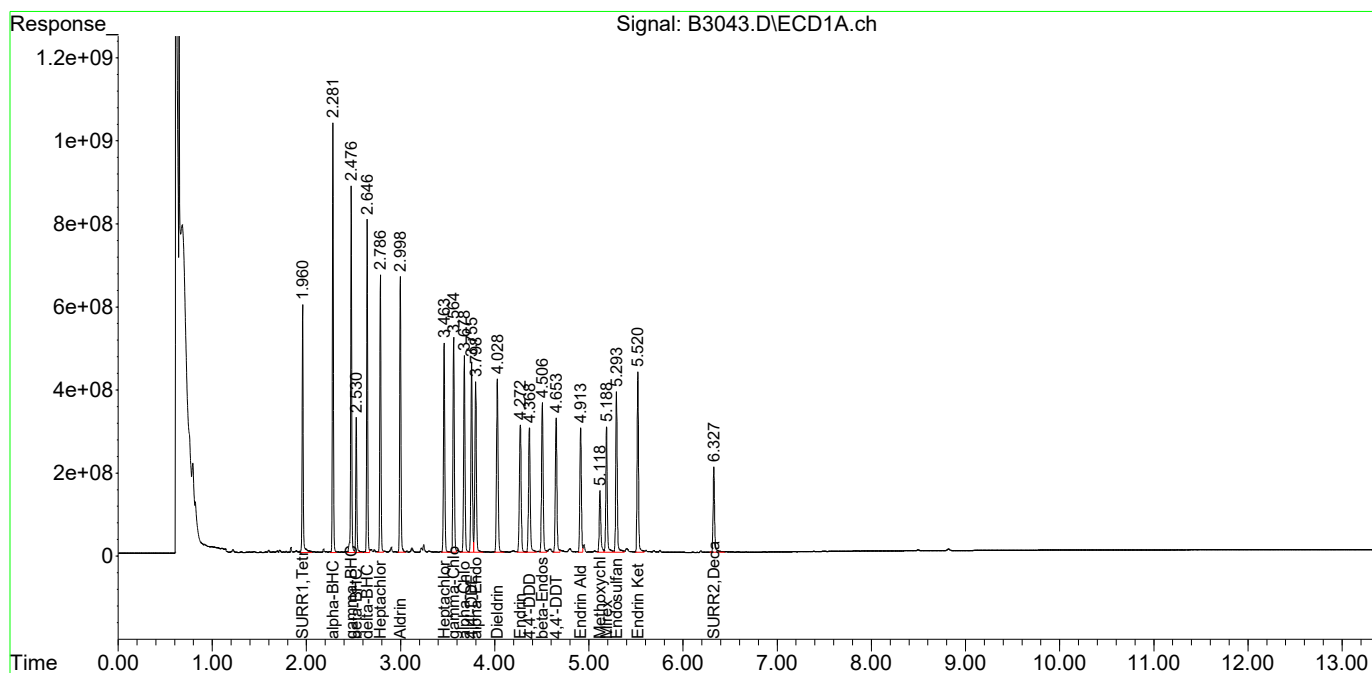
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	1.961	2.204	4733.8E6	1485.1E6	28.092	29.073
Spiked Amount	100.000	Range	30 - 150	Recovery =	28.09%#	29.07%#
23) S SURR2,Dec...	6.327	7.082	2254.9E6	671.6E6	26.134	28.785
Spiked Amount	100.000	Range	30 - 150	Recovery =	26.13%#	28.79%#
Target Compounds						
2) tc alpha-BHC	2.282	2.604	7417.5E6	2227.6E6	29.119	30.221
3) tcm gamma-BHC (L	2.476	2.858	6835.6E6	1946.7E6	29.484	29.870
4) tcm Heptachlor	2.786	3.205	5638.9E6	1681.1E6	27.611	29.487
5) tcm Aldrin	2.998	3.475	5952.9E6	1811.5E6	27.639	29.643
6) tc beta-BHC	2.530	2.915	2527.7E6	787.9E6	26.738	28.188
7) tc delta-BHC	2.646	3.144	6148.3E6	1921.0E6	27.658	30.005
8) tc Heptachlor E	3.464	4.003	4987.8E6	1532.0E6	27.530	28.588
9) tc alpha-Endosu	3.798	4.372	4684.8E6	1540.0E6	27.234	28.811
10) tc gamma-Chlord	3.565	4.207	5173.3E6	1610.2E6	27.492	29.351
11) tc alpha-Chlord	3.678	4.432	4901.6E6	1431.9E6	27.236	28.684
12) tc 4,4'-DDE	3.755	4.557	4888.7E6	1529.3E6	27.959	29.190
13) tcm Dieldrin	4.028	4.716	4930.9E6	1559.7E6	27.528	29.348
14) tcm Endrin	4.272	5.007	3971.7E6	1136.1E6	25.392	26.592
15) tc beta-Endosul	4.507	5.199	4326.4E6	1260.7E6	27.497	28.943
16) tc 4,4'-DDD	4.369	5.119	3826.8E6	1138.3E6	27.802	29.277
17) tcm 4,4'-DDT	4.653	5.395	3730.1E6	1041.0E6	27.452	29.163
18) tc Endrin Aldeh	4.913	5.491	3233.9E6	890.7E6	31.334	33.231
19) tc Endosulfan S	5.293	5.723	4195.6E6	1068.0E6	28.216	28.915
20) tc Methoxychlor	5.119	5.962	1718.4E6	473.1E6	25.282	27.533
21) tc Endrin Keton	5.520	6.147	4509.0E6	1246.0E6	28.384	29.916
22) tc Mirex	5.188	6.120	3432.9E6	866.5E6	26.121	27.620
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3043.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 06:30 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:16 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

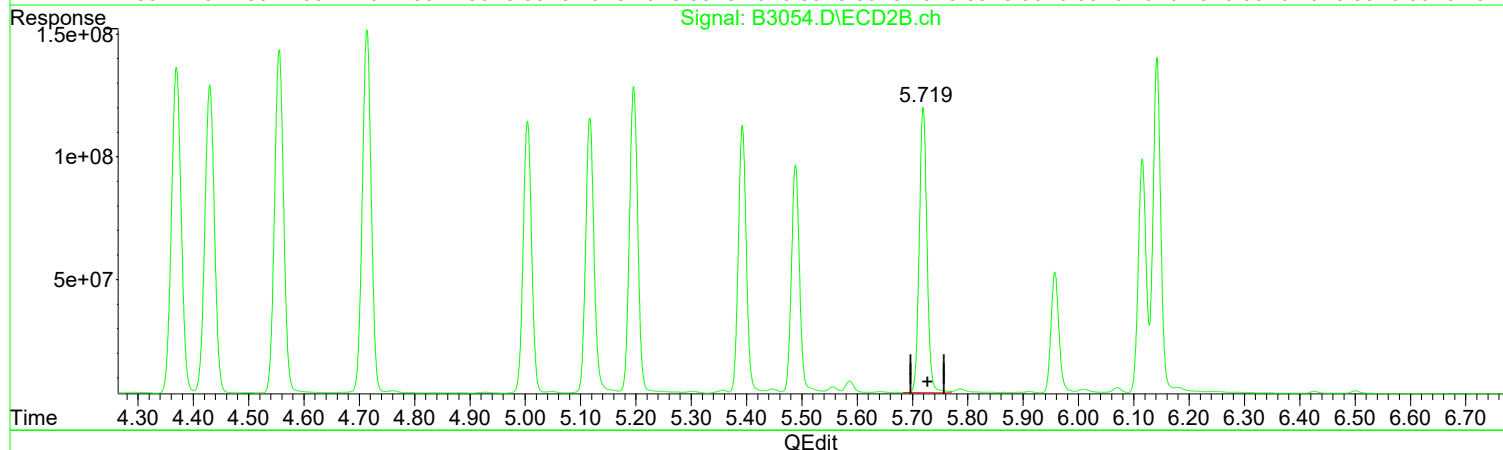
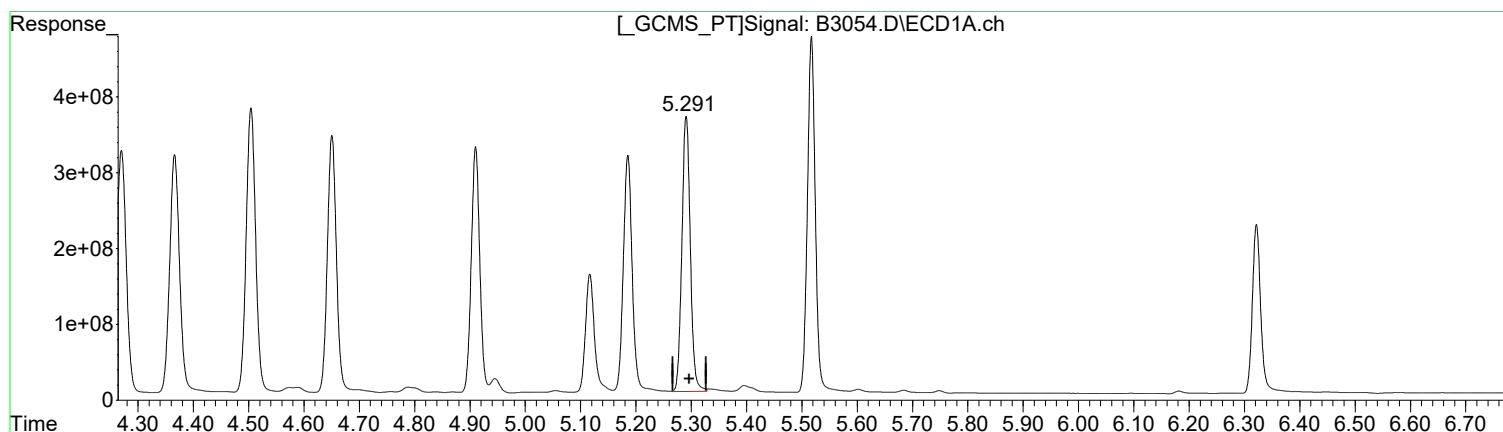
Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:47 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:49 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(19) Endosulfan S (tc)
5.291min 25.741 ug/l m
response 3827514748

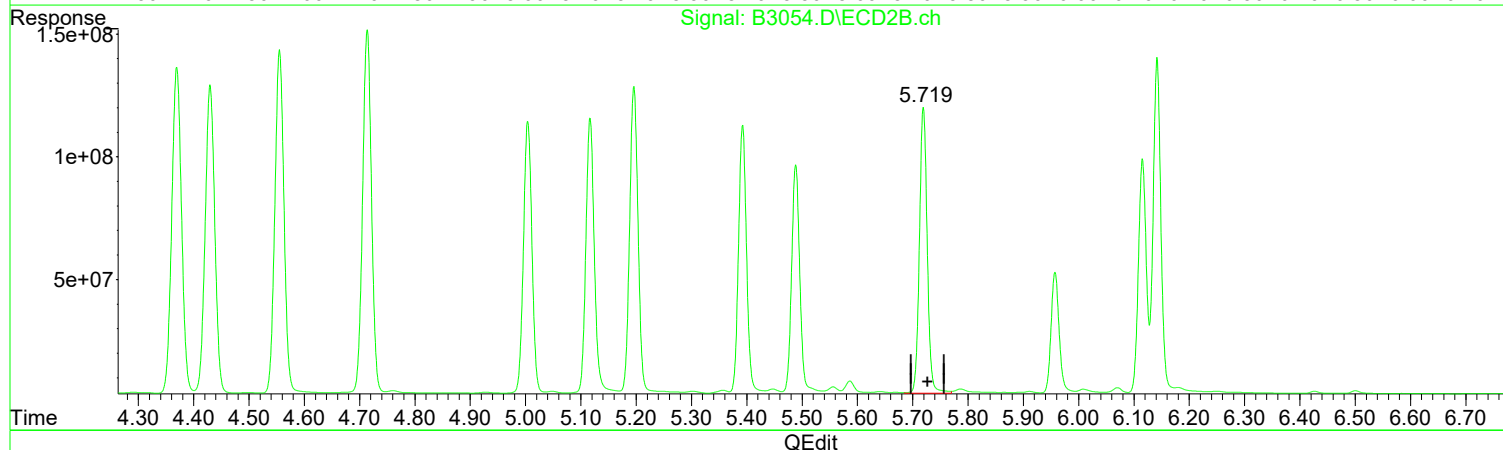
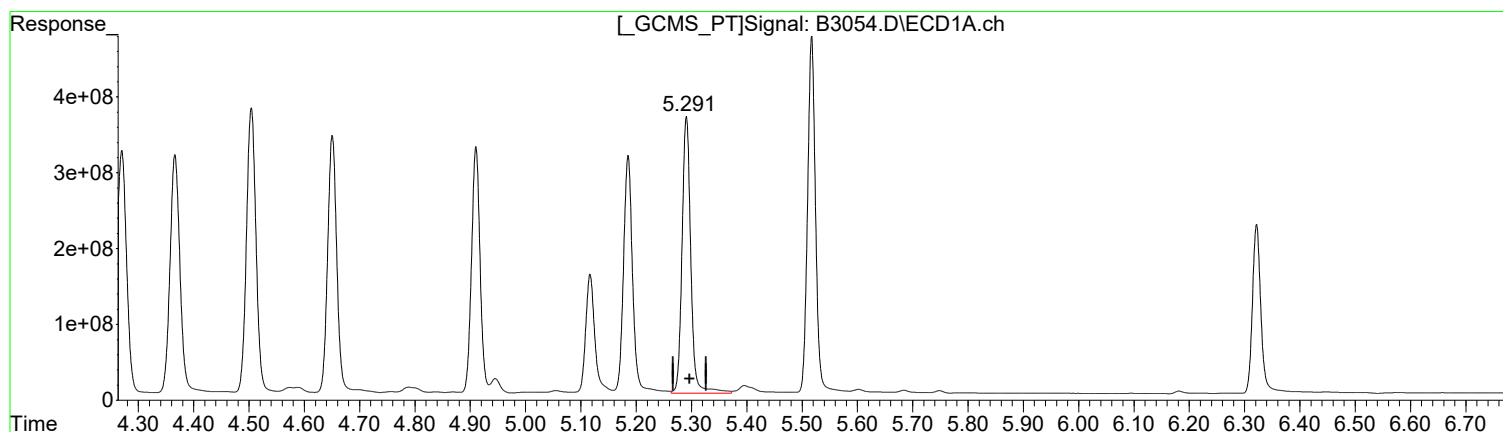
(19) Endosulfan S #2 (tc)
5.719min 30.676 ug/l m
response 1133067977

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3054.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 09:47 pm
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:49 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(19) Endosulfan S (tc)
5.291min 27.100 ug/l
response 4029661658

(19) Endosulfan S #2 (tc)
5.719min 31.040 ug/l
response 1146486236

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 09:47 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:49 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	27.629	-10.5	110	0.00
2 tc	alpha-BHC	25.000	30.363	-21.5#	120	0.00
3 tcm	gamma-BHC (L	25.000	30.539	-22.2#	119	0.00
4 tcm	Heptachlor	25.000	28.786	-15.1#	118	0.00
5 tcm	Aldrin	25.000	28.959	-15.8#	120	0.00
6 tc	beta-BHC	25.000	27.946	-11.8	119	0.00
7 TC	delta-BHC	25.000	28.482	-13.9	114	0.00
8 tc	Heptachlor E	25.000	29.002	-16.0#	120	0.00
9 tc	alpha-Endosu	25.000	28.592	-14.4	119	0.00
10 tc	gamma-Chlord	25.000	29.008	-16.0#	119	0.00
11 tc	alpha-Chlord	25.000	28.723	-14.9	118	0.00
12 tc	4,4'-DDE	25.000	29.345	-17.4#	117	0.00
13 tcm	Dieldrin	25.000	26.446	-5.8	106	0.00
14 tcm	Endrin	25.000	26.321	-5.3	108	0.00
15 tc	beta-Endosul	25.000	28.984	-15.9#	120	0.00
16 tc	4,4'-DDD	25.000	29.272	-17.1#	117	0.00
17 tcm	4,4'-DDT	25.000	28.987	-15.9#	116	0.00
18 tc	Endrin Aldeh	25.000	33.835	-35.3#	138	0.00
19 tc	Endosulfan S	25.000	25.741	-3.0	104	0.00
20 tc	Methoxychlor	25.000	26.858	-7.4	116	0.00
21 tc	Endrin Keton	25.000	30.032	-20.1#	123	0.00
22 tc	Mirex	25.000	27.624	-10.5	119	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	28.329	-13.3	119	-0.01

Signal #2

1 S	SURR1,Tetrac	25.000	30.199	-20.8#	121	0.00
2 tc	alpha-BHC	25.000	31.745	-27.0#	123	0.00
3 tcm	gamma-BHC (L	25.000	31.325	-25.3#	123	0.00
4 tcm	Heptachlor	25.000	29.572	-18.3#	117	0.00
5 tcm	Aldrin	25.000	31.272	-25.1#	123	0.00
6 tc	beta-BHC	25.000	29.538	-18.2#	122	-0.01
7 tc	delta-BHC	25.000	31.460	-25.8#	122	0.00
8 tc	Heptachlor E	25.000	30.165	-20.7#	123	0.00
9 tc	alpha-Endosu	25.000	30.498	-22.0#	123	0.00
10 tc	gamma-Chlord	25.000	31.055	-24.2#	123	0.00
11 tc	alpha-Chlord	25.000	30.374	-21.5#	123	0.00
12 tc	4,4'-DDE	25.000	30.821	-23.3#	120	0.00
13 tcm	Dieldrin	25.000	31.248	-25.0#	123	0.00
14 tcm	Endrin	25.000	27.695	-10.8	111	0.00
15 tc	beta-Endosul	25.000	30.897	-23.6#	123	0.00
16 tc	4,4'-DDD	25.000	30.976	-23.9#	122	0.00
17 tcm	4,4'-DDT	25.000	31.100	-24.4#	122	0.00
18 tc	Endrin Aldeh	25.000	36.097	-44.4#	142	0.00

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 09:47 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:49 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 tc Endosulfan S	25.000	30.676	-22.7#	124	0.00
20 tc Methoxychlor	25.000	29.559	-18.2#	125	0.00
21 tc Endrin Keton	25.000	32.113	-28.5#	128	-0.01
22 tc Mirex	25.000	29.856	-19.4#	127	0.00
23 S SURR2,Decachlorobiphenyl	25.000	31.291	-25.2#	134	-0.02

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-3.93#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-4.13#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-4.84#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-5.03#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-5.21#
29 L9C Chlordane	100.000	0.000	100.0#	0	-2.74#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-3.11#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-3.42#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-3.57#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-3.68#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-8.51#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-8.83#

Signal #2

24 L8C Toxaphene	500.000	0.000	100.0#	0	-4.70#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-4.82#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-5.28#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-5.51#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-5.92#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.10#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-3.61#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.21#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-4.32#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-4.38#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-9.86#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-10.33#

(#) = Out of Range

SPCC's out = 0 CCC's out = 56

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 09:47 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:49 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

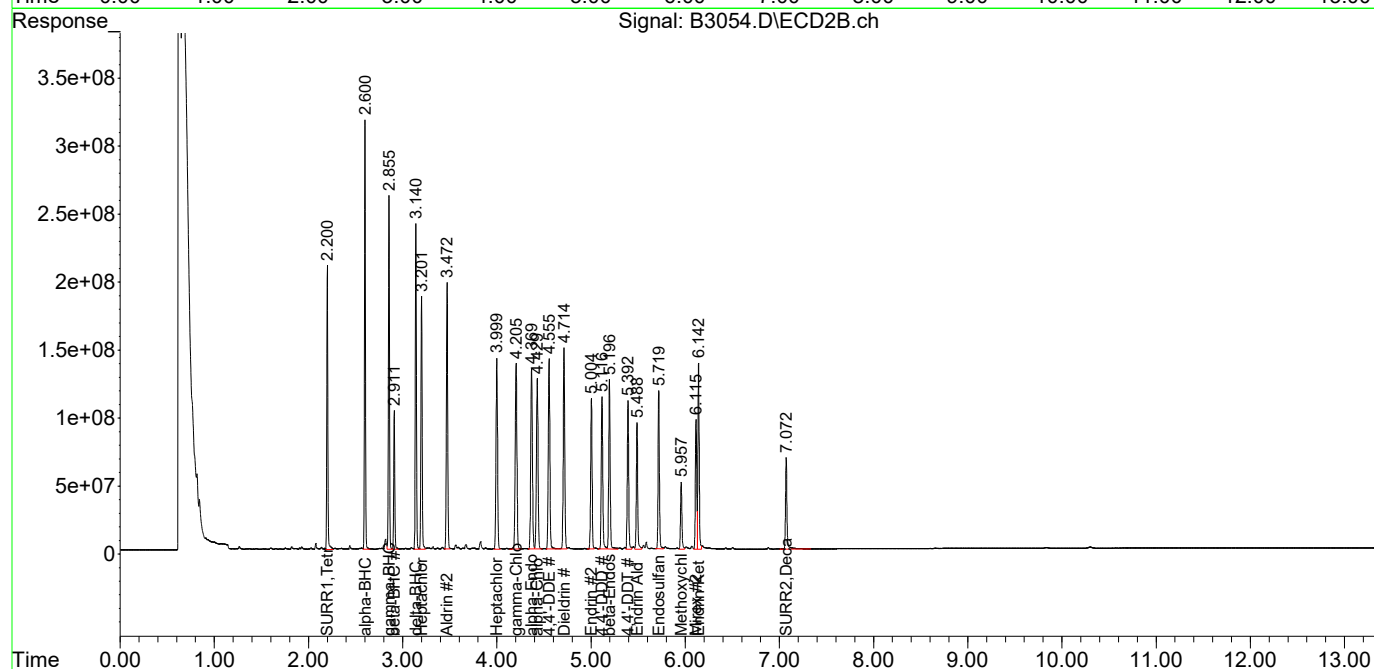
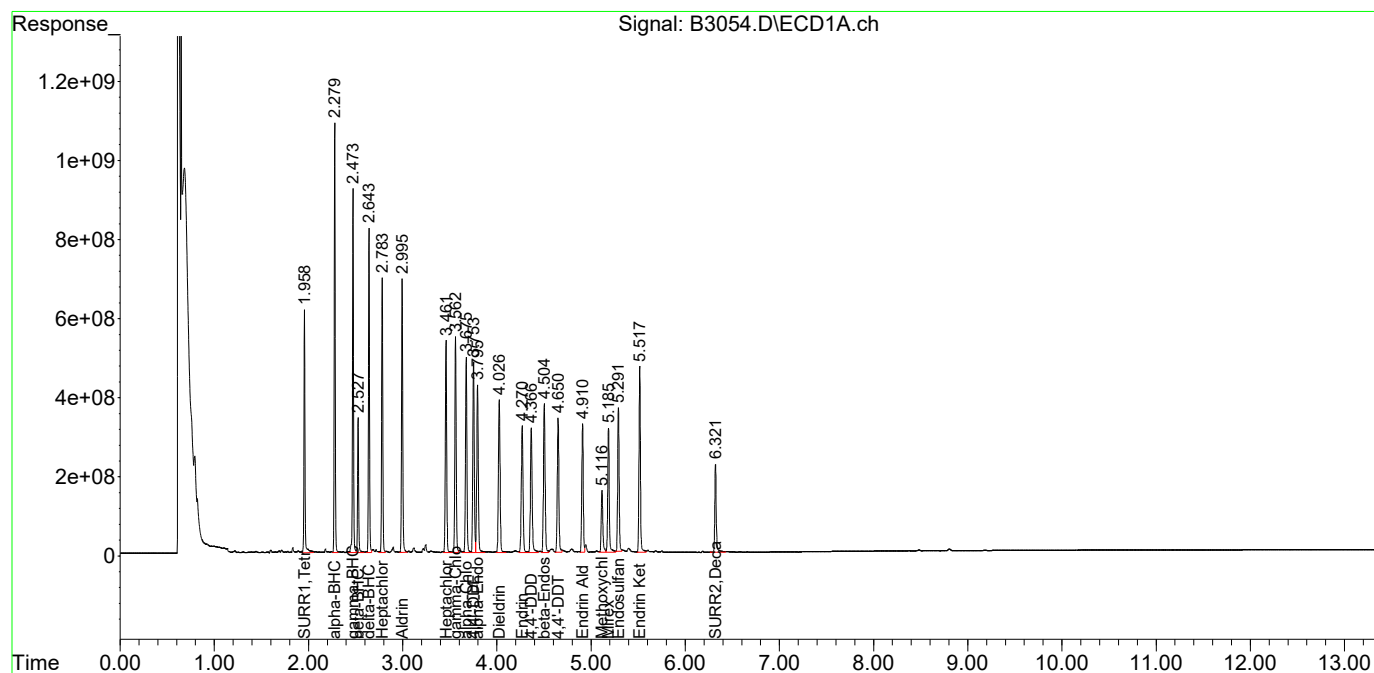
System Monitoring Compounds						
1) S SURR1,Tet...	1.958	2.200	4655.8E6	1542.6E6	27.629	30.199
Spiked Amount	100.000	Range	30 - 150	Recovery =	27.63%#	30.20%
23) S SURR2,Dec...	6.322	7.072f	2444.2E6	730.0E6	28.329	31.291
Spiked Amount	100.000	Range	30 - 150	Recovery =	28.33%#	31.29%
Target Compounds						
2) tc alpha-BHC	2.279	2.600	7734.2E6	2339.9E6	30.363	31.745
3) tcm gamma-BHC (L	2.473	2.855	7080.2E6	2041.5E6	30.539	31.325
4) tcm Heptachlor	2.784	3.201	5878.8E6	1686.0E6	28.786	29.572
5) tcm Aldrin	2.995	3.472	6237.2E6	1911.0E6	28.959	31.272
6) tc beta-BHC	2.528	2.911	2641.9E6	825.7E6	27.946	29.538
7) tc delta-BHC	2.643	3.141	6331.4E6	2014.2E6	28.482	31.460
8) tc Heptachlor E	3.461	4.000	5254.5E6	1616.5E6	29.002	30.165
9) tc alpha-Endosu	3.796	4.370	4918.3E6	1630.1E6	28.592	30.498
10) tc gamma-Chlord	3.562	4.205	5458.6E6	1703.6E6	29.008	31.055
11) tc alpha-Chlord	3.676	4.430	5169.2E6	1516.3E6	28.723	30.374
12) tc 4,4'-DDE	3.753	4.555	5131.2E6	1614.7E6	29.345	30.821
13) tcm Dieldrin	4.026	4.714	4737.0E6	1660.7E6	26.446	31.248
14) tcm Endrin	4.270	5.004	4117.0E6	1183.2E6	26.321	27.695
15) tc beta-Endosul	4.504	5.196	4560.4E6	1345.8E6	28.984	30.897
16) tc 4,4'-DDD	4.366	5.117	4029.2E6	1204.3E6	29.272	30.976
17) tcm 4,4'-DDT	4.651	5.393	3938.6E6	1110.2E6	28.987	31.100
18) tc Endrin Aldeh	4.910	5.489	3492.0E6	967.5E6	33.835	36.097
19) tc Endosulfan S	5.291	5.719	3827.5E6	1133.1E6	25.741m	30.676m
20) tc Methoxychlor	5.117	5.957	1825.5E6	507.9E6	26.858	29.559
21) tc Endrin Keton	5.517	6.142	4770.8E6	1337.5E6	30.032	32.113
22) tc Mirex	5.186	6.115	3630.4E6	936.7E6	27.624	29.856
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 09:47 pm
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:49 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Sep 2023 12:09 am
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:06:13 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	25.000	28.096	-12.4	112	0.00
2 tc	alpha-BHC	25.000	31.679	-26.7#	125	0.00
3 tcm	gamma-BHC (L	25.000	28.424	-13.7	111	0.00
4 tcm	Heptachlor	25.000	24.957	0.2	103	0.00
5 tcm	Aldrin	25.000	29.261	-17.0#	121	0.00
6 tc	beta-BHC	25.000	27.534	-10.1	117	0.00
7 TC	delta-BHC	25.000	27.851	-11.4	112	0.00
8 tc	Heptachlor E	25.000	30.008	-20.0#	124	0.00
9 tc	alpha-Endosu	25.000	29.364	-17.5#	122	0.00
10 tc	gamma-Chlord	25.000	30.558	-22.2#	125	0.00
11 tc	alpha-Chlord	25.000	29.422	-17.7#	121	0.00
12 tc	4,4'-DDE	25.000	30.098	-20.4#	120	0.00
13 tcm	Dieldrin	25.000	26.380	-5.5	105	0.00
14 tcm	Endrin	25.000	27.577	-10.3	113	0.00
15 tc	beta-Endosul	25.000	29.891	-19.6#	124	0.00
16 tc	4,4'-DDD	25.000	41.535	-66.1#	166	0.00
17 tcm	4,4'-DDT	25.000	8.948	64.2#	36	0.00
18 tc	Endrin Aldeh	25.000	34.431	-37.7#	141	0.00
19 tc	Endosulfan S	25.000	23.425	6.3	94	0.00
20 tc	Methoxychlor	25.000	9.077	63.7#	39	0.00
21 tc	Endrin Keton	25.000	17.615	29.5#	72	0.00
22 tc	Mirex	25.000	23.816	4.7	102	0.00
23 S	SURR2,Decachlorobiphenyl	25.000	26.997	-8.0	113	-0.01

Signal #2

1 S	SURR1,Tetrac	25.000	29.737	-18.9	119	0.00
2 tc	alpha-BHC	25.000	31.441	-25.8#	122	0.00
3 tcm	gamma-BHC (L	25.000	28.759	-15.0#	113	0.00
4 tcm	Heptachlor	25.000	23.432	6.3	93	0.00
5 tcm	Aldrin	25.000	30.634	-22.5#	120	0.00
6 tc	beta-BHC	25.000	27.228	-8.9	112	-0.01
7 tc	delta-BHC	25.000	28.892	-15.6#	112	0.00
8 tc	Heptachlor E	25.000	29.533	-18.1#	120	0.00
9 tc	alpha-Endosu	25.000	29.374	-17.5#	118	0.00
10 tc	gamma-Chlord	25.000	30.109	-20.4#	119	0.00
11 tc	alpha-Chlord	25.000	29.665	-18.7#	120	0.00
12 tc	4,4'-DDE	25.000	29.907	-19.6#	117	0.00
13 tcm	Dieldrin	25.000	30.928	-23.7#	122	0.00
14 tcm	Endrin	25.000	26.488	-6.0	106	0.00
15 tc	beta-Endosul	25.000	34.860	-39.4#	139	0.00
16 tc	4,4'-DDD	25.000	40.136	-60.5#	158	0.00
17 tcm	4,4'-DDT	25.000	8.488	66.0#	33	0.00
18 tc	Endrin Aldeh	25.000	32.817	-31.3#	129	0.00

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Sep 2023 12:09 am
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:13 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 tc Endosulfan S	25.000	26.823	-7.3	109	0.00
20 tc Methoxychlor	25.000	8.814	64.7#	37	0.00
21 tc Endrin Keton	25.000	17.428	30.3#	70	0.00
22 tc Mirex	25.000	24.342	2.6	103	0.00
23 S SURR2,Decachlorobiphenyl	25.000	30.088	-20.4#	129	-0.02

Evaluate Continuing Calibration Report - Not Found

24 L8C Toxaphene	500.000	0.000	100.0#	0	-3.93#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-4.13#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-4.84#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-5.03#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-5.21#
29 L9C Chlordane	100.000	0.000	100.0#	0	-2.74#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-3.11#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-3.42#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-3.57#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-3.68#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-8.51#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-8.83#

Signal #2

24 L8C Toxaphene	500.000	0.000	100.0#	0	-4.70#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-4.82#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-5.28#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-5.51#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-5.92#
29 L9C Chlordane	100.000	0.000	100.0#	0	-3.10#
30 L9C Chlordane{2}	100.000	0.000	100.0#	0	-3.61#
31 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.21#
32 L9C Chlordane{4}	100.000	0.000	100.0#	0	-4.32#
33 L9C Chlordane{5}	100.000	0.000	100.0#	0	-4.38#
34 L10CDechlorane{1}	50.000	0.000	100.0#	0	-9.86#
35 L10CDechlorane{2}	50.000	0.000	100.0#	0	-10.33#

(#) = Out of Range

SPCC's out = 0 CCC's out = 53

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Sep 2023 12:09 am
 Operator : AFelser
 Sample : 8081 CCV
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:06:13 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

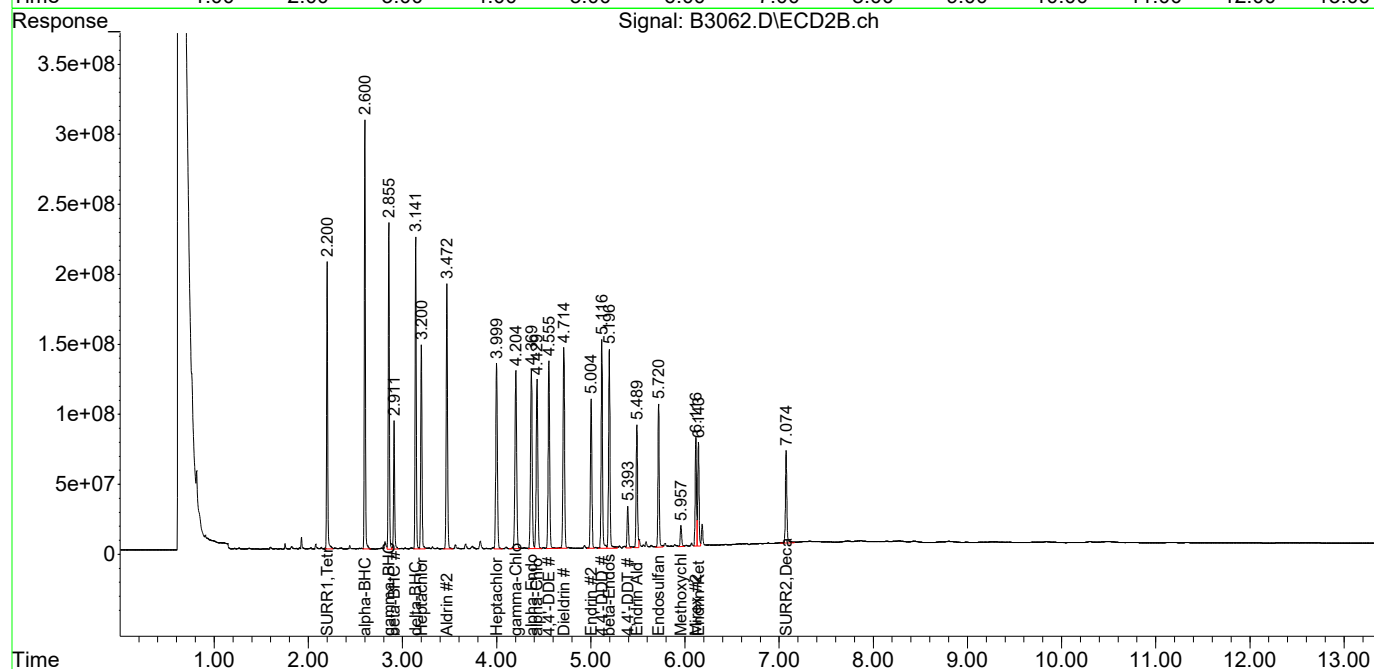
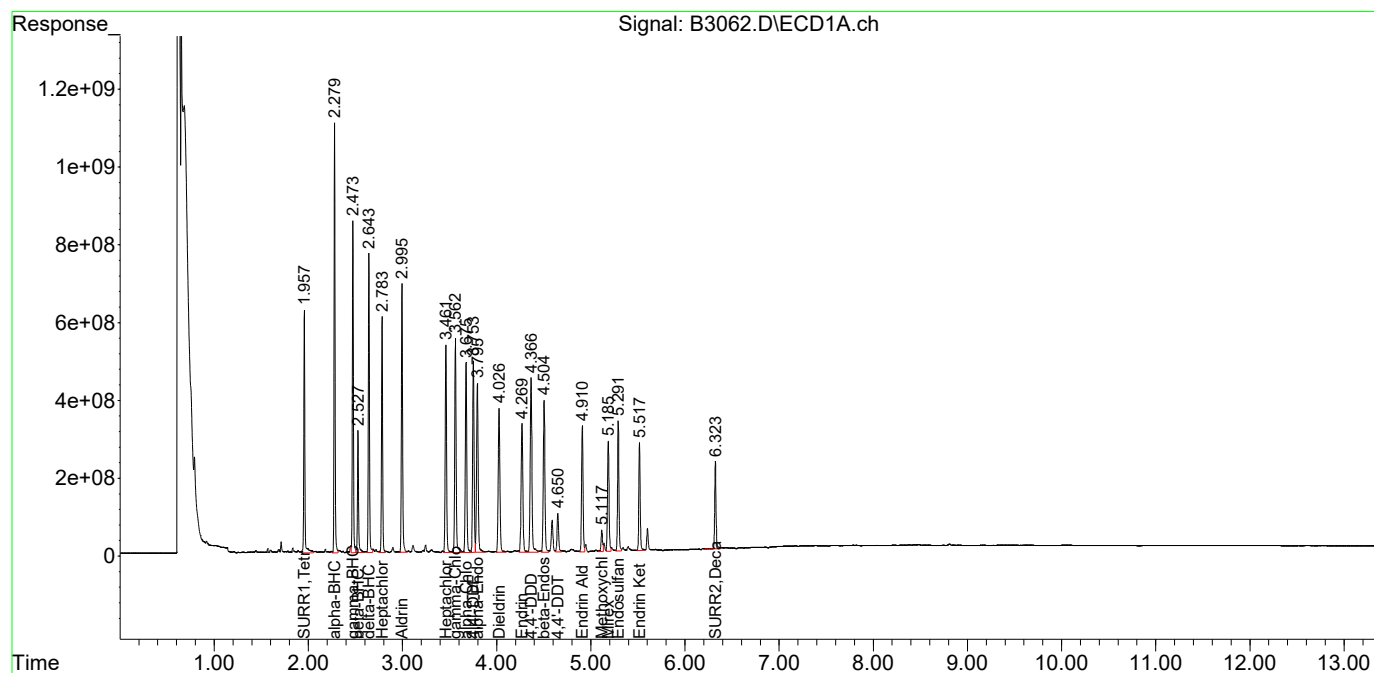
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	1.958	2.200	4734.5E6	1519.0E6	28.096	29.737
Spiked Amount	100.000 Range	30 - 150	Recovery	=	28.10%#	29.74%#
23) S SURR2,Dec...	6.323	7.074f	2329.3E6	702.0E6	26.997	30.088
Spiked Amount	100.000 Range	30 - 150	Recovery	=	27.00%#	30.09%
Target Compounds						
2) tc alpha-BHC	2.279	2.601	8069.4E6	2317.5E6	31.679	31.441
3) tcm gamma-BHC (L	2.473	2.855	6589.9E6	1874.2E6	28.424	28.759
4) tcm Heptachlor	2.784	3.201	5096.9E6	1335.9E6	24.957	23.432
5) tcm Aldrin	2.995	3.472	6302.2E6	1872.0E6	29.261	30.634
6) tc beta-BHC	2.528	2.911	2602.9E6	761.1E6	27.534	27.228
7) tc delta-BHC	2.643	3.141	6191.2E6	1849.8E6	27.851	28.892
8) tc Heptachlor E	3.461	4.000	5436.6E6	1582.6E6	30.008	29.533
9) tc alpha-Endosu	3.796	4.369	5051.1E6	1570.1E6	29.364	29.374
10) tc gamma-Chlord	3.563	4.204	5750.3E6	1651.7E6	30.558	30.109
11) tc alpha-Chlord	3.676	4.430	5295.0E6	1480.9E6	29.422	29.665
12) tc 4,4'-DDE	3.753	4.556	5262.9E6	1566.8E6	30.098	29.907
13) tcm Dieldrin	4.026	4.714	4725.1E6	1643.7E6	26.380	30.928
14) tcm Endrin	4.270	5.004	4313.5E6	1131.6E6	27.577	26.488
15) tc beta-Endosul	4.505	5.197	4703.0E6	1518.4E6	29.891	34.860
16) tc 4,4'-DDD	4.366	5.117	5717.2E6	1560.5E6	41.535	40.136
17) tcm 4,4'-DDT	4.650	5.393	1215.8E6	303.0E6	8.948	8.488
18) tc Endrin Aldeh	4.911	5.489	3553.5E6	879.6E6	34.431	32.817
19) tc Endosulfan S	5.292	5.720	3483.2E6	990.7E6	23.425	26.823
20) tc Methoxychlor	5.117	5.958	617.0E6	151.5E6	9.077	8.814
21) tc Endrin Keton	5.518	6.143	2798.3E6	725.9E6	17.615	17.428
22) tc Mirex	5.186	6.116	3129.9E6	763.7E6	23.816	24.342
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Sep 2023 12:09 am
Operator : AFelser
Sample : 8081 CCV
Misc :
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:06:13 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	DB-CLP 1	ID: 0.32 (mm)	Initial Calibration Date(s): 09/7/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	09/7/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	17:37	
4,4'-DDT % Breakdown (1):	2.0%	Endrin % Breakdown (1):	13.5%	
Combined % Breakdown (1):	15.6%			

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	DB-CLP 2	ID: 0.32 (mm)	Initial Calibration Date(s): 09/7/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	09/7/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	17:37	
4,4'-DDT % Breakdown (1):	2.3%	Endrin % Breakdown (1):	12.4%	
Combined % Breakdown (1):	14.8%			

QC LIMITS:

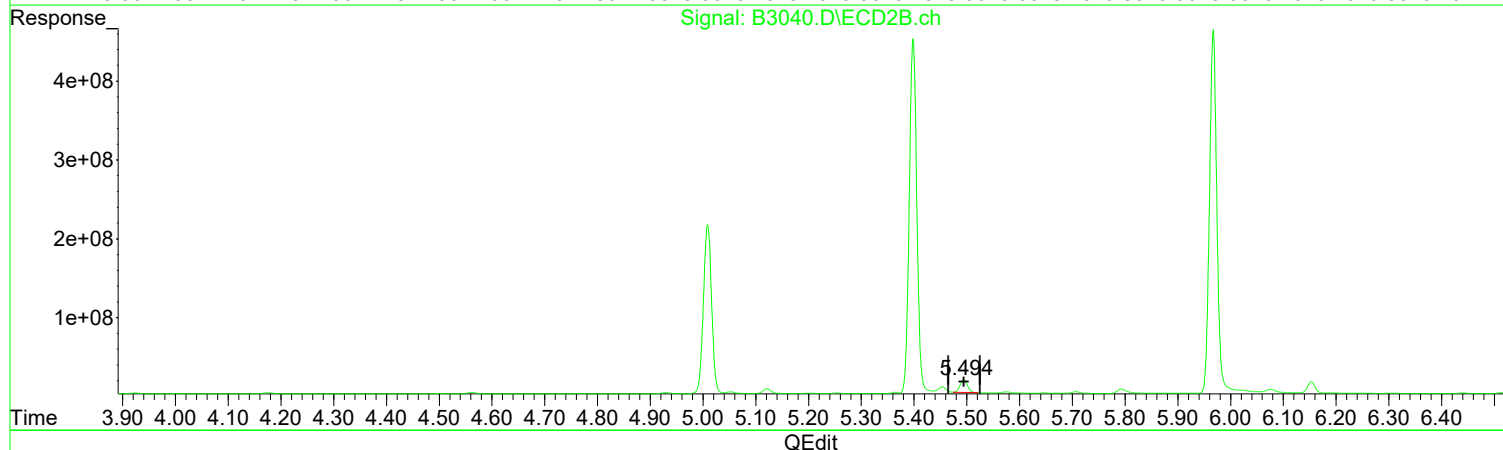
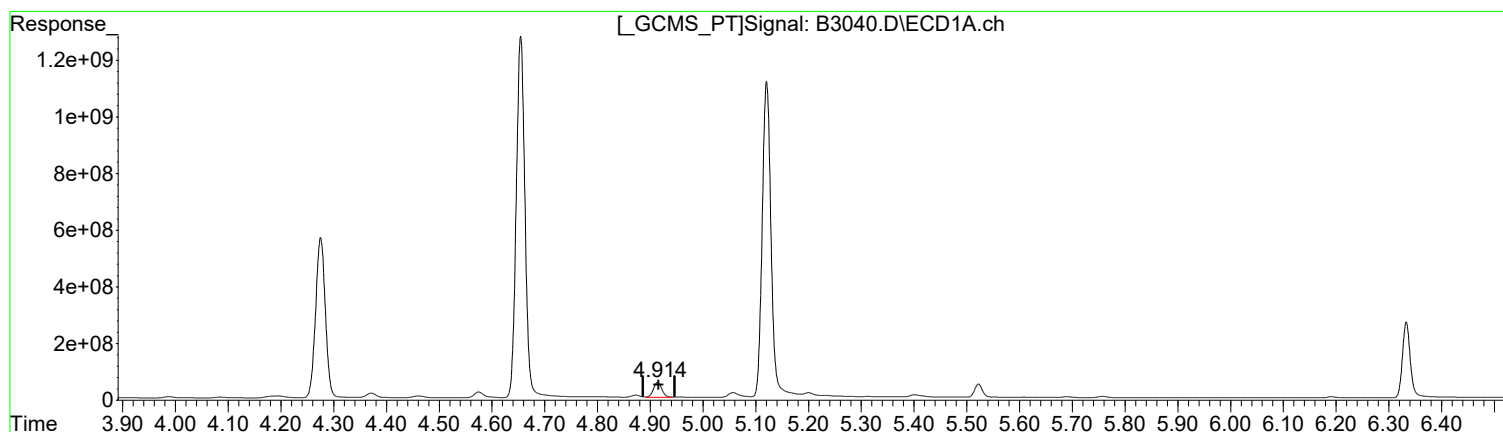
4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 05:37 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.914min 5.844 ug/l
response 603089272

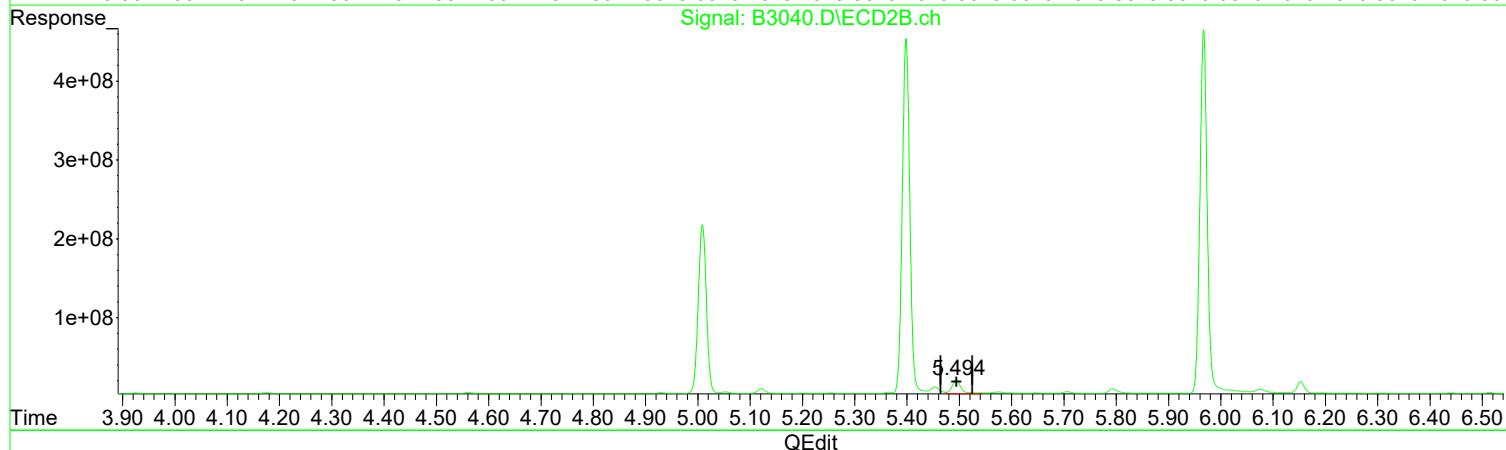
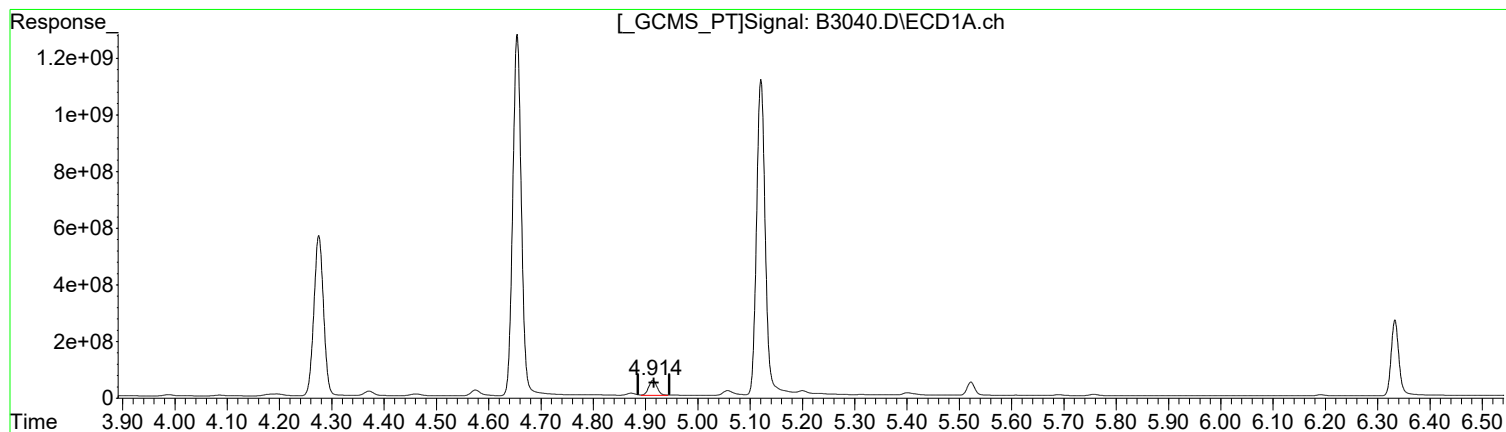
(18) Endrin Aldeh #2 (tc)
5.494min 5.990 ug/l m
response 160553550

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3040.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 05:37 pm
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.914min 5.844 ug/l
response 603089272

(18) Endrin Aldeh #2 (tc)
5.494min 8.181 ug/l
response 219290825

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3040.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 05:37 pm
 Operator : AFelser
 Sample : PEM
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:07 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

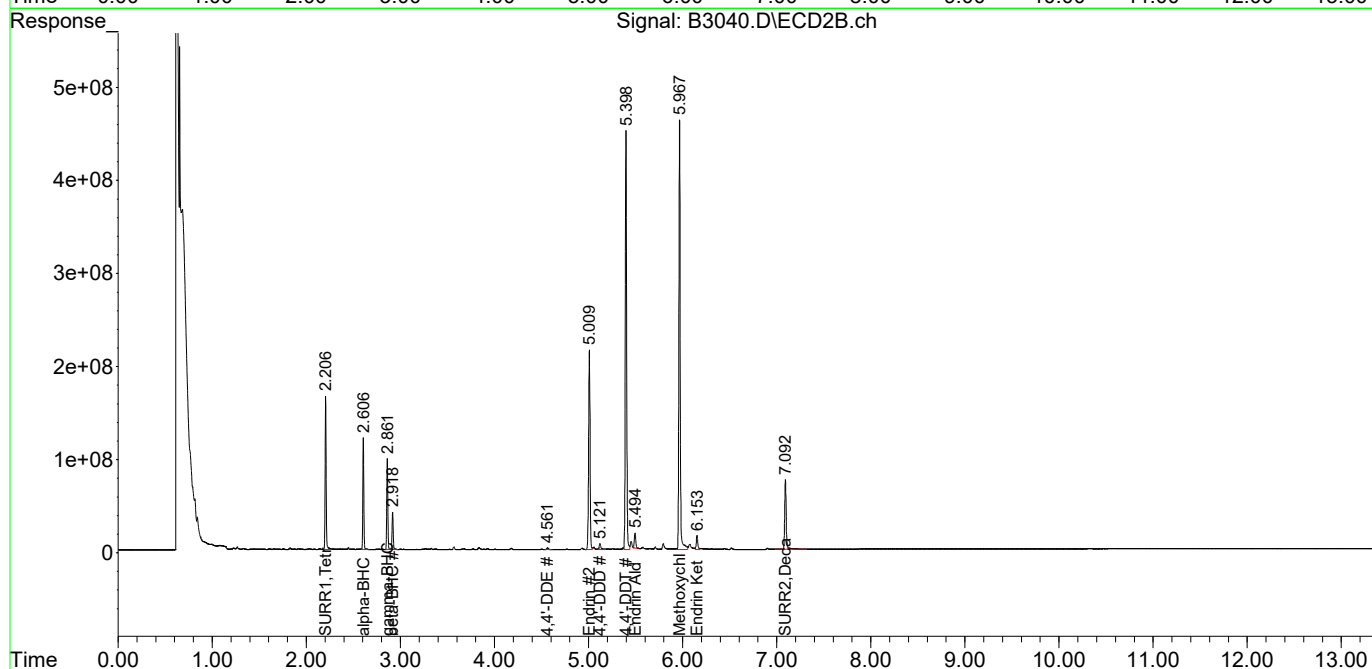
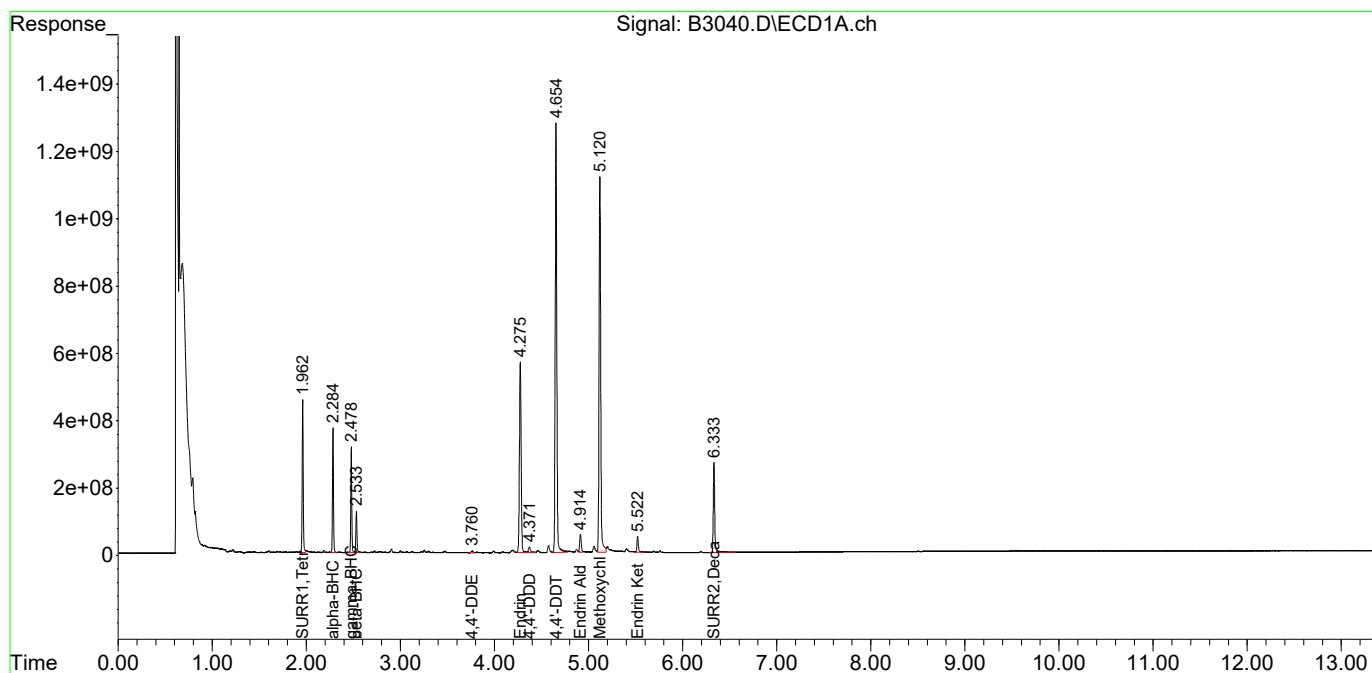
System Monitoring Compounds						
1) S SURR1,Tet...	1.962	2.206	3440.1E6	1214.5E6	20.415	23.776
Spiked Amount	100.000 Range	30 - 150	Recovery	=	20.41%#	23.78%#
23) S SURR2,Dec...	6.333	7.092	2928.4E6	811.4E6	33.940	34.780
Spiked Amount	100.000 Range	30 - 150	Recovery	=	33.94%	34.78%
Target Compounds						
2) tc alpha-BHC	2.284	2.607	2655.7E6	881.2E6	10.426	11.955
3) tcm gamma-BHC (L	2.479	2.862	2317.3E6	756.8E6	9.995	11.613
6) tc beta-BHC	2.533	2.918	983.8E6	329.1E6	10.407	11.774
12) tc 4,4'-DDE	3.761	4.561	72277429	23076640	0.413	0.440
14) tcm Endrin	4.275	5.009	7292.1E6	2332.2E6	46.620	54.590
16) tc 4,4'-DDD	4.371	5.121	236.7E6	83783091	1.719	2.155 #
17) tcm 4,4'-DDT	4.655	5.398	14871.5E6	4531.4E6	109.448	126.939
18) tc Endrin Aldeh	4.914	5.494	603.1E6	160.6E6	5.844	5.990m
20) tc Methoxychlor	5.121	5.967	13159.3E6	4611.2E6	193.608	268.363 #
21) tc Endrin Keton	5.522	6.153	538.5E6	171.1E6	3.390	4.108
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3040.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 05:37 pm
 Operator : AFelser
 Sample : PEM
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:07 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3039.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 05:19 pm
 Operator : AFelser
 Sample : CHLOR ICV
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:03:19 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

29) L9C Chlordane	2.736	3.092	684.7E6	205.8E6	93.217	92.731
30) L9C Chlordane{2}	3.102	3.602	703.1E6	210.4E6	87.599m	89.418
31) L9C Chlordane{3}	3.415	4.210	434.9E6	715.8E6	93.481	92.224m
32) L9C Chlordane{4}	3.567	4.319	2406.6E6	778.6E6	91.595	116.071m#
33) L9C Chlordane{5}	3.668	4.374	4077.8E6	541.2E6	103.743	88.495m
Sum Chlordane			8307.1E6	2451.8E6	469.636	478.940
Average Chlordane					93.927	95.788

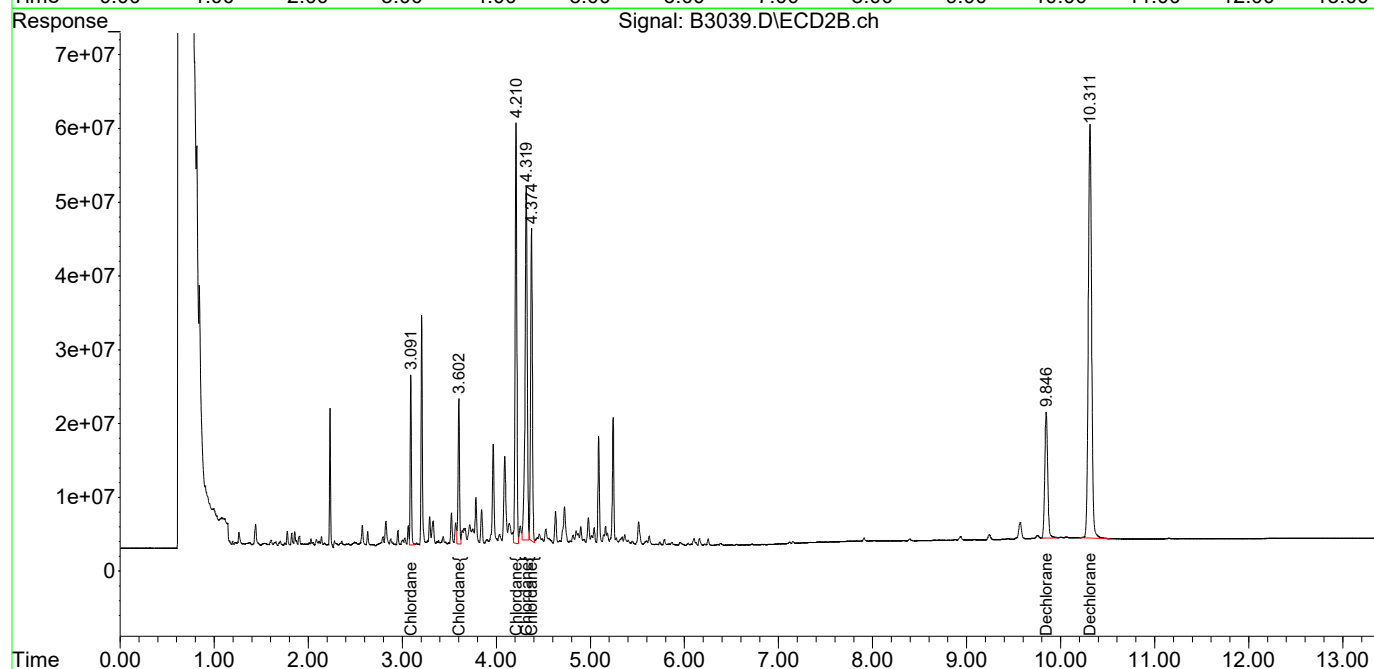
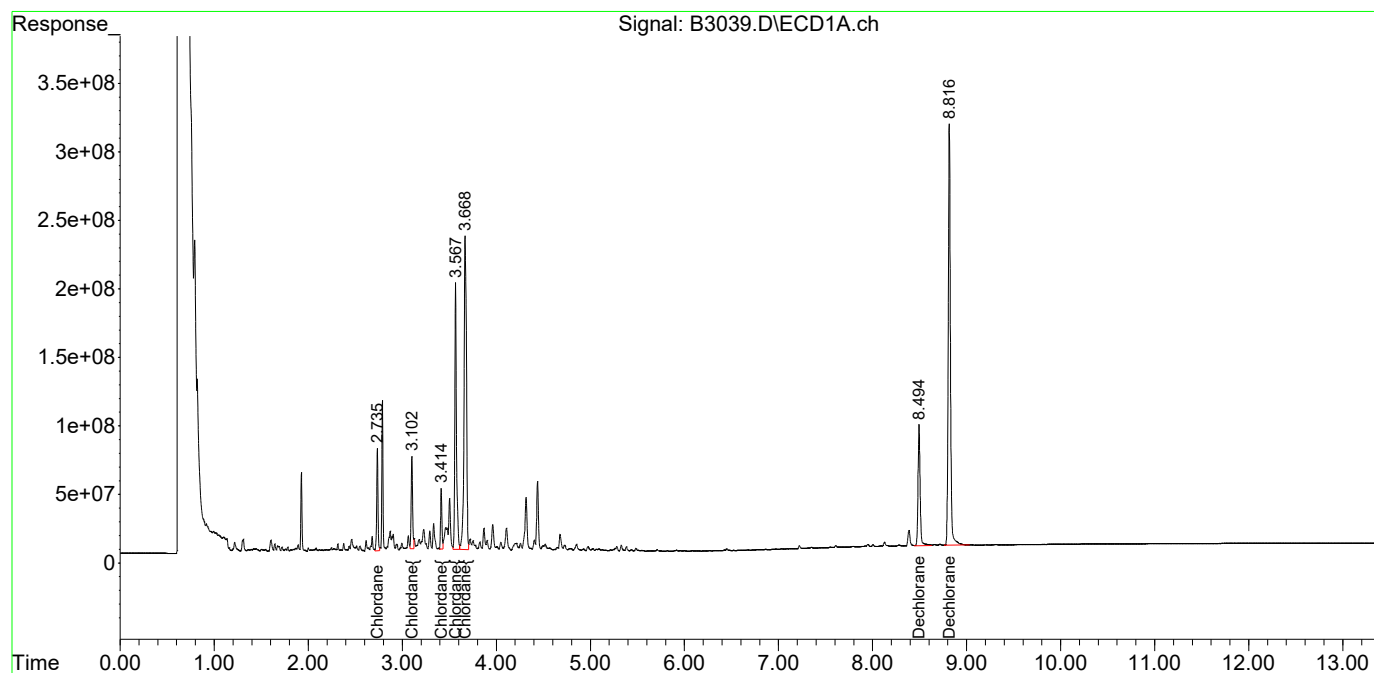
34) L10C Dechloran...	8.495	9.846f	1391.2E6	374.0E6	50.303	48.936
35) L10C Dechloran...	8.816f	10.312f	5026.2E6	1373.5E6	50.333	49.236
Sum Dechlorane			6417.5E6	1747.5E6	100.636	98.172
Average Dechlorane					50.318	49.086

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 05:19 pm
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:03:19 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3039.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 05:19 pm
 Operator : AFelser
 Sample : CHLOR ICV
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:03:19 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29 L9C Chlordane	100.000	93.217	6.8	96	0.00
30 L9C Chlordane{2}	100.000	87.599	12.4	95	0.00
31 L9C Chlordane{3}	100.000	93.481	6.5	96	0.00
32 L9C Chlordane{4}	100.000	91.595	8.4	92	0.00
33 L9C Chlordane{5}	100.000	103.743	-3.7	103	0.00
34 L10CDechlorane{1}	50.000	50.303	-0.6	105	-0.01
35 L10CDechlorane{2}	50.000	50.333	-0.7	102	-0.02

Signal #2

29 L9C Chlordane	100.000	92.731	7.3	95	0.00
30 L9C Chlordane{2}	100.000	89.418	10.6	97	0.00
31 L9C Chlordane{3}	100.000	92.224	7.8	92	0.00
32 L9C Chlordane{4}	100.000	116.071	-16.1#	116	0.00
33 L9C Chlordane{5}	100.000	88.495	11.5	88	0.00
34 L10CDechlorane{1}	50.000	48.936	2.1	102	-0.02
35 L10CDechlorane{2}	50.000	49.236	1.5	102	-0.02

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	25.000	0.000	100.0#	0	-1.96#
2 tc alpha-BHC	25.000	0.000	100.0#	0	-2.29#
3 tcm gamma-BHC (L	25.000	0.000	100.0#	0	-2.48#
4 tcm Heptachlor	25.000	0.000	100.0#	0	-2.79#
5 tcm Aldrin	25.000	0.000	100.0#	0	-3.00#
6 tc beta-BHC	25.000	0.000	100.0#	0	-2.54#
7 TC delta-BHC	25.000	0.000	100.0#	0	-2.65#
8 tc Heptachlor E	25.000	0.000	100.0#	0	-3.47#
9 tc alpha-Endosu	25.000	0.000	100.0#	0	-3.80#
10 tc gamma-Chlord	25.000	0.000	100.0#	0	-3.57#
11 tc alpha-Chlord	25.000	0.000	100.0#	0	-3.68#
12 tc 4,4'-DDE	25.000	0.000	100.0#	0	-3.76#
13 tcm Dieldrin	25.000	0.000	100.0#	0	-4.03#
14 tcm Endrin	25.000	0.000	100.0#	0	-4.28#
15 tc beta-Endosul	25.000	0.000	100.0#	0	-4.51#
16 tc 4,4'-DDD	25.000	0.000	100.0#	0	-4.37#
17 tcm 4,4'-DDT	25.000	0.000	100.0#	0	-4.66#
18 tc Endrin Aldeh	25.000	0.000	100.0#	0	-4.92#
19 tc Endosulfan S	25.000	0.000	100.0#	0	-5.30#
20 tc Methoxychlor	25.000	0.000	100.0#	0	-5.12#
21 tc Endrin Keton	25.000	0.000	100.0#	0	-5.52#
22 tc Mirex	25.000	0.000	100.0#	0	-5.19#
23 S SURR2,Decachlorobiphenyl	25.000	0.000	100.0#	0	-6.33#
24 L8C Toxaphene	500.000	0.000	100.0#	0	-3.93#

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 05:19 pm
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:03:19 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-4.13#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-4.84#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-5.03#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-5.21#

Signal #2

1 S SURR1,Tetrac	25.000	0.000	100.0#	0	-2.21#
2 tc alpha-BHC	25.000	0.000	100.0#	0	-2.61#
3 tcm gamma-BHC (L	25.000	0.000	100.0#	0	-2.87#
4 tcm Heptachlor	25.000	0.000	100.0#	0	-3.21#
5 tcm Aldrin	25.000	0.000	100.0#	0	-3.48#
6 tc beta-BHC	25.000	0.000	100.0#	0	-2.92#
7 tc delta-BHC	25.000	0.000	100.0#	0	-3.15#
8 tc Heptachlor E	25.000	0.000	100.0#	0	-4.01#
9 tc alpha-Endosu	25.000	0.000	100.0#	0	-4.38#
10 tc gamma-Chlord	25.000	0.000	100.0#	0	-4.21#
11 tc alpha-Chlord	25.000	0.000	100.0#	0	-4.44#
12 tc 4,4'-DDE	25.000	0.000	100.0#	0	-4.56#
13 tcm Dieldrin	25.000	0.000	100.0#	0	-4.72#
14 tcm Endrin	25.000	0.000	100.0#	0	-5.01#
15 tc beta-Endosul	25.000	0.000	100.0#	0	-5.20#
16 tc 4,4'-DDD	25.000	0.000	100.0#	0	-5.12#
17 tcm 4,4'-DDT	25.000	0.000	100.0#	0	-5.40#
18 tc Endrin Aldeh	25.000	0.000	100.0#	0	-5.49#
19 tc Endosulfan S	25.000	0.000	100.0#	0	-5.73#
20 tc Methoxychlor	25.000	0.000	100.0#	0	-5.97#
21 tc Endrin Keton	25.000	0.000	100.0#	0	-6.15#
22 tc Mirex	25.000	0.000	100.0#	0	-6.13#
23 S SURR2,Decachlorobiphenyl	25.000	0.000	100.0#	0	-7.09#
24 L8C Toxaphene	500.000	0.000	100.0#	0	-4.70#
25 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-4.82#
26 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-5.28#
27 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-5.51#
28 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-5.92#

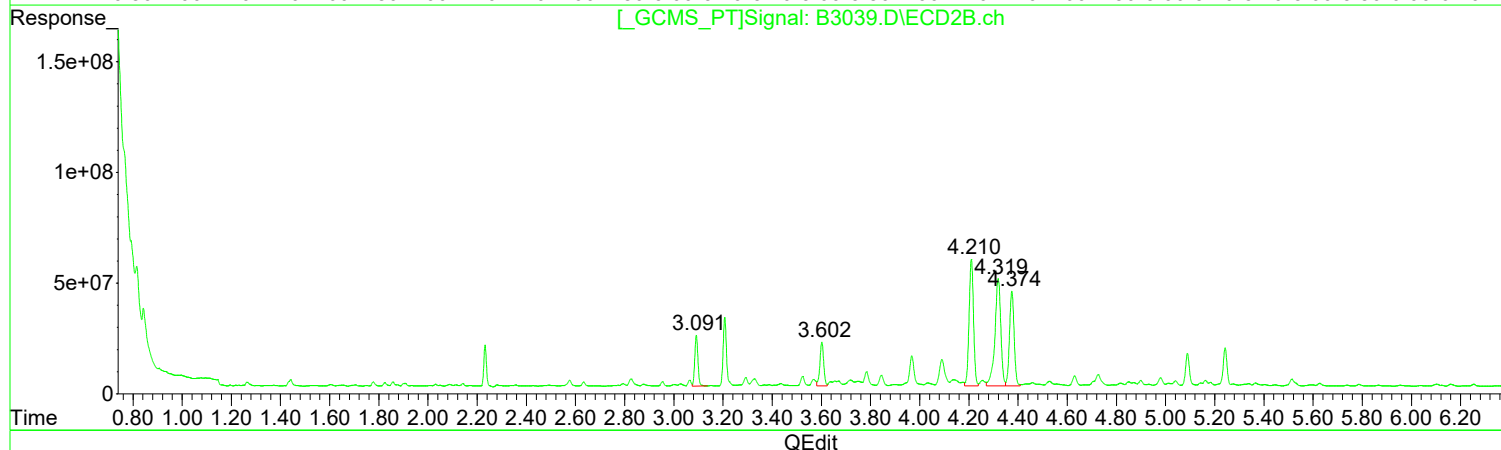
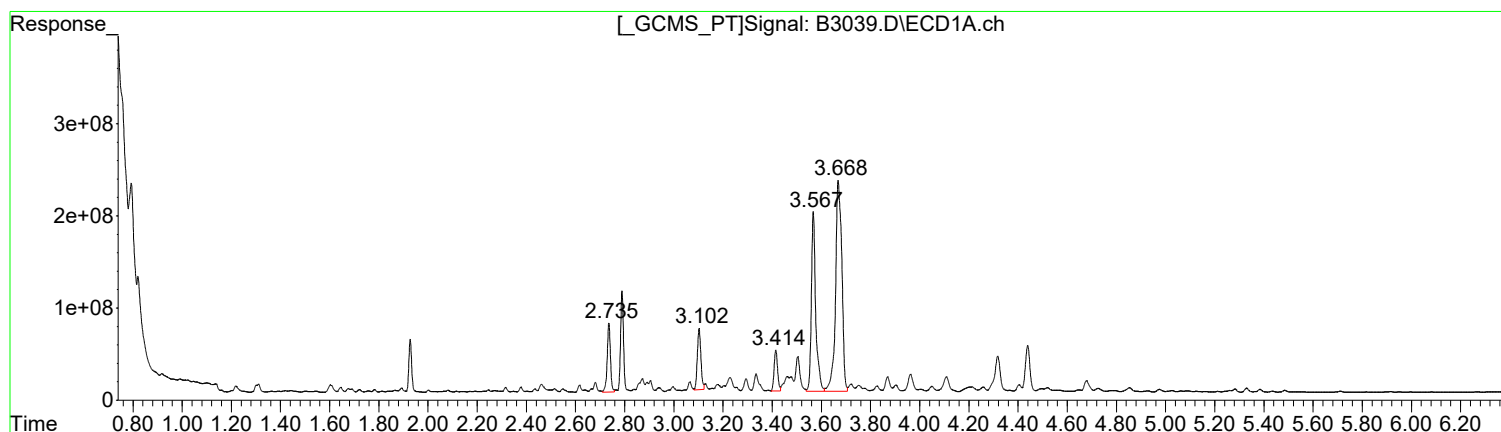
(#) = Out of Range

SPCC's out = 0 CCC's out = 53

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 05:19 pm
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:03:19 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)

R.T.	Response	Conc
2.74	684715939	93.22
3.10	669592866	83.43
3.41	434900154	93.48
3.57	2406635116	91.60
3.67	4077811810	103.74

Manual Integration:
Before
09/08/23

(29) Chlordane #2 (L9C)

R.T.	Response	Conc
3.09	205759931	92.73
3.60	210415031	89.42
4.21	720984659	92.89
4.32	811175146	120.92
4.37	559992163	91.57

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3038.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 05:01 pm
 Operator : AFelser
 Sample : CHLOR MH
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:25 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

29) L9C Chlordane	2.738	3.094	1624.0E6	536.2E6	226.717	247.274
30) L9C Chlordane{2}	3.105	3.604	1737.1E6	521.8E6	235.791m	239.616m
31) L9C Chlordane{3}	3.417	4.211	1041.5E6	1939.6E6	228.791	248.876
32) L9C Chlordane{4}	3.570	4.321	6132.7E6	1656.6E6	233.235	247.431
33) L9C Chlordane{5}	3.673	4.376	9209.6E6	1523.6E6	233.646	247.307
Sum Chlordane			19744.9E6	6177.9E6	1158.180	1230.503
Average Chlordane					231.636	246.101

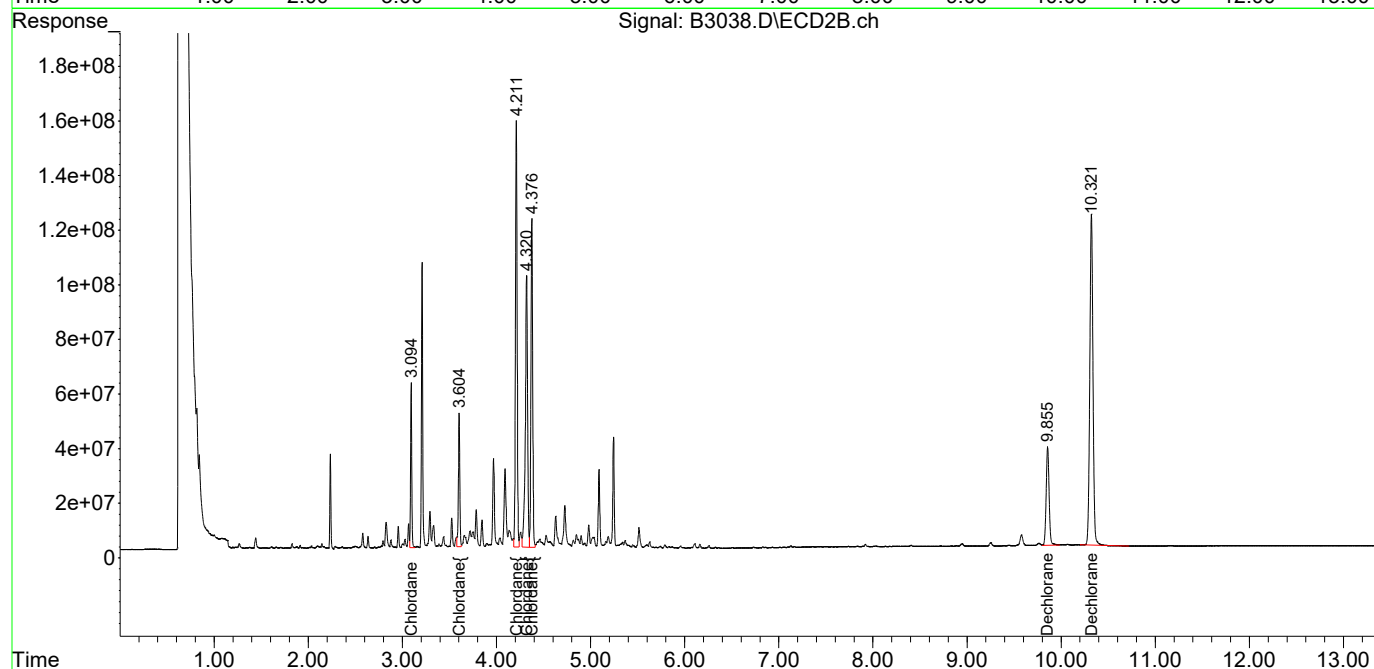
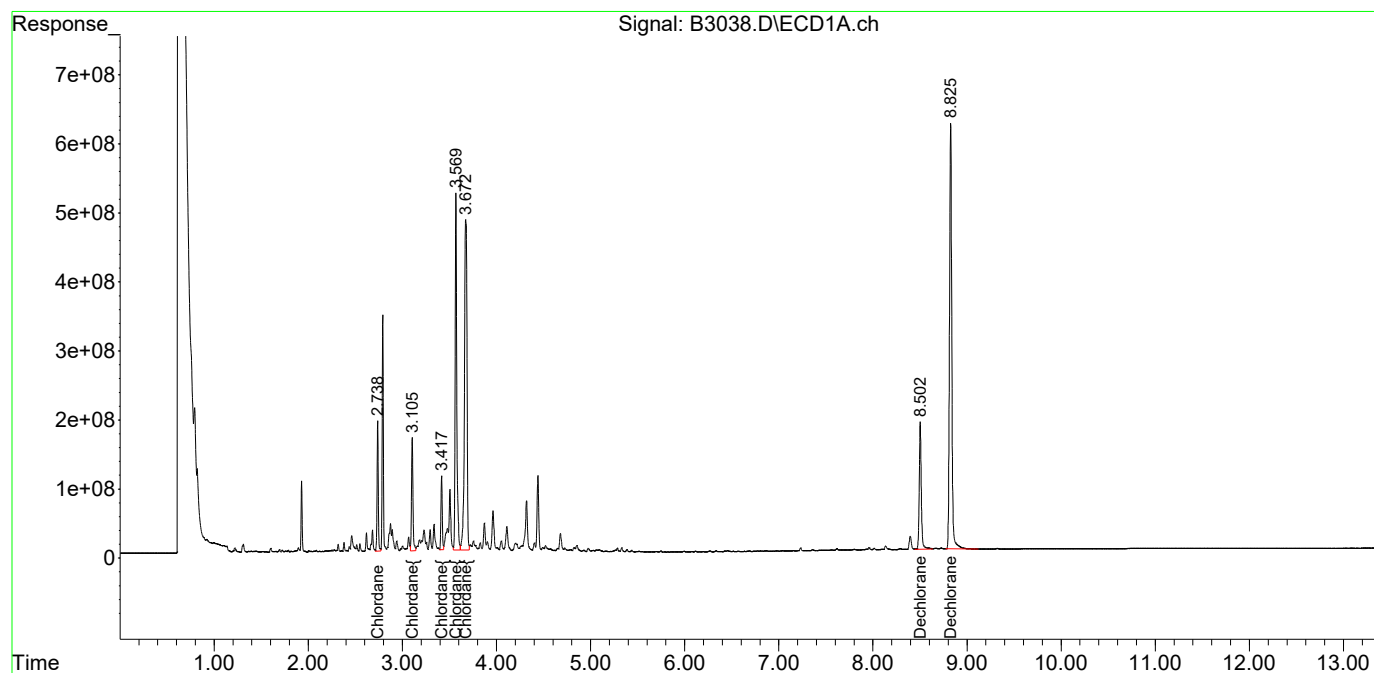
34) L10C Dechloran...	8.503	9.855	2837.8E6	783.5E6	106.778	106.589
35) L10C Dechloran...	8.826	10.321	10416.6E6	2841.7E6	105.400	106.020
Sum Dechlorane			13254.4E6	3625.3E6	212.178	212.609
Average Dechlorane					106.089	106.305

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 05:01 pm
Operator : AFelser
Sample : CHLOR MH
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:25 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

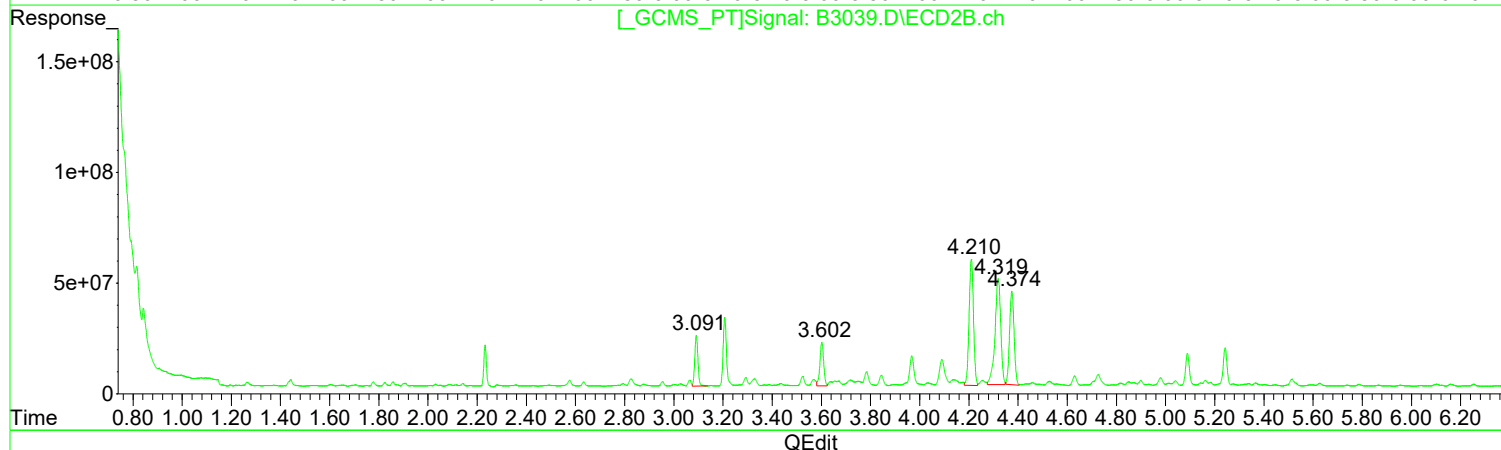
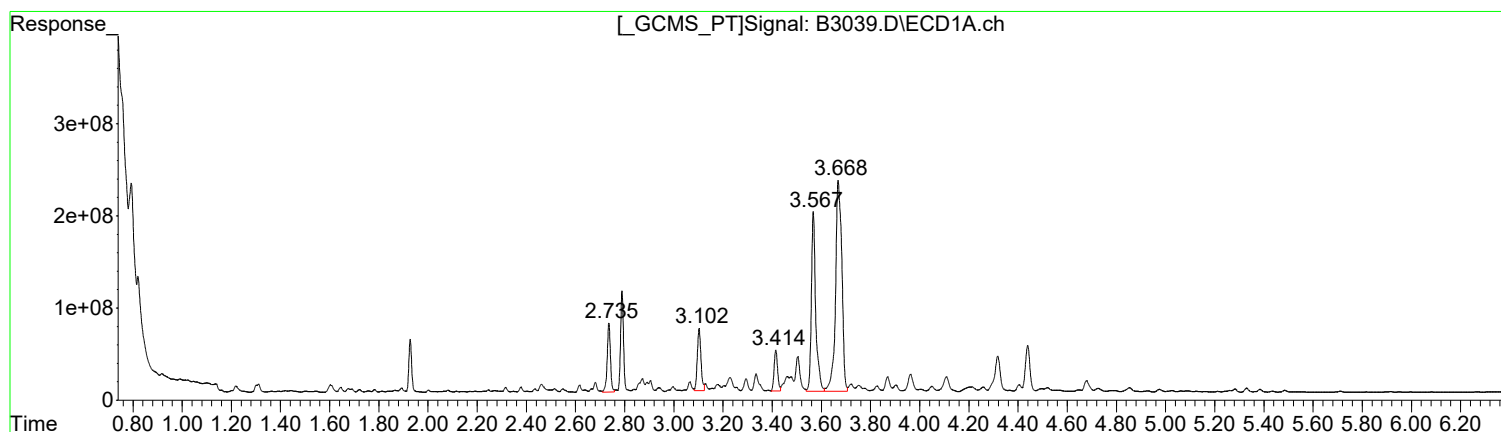
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3039.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 05:19 pm
Operator : AFelser
Sample : CHLOR ICV
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:03:19 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)

R.T.	Response	Conc
2.74	684715939	93.22
3.10	703054243	87.60
3.41	434900154	93.48
3.57	2406635116	91.60
3.67	4077811810	103.74

Manual Integration:
After
Poor integration.
09/08/23

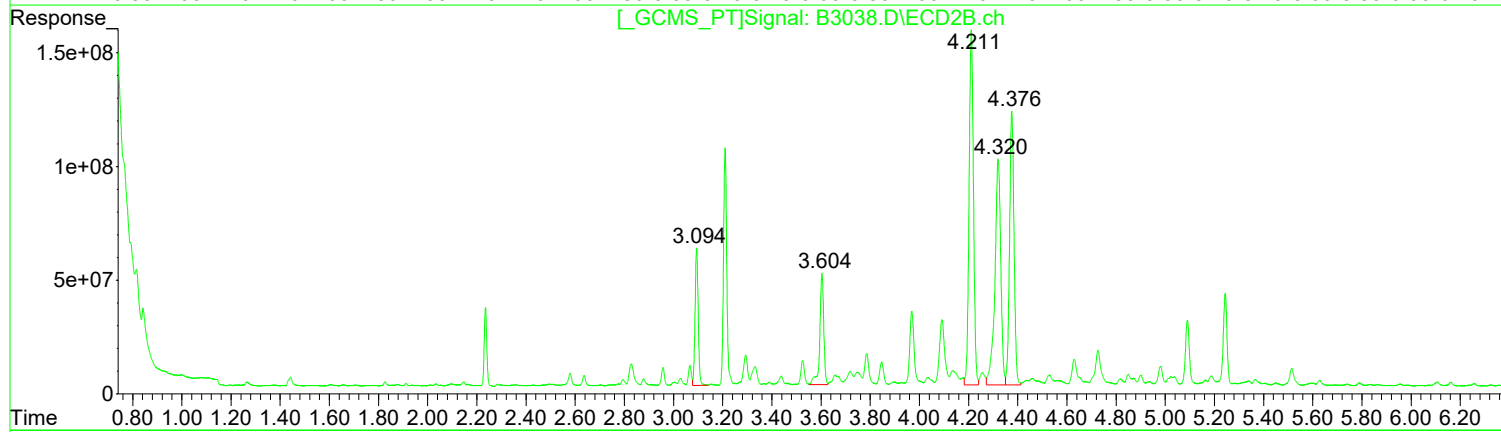
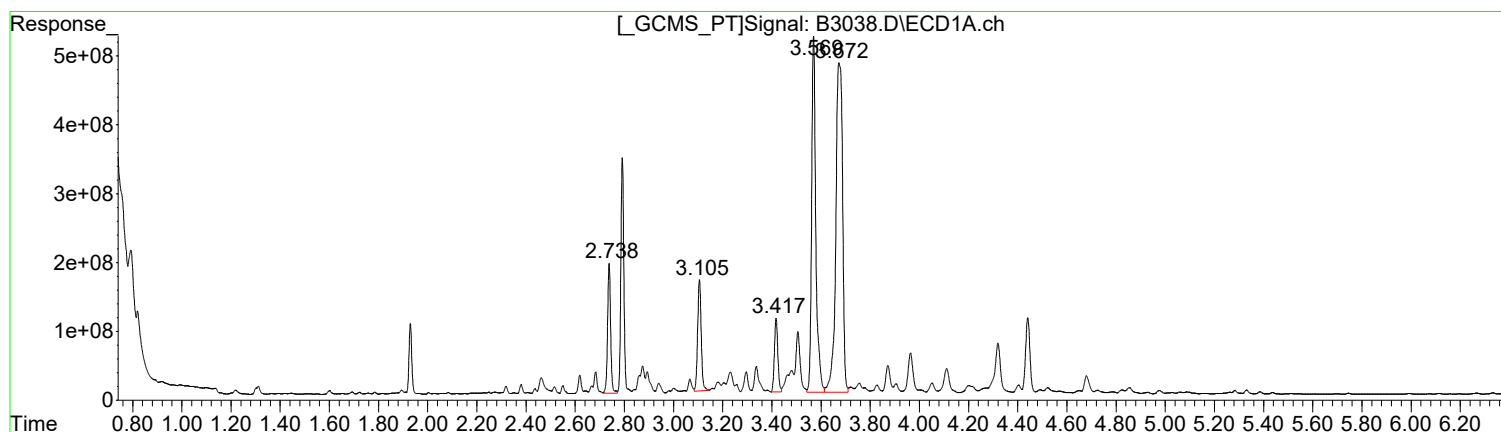
(29) Chlordane #2 (L9C)

R.T.	Response	Conc
3.09	205759931	92.73
3.60	210415031	89.42
4.21	715816704	92.22
4.32	778625900	116.07
4.37	541200989	88.50

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3038.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 05:01 pm
 Operator : AFelser
 Sample : CHLOR MH
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:25 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)

R.T.	Response	Conc
2.74	1624032656	226.72
3.11	1631023743	221.39
3.42	1041450856	228.79
3.57	6132669230	233.23
3.67	9209592444	233.65

Manual Integration:
 Before
 09/08/23

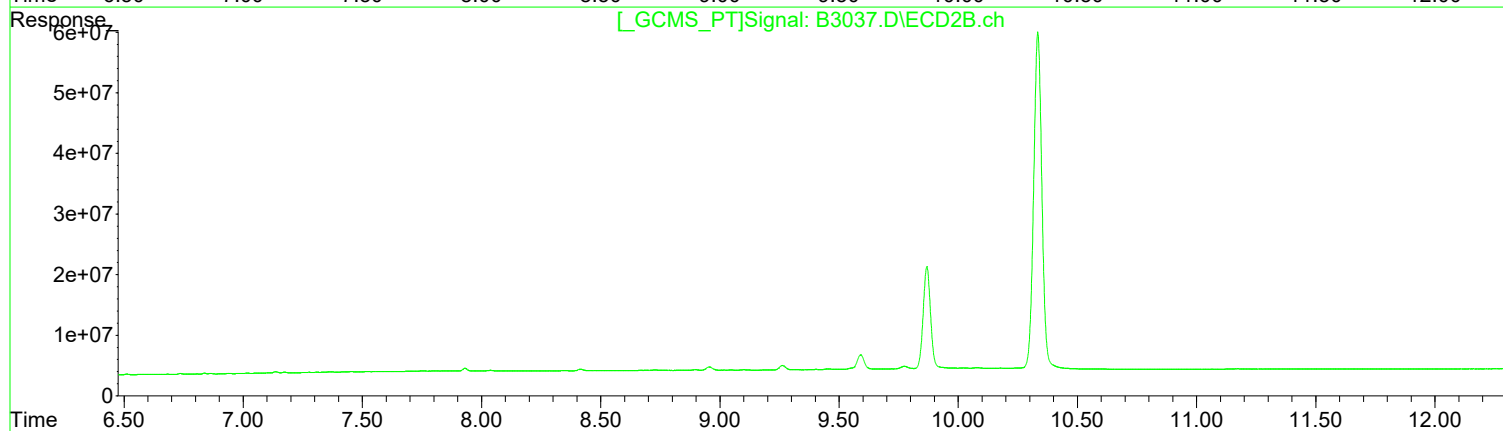
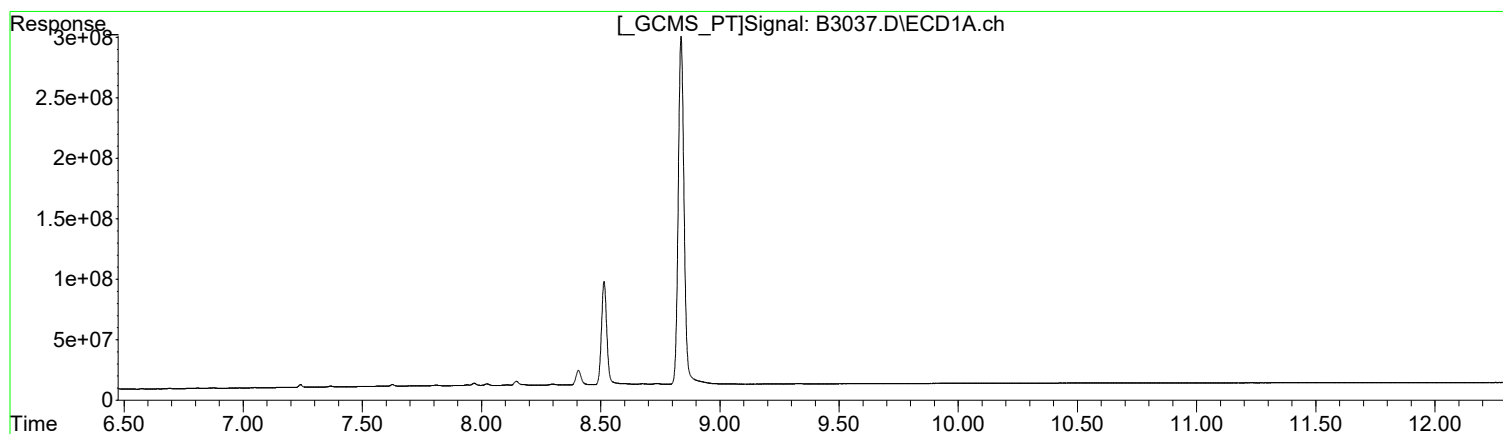
(29) Chlordane #2 (L9C)

R.T.	Response	Conc
3.09	536233469	247.27
3.60	555578251	255.10
4.21	1939591562	248.88
4.32	1656621950	247.43
4.38	1523580092	247.31

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 04:43 pm
Operator : AFelser
Sample : CHLOR M
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:23:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 01 10:28:11 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(34) Dechlorane{1} (L10C)
R.T. Response Conc
0.00 0 0.00
0.00 0 0.00

Manual Integration:
Before

09/08/23

(34) Dechlorane{1} #2 (L10C)
R.T. Response Conc
0.00 0 0.00
0.00 0 0.00

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3037.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 04:43 pm
 Operator : AFelser
 Sample : CHLOR M
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:23:04 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 01 10:28:11 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

29) L9C Chlordane	2.741	3.097	716.3E6	216.9E6	91.975	87.640
30) L9C Chlordane{2}	3.108	3.607	736.7E6	217.8E6	87.782	83.770
31) L9C Chlordane{3}	3.420	4.214	455.2E6	779.3E6	89.731	89.175
32) L9C Chlordane{4}	3.572	4.323	2629.4E6	669.5E6	88.433	88.073
33) L9C Chlordane{5}	3.675	4.378	3941.7E6	616.1E6	88.127	88.916
Sum Chlordane			8479.3E6	2499.6E6	446.047	437.574
Average Chlordane					89.209	87.515

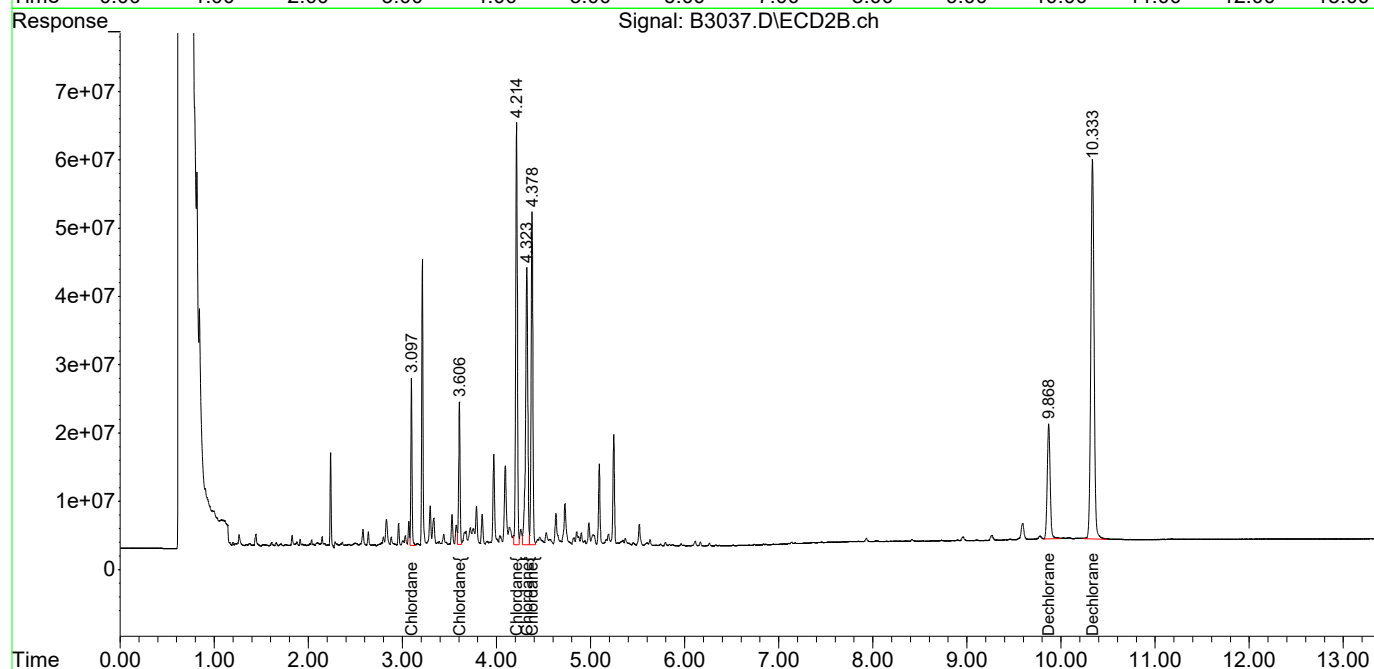
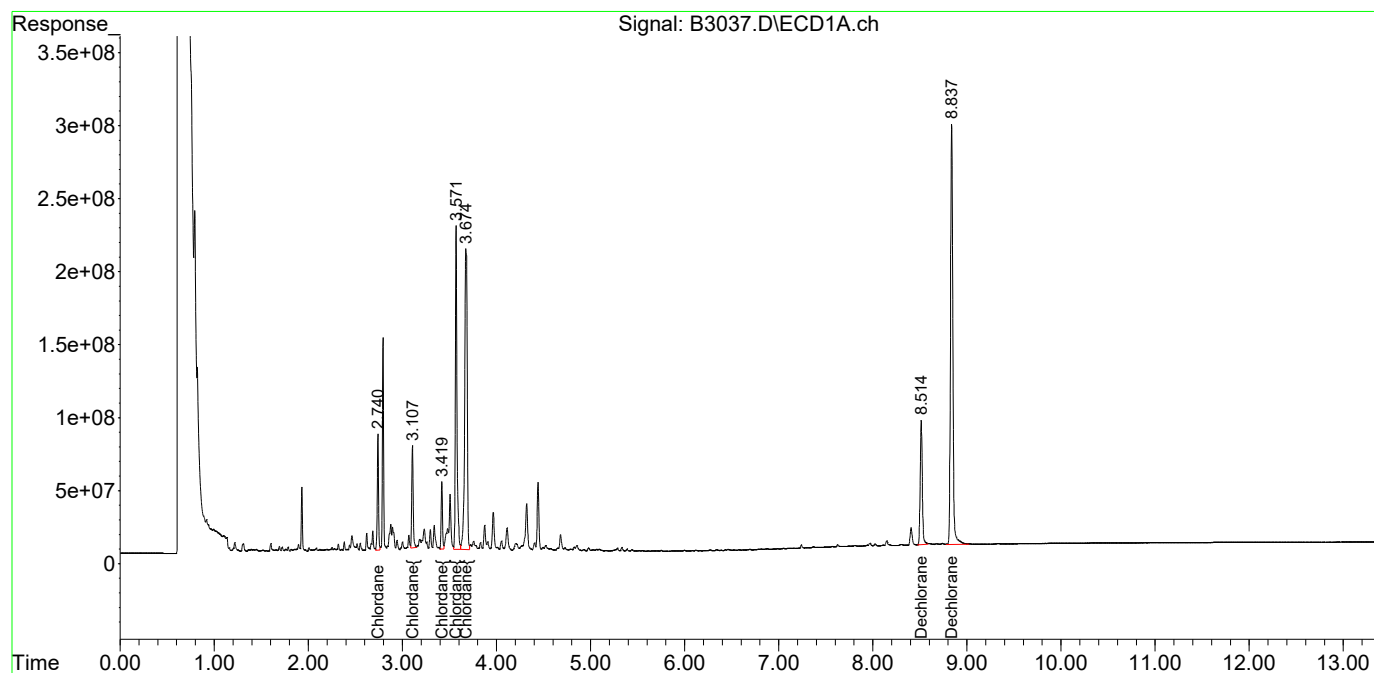
34) L10C Dechloran...	8.514f	9.868f	1328.8E6	367.5E6	44.562m	45.743m
35) L10C Dechloran...	8.837f	10.333f	4941.5E6	1340.2E6	46.545m	46.300m
Sum Dechlorane			6270.3E6	1707.7E6	91.108	92.044
Average Dechlorane					45.554	46.022

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 04:43 pm
Operator : AFelser
Sample : CHLOR M
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:23:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 01 10:28:11 2023
Response via : Initial Calibration
Integrator: ChemStation

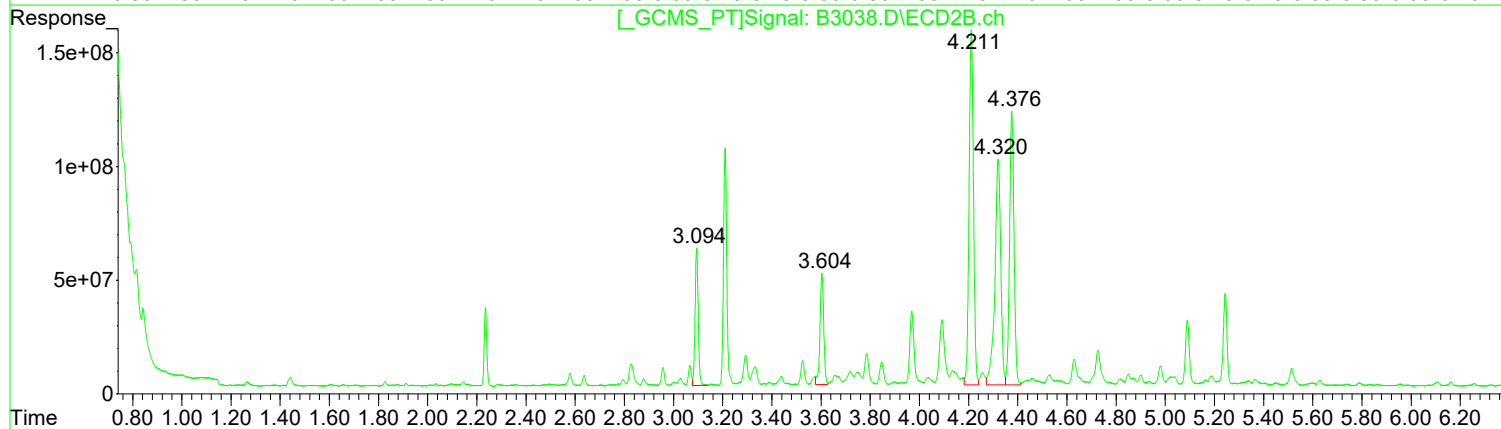
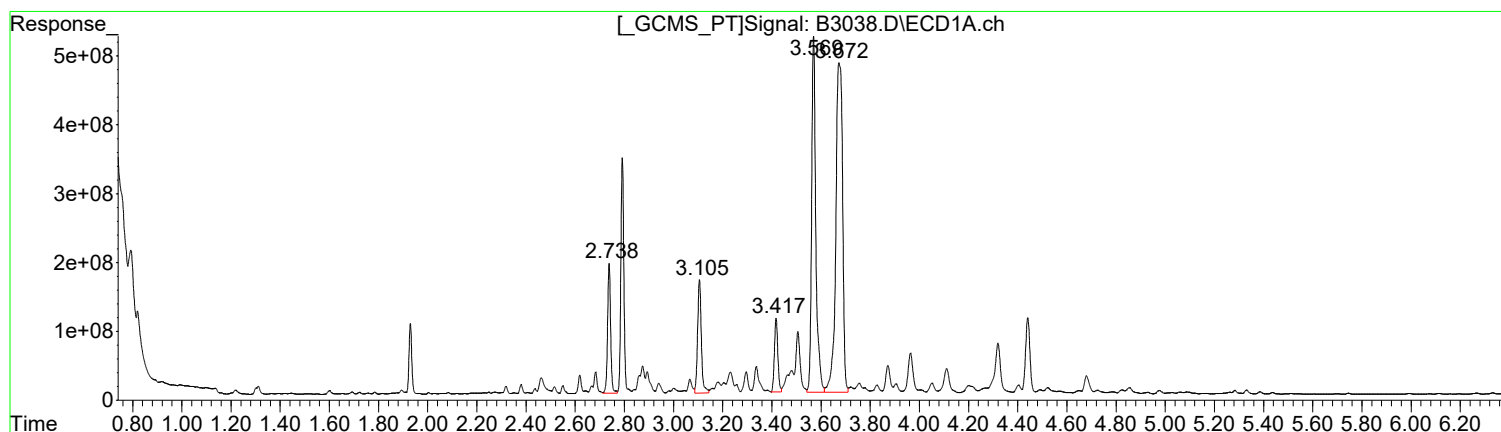
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3038.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 05:01 pm
Operator : AFelser
Sample : CHLOR MH
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:25 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)		
R.T.	Response	Conc
2.74	1624032656	226.72
3.11	1737139042	235.79
3.42	1041450856	228.79
3.57	6132669230	233.23
3.67	9209592444	233.65

Manual Integration:
After
Poor integration.
09/08/23

(29) Chlordane #2 (L9C)		
R.T.	Response	Conc
3.09	536233469	247.27
3.60	521849967	239.62
4.21	1939591562	248.88
4.32	1656621950	247.43
4.38	1523580092	247.31

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3036.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 04:25 pm
 Operator : AFelser
 Sample : CHLOR ML
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:22 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

29) L9C Chlordane	2.740	3.096	383.9E6	110.1E6	53.593	50.748
30) L9C Chlordane{2}	3.107	3.606	391.0E6	113.8E6	53.077	52.255
31) L9C Chlordane{3}	3.419	4.213	231.0E6	394.2E6	50.754	50.582
32) L9C Chlordane{4}	3.571	4.321	1262.1E6	334.7E6	47.998	49.995
33) L9C Chlordane{5}	3.676	4.377	1881.9E6	307.2E6	47.742	49.868
Sum Chlordane			4149.9E6	1260.0E6	253.164	253.447
Average Chlordane					50.633	50.689

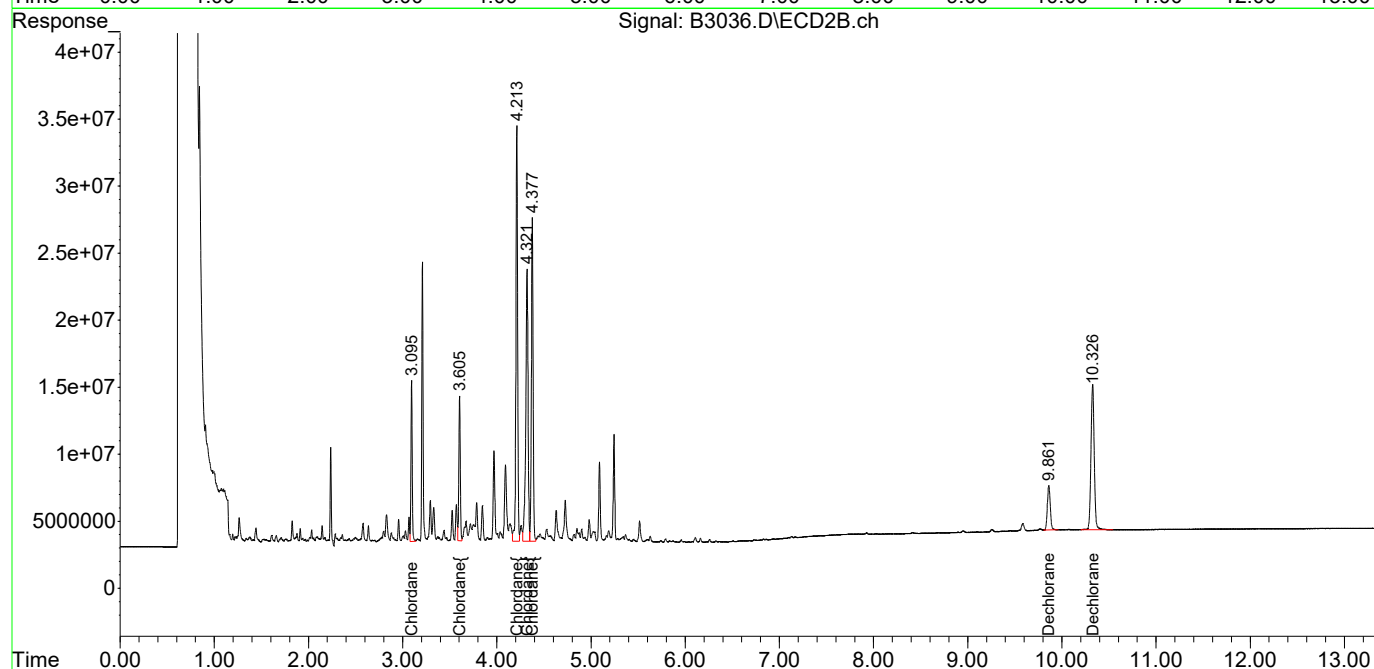
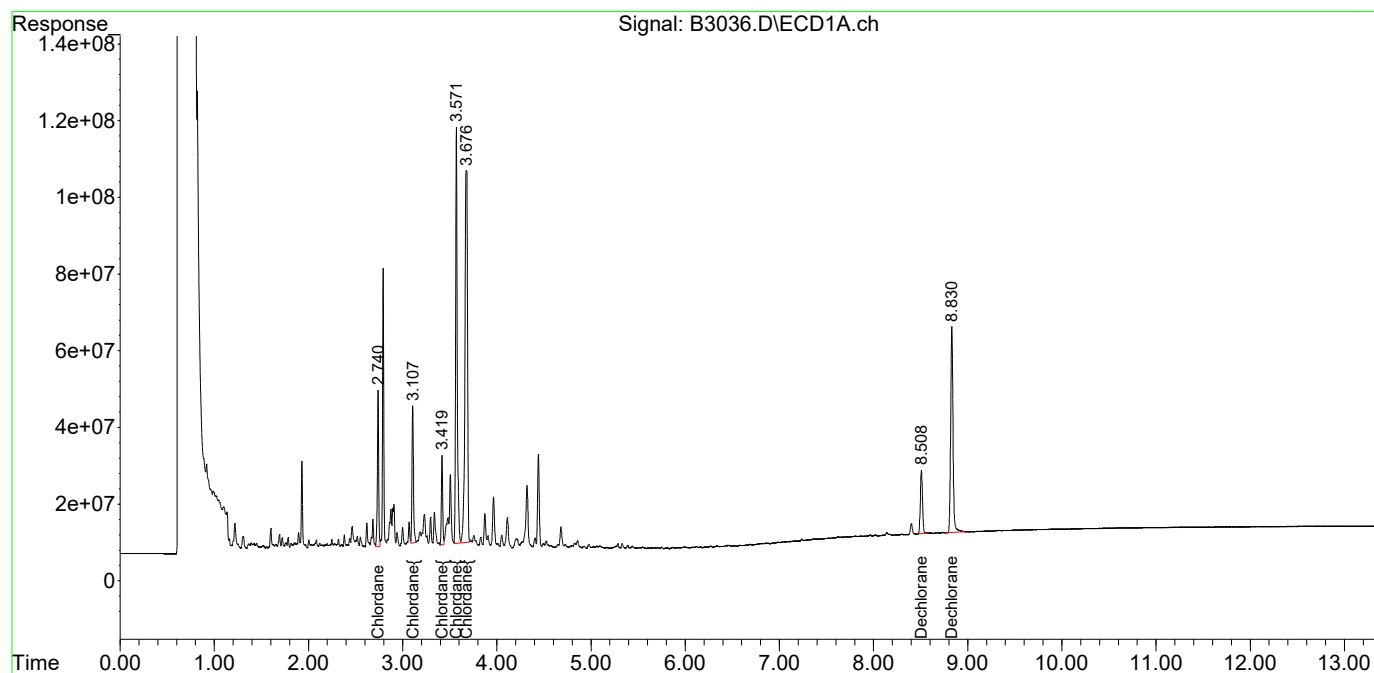
34) L10C Dechloran...	8.508	9.861	259.2E6	71622577	9.752	9.743
35) L10C Dechloran...	8.830	10.327	920.4E6	261.8E6	9.313	9.767
Sum Dechlorane			1179.5E6	333.4E6	19.065	19.511
Average Dechlorane					9.532	9.755

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3036.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 04:25 pm
Operator : AFelser
Sample : CHLOR ML
Misc :
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:22 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

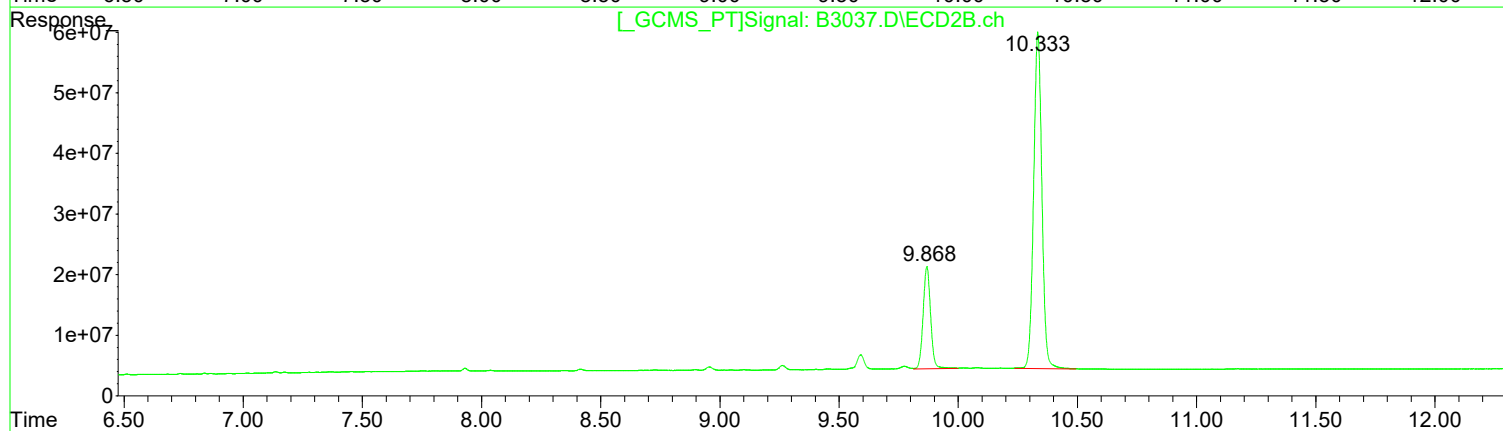
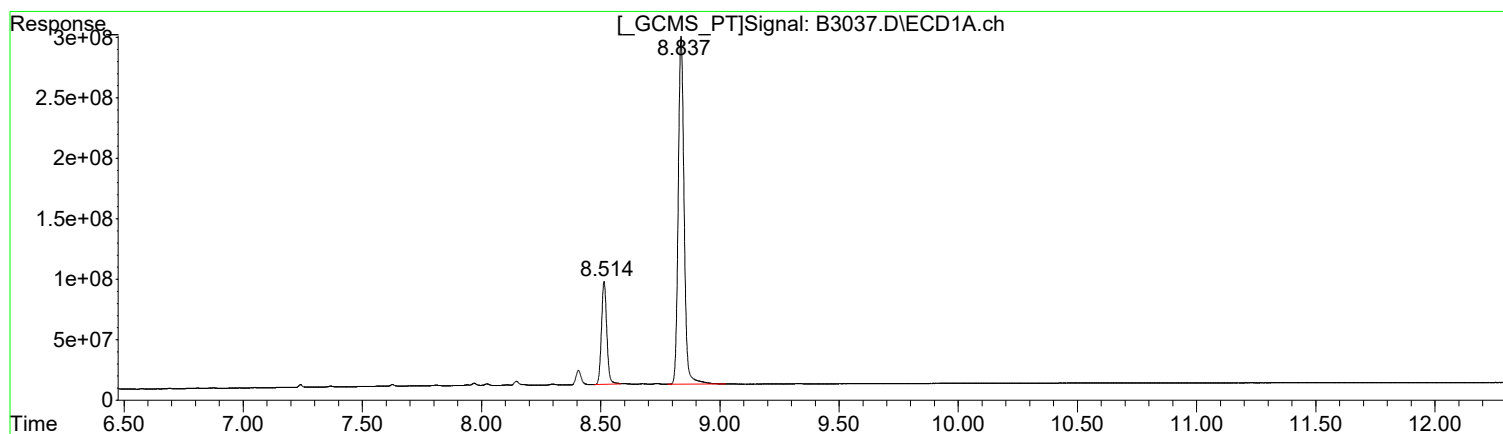
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3037.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 04:43 pm
Operator : AFelser
Sample : CHLOR M
Misc :
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:23:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 01 10:28:11 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(34) Dechlorane{1} (L10C)		
R.T.	Response	Conc
8.51	1328815769	44.56
8.84	4941465842	46.55

(34) Dechlorane{1} #2 (L10C)		
R.T.	Response	Conc
9.87	367546360	45.74
10.33	1340185285	46.30

Manual Integration:
After
Peak not found.
09/08/23

Data Path : I:\ACQUADATA\7890m\DATA\090723\
 Data File : B3035.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 04:07 pm
 Operator : AFelser
 Sample : CHLOR L
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:19 2023
 Quant Method : I:\ACQUADATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

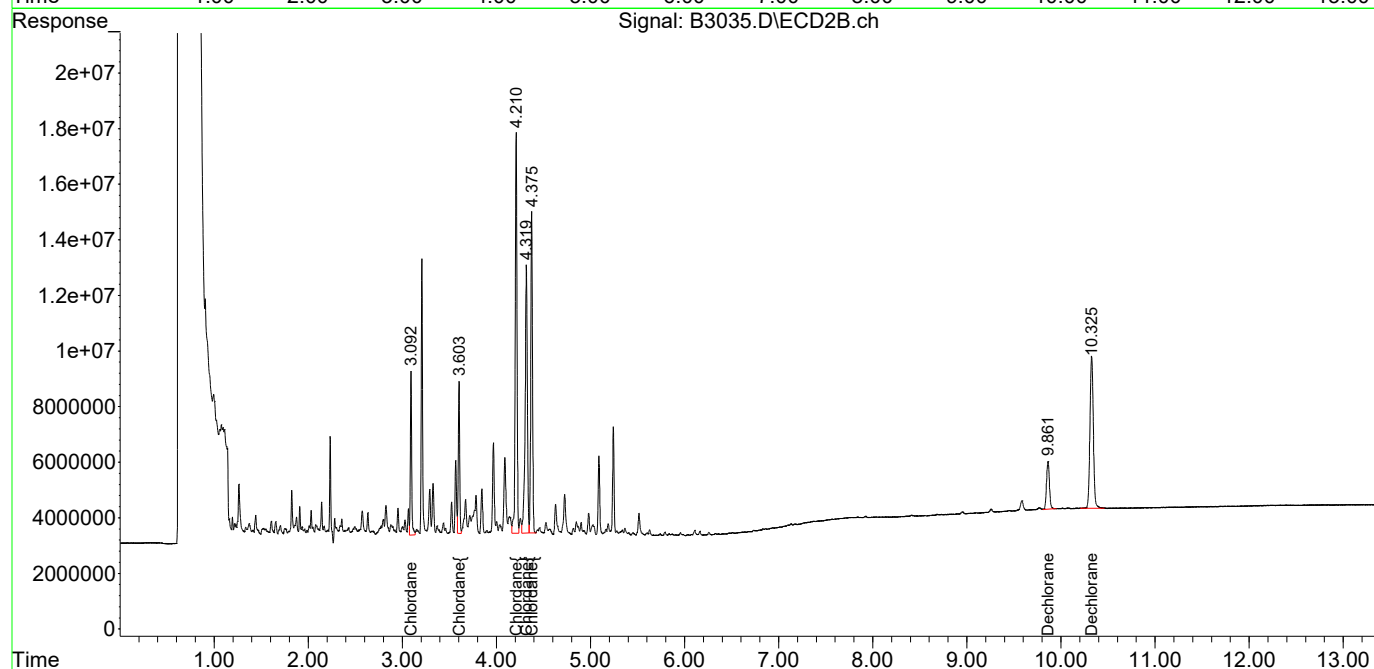
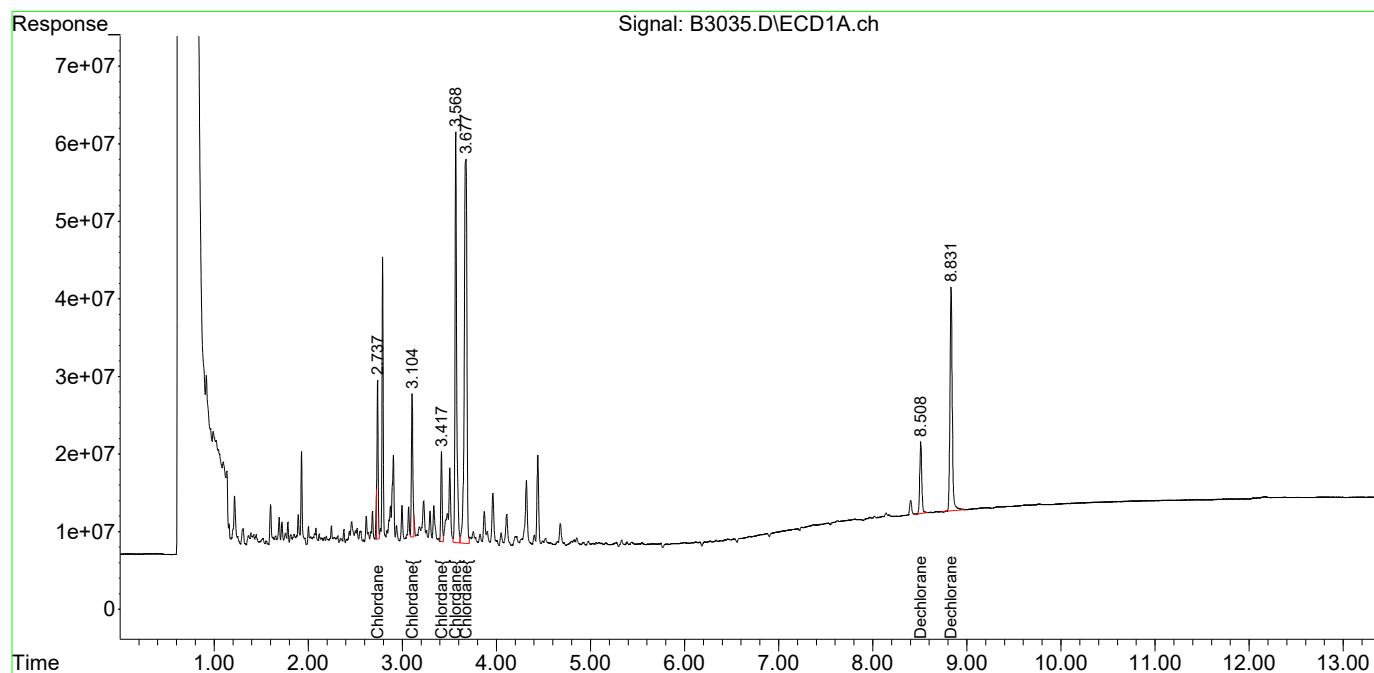
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
29) L9C Chlordane	2.737	3.093	178.9E6	56151776	24.969m	25.893
30) L9C Chlordane{2}	3.104	3.603	198.1E6	57956305	26.889m	26.612
31) L9C Chlordane{3}	3.417	4.211	113.4E6	187.1E6	24.922	24.006
32) L9C Chlordane{4}	3.569	4.319	647.2E6	159.5E6	24.614	23.823
33) L9C Chlordane{5}	3.676	4.375	973.3E6	145.5E6	24.692	23.619
Sum Chlordane			2110.9E6	606.2E6	126.087	123.952
Average Chlordane					25.217	24.790
34) L10C Dechloran...	8.509	9.862	137.5E6	37159414	5.175	5.055
35) L10C Dechloran...	8.832	10.325	490.3E6	135.9E6	4.961	5.071
Sum Dechlorane			627.9E6	173.1E6	10.136	10.126
Average Dechlorane					5.068	5.063

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 04:07 pm
Operator : AFelser
Sample : CHLOR L
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:19 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

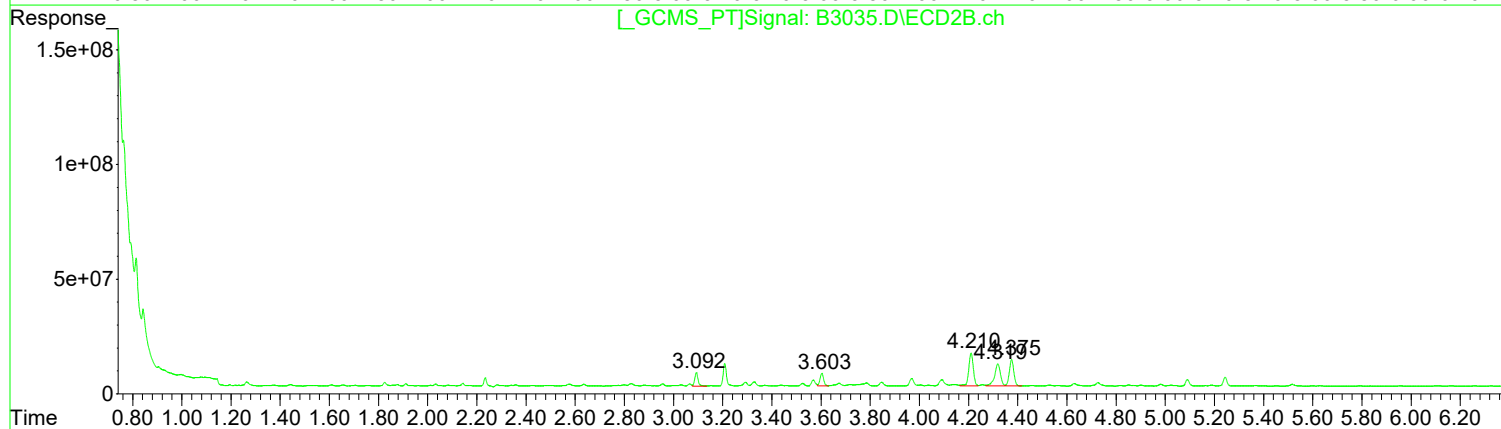
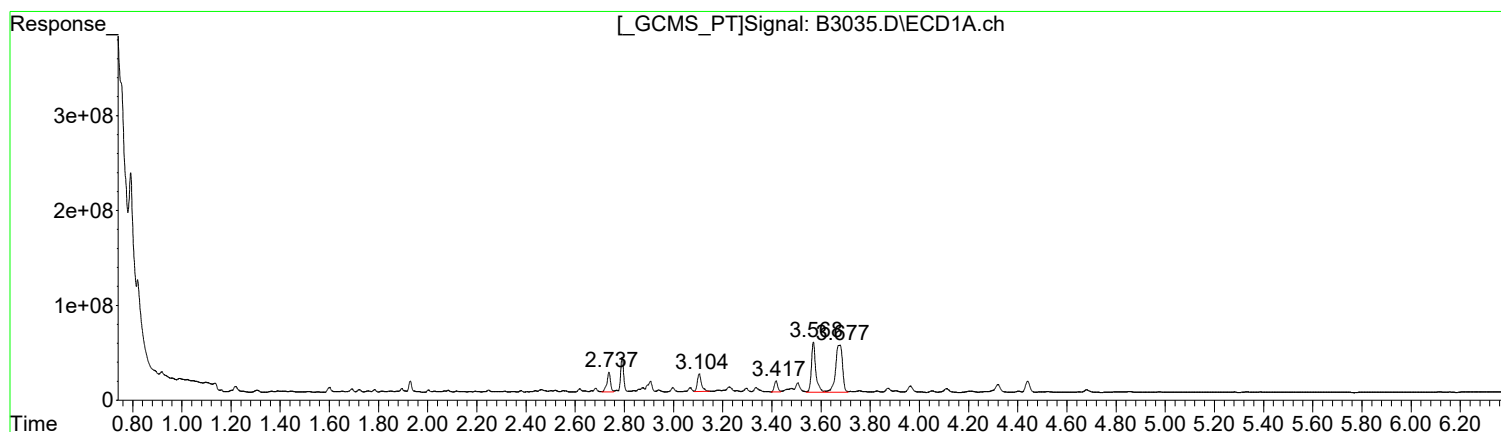
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3035.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 04:07 pm
Operator : AFelser
Sample : CHLOR L
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:19 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)		
R.T.	Response	Conc
2.74	216801862	30.27
3.10	212772852	28.88
3.42	113445839	24.92
3.57	647211992	24.61
3.68	973293129	24.69

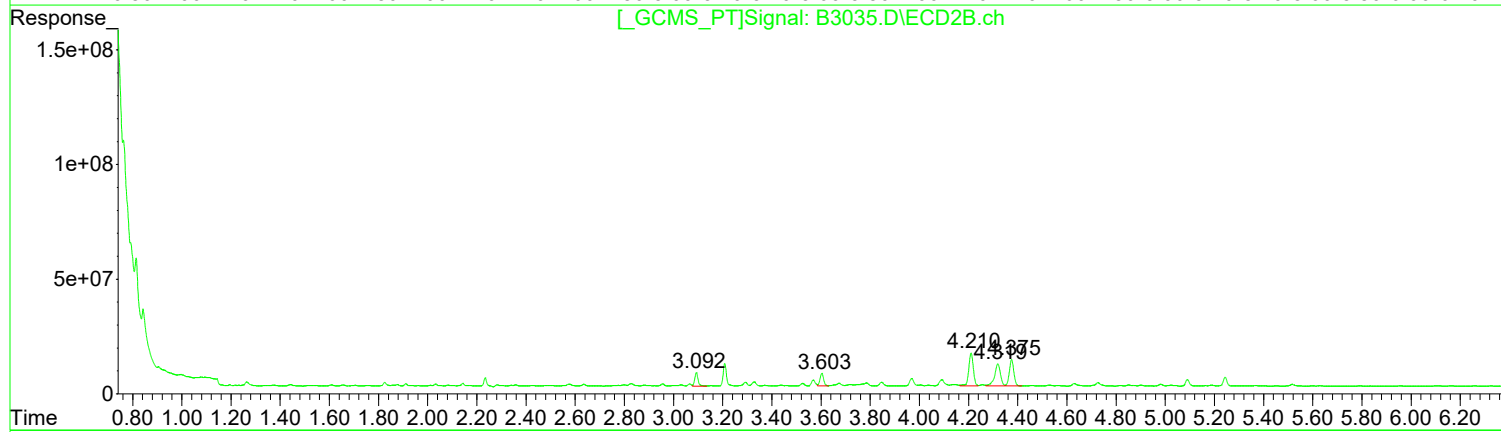
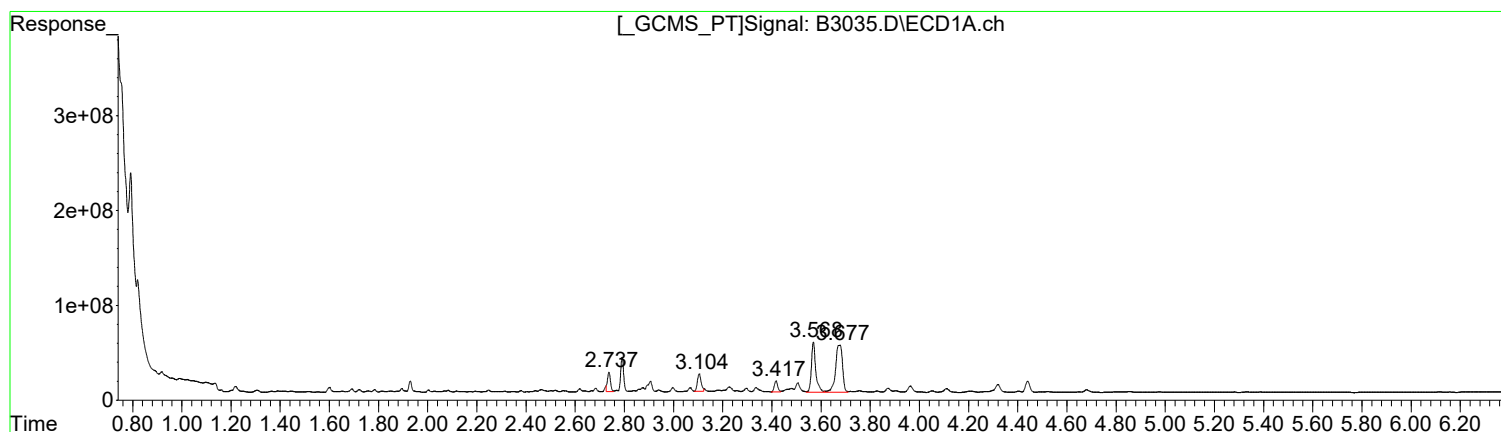
Manual Integration:
Before
09/08/23

(29) Chlordane #2 (L9C)		
R.T.	Response	Conc
3.09	56151776	25.89
3.60	57956305	26.61
4.21	187087472	24.01
4.32	159500772	23.82
4.38	145507941	23.62

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3035.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 04:07 pm
 Operator : AFelser
 Sample : CHLOR L
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:19 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)

R.T.	Response	Conc
2.74	178858832	24.97
3.10	198100093	26.89
3.42	113445839	24.92
3.57	647211992	24.61
3.68	973293129	24.69

Manual Integration:
 After
 Poor integration.
 09/08/23

(29) Chlordane #2 (L9C)

R.T.	Response	Conc
3.09	56151776	25.89
3.60	57956305	26.61
4.21	187087472	24.01
4.32	159500772	23.82
4.38	145507941	23.62

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3034.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 03:50 pm
 Operator : AFelser
 Sample : CHLOR LL
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:16 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

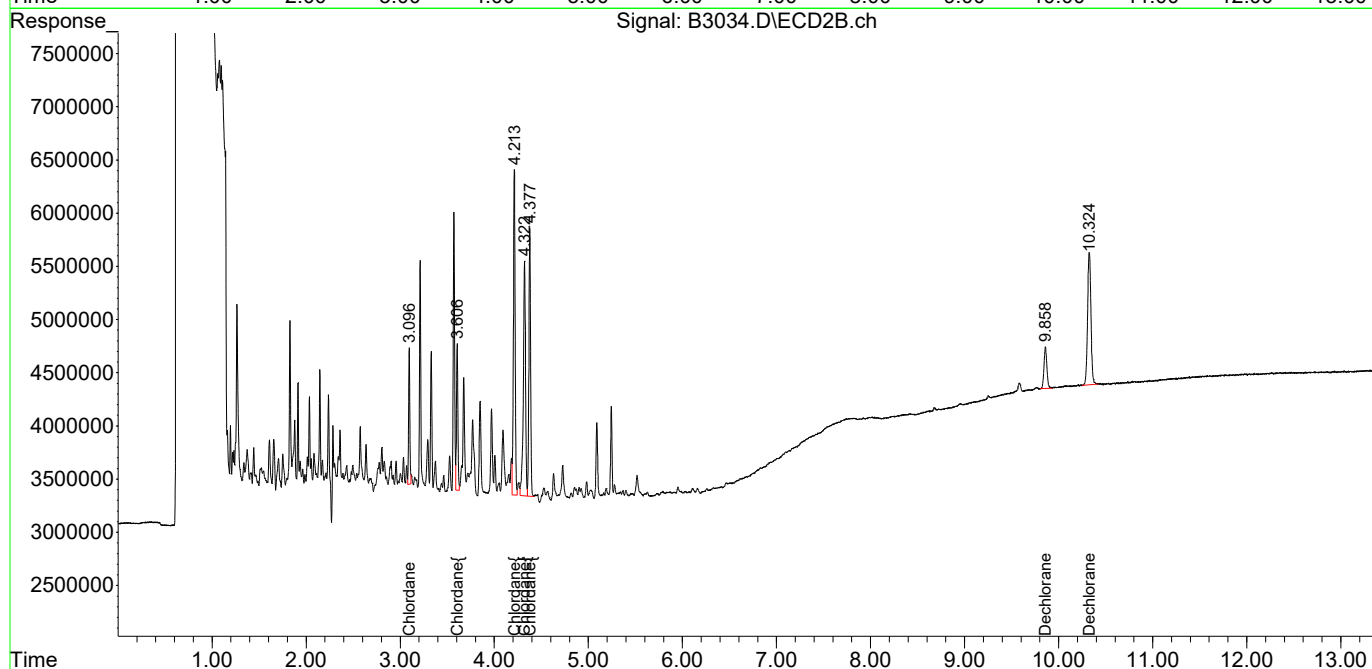
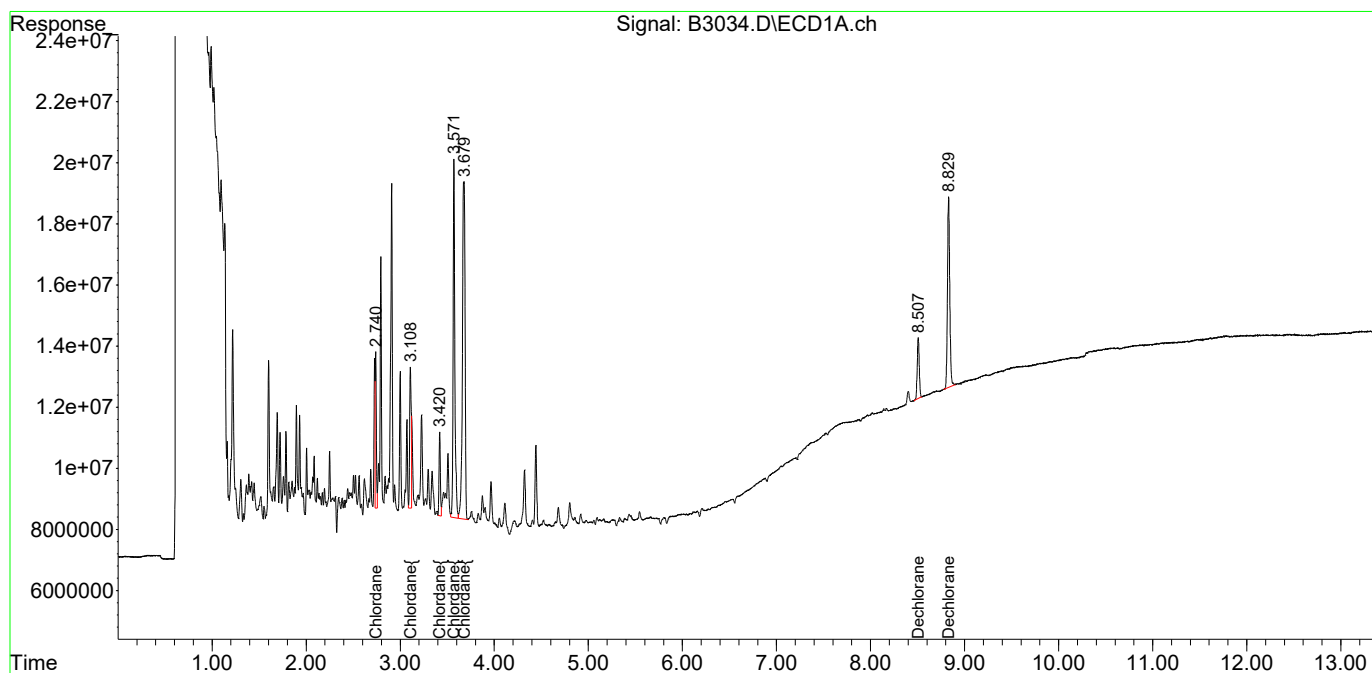
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
29) L9C Chlordane	2.740	3.096	41176152	11669209	5.748m	5.381m
30) L9C Chlordane{2}	3.108	3.606	50343538	14531502	6.833m	6.672m
31) L9C Chlordane{3}	3.420	4.213	26925576	39445443	5.915	5.061
32) L9C Chlordane{4}	3.572	4.322	147.1E6	35722439	5.594	5.335
33) L9C Chlordane{5}	3.679	4.378	218.5E6	31790552	5.545	5.160
Sum Chlordane			484.1E6	133.2E6	29.636	27.610
Average Chlordane					5.927	5.522
34) L10C Dechloran...	8.507	9.858	29906904	8437048	1.125	1.148
35) L10C Dechloran...	8.830	10.324	106.2E6	30895790	1.075	1.153
Sum Dechlorane			136.1E6	39332838	2.200	2.300
Average Dechlorane					1.100	1.150

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 03:50 pm
Operator : AFelser
Sample : CHLOR LL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:16 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

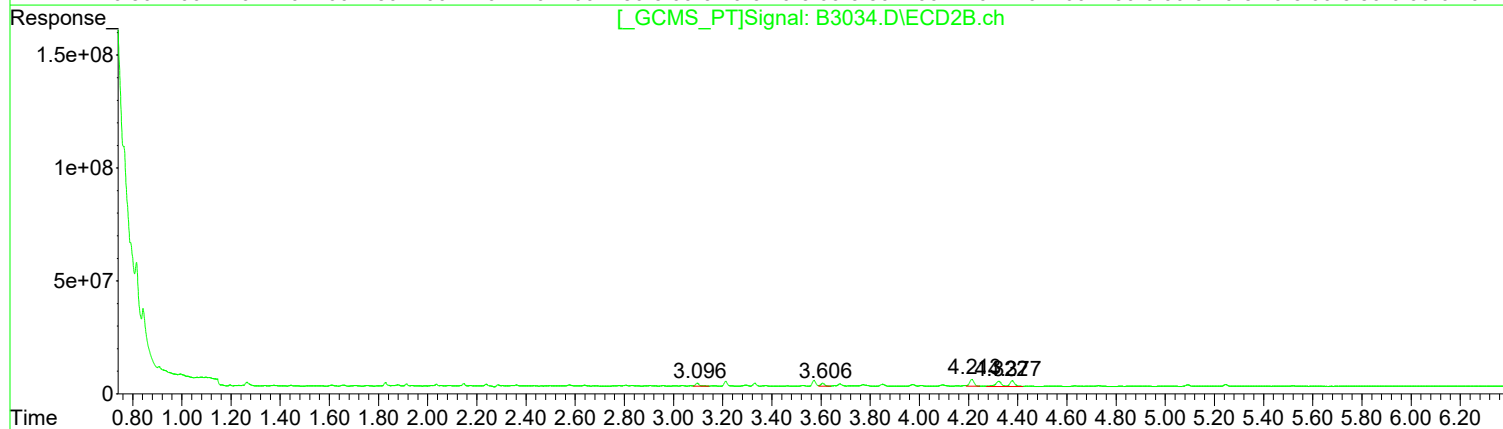
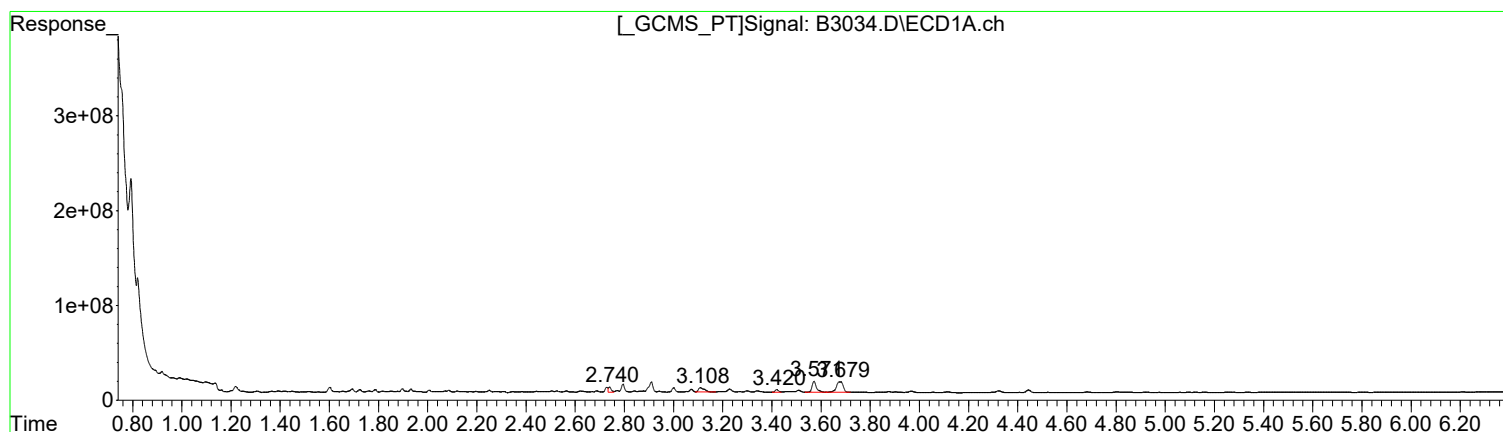
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3034.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 03:50 pm
Operator : AFelser
Sample : CHLOR LL
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:16 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)

R.T.	Response	Conc
2.74	46331944	6.47
3.11	74405902	10.10
3.42	26925576	5.92
3.57	147094919	5.59
3.68	218547921	5.54

Manual Integration:
Before
09/08/23

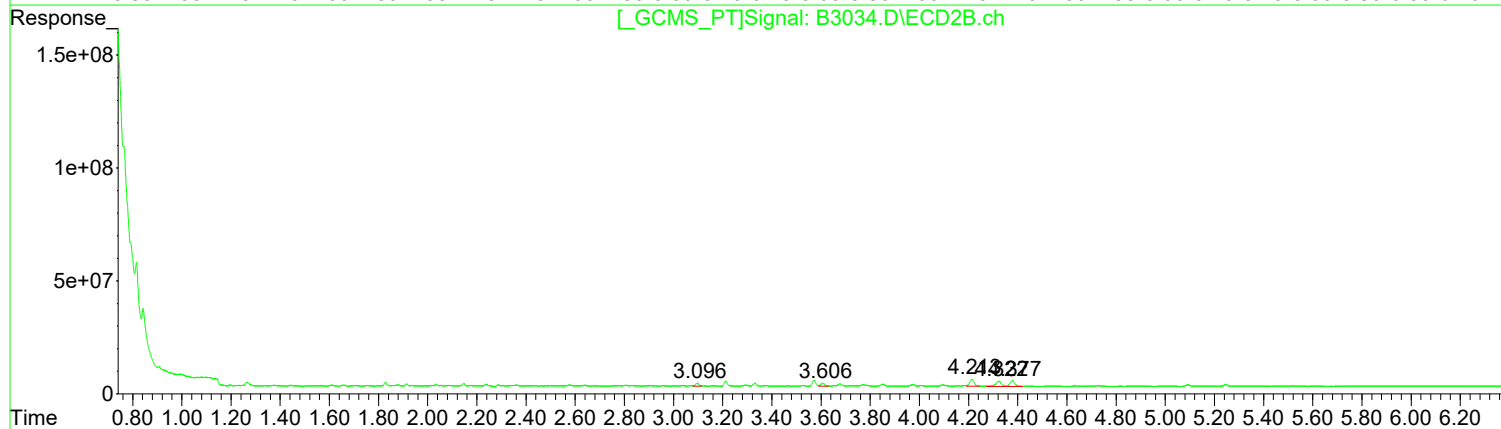
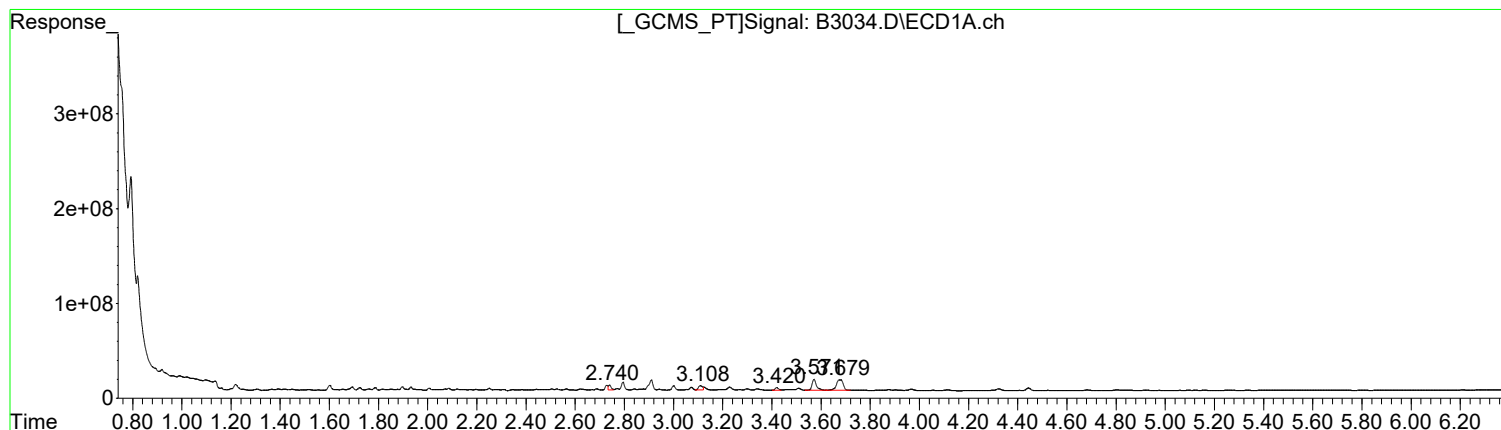
(29) Chlordane #2 (L9C)

R.T.	Response	Conc
3.10	13148869	6.06
3.61	15518643	7.13
4.21	39445443	5.06
4.32	35722439	5.34
4.38	31790552	5.16

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3034.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 03:50 pm
 Operator : AFelser
 Sample : CHLOR LL
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:16 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(29) Chlordane (L9C)

R.T.	Response	Conc
2.74	41176152	5.75
3.11	50343538	6.83
3.42	26925576	5.92
3.57	147094919	5.59
3.68	218547921	5.54

Manual Integration:
 After
 Poor integration.
 09/08/23

(29) Chlordane #2 (L9C)

R.T.	Response	Conc
3.10	11669209	5.38
3.61	14531502	6.67
4.21	39445443	5.06
4.32	35722439	5.34
4.38	31790552	5.16

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3033.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 03:32 pm
 Operator : AFelser
 Sample : TOX ICV
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:55:32 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:55:13 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

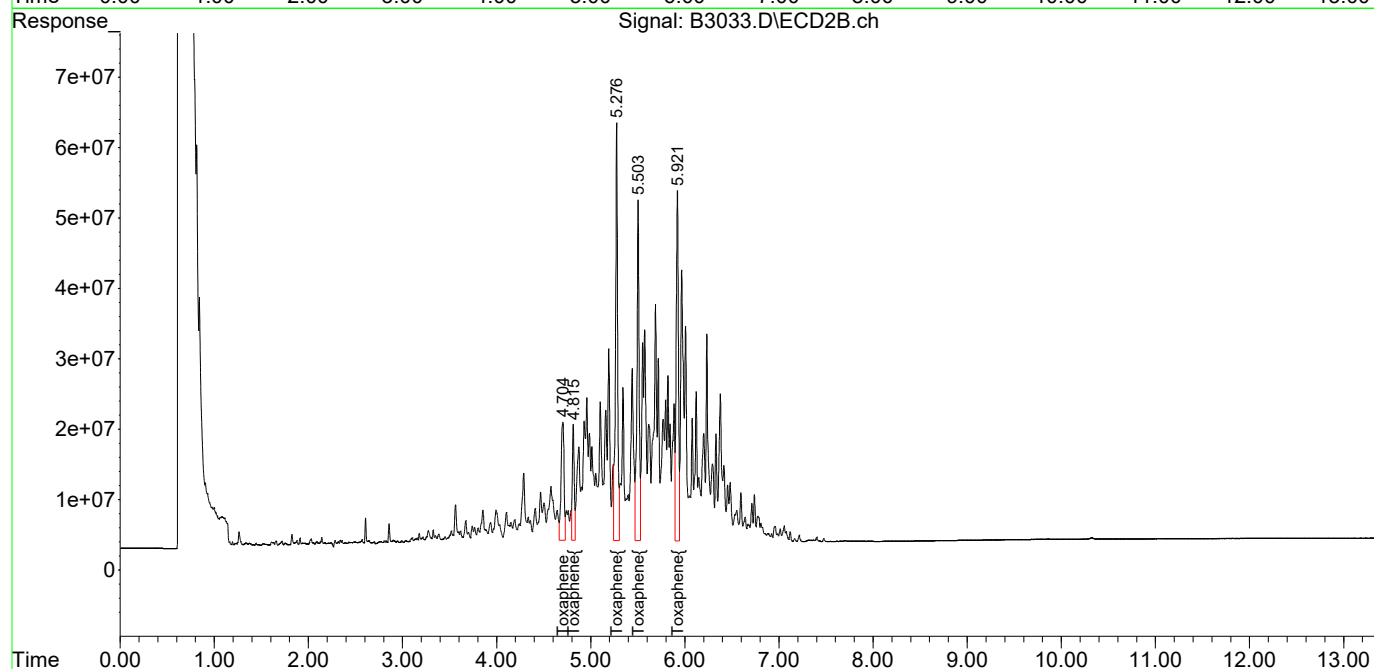
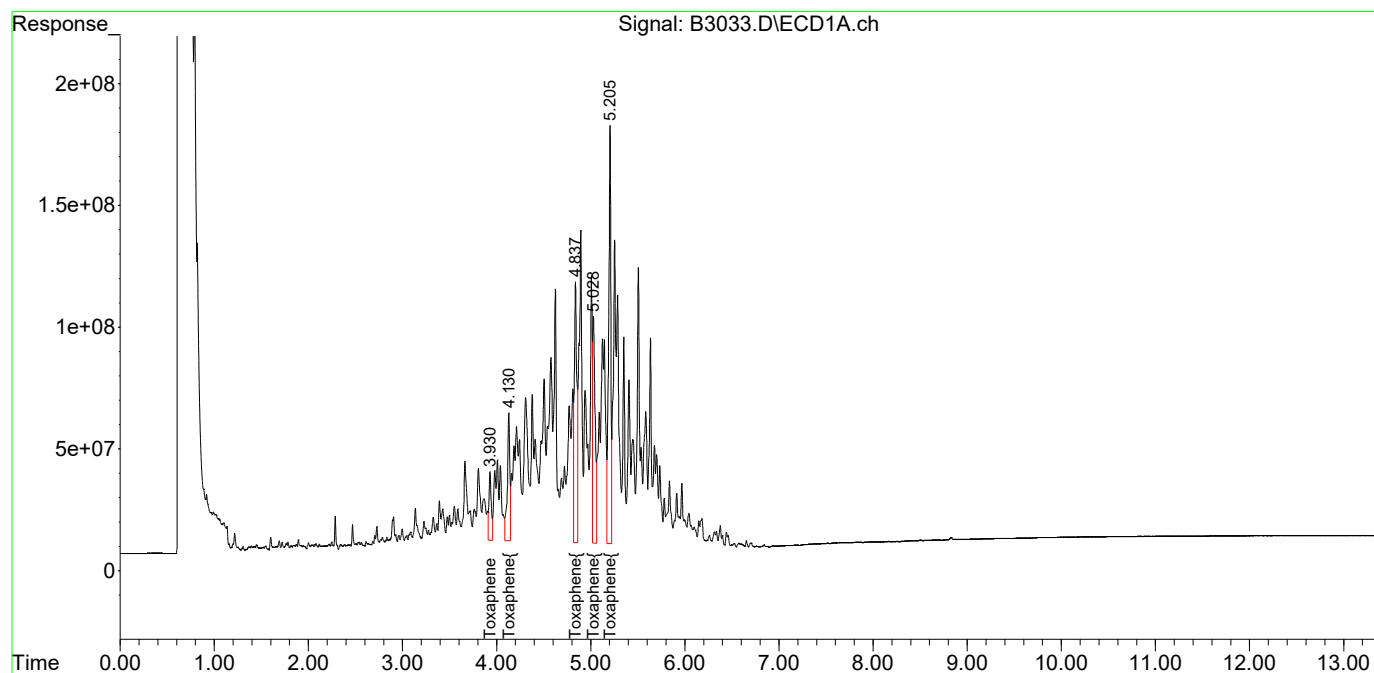
System Monitoring Compounds						
Target Compounds						
24) L8C Toxaphene	3.931	4.705	485.4E6	375.6E6	356.300	389.839
25) L8C Toxaphene{2}	4.130	4.815	975.6E6	225.3E6	406.026	381.368m
26) L8C Toxaphene{3}	4.838	5.276	2016.7E6	934.2E6	391.868	395.088m
27) L8C Toxaphene{4}	5.029	5.503	1636.3E6	792.6E6	332.672	597.111 #
28) L8C Toxaphene{5}	5.206	5.922	2839.6E6	826.4E6	605.034	690.372
Sum Toxaphene			7953.6E6	3154.0E6	2091.899	2453.778
Average Toxaphene					418.380	490.756
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 03:32 pm
Operator : AFelser
Sample : TOX ICV
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:55:32 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:55:13 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 03:32 pm
Operator : AFelser
Sample : TOX ICV
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:55:32 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:55:13 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
24 L8C Toxaphene	250.000	356.300	-42.5#	141	0.00
25 L8C Toxaphene{2}	250.000	406.026	-62.4#	159	0.00
26 L8C Toxaphene{3}	250.000	391.868	-56.7#	156	0.00
27 L8C Toxaphene{4}	250.000	332.672	-33.1#	134	0.00
28 L8C Toxaphene{5}	250.000	605.034	-142.0#	251	0.00

Signal #2

24 L8C Toxaphene	250.000	389.839	-55.9#	155	0.00
25 L8C Toxaphene{2}	250.000	381.368	-52.5#	148	0.00
26 L8C Toxaphene{3}	250.000	395.088	-58.0#	158	0.00
27 L8C Toxaphene{4}	250.000	597.111	-138.8#	238	0.00
28 L8C Toxaphene{5}	250.000	690.372	-176.1#	275	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-1.96#
2 tc alpha-BHC	10.000	0.000	100.0#	0	-2.29#
3 tcm gamma-BHC (L	10.000	0.000	100.0#	0	-2.48#
4 tcm Heptachlor	10.000	0.000	100.0#	0	-2.79#
5 tcm Aldrin	10.000	0.000	100.0#	0	-3.00#
6 tc beta-BHC	10.000	0.000	100.0#	0	-2.54#
7 TC delta-BHC	10.000	0.000	100.0#	0	-2.65#
8 tc Heptachlor E	10.000	0.000	100.0#	0	-3.47#
9 tc alpha-Endosu	10.000	0.000	100.0#	0	-3.80#
10 tc gamma-Chlord	10.000	0.000	100.0#	0	-3.57#
11 tc alpha-Chlord	10.000	0.000	100.0#	0	-3.68#
12 tc 4,4'-DDE	10.000	0.000	100.0#	0	-3.76#
13 tcm Dieldrin	10.000	0.000	100.0#	0	-4.03#
14 tcm Endrin	10.000	0.000	100.0#	0	-4.28#
15 tc beta-Endosul	10.000	0.000	100.0#	0	-4.51#
16 tc 4,4'-DDD	10.000	0.000	100.0#	0	-4.37#
17 tcm 4,4'-DDT	10.000	0.000	100.0#	0	-4.66#
18 tc Endrin Aldeh	10.000	0.000	100.0#	0	-4.92#
19 tc Endosulfan S	10.000	0.000	100.0#	0	-5.30#
20 tc Methoxychlor	10.000	0.000	100.0#	0	-5.12#
21 tc Endrin Keton	10.000	0.000	100.0#	0	-5.52#
22 tc Mirex	10.000	0.000	100.0#	0	-5.19#
23 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.33#
29 L9C Chlordane	50.000	0.000	100.0#	0	-2.74#
30 L9C Chlordane{2}	50.000	0.000	100.0#	0	-3.11#
31 L9C Chlordane{3}	50.000	0.000	100.0#	0	-3.42#
32 L9C Chlordane{4}	50.000	0.000	100.0#	0	-3.57#
33 L9C Chlordane{5}	50.000	0.000	100.0#	0	-3.68#

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3033.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 03:32 pm
 Operator : AFelser
 Sample : TOX ICV
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:55:32 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:55:13 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
34 L10CDechlorane{1}	10.000	0.000	100.0#	0	-8.51#
35 L10CDechlorane{2}	10.000	0.000	100.0#	0	-8.84#

Signal #2

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-2.21#
2 tc alpha-BHC	10.000	0.000	100.0#	0	-2.61#
3 tcm gamma-BHC (L	10.000	0.000	100.0#	0	-2.87#
4 tcm Heptachlor	10.000	0.000	100.0#	0	-3.21#
5 tcm Aldrin	10.000	0.000	100.0#	0	-3.48#
6 tc beta-BHC	10.000	0.000	100.0#	0	-2.92#
7 tc delta-BHC	10.000	0.000	100.0#	0	-3.15#
8 tc Heptachlor E	10.000	0.000	100.0#	0	-4.01#
9 tc alpha-Endosu	10.000	0.000	100.0#	0	-4.38#
10 tc gamma-Chlord	10.000	0.000	100.0#	0	-4.21#
11 tc alpha-Chlord	10.000	0.000	100.0#	0	-4.44#
12 tc 4,4'-DDE	10.000	0.000	100.0#	0	-4.56#
13 tcm Dieldrin	10.000	0.000	100.0#	0	-4.72#
14 tcm Endrin	10.000	0.000	100.0#	0	-5.01#
15 tc beta-Endosul	10.000	0.000	100.0#	0	-5.20#
16 tc 4,4'-DDD	10.000	0.000	100.0#	0	-5.12#
17 tcm 4,4'-DDT	10.000	0.000	100.0#	0	-5.40#
18 tc Endrin Aldeh	10.000	0.000	100.0#	0	-5.49#
19 tc Endosulfan S	10.000	0.000	100.0#	0	-5.73#
20 tc Methoxychlor	10.000	0.000	100.0#	0	-5.97#
21 tc Endrin Keton	10.000	0.000	100.0#	0	-6.15#
22 tc Mirex	10.000	0.000	100.0#	0	-6.13#
23 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-7.09#
29 L9C Chlordane	50.000	0.000	100.0#	0	-3.10#
30 L9C Chlordane{2}	50.000	0.000	100.0#	0	-3.61#
31 L9C Chlordane{3}	50.000	0.000	100.0#	0	-4.21#
32 L9C Chlordane{4}	50.000	0.000	100.0#	0	-4.32#
33 L9C Chlordane{5}	50.000	0.000	100.0#	0	-4.38#
34 L10CDechlorane{1}	10.000	0.000	100.0#	0	-9.87#
35 L10CDechlorane{2}	10.000	0.000	100.0#	0	-10.33#

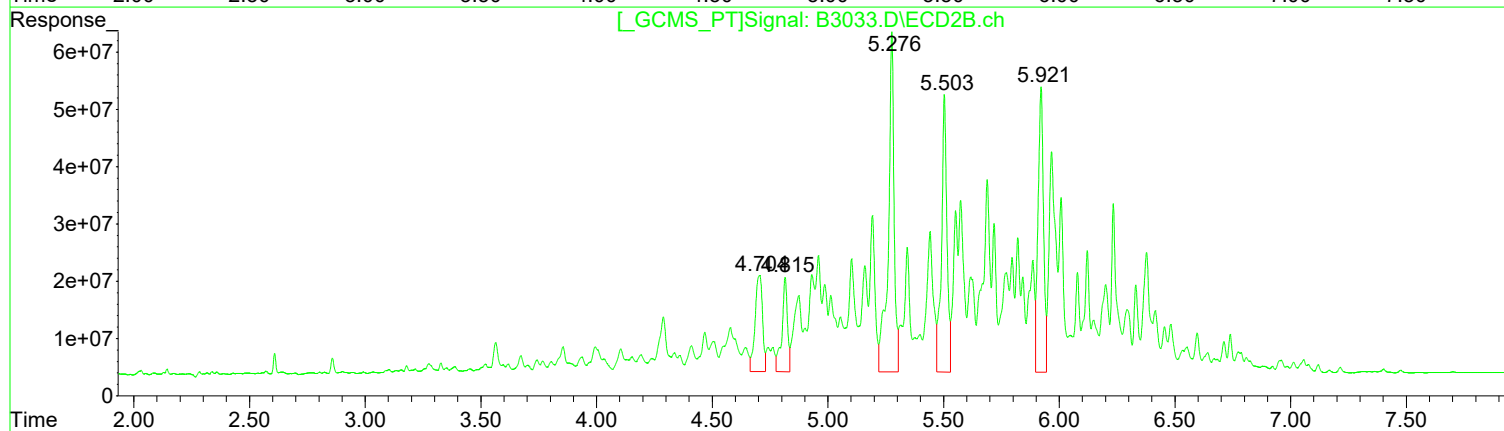
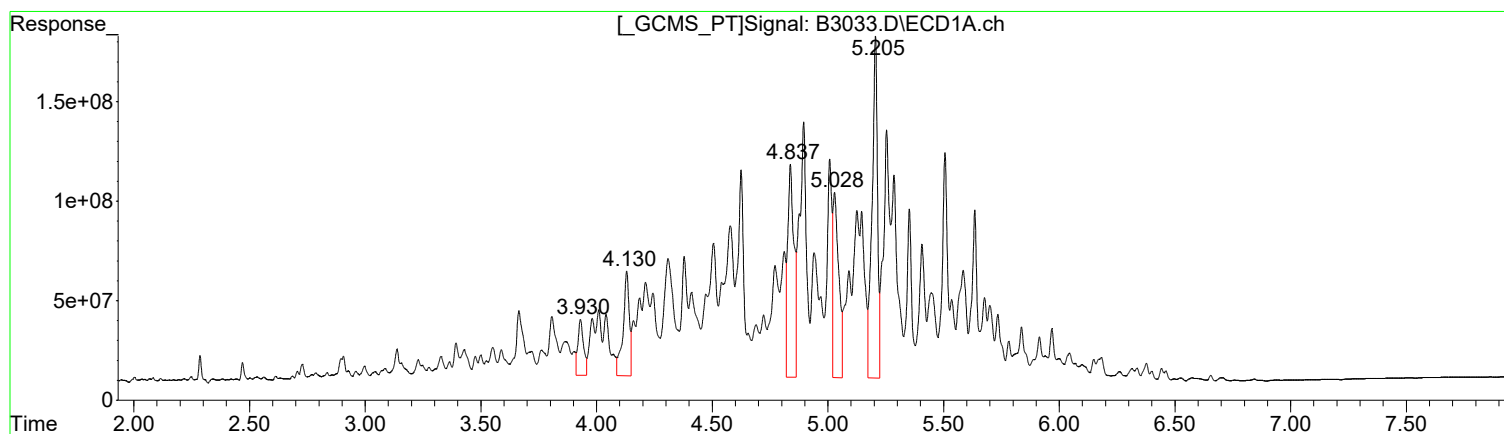
(#) = Out of Range

SPCC's out = 0 CCC's out = 66

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 03:32 pm
Operator : AFelser
Sample : TOX ICV
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:55:32 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:55:13 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)			
R.T.	Response	Conc	
3.93	485429583	356.30	
4.13	975617344	406.03	
4.84	2016743521	391.87	
5.03	1636293043	332.67	
5.21	2839558437	605.03	

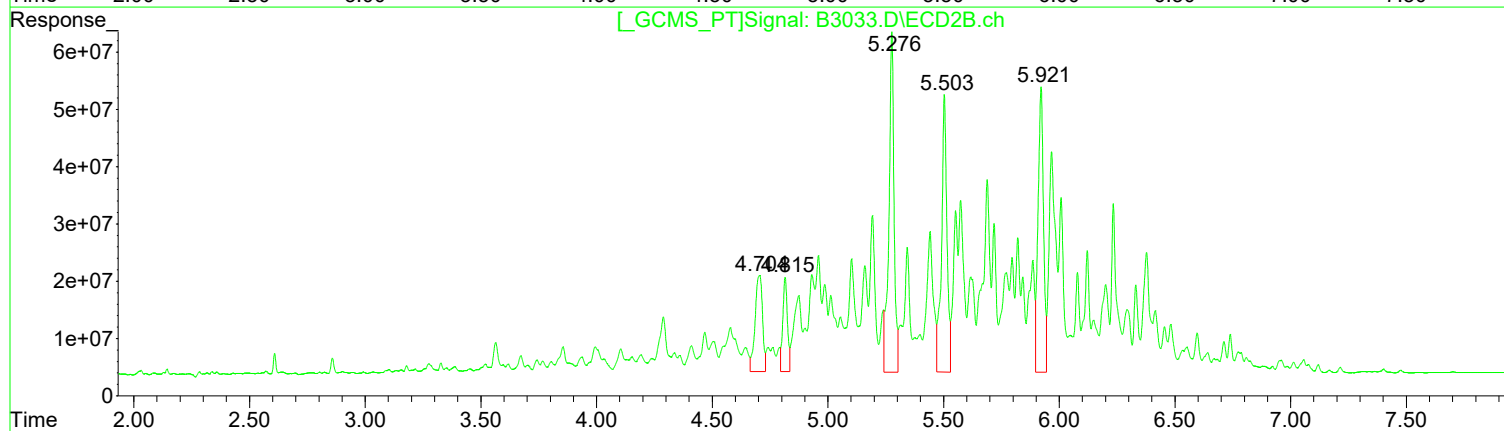
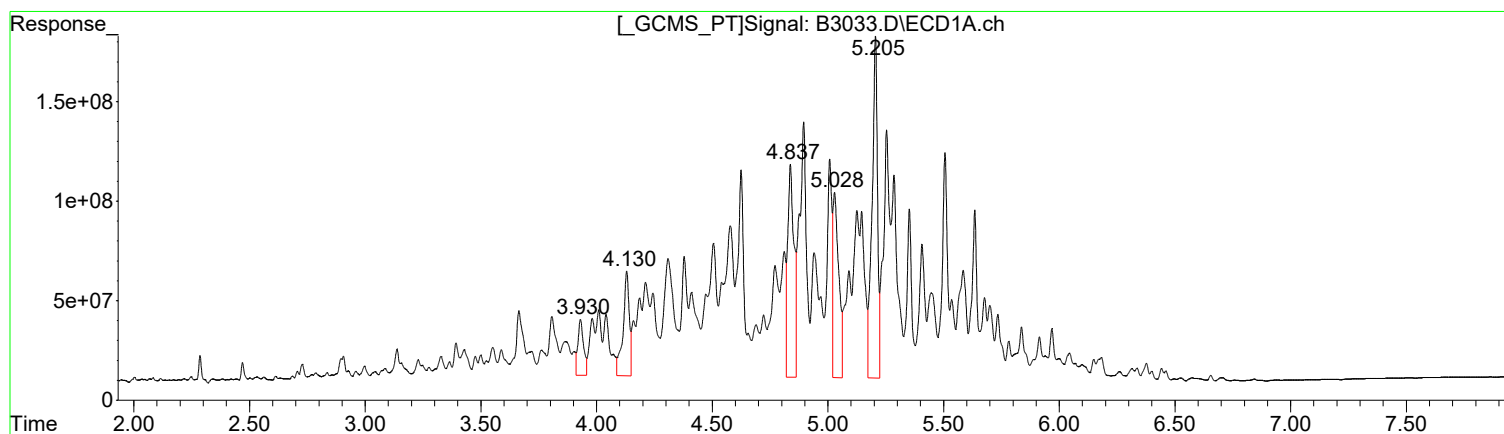
Manual Integration:
Before
09/08/23

(24) Toxaphene #2 (L8C)			
R.T.	Response	Conc	
4.70	375558384	389.84	
4.82	275071459	465.65	
5.28	1043624001	441.38	
5.50	792573879	597.11	
5.92	826437990	690.37	

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3033.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 03:32 pm
Operator : AFelser
Sample : TOX ICV
Misc :
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:55:32 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:55:13 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)			
R.T.	Response	Conc	
3.93	485429583	356.30	
4.13	975617344	406.03	
4.84	2016743521	391.87	
5.03	1636293043	332.67	
5.21	2839558437	605.03	

(24) Toxaphene #2 (L8C)			
R.T.	Response	Conc	
4.70	375558384	389.84	
4.81	225283221	381.37	
5.28	934170449	395.09	
5.50	792573879	597.11	
5.92	826437990	690.37	

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3031.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 02:56 pm
 Operator : AFelser
 Sample : TOX M
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:22:02 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 01 10:28:11 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

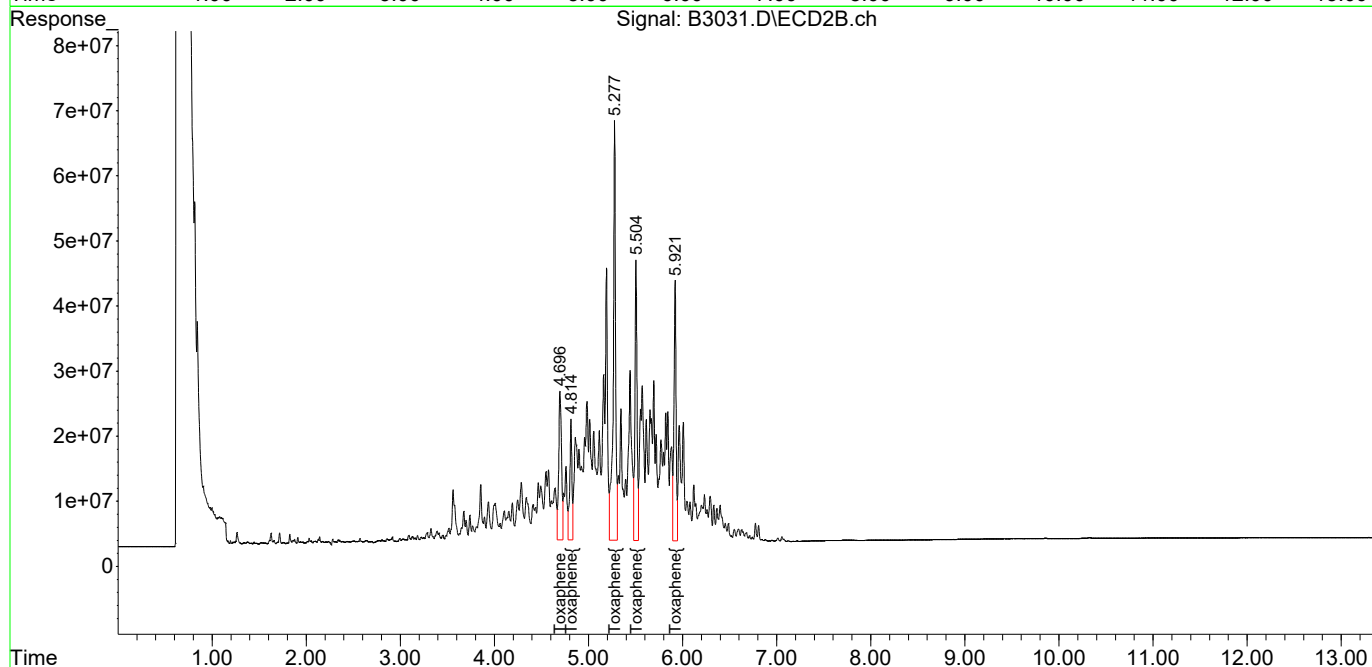
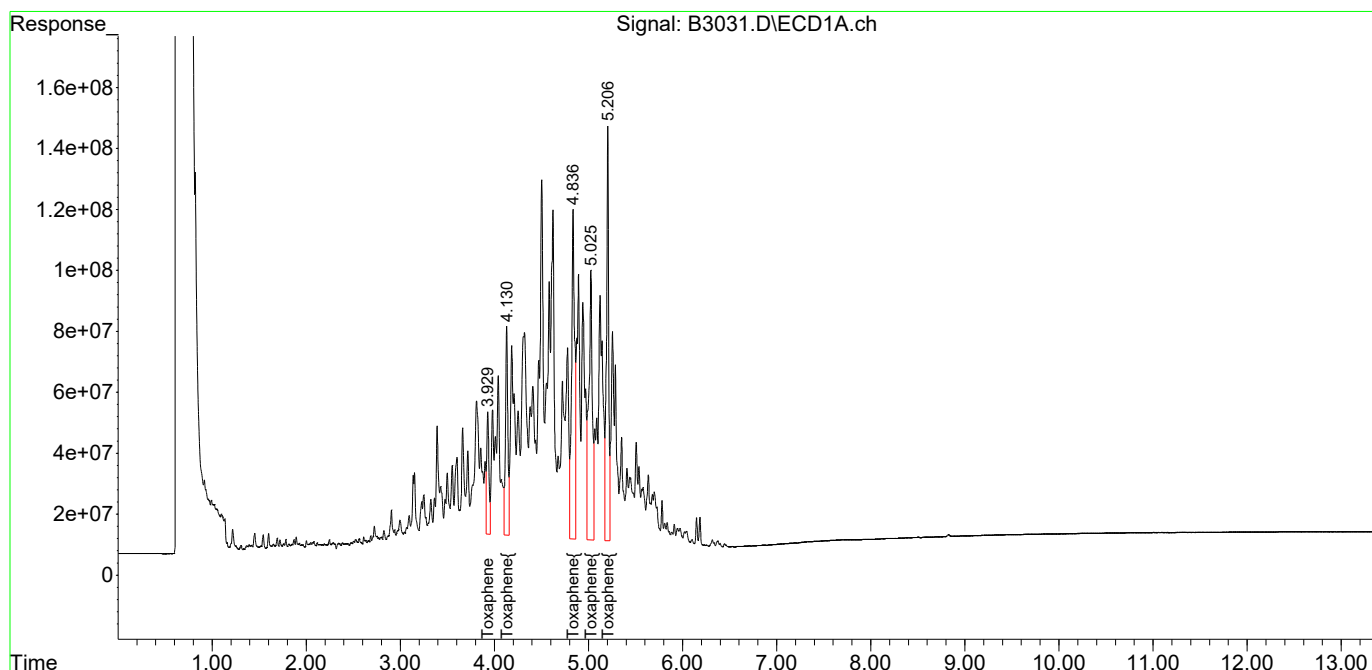
System Monitoring Compounds						
Target Compounds						
24) L8C Toxaphene	3.930	4.697	673.4E6	481.1E6	437.129	372.370
25) L8C Toxaphene{2}	4.131	4.814	1194.9E6	308.2E6	436.564	412.146
26) L8C Toxaphene{3}	4.837	5.277	2504.3E6	1177.3E6	387.911	380.867
27) L8C Toxaphene{4}	5.026	5.505	2373.1E6	671.8E6	378.684	387.559
28) L8C Toxaphene{5}	5.206	5.921	2241.4E6	608.4E6	391.627	384.711
Sum Toxaphene			8987.1E6	3246.8E6	2031.914	1937.653
Average Toxaphene					406.383	387.531
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 02:56 pm
Operator : AFelser
Sample : TOX M
Misc :
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:22:02 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 01 10:28:11 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3032.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 03:14 pm
 Operator : AFelser
 Sample : TOX MH
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:13 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

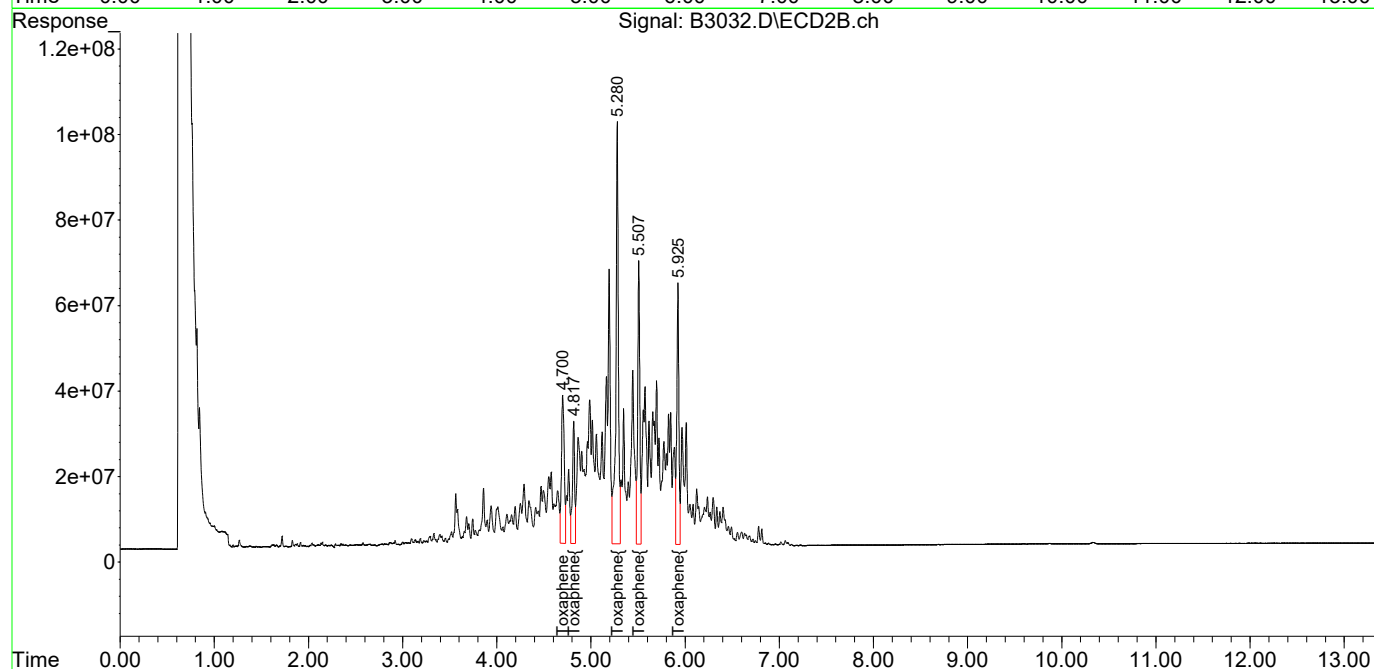
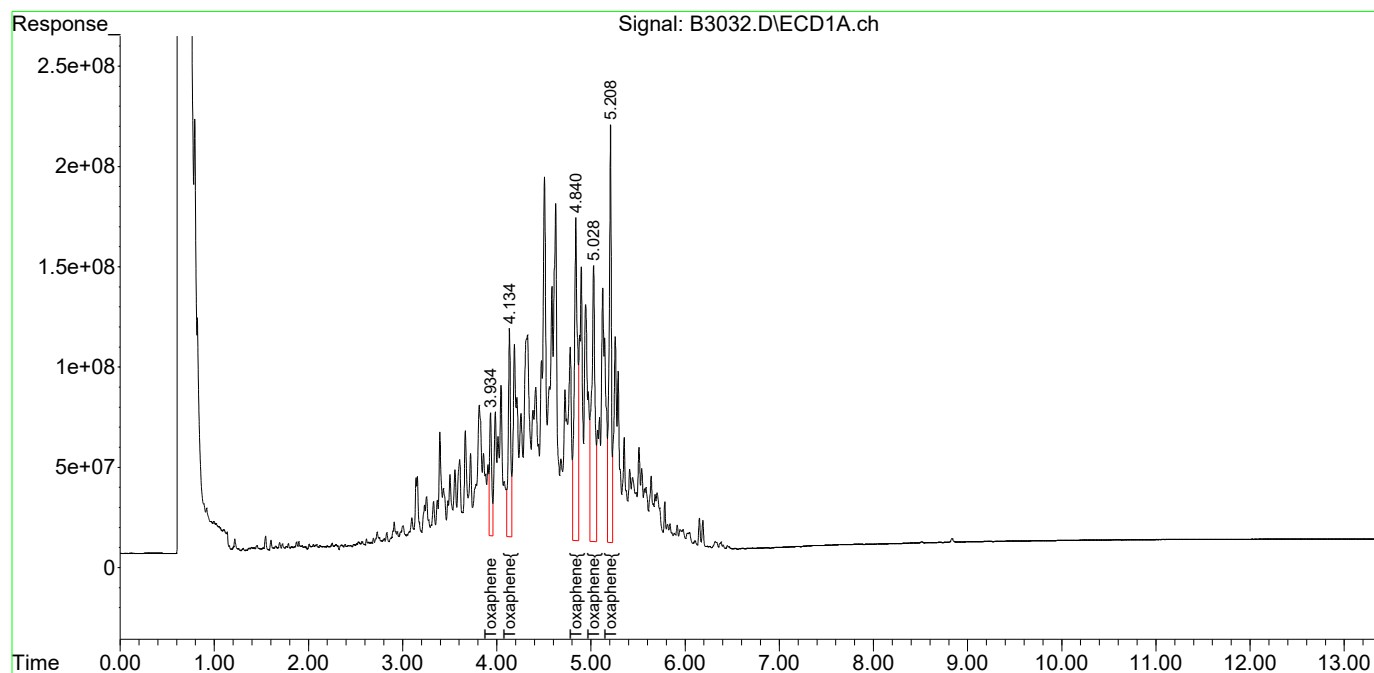
System Monitoring Compounds						
Target Compounds						
24) L8C Toxaphene	3.934	4.700	1003.5E6	736.9E6	745.093	765.808
25) L8C Toxaphene{2}	4.135	4.817	1819.3E6	475.0E6	761.267	770.669
26) L8C Toxaphene{3}	4.840	5.280	3834.5E6	1815.8E6	765.594	771.161
27) L8C Toxaphene{4}	5.029	5.508	3597.4E6	1048.4E6	757.980	780.284
28) L8C Toxaphene{5}	5.208	5.925	3421.5E6	941.8E6	763.234	774.047
Sum Toxaphene			13676.3E6	5017.9E6	3793.168	3861.969
Average Toxaphene					758.634	772.394
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 03:14 pm
Operator : AFelser
Sample : TOX MH
Misc :
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:13 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3030.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 02:38 pm
 Operator : AFelser
 Sample : TOX ML
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:10 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

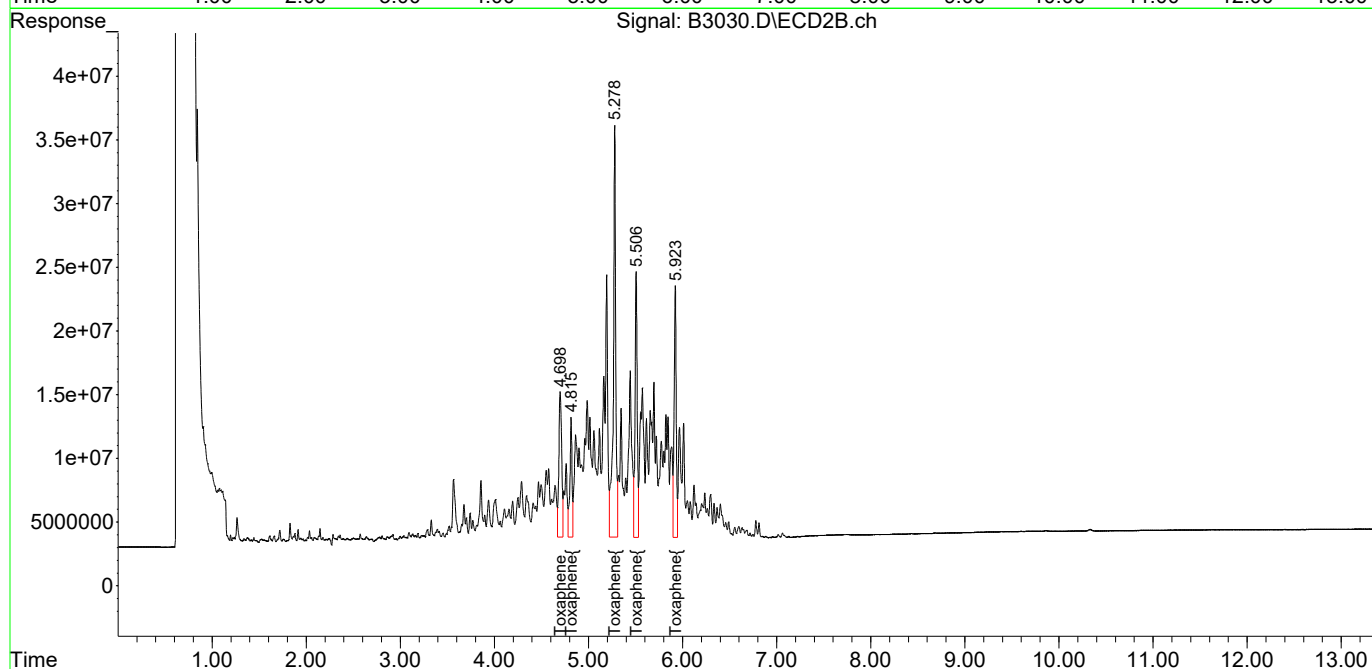
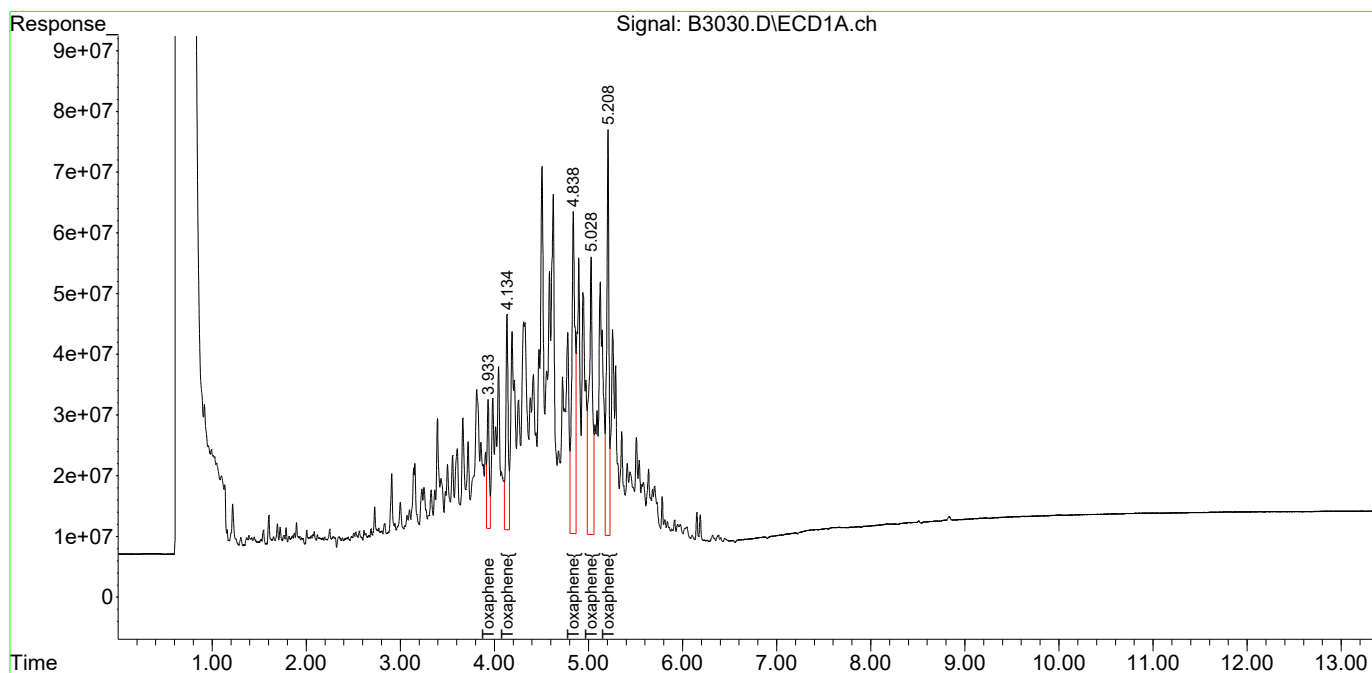
24) L8C Toxaphene	3.934	4.699	344.9E6	243.0E6	256.068	252.570
25) L8C Toxaphene{2}	4.134	4.815	614.6E6	152.5E6	257.169	247.378
26) L8C Toxaphene{3}	4.839	5.279	1295.3E6	591.2E6	258.628	251.092
27) L8C Toxaphene{4}	5.028	5.506	1217.5E6	332.3E6	256.522	247.350
28) L8C Toxaphene{5}	5.209	5.923	1129.8E6	300.1E6	252.025	246.655
Sum Toxaphene			4602.1E6	1619.2E6	1280.412	1245.045
Average Toxaphene					256.082	249.009
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3030.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 02:38 pm
Operator : AFelser
Sample : TOX ML
Misc :
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:10 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3029.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 02:20 pm
 Operator : AFelser
 Sample : TOX L
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:07 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

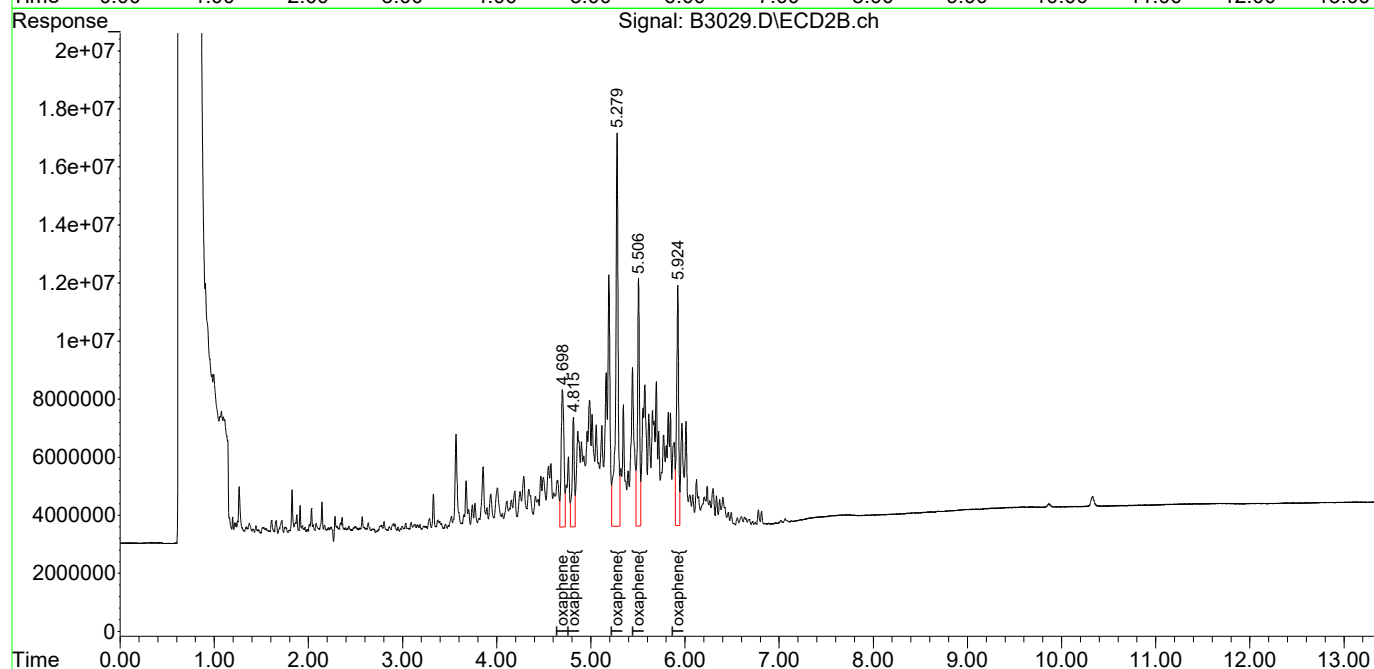
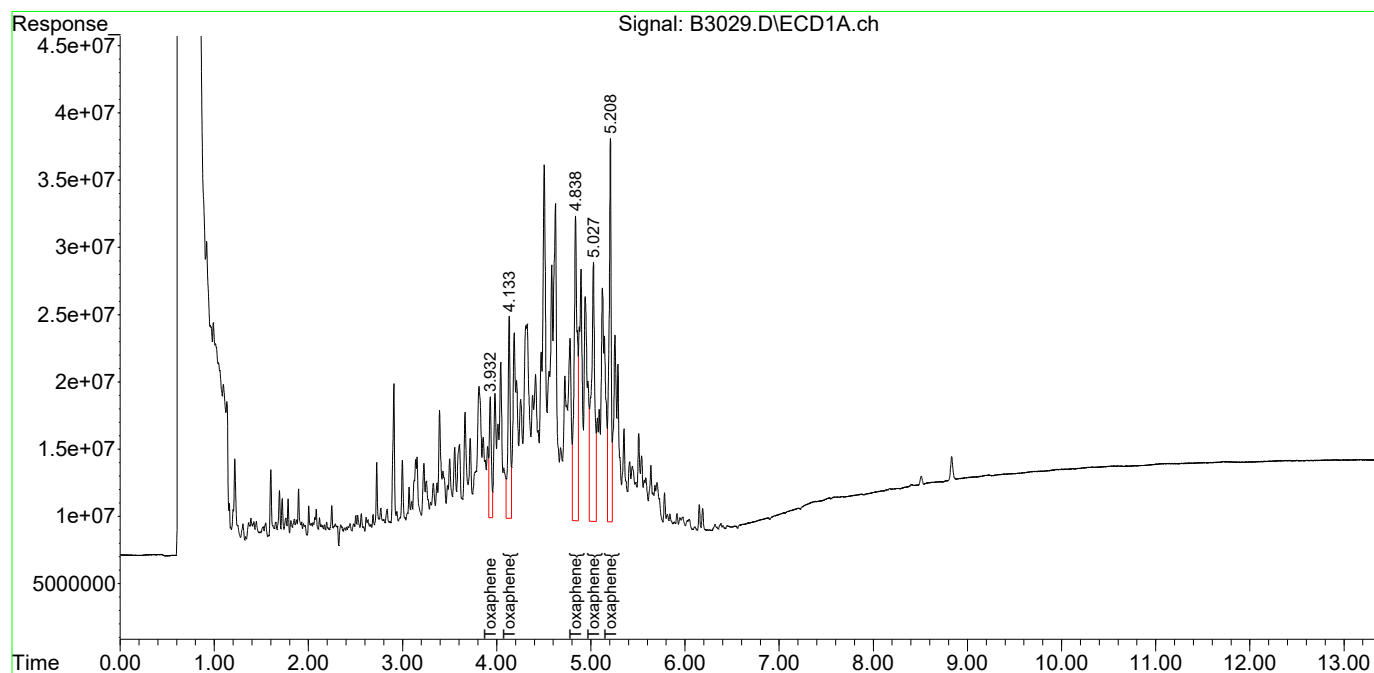
System Monitoring Compounds						
Target Compounds						
24) L8C Toxaphene	3.932	4.699	142.9E6	99927654	106.095	103.854
25) L8C Toxaphene{2}	4.133	4.815	260.8E6	61562415	109.133	99.878
26) L8C Toxaphene{3}	4.838	5.279	536.1E6	242.9E6	107.044	103.140
27) L8C Toxaphene{4}	5.028	5.506	500.8E6	134.9E6	105.520	100.386
28) L8C Toxaphene{5}	5.208	5.924	480.8E6	122.2E6	107.244	100.402
Sum Toxaphene			1921.4E6	661.4E6	535.035	507.660
Average Toxaphene					107.007	101.532
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3029.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 02:20 pm
Operator : AFelser
Sample : TOX L
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:07 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3028.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 02:02 pm
 Operator : AFelser
 Sample : TOX LL
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:04 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

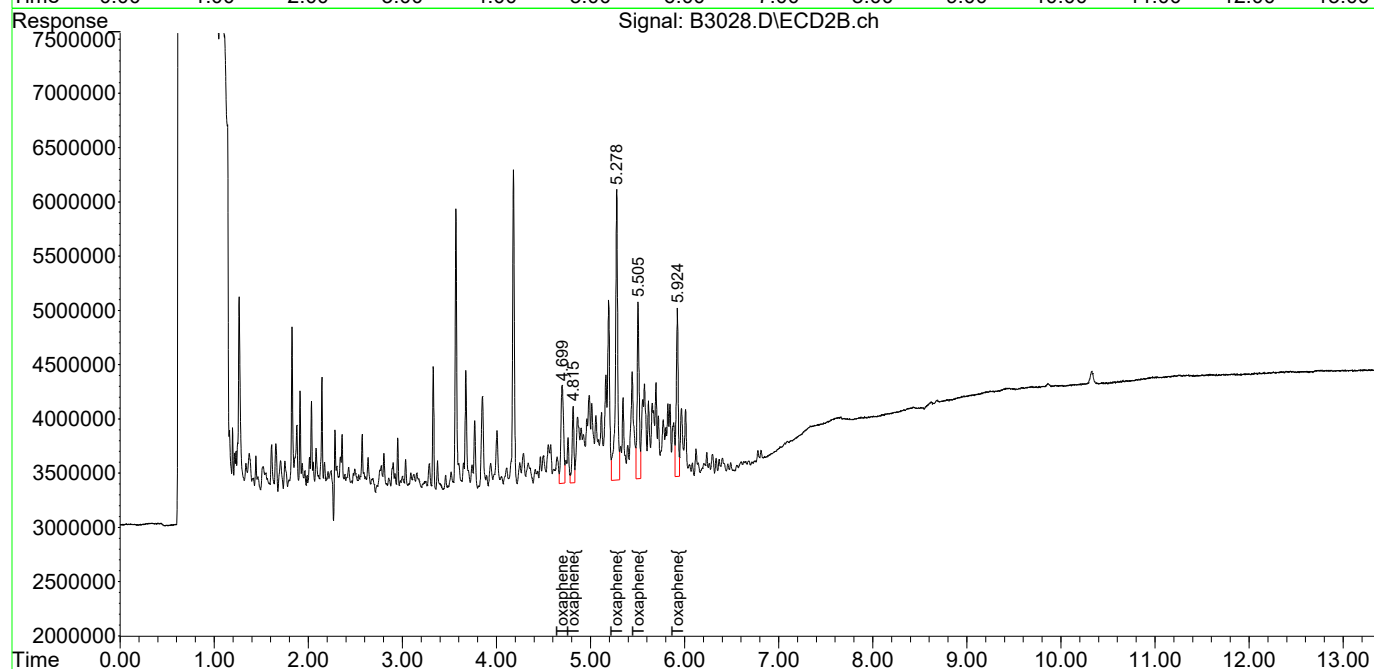
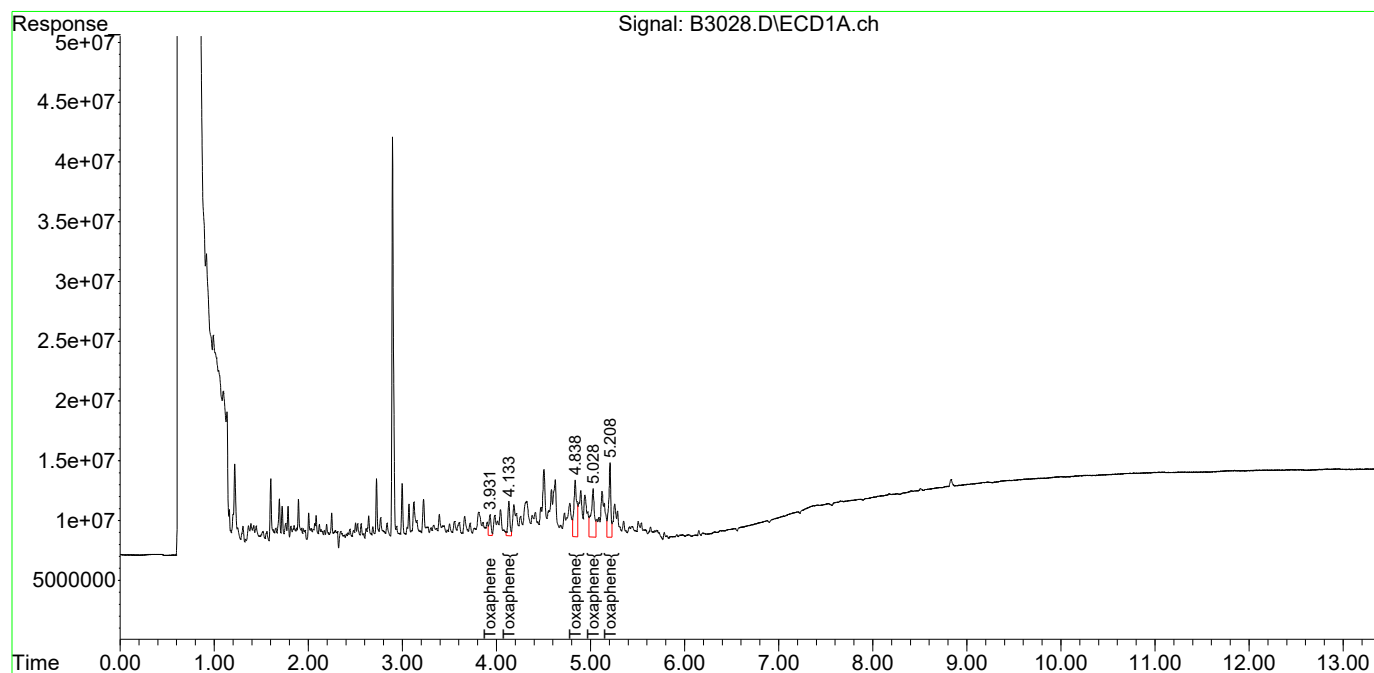
24) L8C Toxaphene	3.931	4.698	26372893	18016014	19.581m	18.724
25) L8C Toxaphene{2}	4.133	4.815	42643615	9566920	17.844m	15.521
26) L8C Toxaphene{3}	4.838	5.279	101.4E6	45064408	20.239m	19.139
27) L8C Toxaphene{4}	5.028	5.506	103.5E6	24339851	21.797m	18.115
28) L8C Toxaphene{5}	5.208	5.924	101.9E6	21820014	22.730m	17.934
Sum Toxaphene			375.7E6	118.8E6	102.191	89.432
Average Toxaphene					20.438	17.886
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 02:02 pm
Operator : AFelser
Sample : TOX LL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

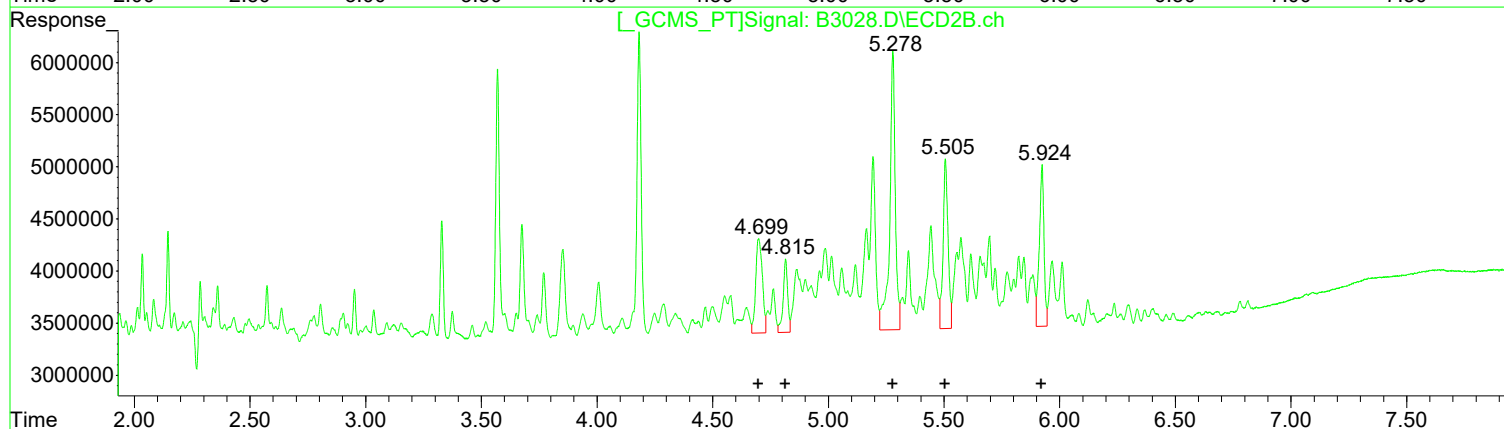
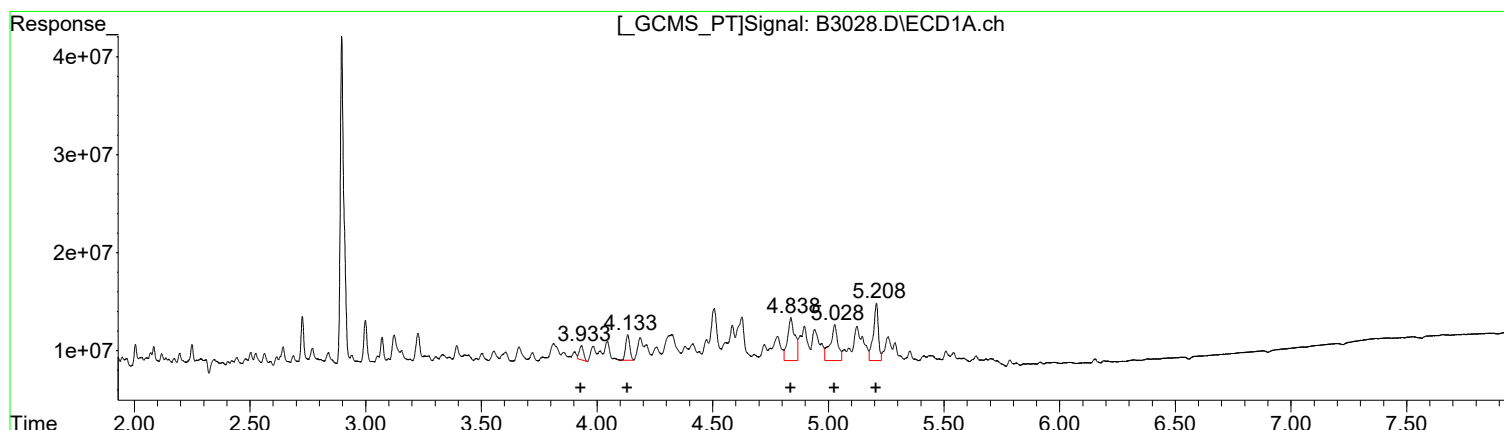
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 02:02 pm
Operator : AFelser
Sample : TOX LL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



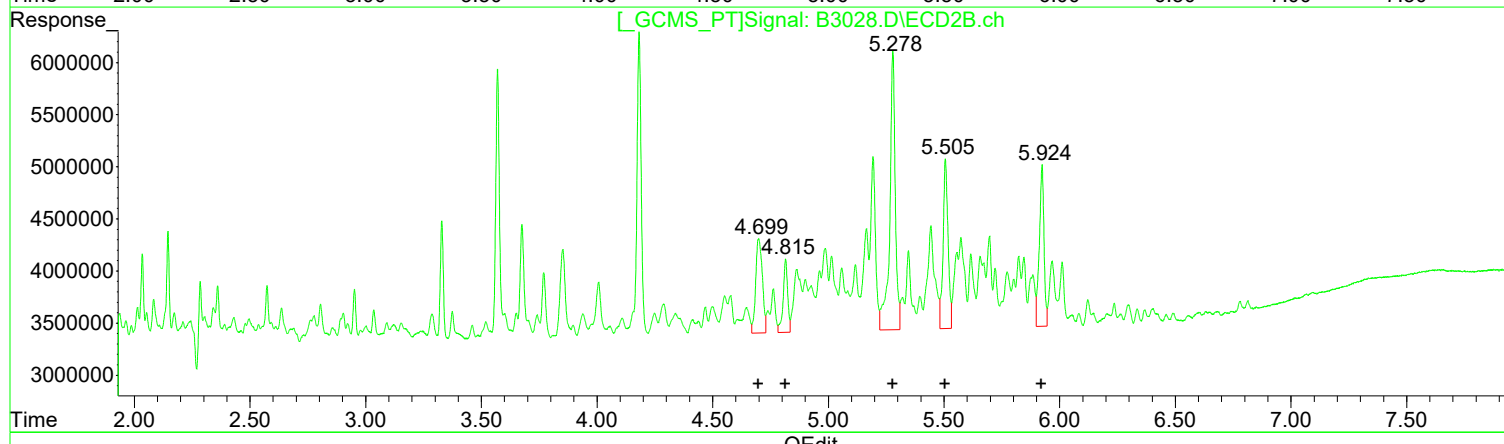
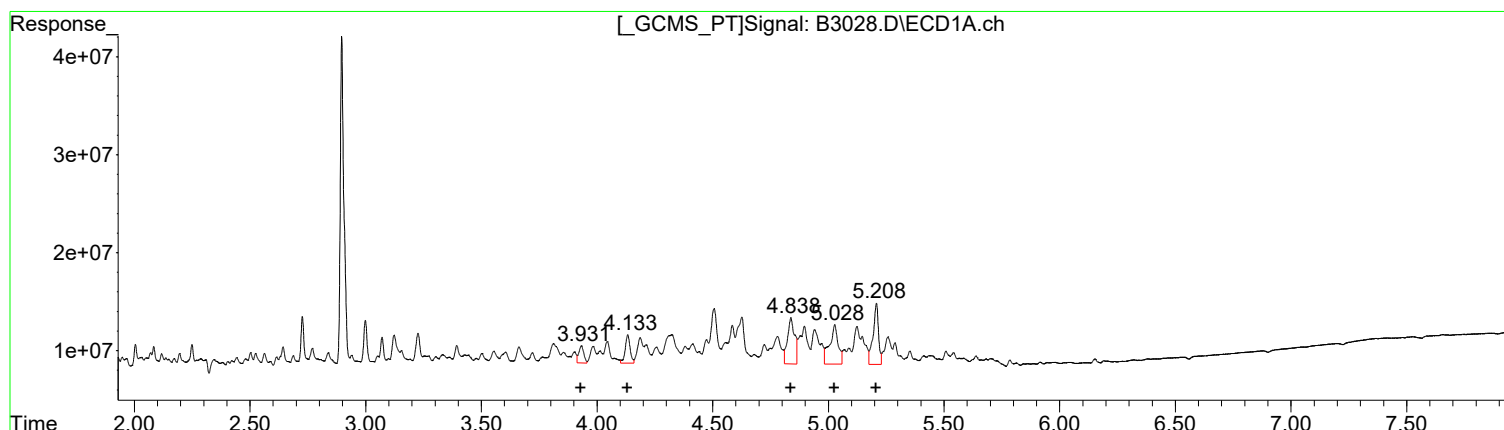
(24) Toxaphene (L8C)		
R.T.	Response	Conc
3.93	18650247	13.85
4.13	33029503	13.82
4.84	95209257	19.01
5.03	84627858	17.83
5.21	88902320	19.83
(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
4.70	18016014	18.72
4.82	9566920	15.52
5.28	45064408	19.14
5.51	24339851	18.11
5.92	21820014	17.93

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3028.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 02:02 pm
Operator : AFelser
Sample : TOX LL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Toxaphene (L8C)		
R.T.	Response	Conc
3.93	26372893	19.58
4.13	42643615	17.84
4.84	101369697	20.24
5.03	103450555	21.80
5.21	101892873	22.73

(24) Toxaphene #2 (L8C)		
R.T.	Response	Conc
4.70	18016014	18.72
4.82	9566920	15.52
5.28	45064408	19.14
5.51	24339851	18.11
5.92	21820014	17.93

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3027.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 01:44 pm
 Operator : AFelser
 Sample : 8081 ICV
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:47:58 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:47:42 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

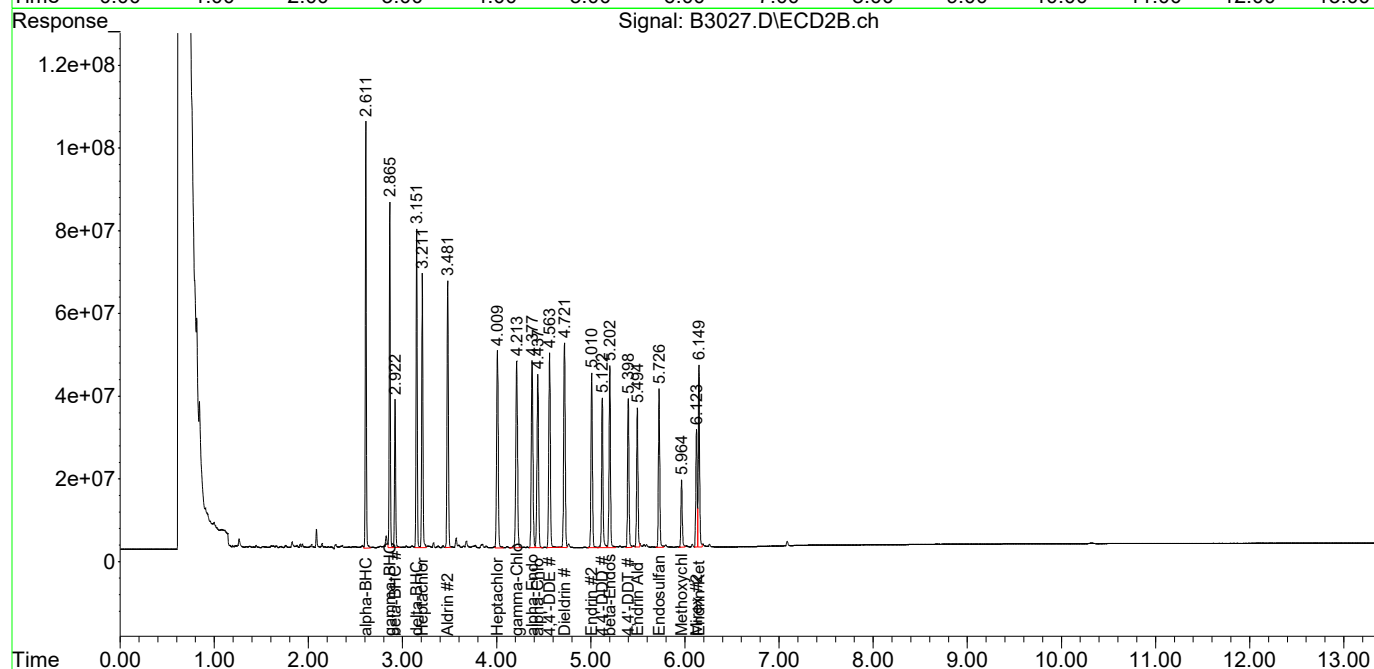
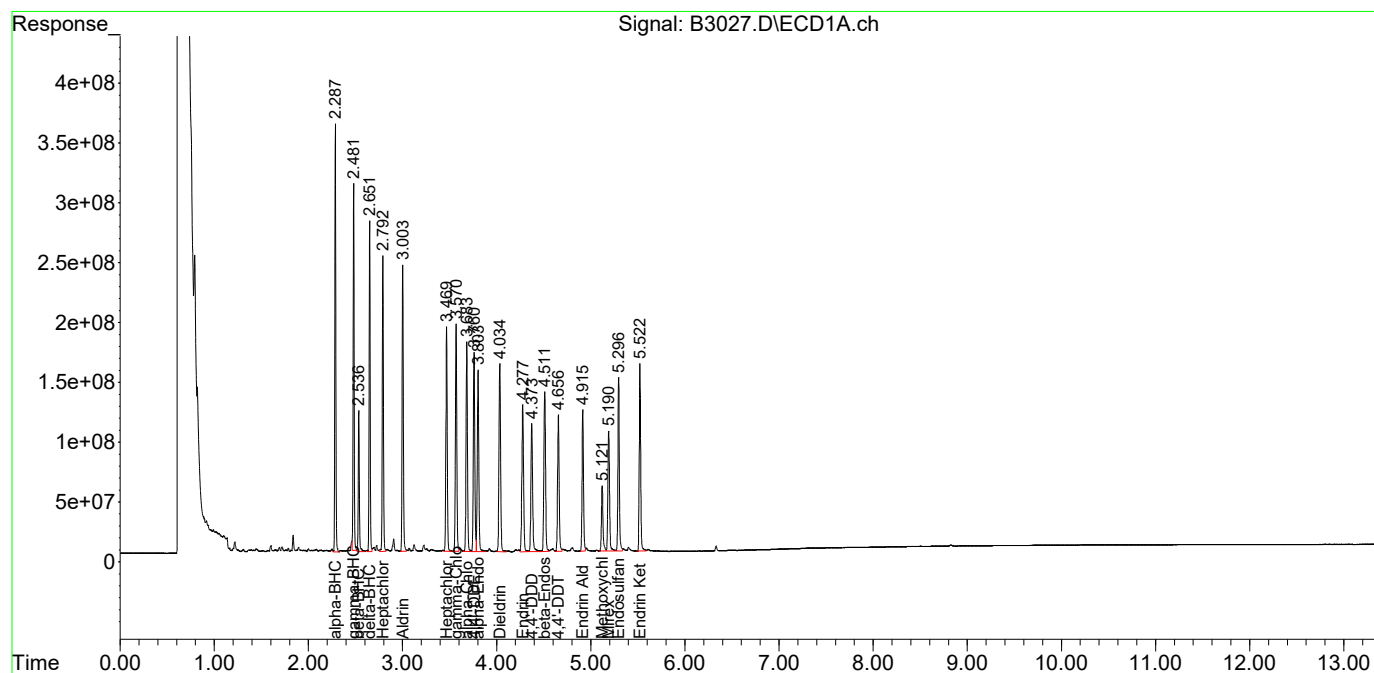
System Monitoring Compounds						
Target Compounds						
2) tc alpha-BHC	2.287	2.611	2591.6E6	768.9E6	10.174	10.432
3) tcm gamma-BHC (L	2.481	2.866	2301.9E6	663.6E6	9.929m	10.183
4) tcm Heptachlor	2.792	3.211	2099.8E6	601.1E6	10.282	10.543
5) tcm Aldrin	3.003	3.481	2158.1E6	631.2E6	10.020	10.329
6) tc beta-BHC	2.536	2.922	964.0E6	287.0E6	10.197	10.269
7) tc delta-BHC	2.652	3.151	2137.9E6	633.8E6	9.617	9.899
8) tc Heptachlor E	3.469	4.009	1867.3E6	559.5E6	10.307	10.441
9) tc alpha-Endosu	3.803	4.377	1729.9E6	552.3E6	10.057	10.333
10) tc gamma-Chlord	3.570	4.214	1888.1E6	571.4E6	10.034	10.416
11) tc alpha-Chlord	3.683	4.438	1825.9E6	502.1E6	10.146	10.058
12) tc 4,4'-DDE	3.761	4.563	1800.0E6	543.6E6	10.294	10.376
13) tcm Dieldrin	4.034	4.721	1879.2E6	557.2E6	10.491	10.484
14) tcm Endrin	4.278	5.011	1589.7E6	442.0E6	10.163	10.345
15) tc beta-Endosul	4.511	5.202	1608.3E6	455.0E6	10.222	10.445
16) tc 4,4'-DDD	4.374	5.123	1355.5E6	389.8E6	9.848	10.026
17) tcm 4,4'-DDT	4.657	5.399	1343.8E6	365.5E6	9.890	10.239
18) tc Endrin Aldeh	4.916	5.494	1301.7E6	336.4E6	12.613	12.551m
19) tc Endosulfan S	5.296	5.726	1538.3E6	380.0E6	10.345	10.287
20) tc Methoxychlor	5.121	5.965	649.3E6	166.0E6	9.553	9.658
21) tc Endrin Keton	5.523	6.150	1612.3E6	436.6E6	10.149	10.483
22) tc Mirex	5.191	6.123	1176.8E6	283.9E6	8.955	9.049
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3027.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 01:44 pm
 Operator : AFelser
 Sample : 8081 ICV
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:47:58 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:47:42 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3027.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 01:44 pm
 Operator : AFelser
 Sample : 8081 ICV
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:47:58 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:47:42 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
2 tc alpha-BHC	10.000	10.174	-1.7	96	0.00
3 tcm gamma-BHC (L	10.000	9.929	0.7	91	0.00
4 tcm Heptachlor	10.000	10.282	-2.8	96	0.00
5 tcm Aldrin	10.000	10.020	-0.2	96	0.00
6 tc beta-BHC	10.000	10.197	-2.0	97	0.00
7 TC delta-BHC	10.000	9.617	3.8	91	0.00
8 tc Heptachlor E	10.000	10.307	-3.1	97	0.00
9 tc alpha-Endosu	10.000	10.057	-0.6	96	0.00
10 tc gamma-Chlord	10.000	10.034	-0.3	97	0.00
11 tc alpha-Chlord	10.000	10.146	-1.5	97	0.00
12 tc 4,4'-DDE	10.000	10.294	-2.9	97	0.00
13 tcm Dieldrin	10.000	10.491	-4.9	97	0.00
14 tcm Endrin	10.000	10.163	-1.6	97	0.00
15 tc beta-Endosul	10.000	10.222	-2.2	97	0.00
16 tc 4,4'-DDD	10.000	9.848	1.5	93	0.00
17 tcm 4,4'-DDT	10.000	9.890	1.1	96	0.00
18 tc Endrin Aldeh	10.000	12.613	-26.1#	111	0.00
19 tc Endosulfan S	10.000	10.345	-3.5	96	0.00
20 tc Methoxychlor	10.000	9.553	4.5	92	0.00
21 tc Endrin Keton	10.000	10.149	-1.5	96	0.00
22 tc Mirex	10.000	8.955	10.4	87	0.00

Signal #2

2 tc alpha-BHC	10.000	10.432	-4.3	94	0.00
3 tcm gamma-BHC (L	10.000	10.183	-1.8	93	0.00
4 tcm Heptachlor	10.000	10.543	-5.4	95	0.00
5 tcm Aldrin	10.000	10.329	-3.3	94	0.00
6 tc beta-BHC	10.000	10.269	-2.7	94	0.00
7 tc delta-BHC	10.000	9.899	1.0	90	0.00
8 tc Heptachlor E	10.000	10.441	-4.4	96	0.00
9 tc alpha-Endosu	10.000	10.333	-3.3	95	0.00
10 tc gamma-Chlord	10.000	10.416	-4.2	95	0.00
11 tc alpha-Chlord	10.000	10.058	-0.6	92	0.00
12 tc 4,4'-DDE	10.000	10.376	-3.8	94	0.00
13 tcm Dieldrin	10.000	10.484	-4.8	95	0.00
14 tcm Endrin	10.000	10.345	-3.5	95	0.00
15 tc beta-Endosul	10.000	10.445	-4.5	95	0.00
16 tc 4,4'-DDD	10.000	10.026	-0.3	91	0.00
17 tcm 4,4'-DDT	10.000	10.239	-2.4	94	0.00
18 tc Endrin Aldeh	10.000	12.551	-25.5#	105	0.00
19 tc Endosulfan S	10.000	10.287	-2.9	94	0.00
20 tc Methoxychlor	10.000	9.658	3.4	90	0.00
21 tc Endrin Keton	10.000	10.483	-4.8	96	0.00

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3027.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 01:44 pm
 Operator : AFelser
 Sample : 8081 ICV
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:47:58 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:47:42 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
22 tc Mirex	10.000	9.049	9.5	84	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-1.96#
23 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.33#
24 L8C Toxaphene	250.000	0.000	100.0#	0	-3.93#
25 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-4.13#
26 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-4.84#
27 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-5.03#
28 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-5.21#
29 L9C Chlordane	50.000	0.000	100.0#	0	-2.74#
30 L9C Chlordane{2}	50.000	0.000	100.0#	0	-3.11#
31 L9C Chlordane{3}	50.000	0.000	100.0#	0	-3.42#
32 L9C Chlordane{4}	50.000	0.000	100.0#	0	-3.57#
33 L9C Chlordane{5}	50.000	0.000	100.0#	0	-3.68#
34 L10CDechlorane{1}	10.000	0.000	100.0#	0	-8.51#
35 L10CDechlorane{2}	10.000	0.000	100.0#	0	-8.84#

Signal #2

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-2.21#
23 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-7.09#
24 L8C Toxaphene	250.000	0.000	100.0#	0	-4.70#
25 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-4.81#
26 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-5.28#
27 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-5.50#
28 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-5.92#
29 L9C Chlordane	50.000	0.000	100.0#	0	-3.10#
30 L9C Chlordane{2}	50.000	0.000	100.0#	0	-3.61#
31 L9C Chlordane{3}	50.000	0.000	100.0#	0	-4.21#
32 L9C Chlordane{4}	50.000	0.000	100.0#	0	-4.32#
33 L9C Chlordane{5}	50.000	0.000	100.0#	0	-4.38#
34 L10CDechlorane{1}	10.000	0.000	100.0#	0	-9.87#
35 L10CDechlorane{2}	10.000	0.000	100.0#	0	-10.33#

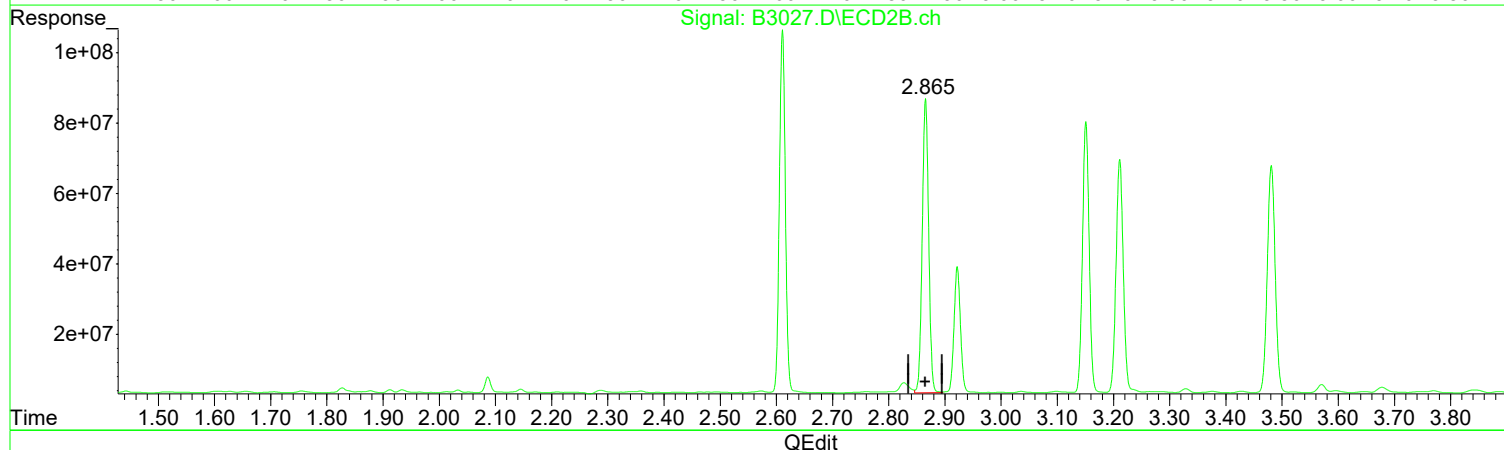
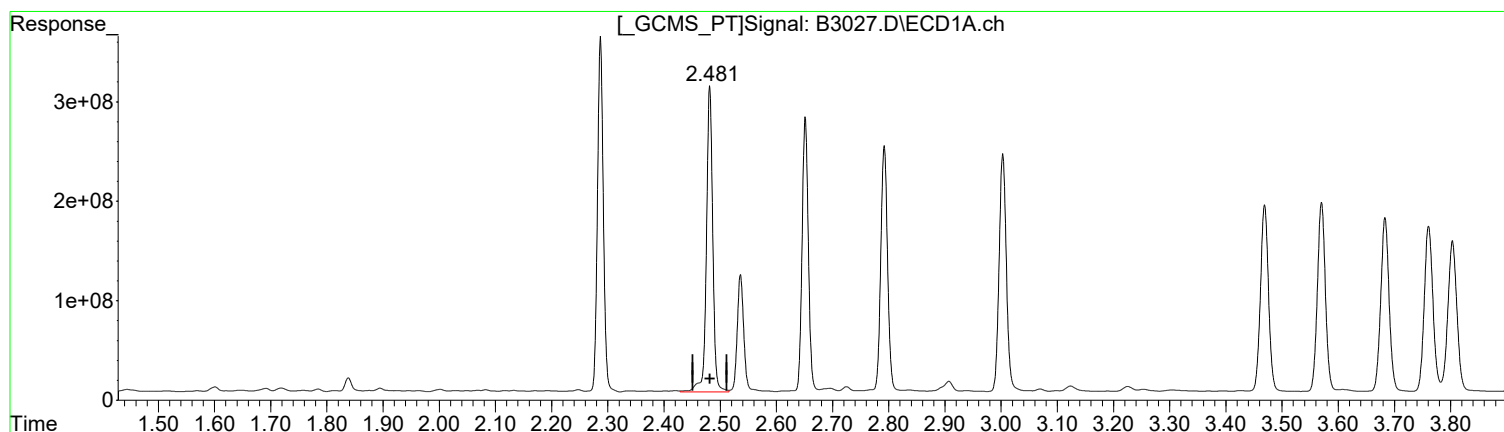
(#) = Out of Range

SPCC's out = 0 CCC's out = 26

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 01:44 pm
Operator : AFelser
Sample : 8081 ICV
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:47:58 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:47:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.482min 10.397 ug/l
response 2410466271

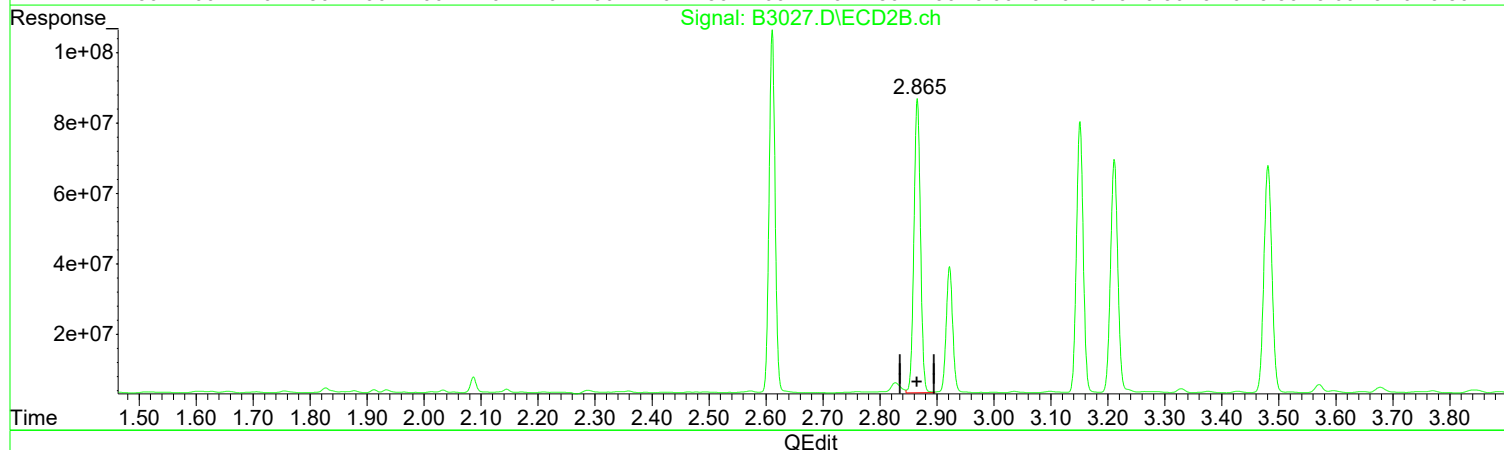
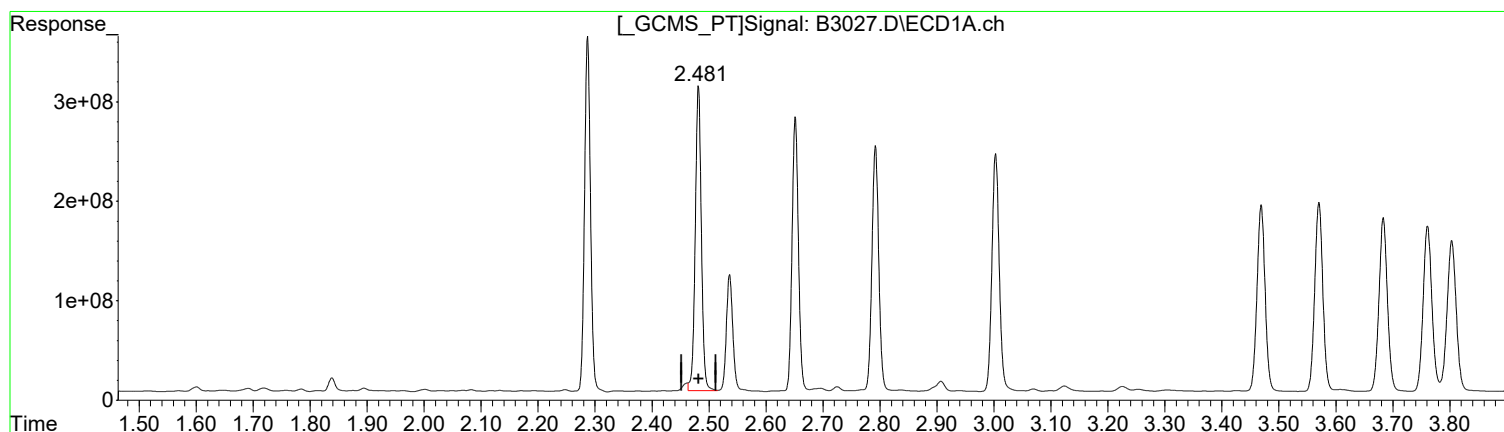
(3) gamma-BHC (L #2 (tcm)
2.866min 10.183 ug/l
response 663607805

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 01:44 pm
Operator : AFelser
Sample : 8081 ICV
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:47:58 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:47:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.481min 9.929 ug/l m
response 2301914244

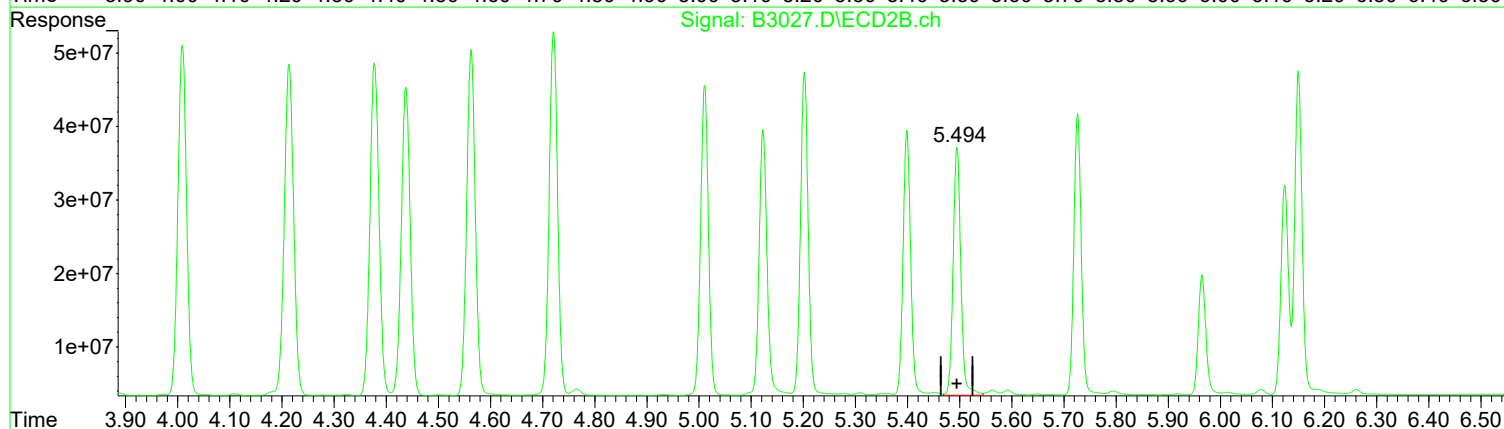
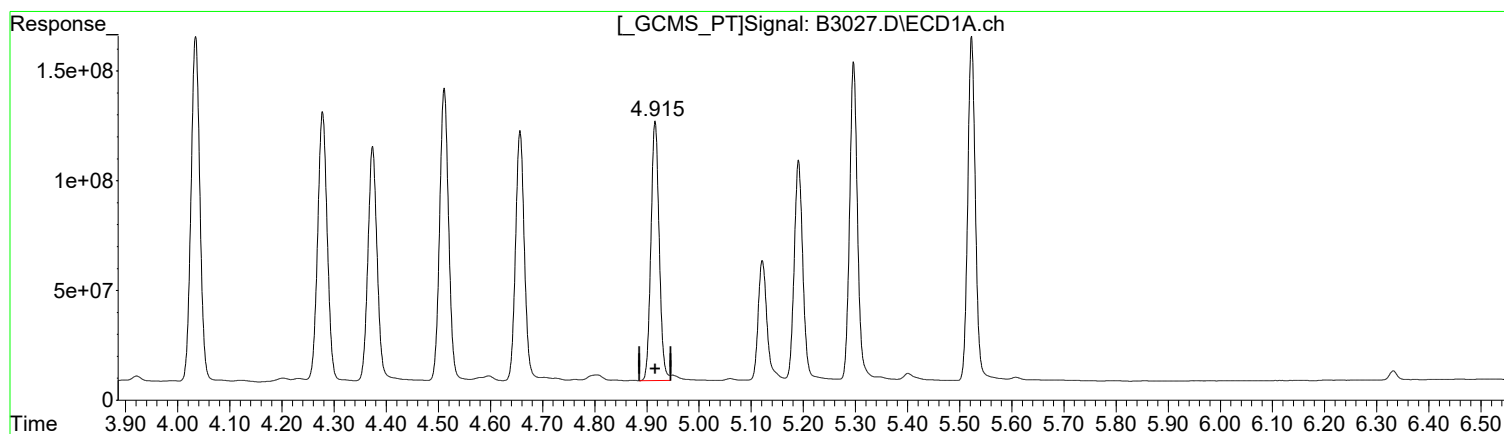
(3) gamma-BHC (L #2 (tcm)
2.866min 10.183 ug/l
response 663607805

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 01:44 pm
Operator : AFelser
Sample : 8081 ICV
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:47:58 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:47:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.916min 12.613 ug/l
response 1301738238

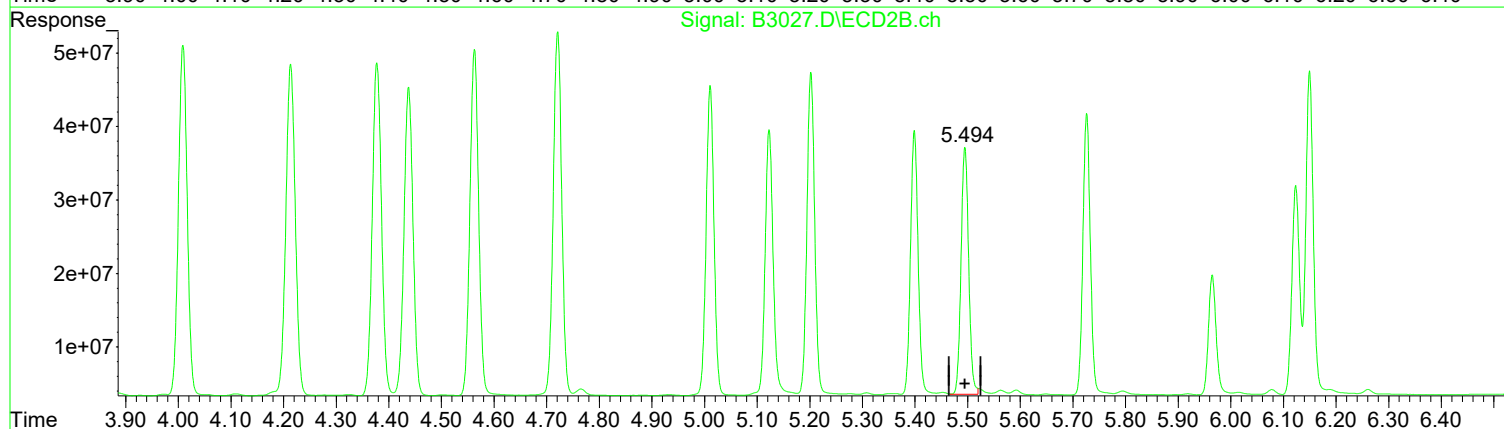
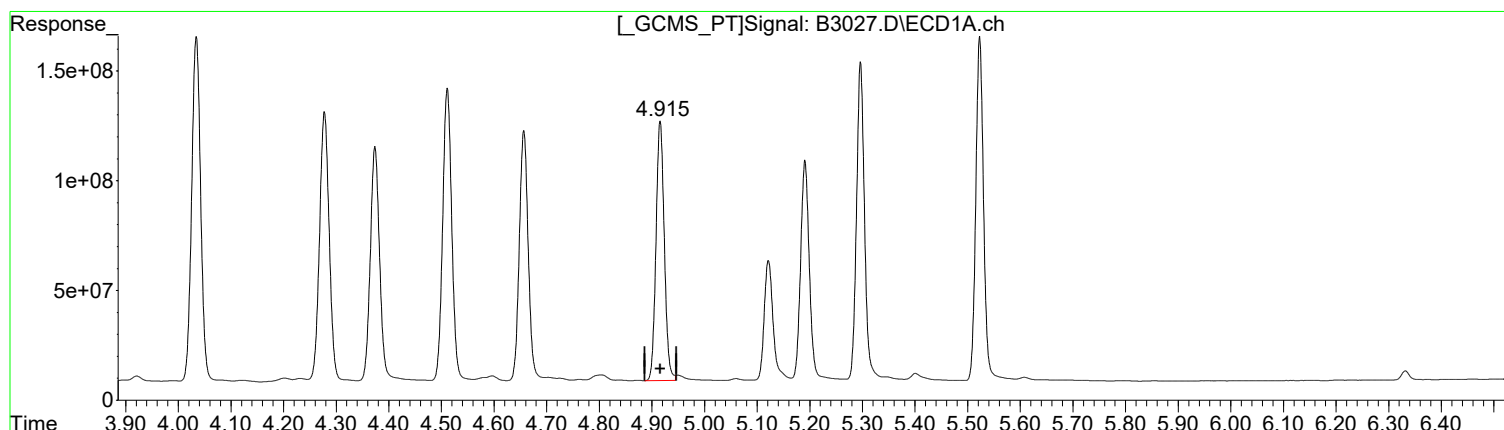
(18) Endrin Aldeh #2 (tc)
5.495min 13.000 ug/l
response 348443374

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3027.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 01:44 pm
Operator : AFelser
Sample : 8081 ICV
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:47:58 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:47:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.916min 12.613 ug/l
response 1301738238

(18) Endrin Aldeh #2 (tc)
5.494min 12.551 ug/l m
response 336423322

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3026.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 01:26 pm
 Operator : AFelser
 Sample : 8081 MH
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:25:01 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

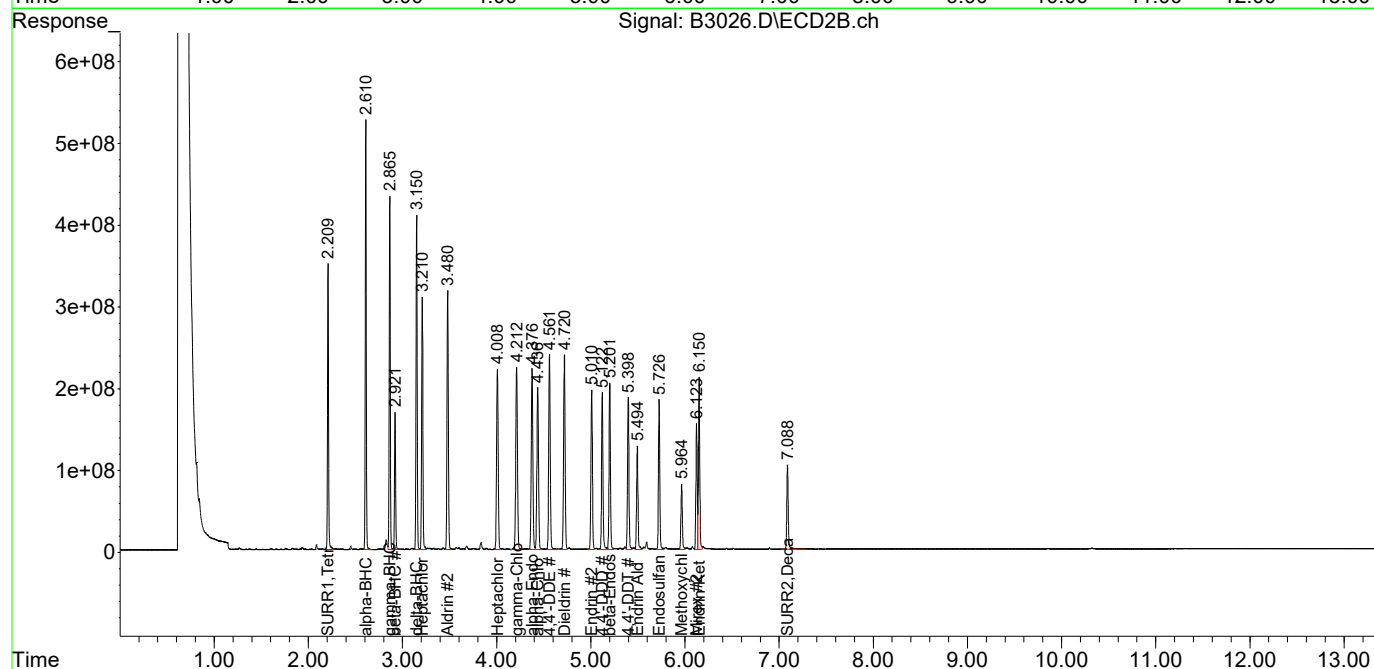
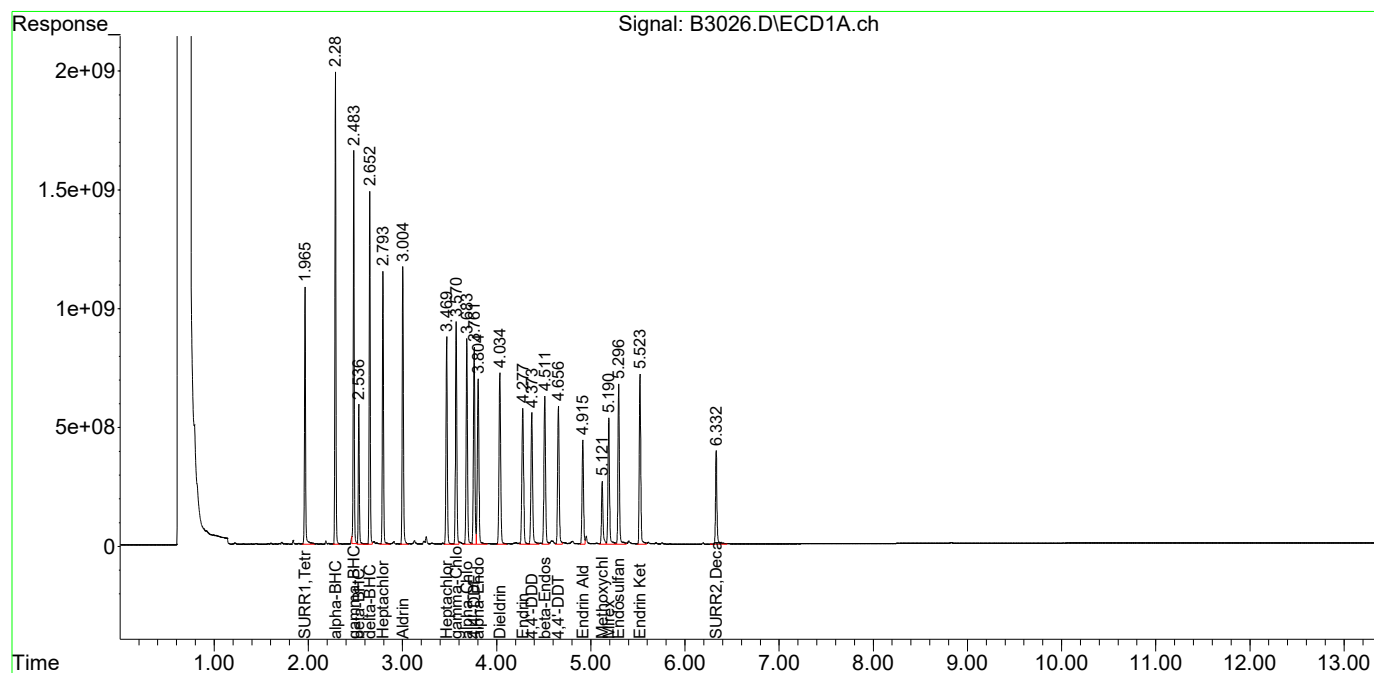
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	1.965	2.209	8501.9E6	2578.1E6	50.402	50.645
Spiked Amount	100.000 Range	30 - 150	Recovery	=	50.40%	50.65%
23) S SURR2,Dec...	6.332	7.089	4206.9E6	1082.5E6	51.064	49.648
Spiked Amount	100.000 Range	30 - 150	Recovery	=	51.06%	49.65%
Target Compounds						
2) tc alpha-BHC	2.288	2.610	13991.5E6	3912.7E6	54.153	51.361
3) tcm gamma-BHC (L	2.483	2.865	12195.6E6	3386.5E6	51.424m	51.021
4) tcm Heptachlor	2.793	3.211	9782.4E6	2839.6E6	49.281	49.209
5) tcm Aldrin	3.004	3.481	10530.9E6	3133.0E6	50.459	50.260
6) tc beta-BHC	2.537	2.922	4476.6E6	1350.0E6	50.436	49.803
7) tc delta-BHC	2.653	3.151	11513.8E6	3383.6E6	51.889	51.245
8) tc Heptachlor E	3.470	4.009	8580.7E6	2596.2E6	48.937	49.292
9) tc alpha-Endosu	3.804	4.377	8111.8E6	2688.7E6	48.991	50.586
10) tc gamma-Chlord	3.571	4.213	9328.9E6	2808.9E6	50.876	50.785
11) tc alpha-Chlord	3.684	4.437	8905.3E6	2446.7E6	50.753	49.583
12) tc 4,4'-DDE	3.762	4.562	8850.8E6	2725.2E6	50.514	50.794
13) tcm Dieldrin	4.035	4.720	8791.6E6	2694.8E6	48.999	50.037
14) tcm Endrin	4.278	5.010	7402.7E6	2089.3E6	48.512	48.920
15) tc beta-Endosul	4.512	5.202	7455.2E6	2144.6E6	48.944	49.118
16) tc 4,4'-DDD	4.374	5.122	6960.7E6	2009.2E6	50.561	50.794
17) tcm 4,4'-DDT	4.656	5.398	6776.0E6	1854.2E6	49.859	50.841
18) tc Endrin Aldeh	4.916	5.494	4739.3E6	1289.5E6	46.856	47.433
19) tc Endosulfan S	5.297	5.726	7336.3E6	1823.8E6	49.696	50.035
20) tc Methoxychlor	5.122	5.965	3002.7E6	801.7E6	47.760	49.300
21) tc Endrin Keton	5.523	6.151	7534.9E6	2075.0E6	48.724	49.778
22) tc Mirex	5.191	6.124	6081.0E6	1488.1E6	49.688	50.384
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 01:26 pm
Operator : AFelser
Sample : 8081 MH
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:01 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

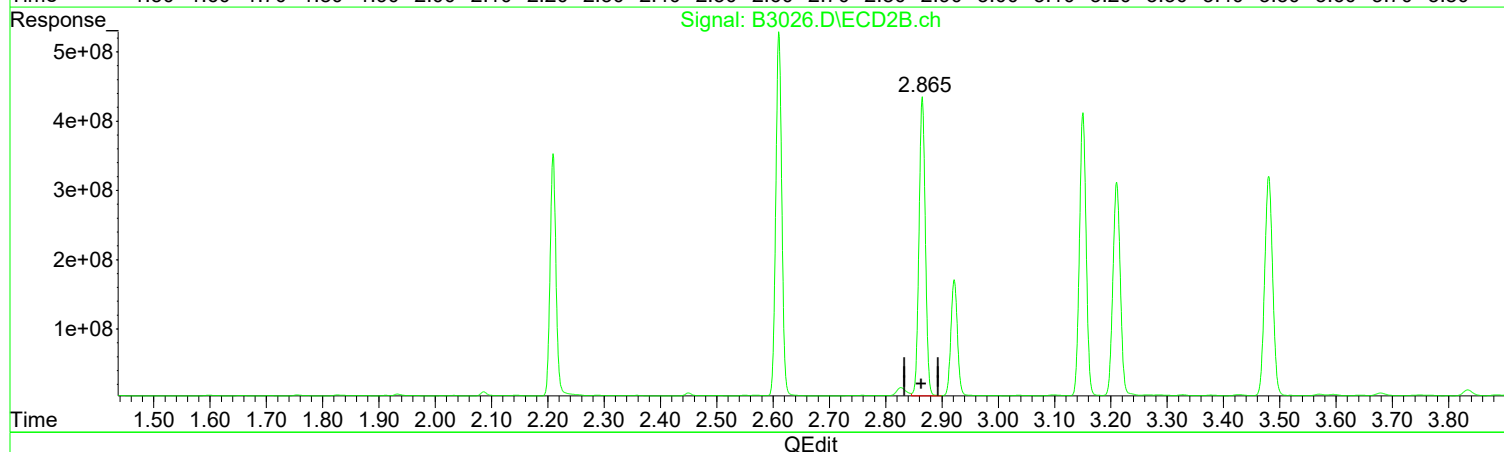
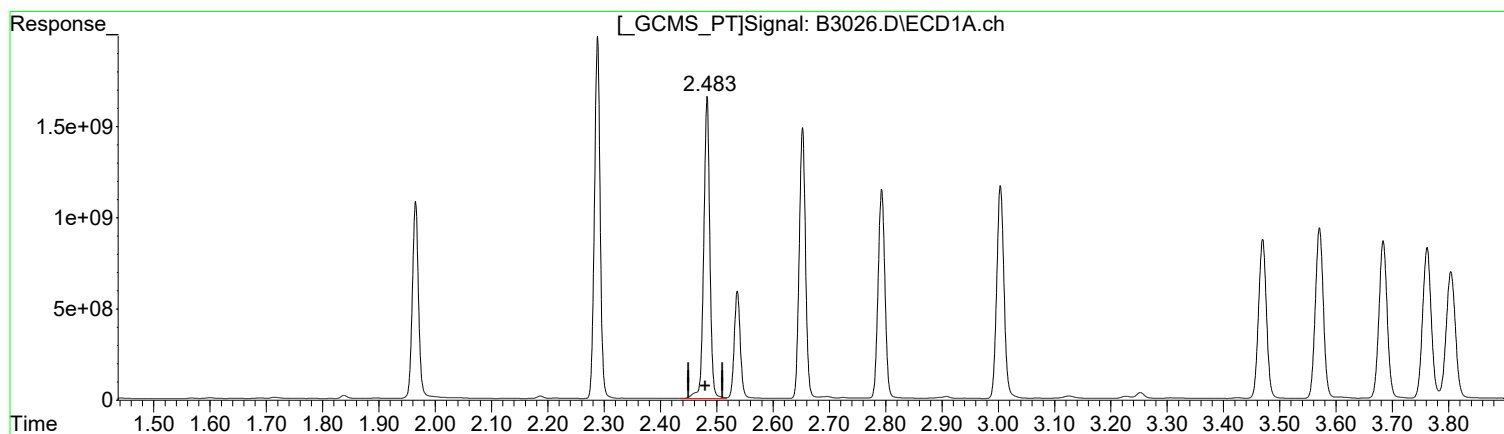
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 01:26 pm
Operator : AFelser
Sample : 8081 MH
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:01 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.483min 52.532 ug/l
response 12458433689

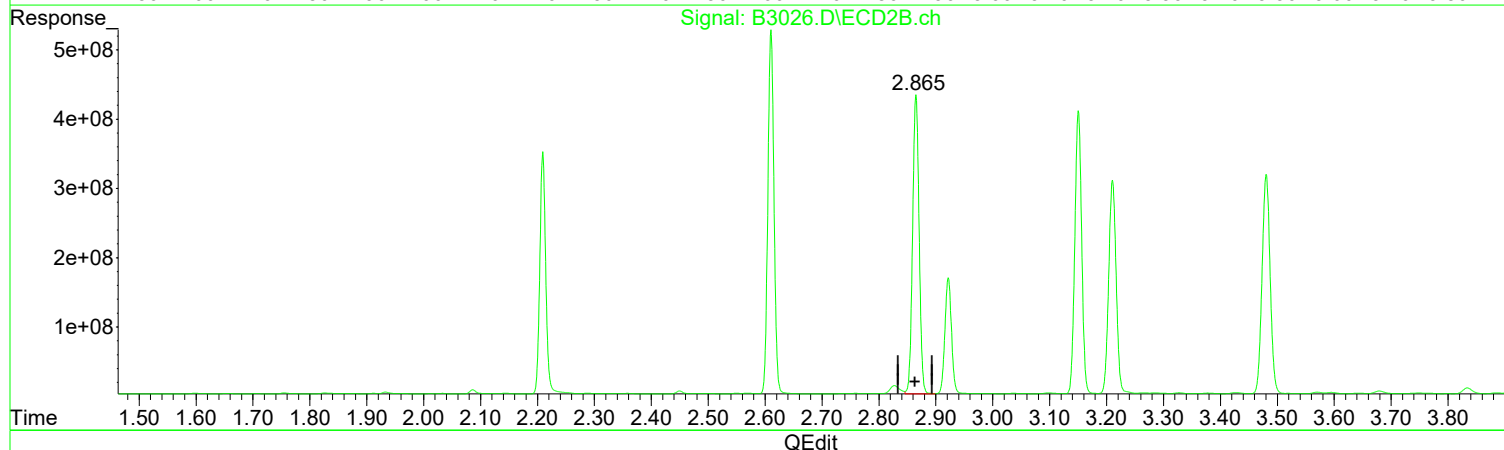
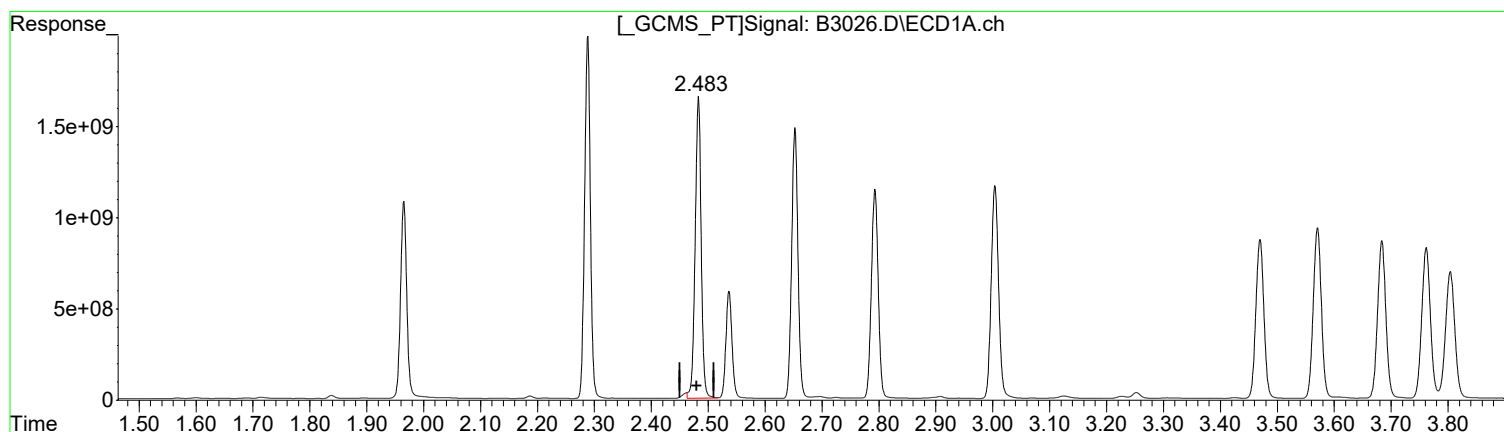
(3) gamma-BHC (L #2 (tcm)
2.865min 51.021 ug/l
response 3386476053

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3026.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 01:26 pm
Operator : AFelser
Sample : 8081 MH
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:25:01 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.483min 51.424 ug/l m
response 12195608261

(3) gamma-BHC (L #2 (tcm)
2.865min 51.021 ug/l
response 3386476053

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3025.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 01:08 pm
 Operator : AFelser
 Sample : 8081 M
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:21:15 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 01 10:28:11 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

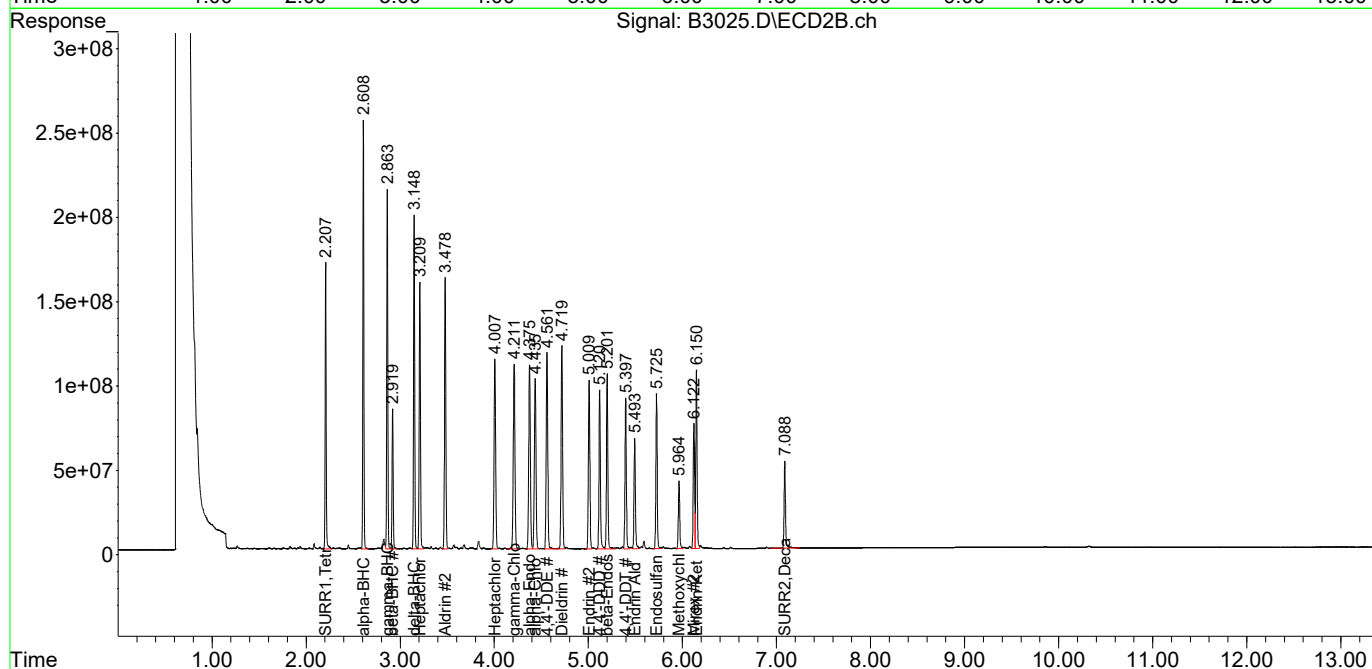
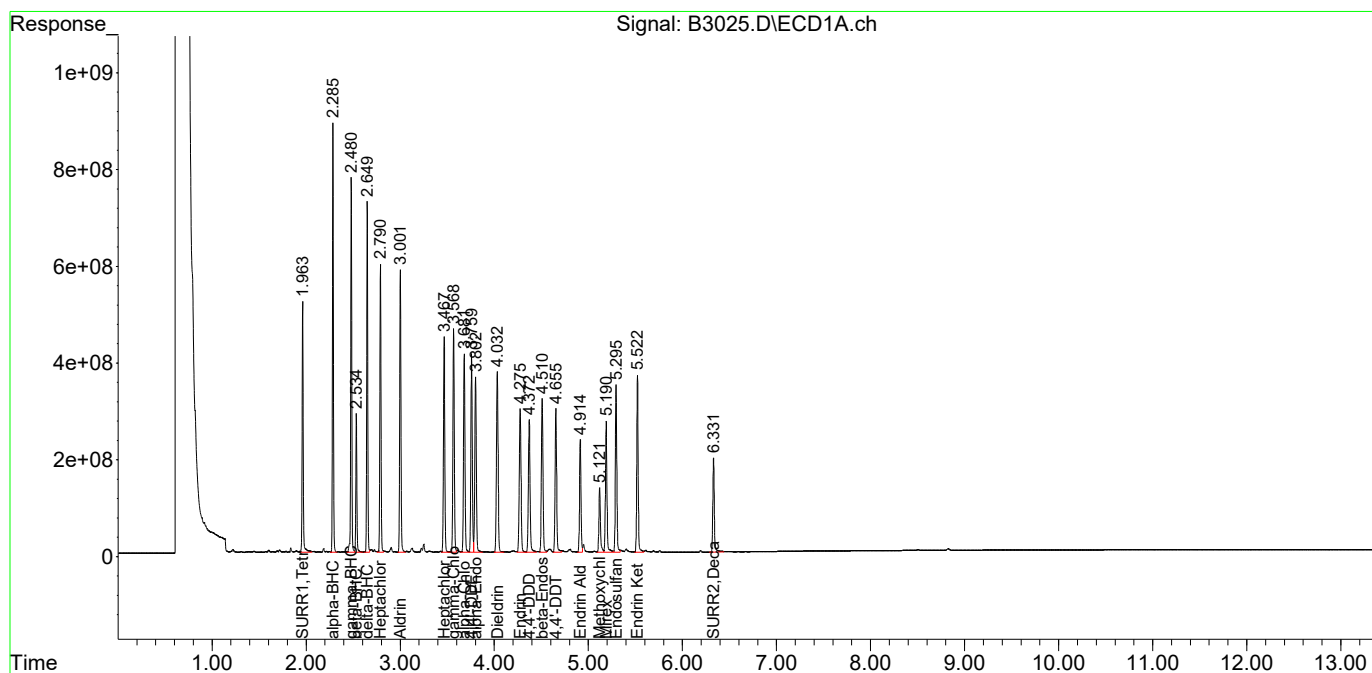
System Monitoring Compounds						
1) S SURR1,Tet...	1.963	2.208	4217.0E6	1272.7E6	21.487	19.351
Spiked Amount	100.000 Range	30 - 150	Recovery	=	21.49%#	19.35%#
23) S SURR2,Dec...	6.331	7.088f	2059.6E6	545.1E6	17.961	17.396
Spiked Amount	100.000 Range	30 - 150	Recovery	=	17.96%#	17.40%#
Target Compounds						
2) tc alpha-BHC	2.285	2.609	6459.3E6	1904.5E6	21.070	19.932
3) tcm gamma-BHC (L	2.480	2.863	5929.0E6	1659.3E6	20.628	19.867
4) tcm Heptachlor	2.791	3.209	4962.6E6	1442.6E6	19.364	18.656
5) tcm Aldrin	3.002	3.479	5217.6E6	1558.4E6	19.760	19.739
6) tc beta-BHC	2.534	2.920	2218.9E6	677.6E6	19.997	18.949
7) tc delta-BHC	2.650	3.149	5547.3E6	1650.7E6	20.998	19.735
8) tc Heptachlor E	3.468	4.007	4383.6E6	1316.8E6	19.681	18.663
9) tc alpha-Endosu	3.802	4.376	4139.4E6	1328.8E6	19.674	18.944
10) tc gamma-Chlord	3.568	4.212	4584.1E6	1382.7E6	19.835	19.232
11) tc alpha-Chlord	3.681	4.436	4386.6E6	1233.7E6	20.059	18.875
12) tc 4,4'-DDE	3.759	4.561	4380.4E6	1341.3E6	20.499	19.482
13) tcm Dieldrin	4.032	4.719	4485.6E6	1346.4E6	20.630	19.496
14) tcm Endrin	4.276	5.009	3814.9E6	1067.7E6	19.519	18.708
15) tc beta-Endosul	4.510	5.201	3808.1E6	1091.5E6	19.551	19.355
16) tc 4,4'-DDD	4.372	5.121	3441.8E6	988.9E6	20.285	19.107
17) tcm 4,4'-DDT	4.655	5.397	3397.6E6	911.7E6	19.024	18.338
18) tc Endrin Aldeh	4.915	5.494	2528.7E6	679.6E6	20.545	20.320
19) tc Endosulfan S	5.295	5.725	3690.6E6	911.3E6	19.090	18.503
20) tc Methoxychlor	5.121	5.964	1571.8E6	406.6E6	17.651	16.428
21) tc Endrin Keton	5.522	6.150	3866.2E6	1042.1E6	19.358	18.595
22) tc Mirex	5.190	6.123	3059.6E6	738.4E6	18.458	17.457
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3025.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 01:08 pm
 Operator : AFelser
 Sample : 8081 M
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:21:15 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 01 10:28:11 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3024.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 12:51 pm
 Operator : AFelser
 Sample : 8081 ML
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:24:58 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

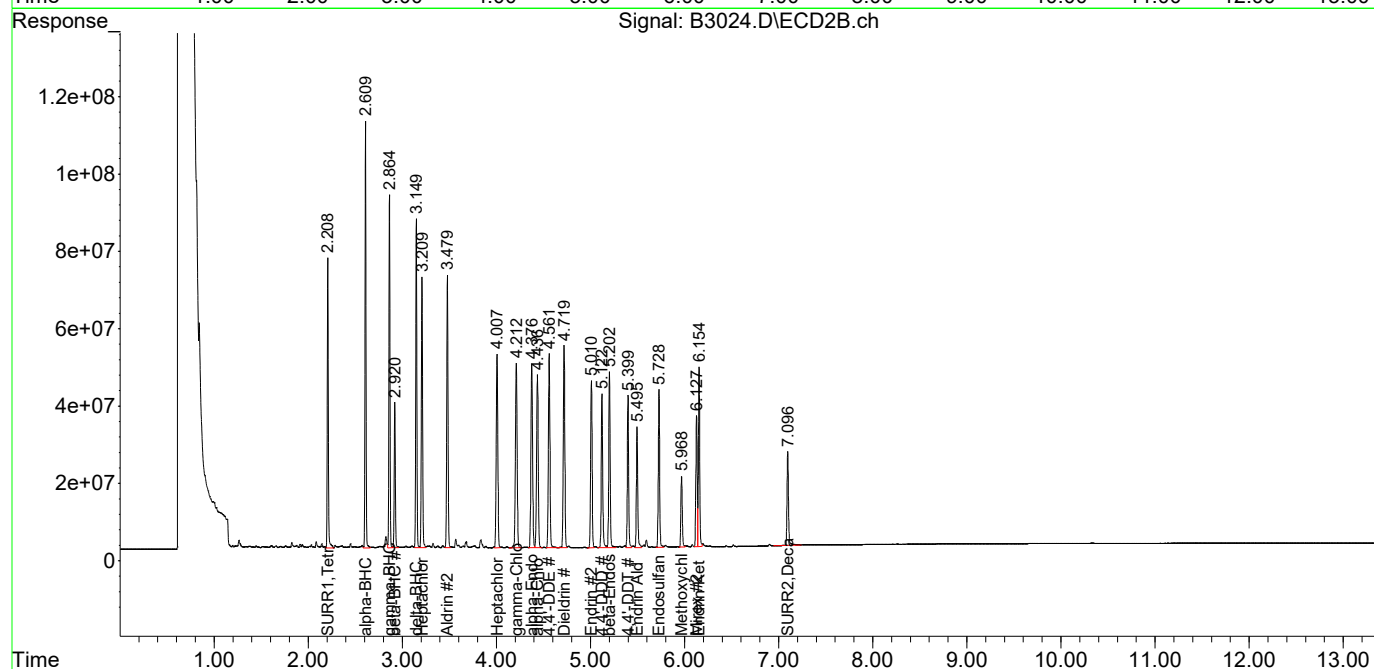
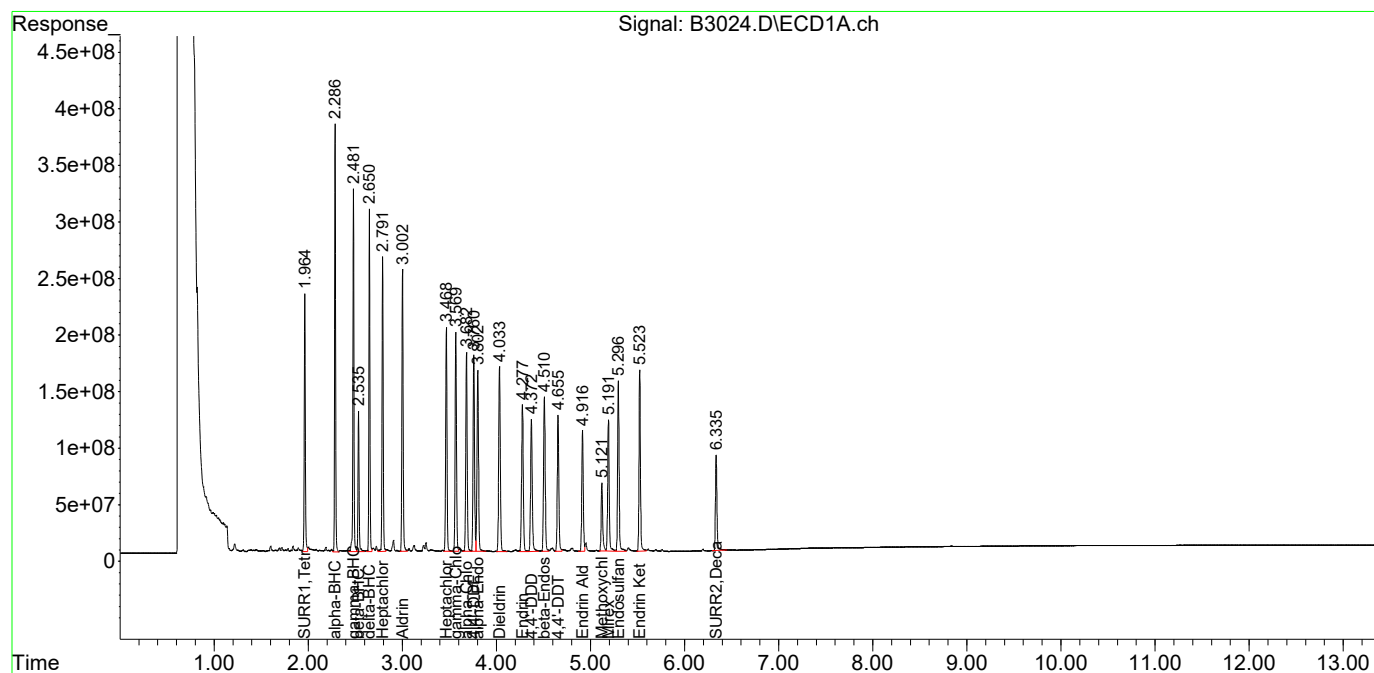
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	1.964	2.208	1782.3E6	566.6E6	10.566	11.130
Spiked Amount	100.000 Range	30 - 150	Recovery =	10.57%#	11.13%#	
23) S SURR2,Dec...	6.336	7.096	928.4E6	256.3E6	11.269	11.756
Spiked Amount	100.000 Range	30 - 150	Recovery =	11.27%#	11.76%#	
Target Compounds						
2) tc alpha-BHC	2.286	2.609	2707.2E6	820.6E6	10.478	10.771
3) tcm gamma-BHC (L	2.481	2.864	2528.3E6	716.1E6	10.661	10.789
4) tcm Heptachlor	2.791	3.210	2179.6E6	634.5E6	10.980	10.995
5) tcm Aldrin	3.003	3.480	2246.5E6	674.6E6	10.764	10.822
6) tc beta-BHC	2.535	2.921	997.7E6	305.7E6	11.241	11.277
7) tc delta-BHC	2.651	3.149	2336.9E6	707.4E6	10.532	10.713
8) tc Heptachlor E	3.469	4.007	1917.3E6	583.5E6	10.934	11.078
9) tc alpha-Endosu	3.803	4.376	1808.0E6	580.2E6	10.920	10.916
10) tc gamma-Chlord	3.569	4.212	1946.5E6	601.7E6	10.615	10.878
11) tc alpha-Chlord	3.683	4.437	1875.1E6	545.4E6	10.687	11.053
12) tc 4,4'-DDE	3.760	4.562	1855.8E6	576.7E6	10.592	10.748
13) tcm Dieldrin	4.034	4.720	1946.9E6	586.6E6	10.851	10.892
14) tcm Endrin	4.277	5.010	1635.9E6	464.7E6	10.720	10.880
15) tc beta-Endosul	4.510	5.202	1654.4E6	481.0E6	10.861	11.017
16) tc 4,4'-DDD	4.373	5.122	1452.9E6	427.4E6	10.554	10.804
17) tcm 4,4'-DDT	4.656	5.399	1403.3E6	389.3E6	10.326	10.675
18) tc Endrin Aldeh	4.916	5.495	1170.4E6	320.5E6	11.571	11.790
19) tc Endosulfan S	5.297	5.728	1610.6E6	402.4E6	10.910	11.040
20) tc Methoxychlor	5.122	5.968	706.1E6	183.8E6	11.231	11.299
21) tc Endrin Keton	5.523	6.154	1674.7E6	455.7E6	10.829	10.931m
22) tc Mirex	5.191	6.127	1357.7E6	336.9E6	11.094	11.406m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3024.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 12:51 pm
 Operator : AFelser
 Sample : 8081 ML
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:24:58 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

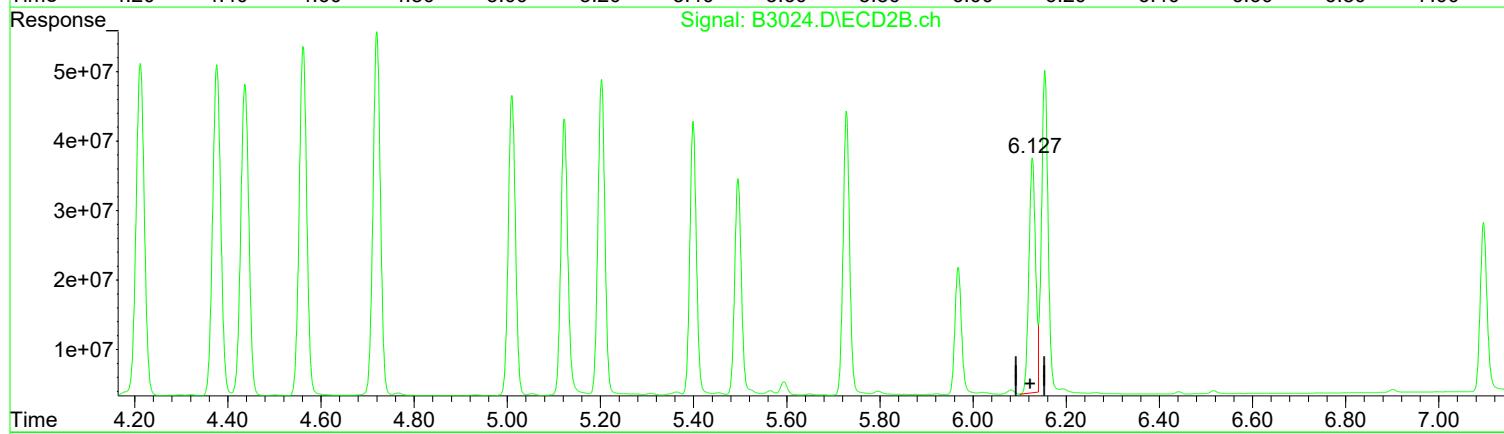
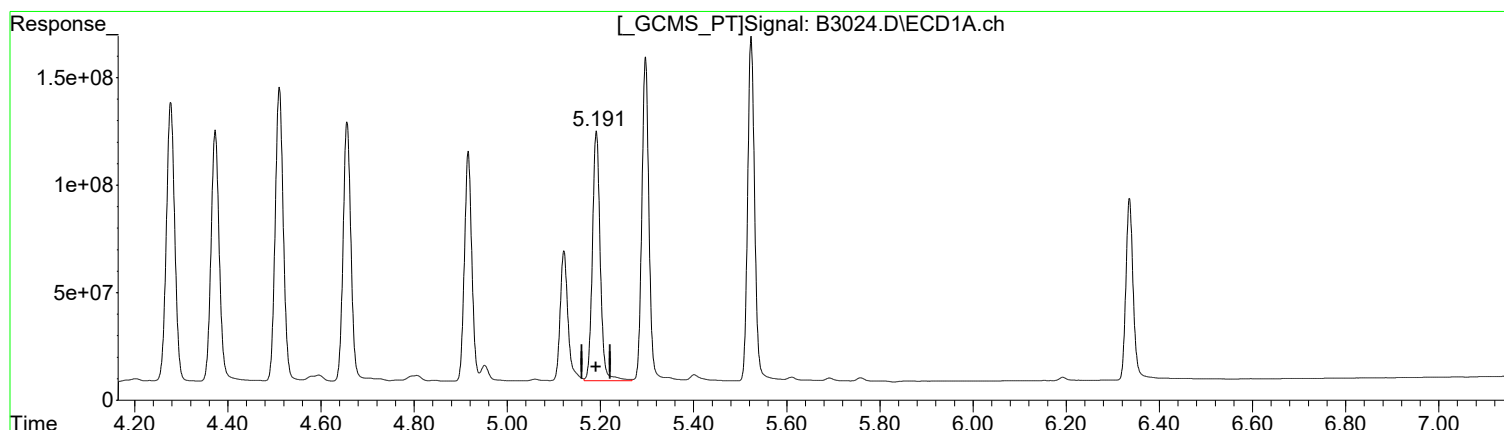
Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:51 pm
Operator : AFelser
Sample : 8081 ML
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:58 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Mirex (tc)
5.191min 11.094 ug/l
response 1357670713

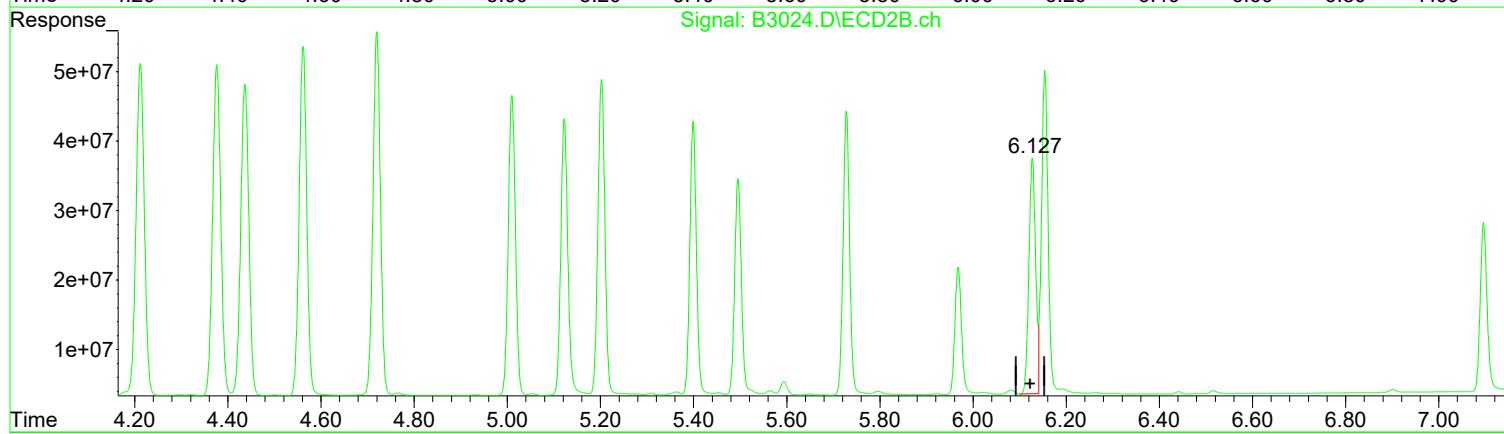
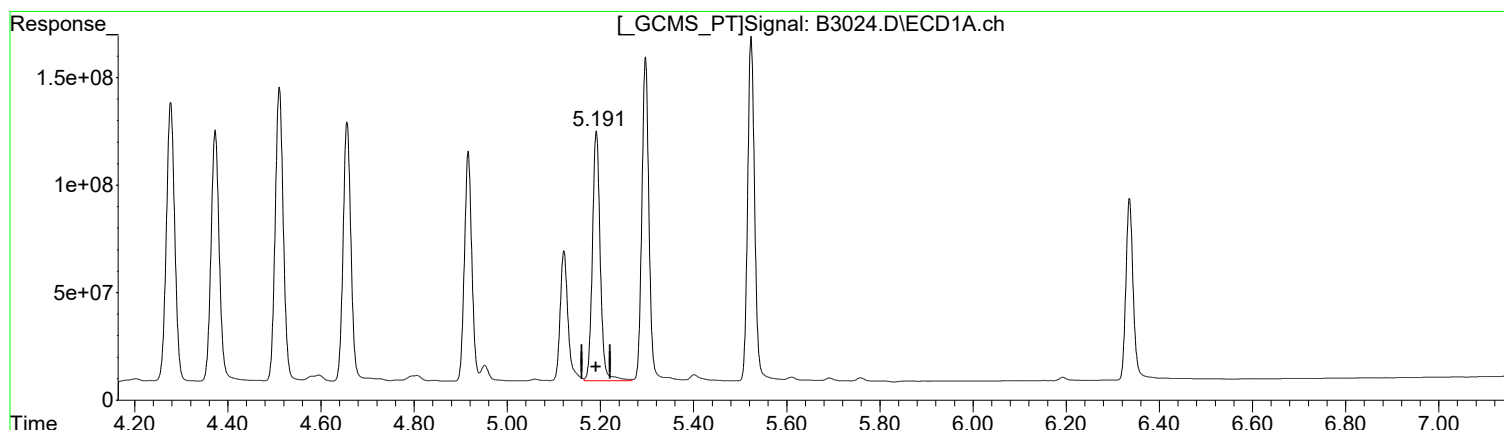
(22) Mirex #2 (tc)
6.127min 11.278 ug/l
response 333071191

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:51 pm
Operator : AFelser
Sample : 8081 ML
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:58 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Mirex (tc)
5.191min 11.094 ug/l
response 1357670713

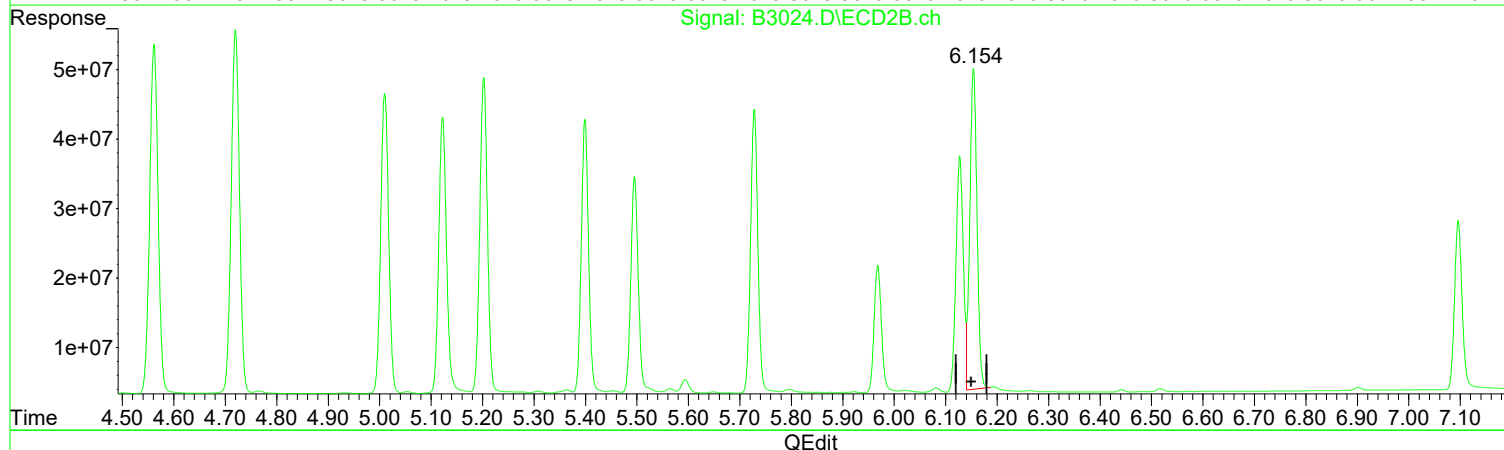
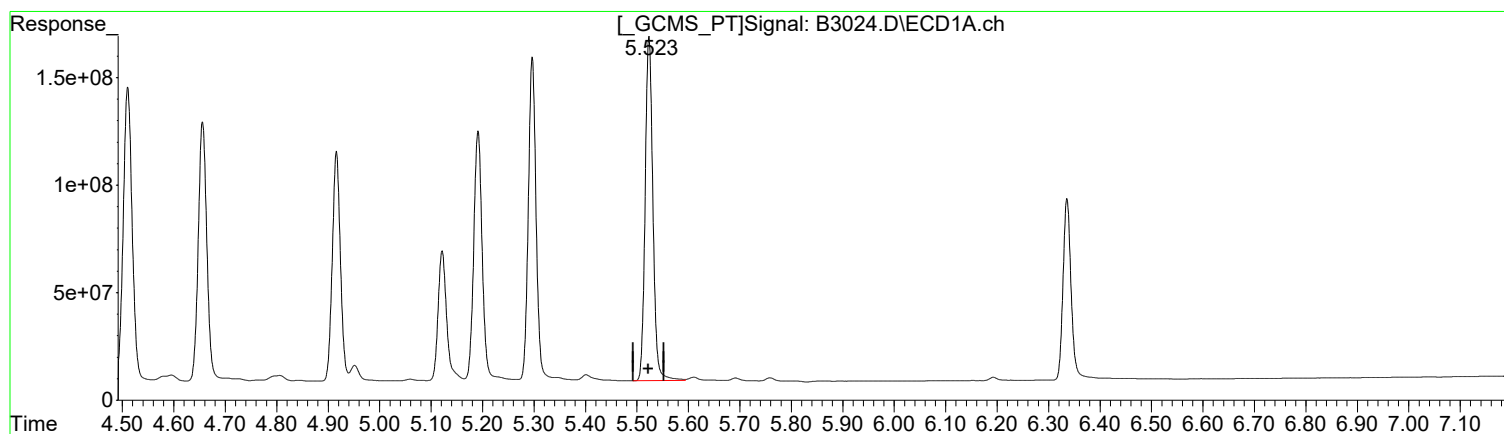
(22) Mirex #2 (tc)
6.127min 11.406 ug/l m
response 336868085

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:51 pm
Operator : AFelser
Sample : 8081 ML
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:58 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endrin Keton (tc)
5.523min 10.829 ug/l
response 1674734696

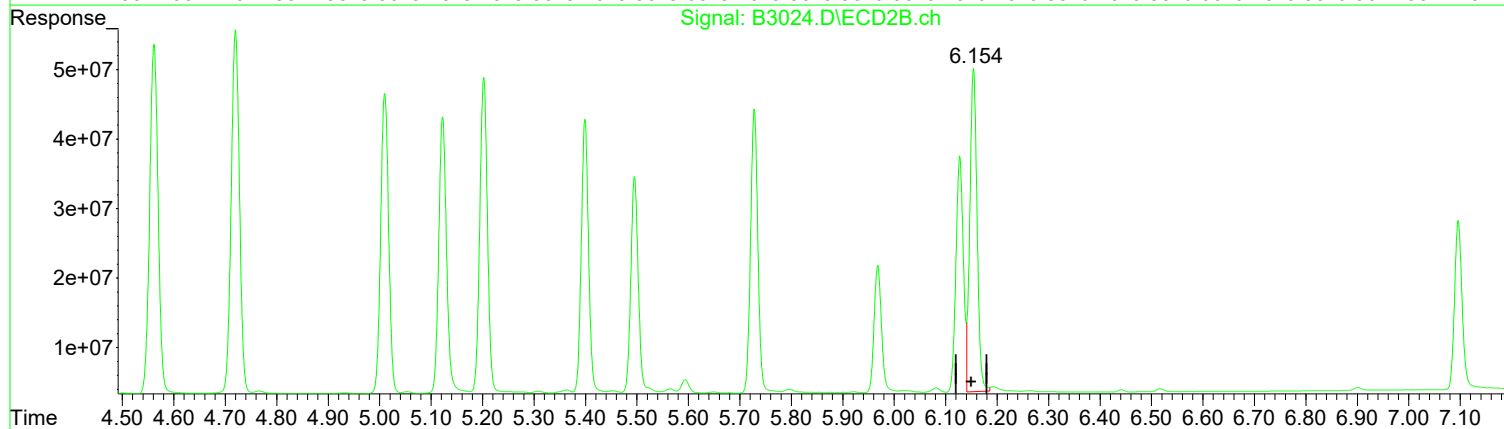
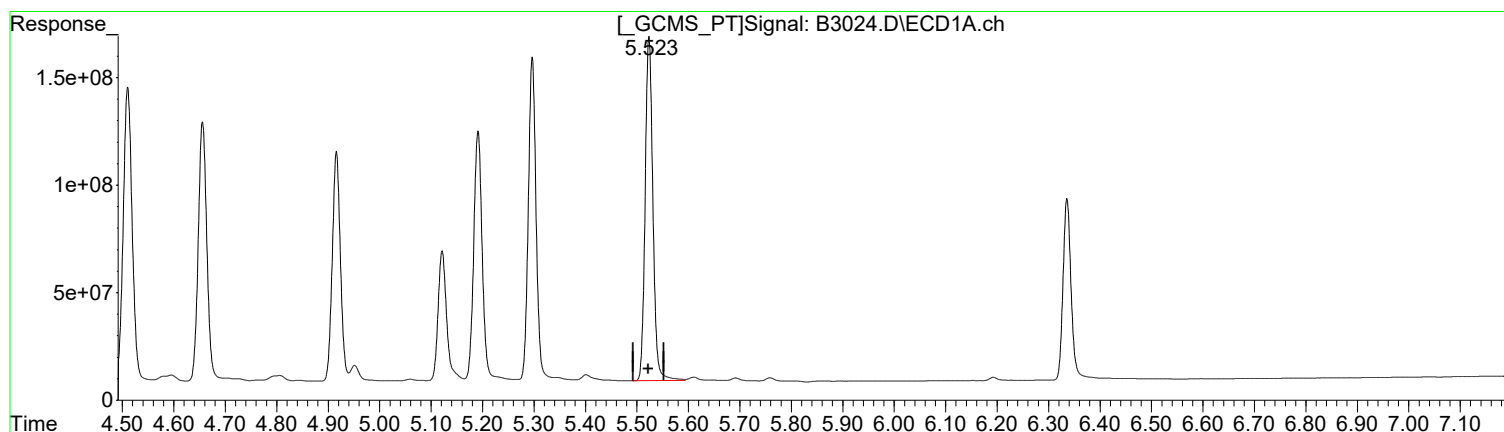
(21) Endrin Keton #2 (tc)
6.154min 10.738 ug/l
response 447610269

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3024.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:51 pm
Operator : AFelser
Sample : 8081 ML
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:58 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endrin Keton (tc)
5.523min 10.829 ug/l
response 1674734696

(21) Endrin Keton #2 (tc)
6.154min 10.931 ug/l m
response 455671190

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3023.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 12:33 pm
 Operator : AFelser
 Sample : 8081 L
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:24:55 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

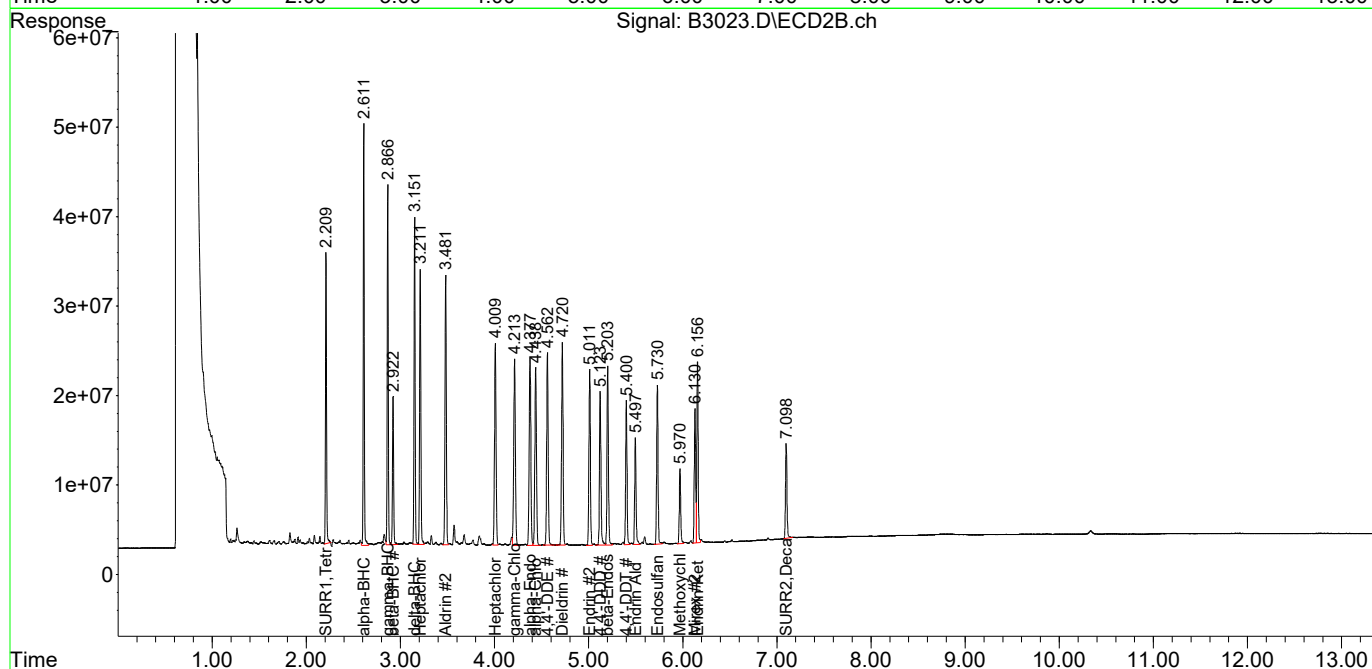
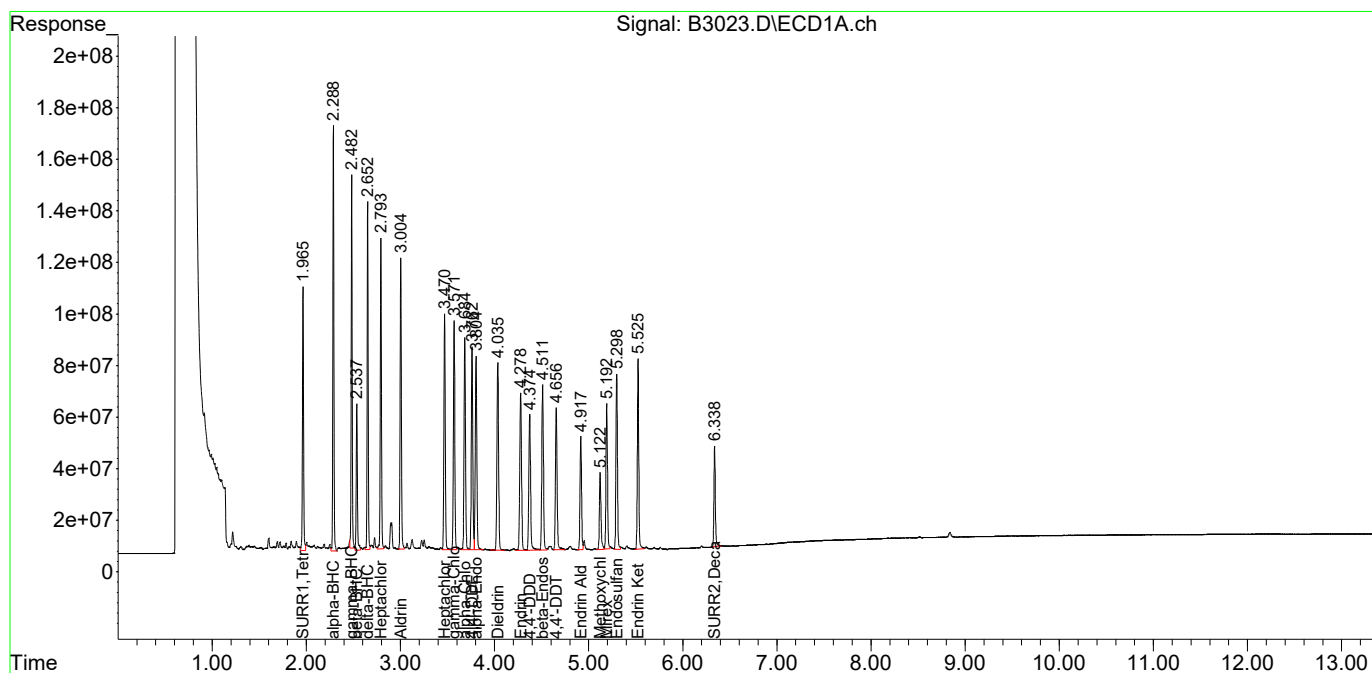
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	1.966	2.209	833.8E6	244.1E6	4.943	4.795m
Spiked Amount	100.000 Range	30 - 150	Recovery =		4.94%#	4.79%#
23) S SURR2,Dec...	6.338	7.098	414.3E6	112.7E6	5.029m	5.167m
Spiked Amount	100.000 Range	30 - 150	Recovery =		5.03%#	5.17%#
Target Compounds						
2) tc alpha-BHC	2.288	2.611	1225.4E6	356.8E6	4.743	4.683
3) tcm gamma-BHC (L	2.482	2.866	1093.2E6	309.4E6	4.610m	4.661
4) tcm Heptachlor	2.793	3.211	1014.6E6	276.5E6	5.111	4.792
5) tcm Aldrin	3.004	3.481	1028.0E6	291.6E6	4.926	4.678
6) tc beta-BHC	2.537	2.923	484.0E6	137.0E6	5.454	5.056
7) tc delta-BHC	2.653	3.151	1048.7E6	300.9E6	4.726	4.558
8) tc Heptachlor E	3.470	4.009	904.1E6	258.2E6	5.156	4.903
9) tc alpha-Endosu	3.805	4.378	852.2E6	254.1E6	5.147	4.780
10) tc gamma-Chlord	3.571	4.214	901.9E6	260.2E6	4.919	4.705
11) tc alpha-Chlord	3.685	4.438	877.6E6	239.5E6	5.002	4.853
12) tc 4,4'-DDE	3.762	4.563	844.1E6	244.5E6	4.817	4.557
13) tcm Dieldrin	4.035	4.721	894.4E6	253.2E6	4.985	4.701
14) tcm Endrin	4.278	5.011	785.0E6	207.2E6	5.144	4.851
15) tc beta-Endosul	4.511	5.203	780.8E6	210.0E6	5.126	4.810
16) tc 4,4'-DDD	4.374	5.123	674.9E6	183.8E6	4.902	4.646
17) tcm 4,4'-DDT	4.657	5.401	658.8E6	167.1E6	4.847	4.582
18) tc Endrin Aldeh	4.917	5.497	485.1E6	123.2E6	4.796	4.532
19) tc Endosulfan S	5.298	5.730	736.8E6	177.8E6	4.991	4.877
20) tc Methoxychlor	5.123	5.971	344.8E6	83589407	5.485	5.140
21) tc Endrin Keton	5.525	6.156	778.0E6	200.9E6	5.031	4.820m
22) tc Mirex	5.192	6.130	638.2E6	152.9E6	5.215m	5.176m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

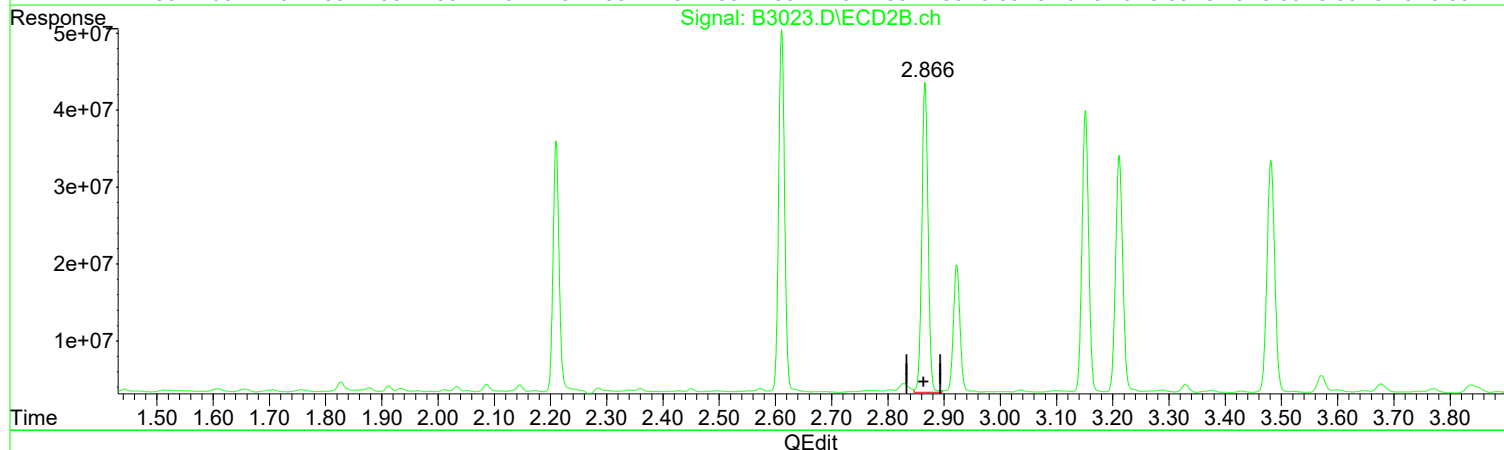
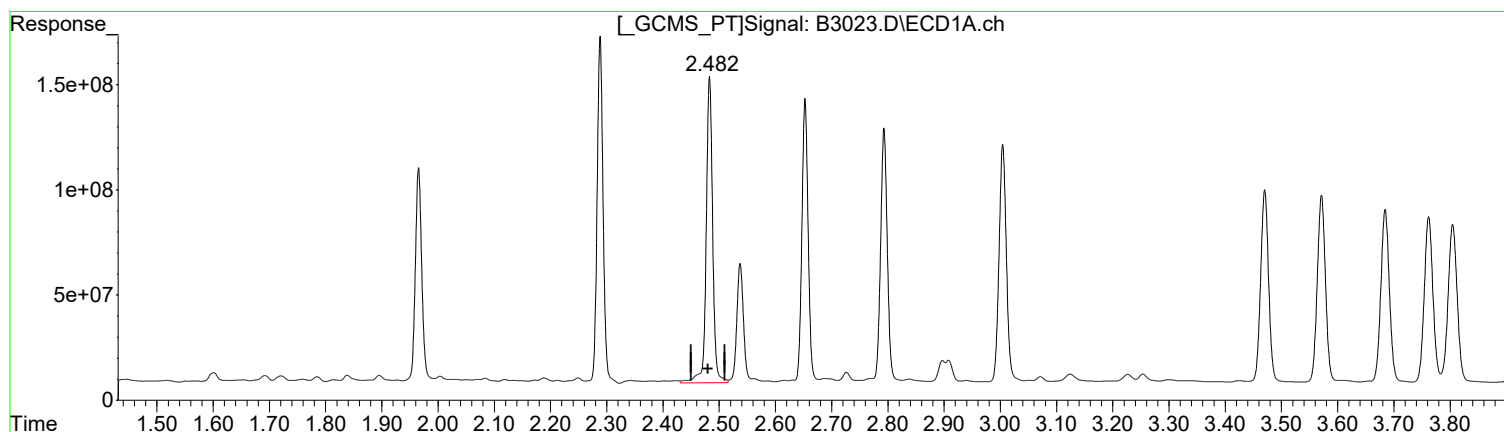
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.483min 4.881 ug/l
response 1157572779

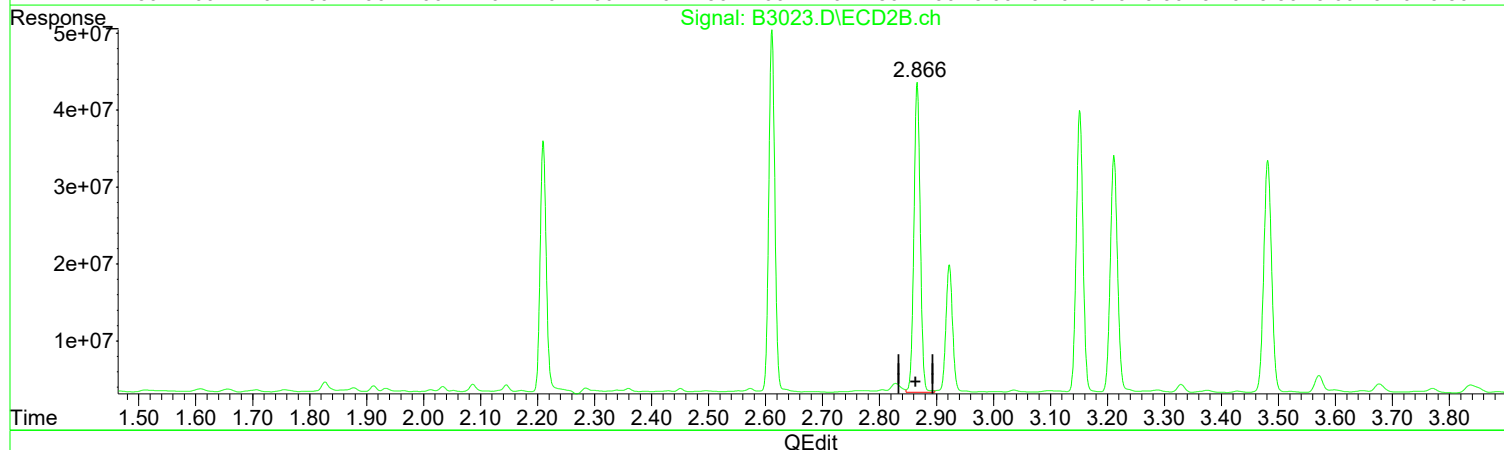
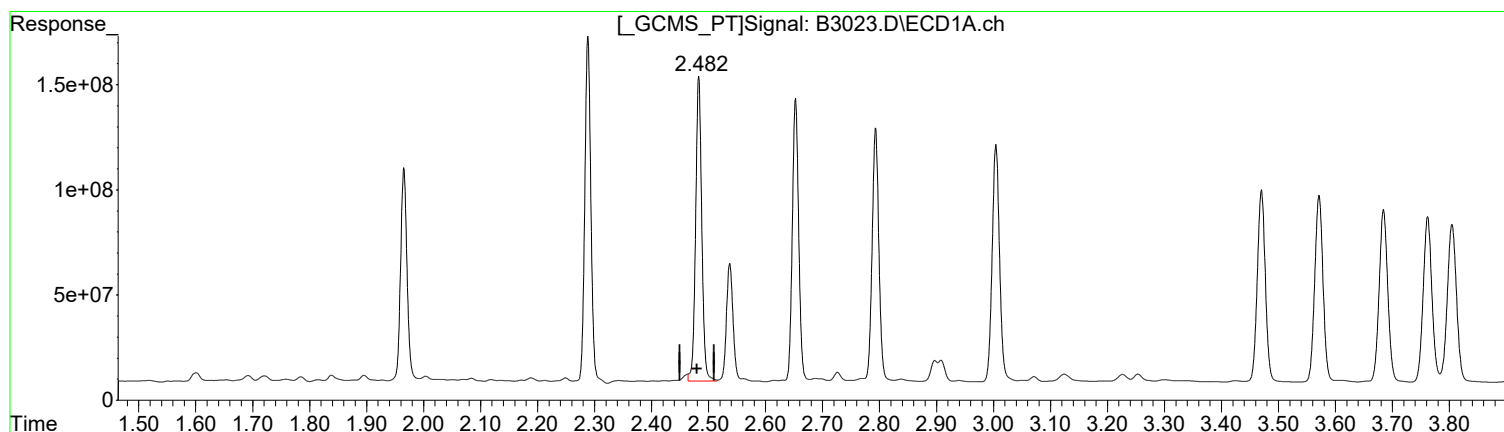
(3) gamma-BHC (L #2 (tcm)
2.866min 4.661 ug/l
response 309371329

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.482min 4.610 ug/l m
response 1093249052

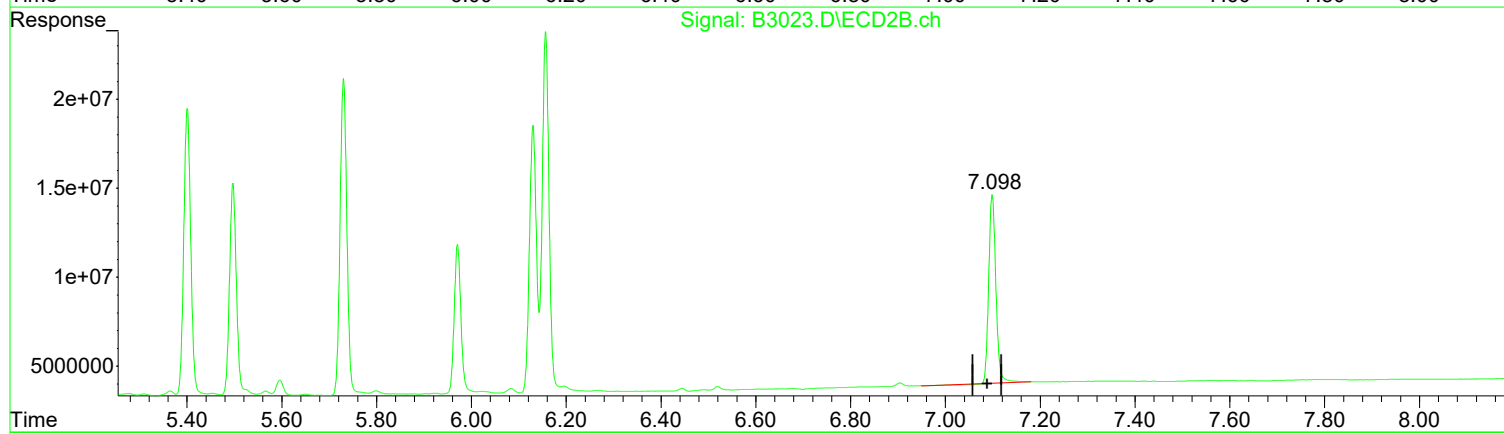
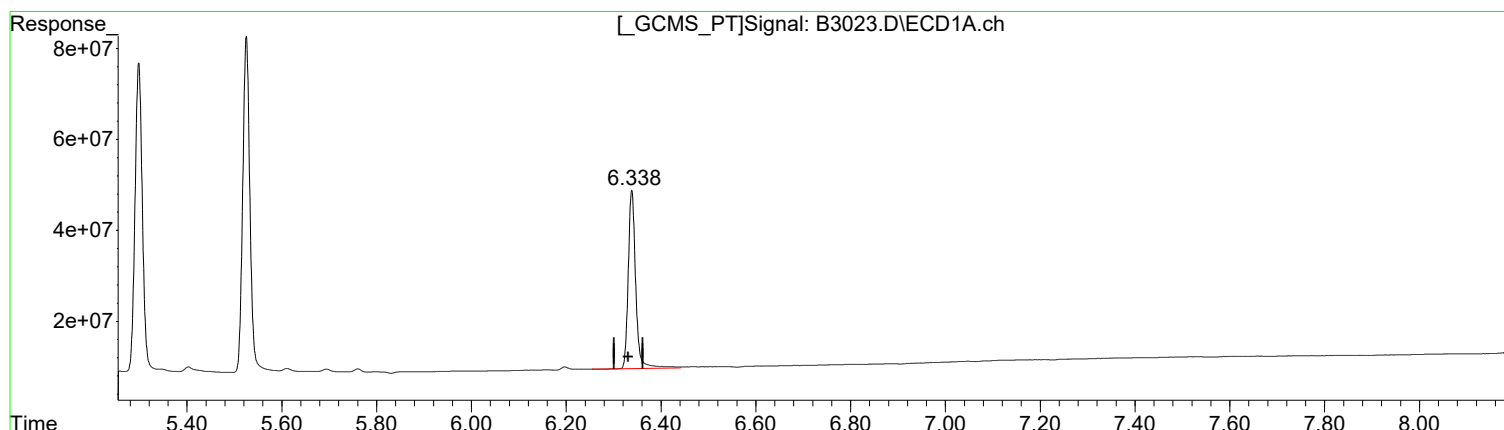
(3) gamma-BHC (L #2 (tcm)
2.866min 4.661 ug/l
response 309371329

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)
6.338min 5.251 ug/l
response 432574842

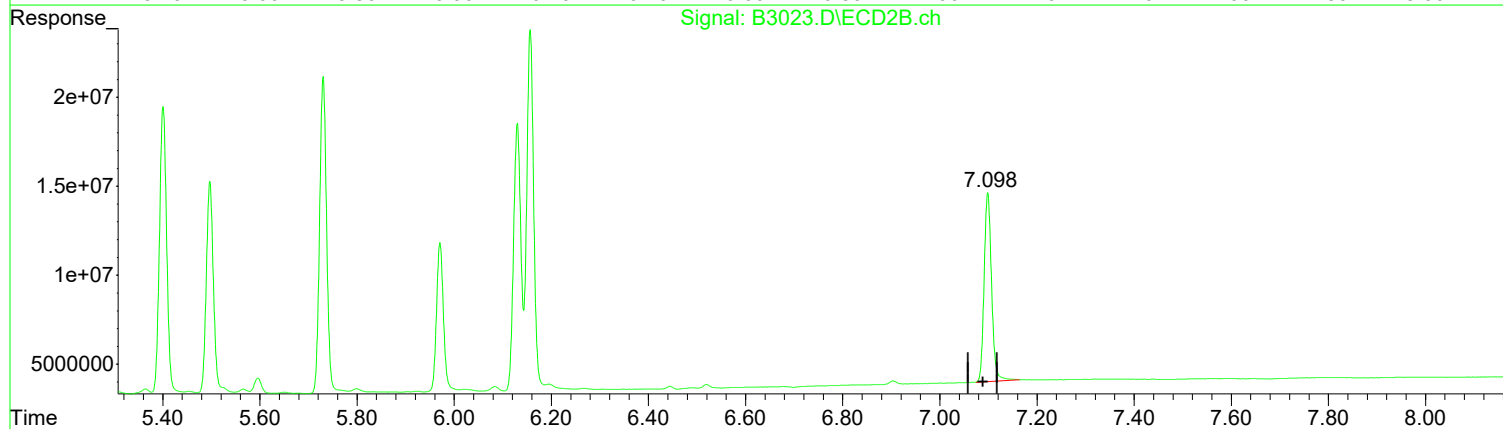
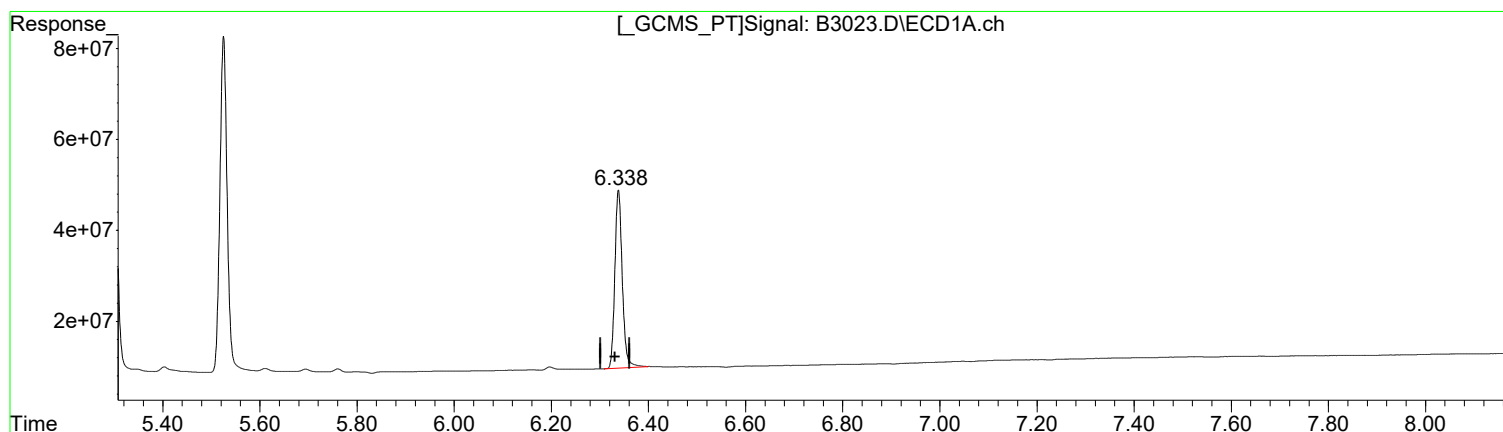
(23) SURR2,Decachlorobiphenyl #2 (S)
7.099min 5.089 ug/l
response 110948505

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)

6.338min 5.029 ug/l m
response 414317698

(23) SURR2,Decachlorobiphenyl #2 (S)

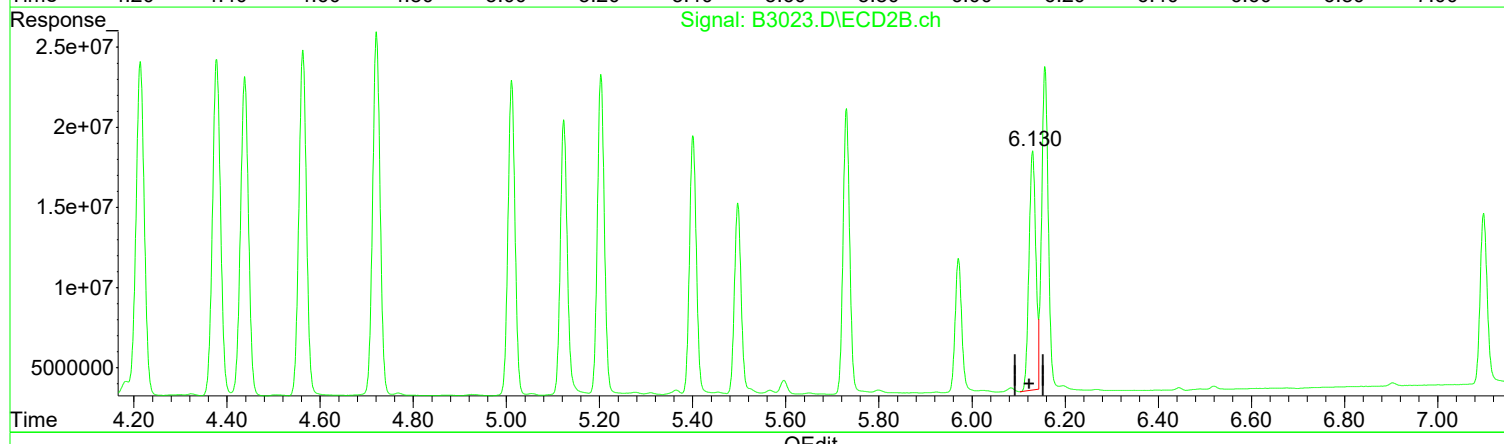
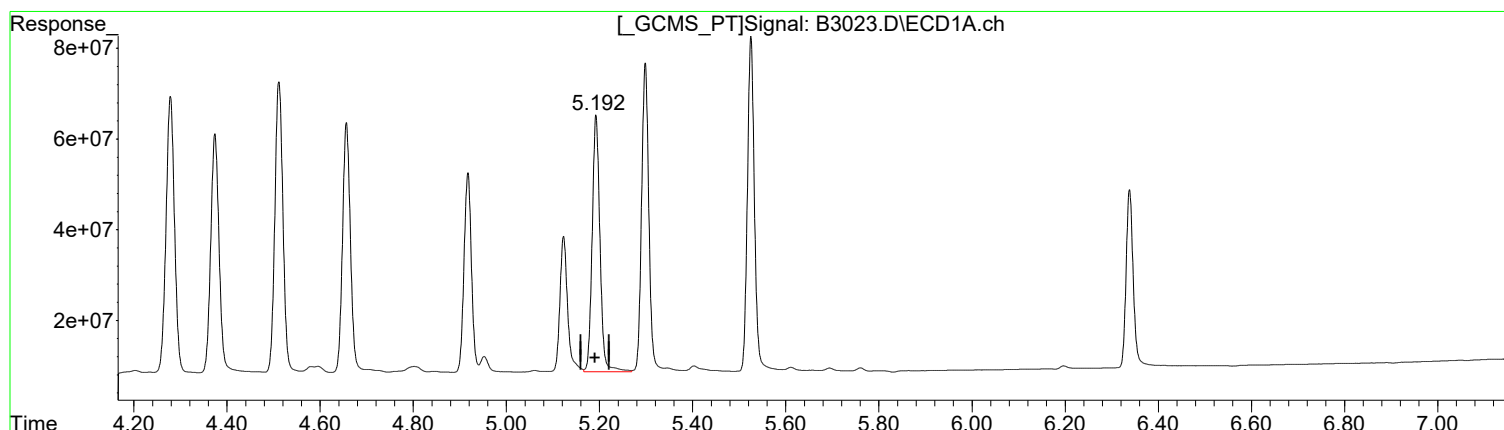
7.098min 5.167 ug/l m
response 112656908

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Mirex (tc)
5.192min 5.393 ug/l
response 659953761

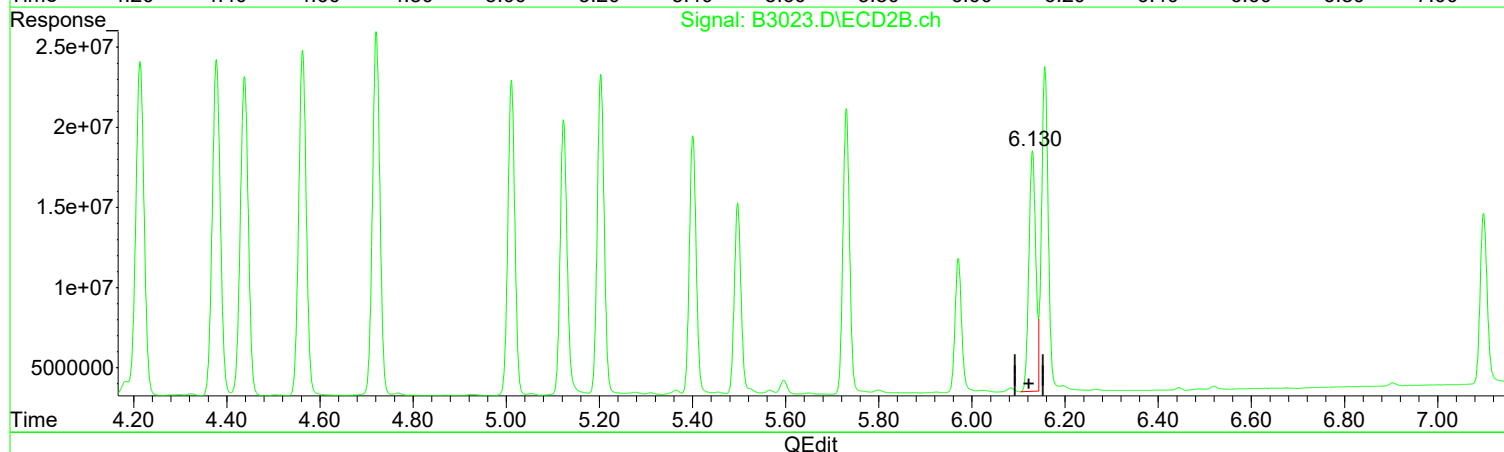
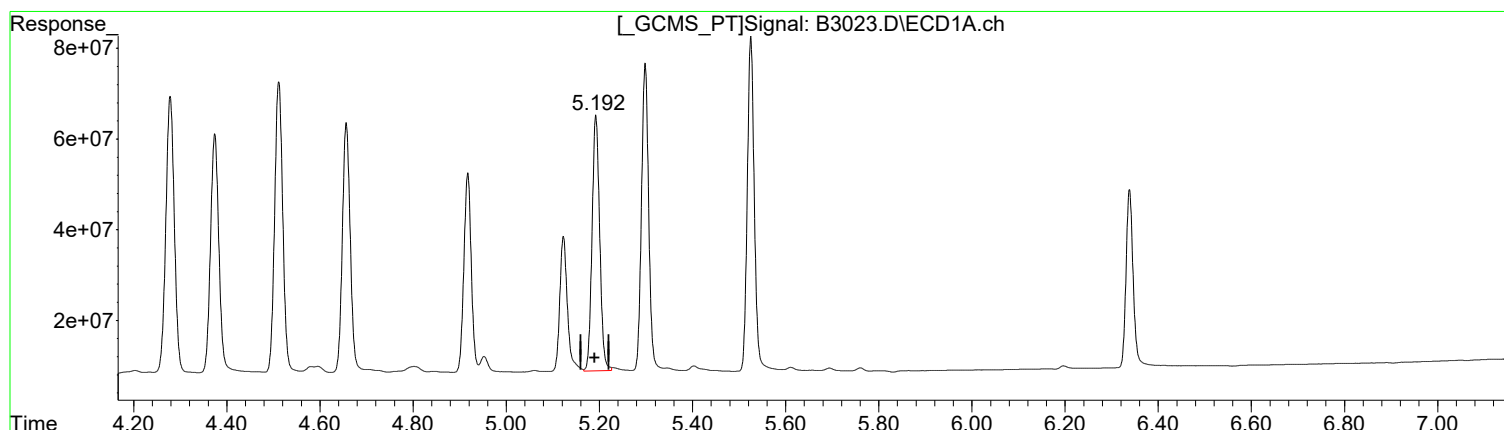
(22) Mirex #2 (tc)
6.130min 5.131 ug/l
response 151543437

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Mirex (tc)
5.192min 5.215 ug/l m
response 638213266

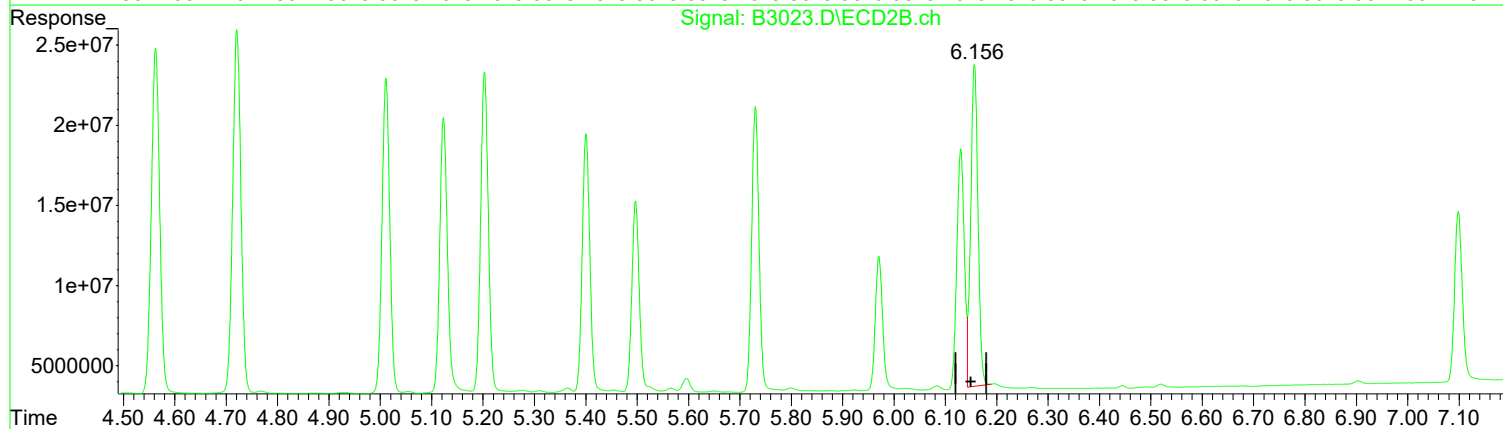
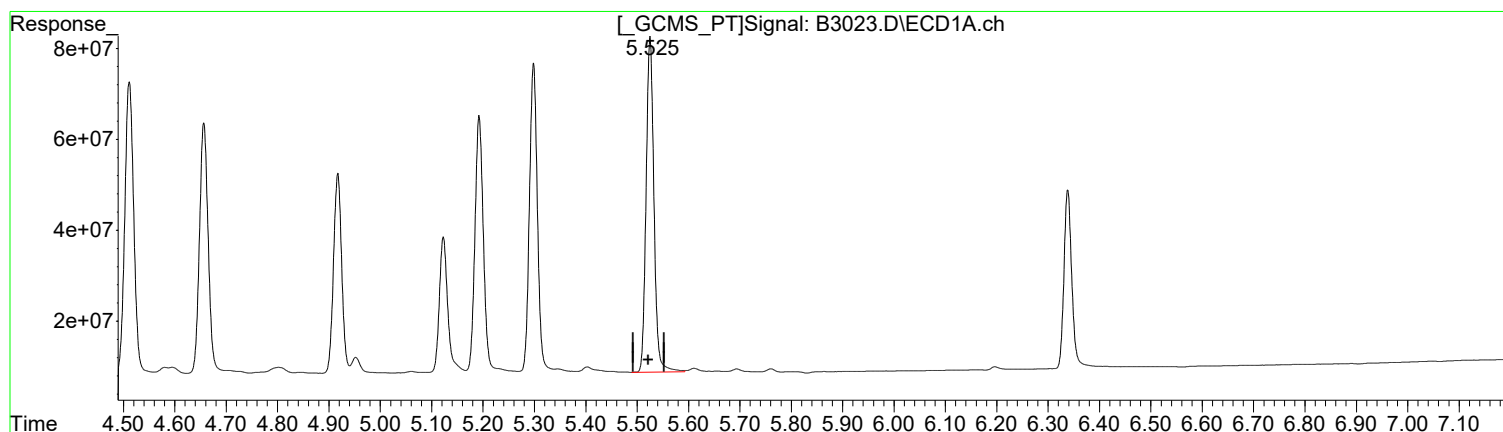
(22) Mirex #2 (tc)
6.130min 5.176 ug/l m
response 152866759

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endrin Keton (tc)
5.525min 5.031 ug/l
response 777975196

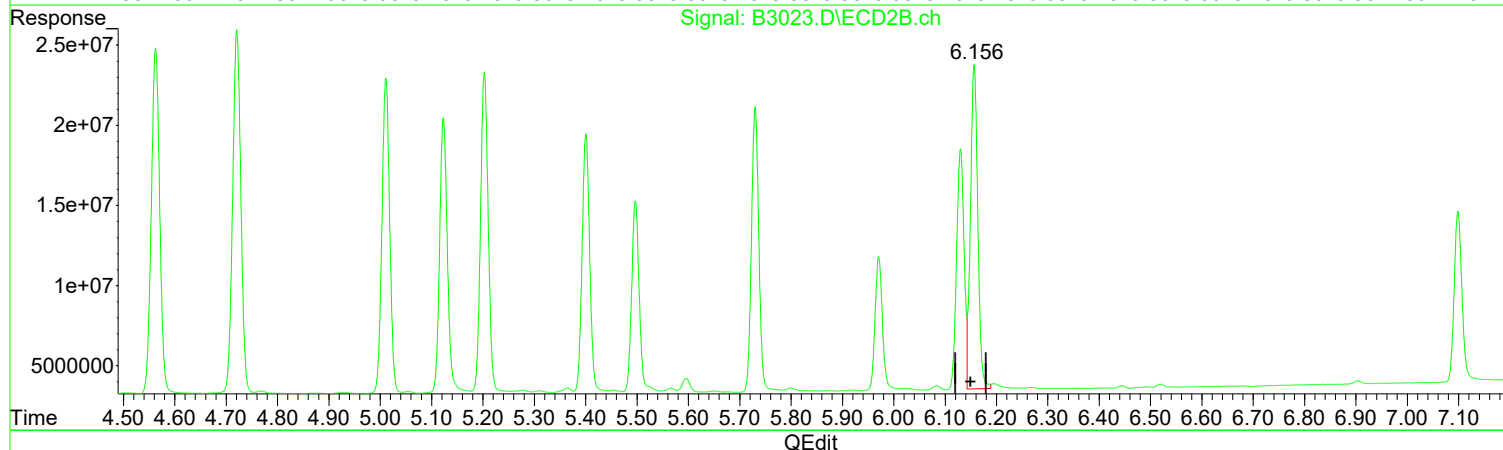
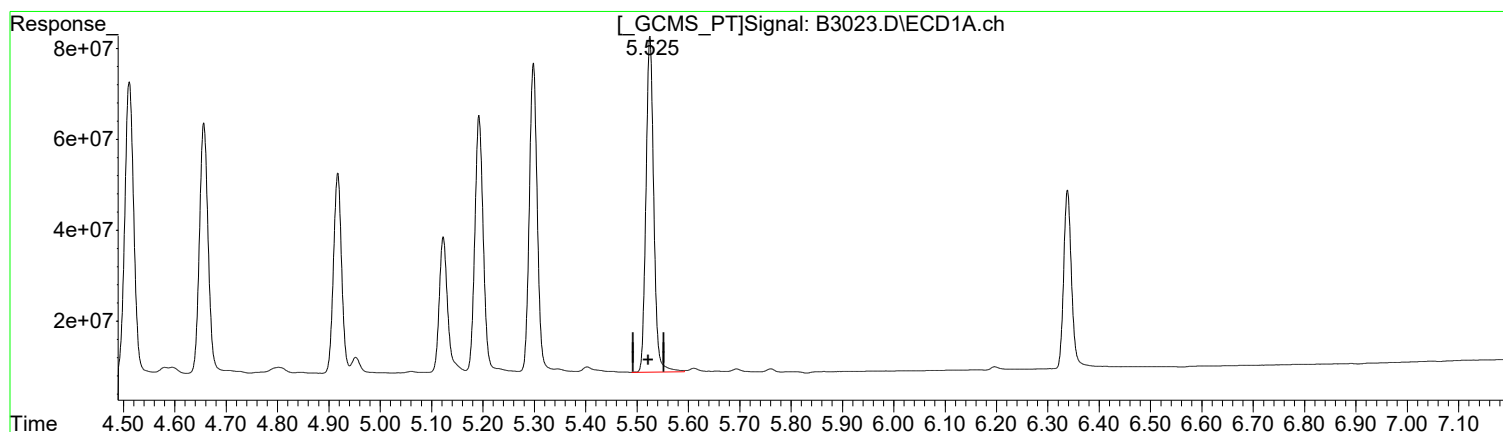
(21) Endrin Keton #2 (tc)
6.157min 4.696 ug/l
response 195761014

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endrin Keton (tc)
5.525min 5.031 ug/l
response 777975196

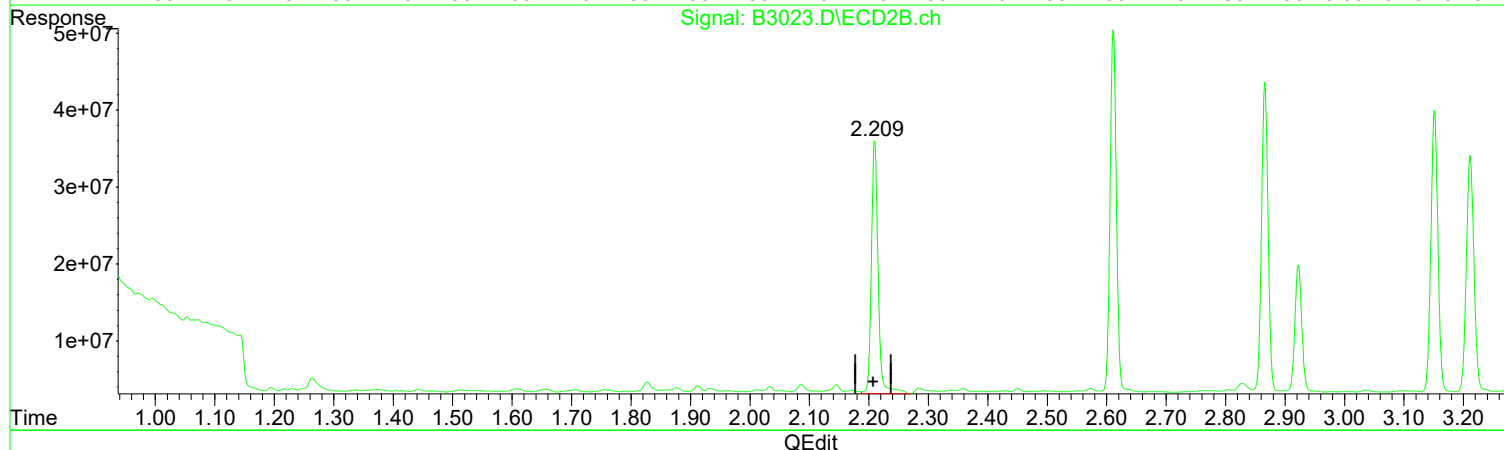
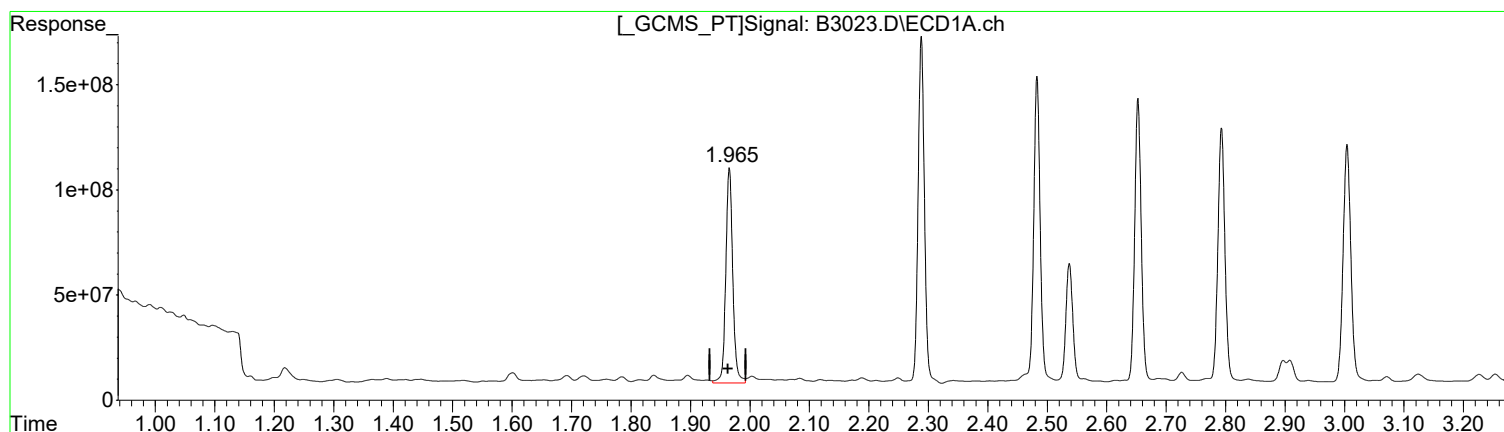
(21) Endrin Keton #2 (tc)
6.156min 4.820 ug/l m
response 200921199

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.966min 4.943 ug/l
response 833765037

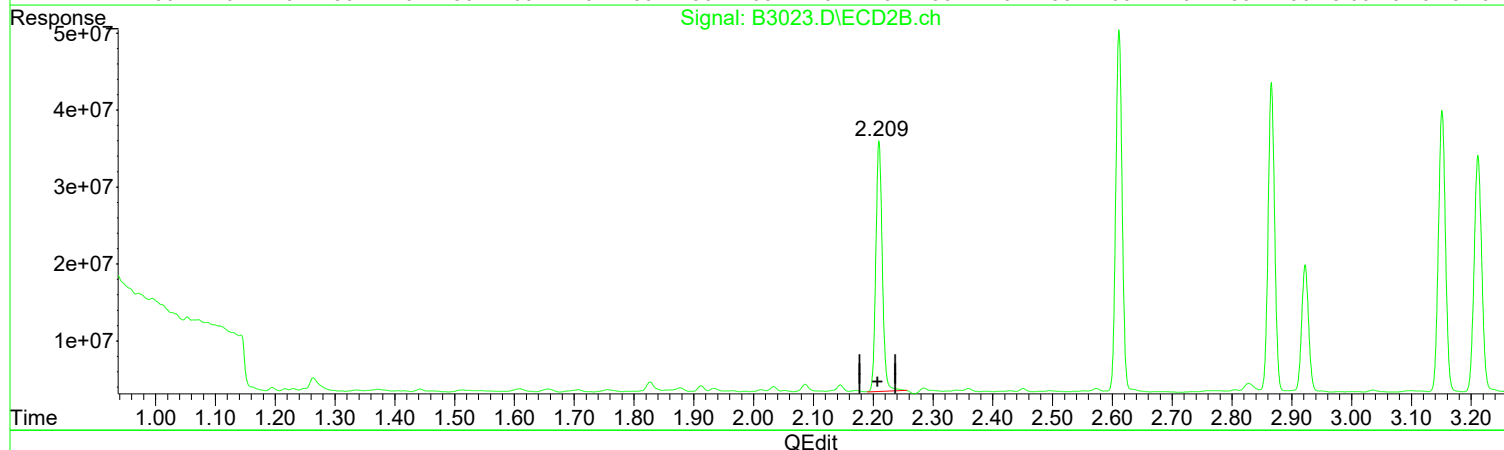
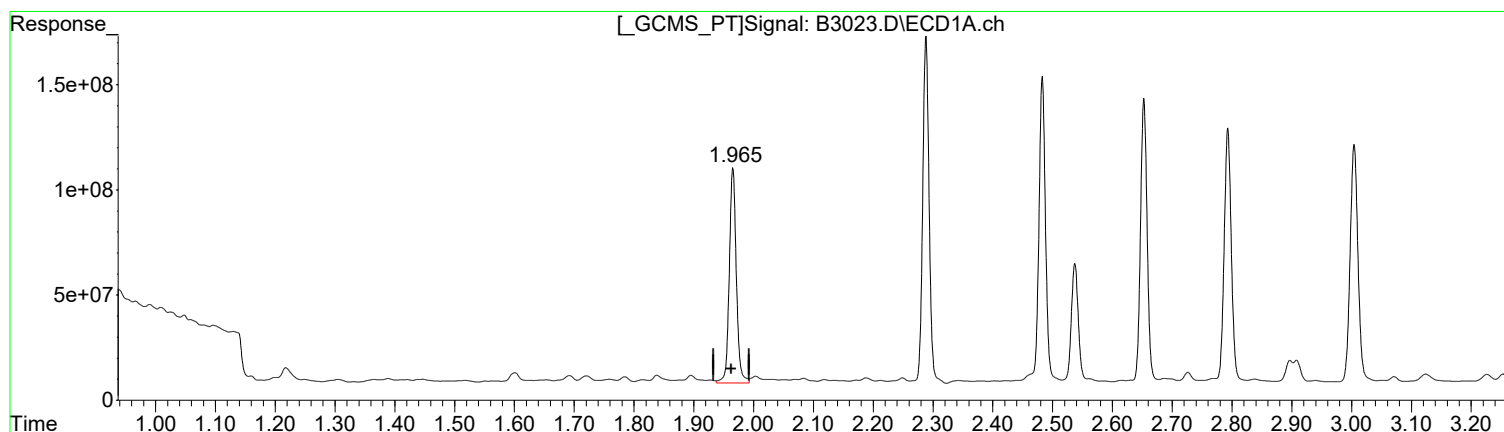
(1) SURR1,Tetrac #2 (S)
2.210min 5.087 ug/l
response 258952626

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3023.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:33 pm
Operator : AFelser
Sample : 8081 L
Misc :
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:55 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.966min 4.943 ug/l
response 833765037

(1) SURR1,Tetrac #2 (S)
2.209min 4.795 ug/l m
response 244090521

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3022.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 12:15 pm
 Operator : AFelser
 Sample : 8081 LL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 09:24:52 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 09:24:25 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

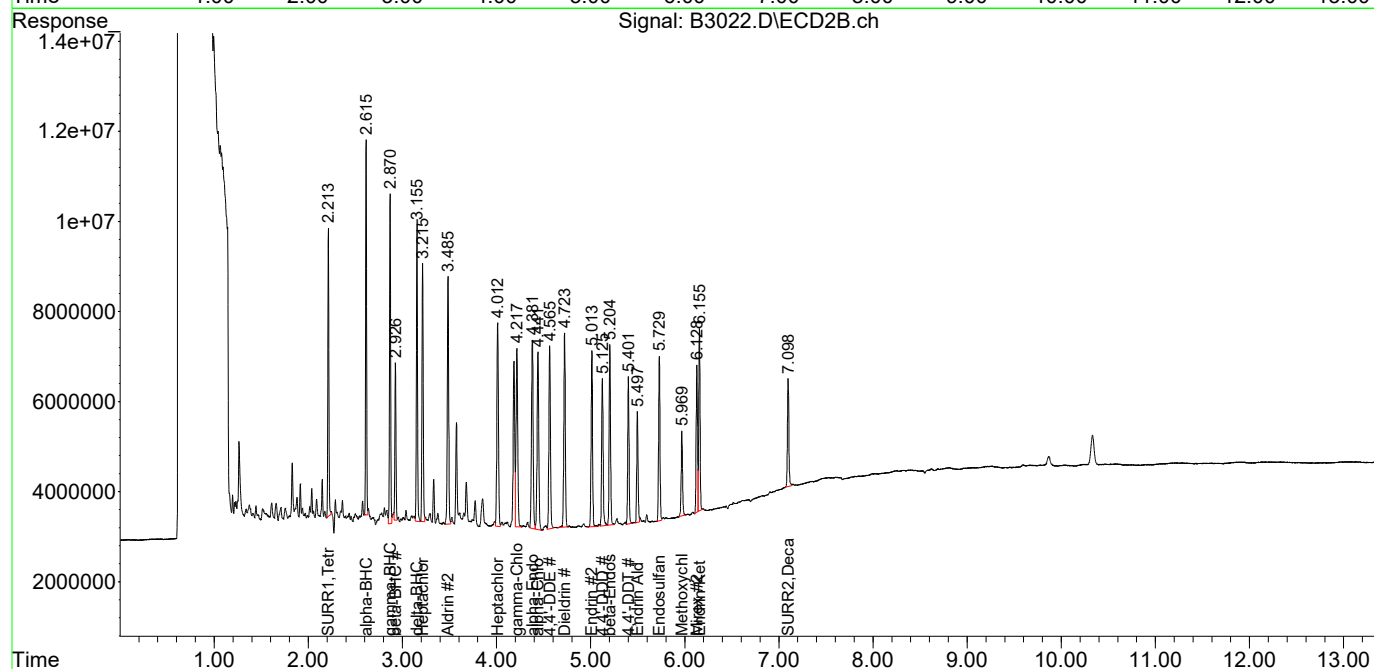
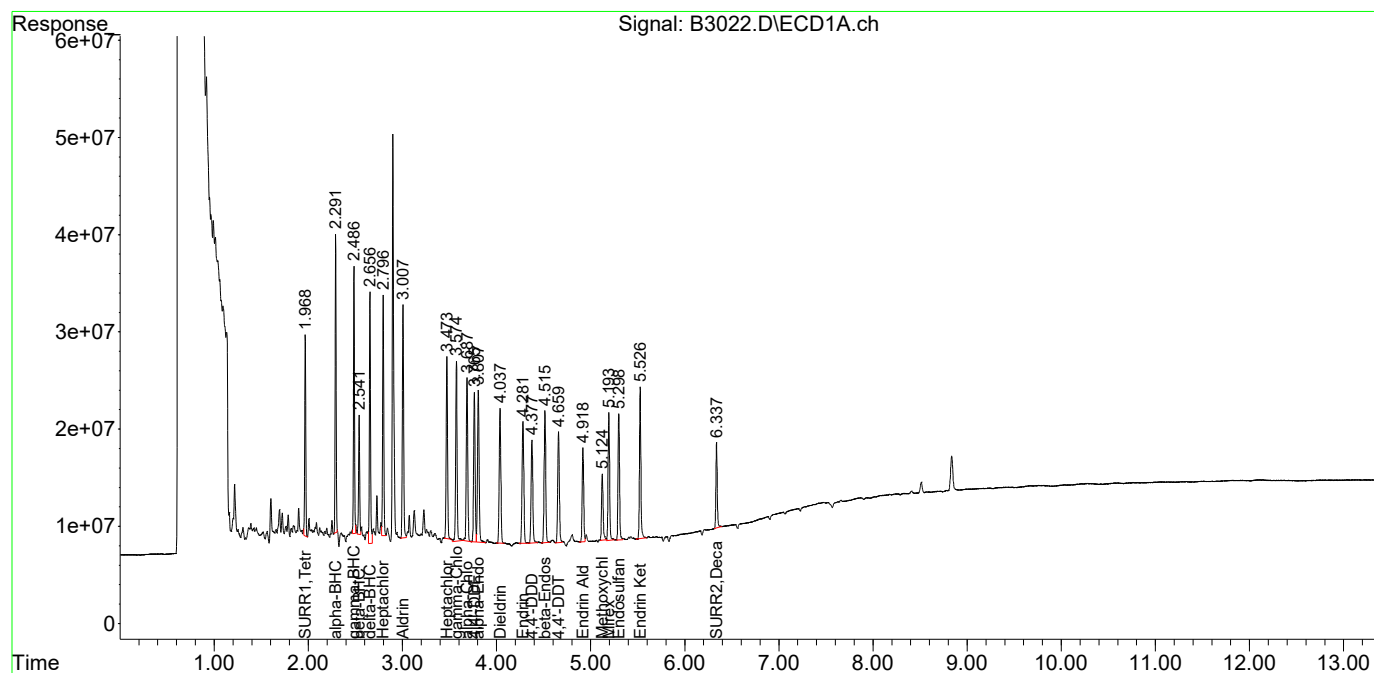
System Monitoring Compounds						
1) S SURR1,Tet...	1.968	2.213	158.9E6	47465672	0.942m	0.932m
Spiked Amount	100.000	Range	30 - 150	Recovery =	0.94%#	0.93%#
23) S SURR2,Dec...	6.337	7.098	89179595	25033524	1.082m	1.148m
Spiked Amount	100.000	Range	30 - 150	Recovery =	1.08%#	1.15%#
Target Compounds						
2) tc alpha-BHC	2.291	2.615	219.6E6	60705189	0.850m	0.797m
3) tcm gamma-BHC (L	2.486	2.870	206.6E6	58268953	0.871m	0.878
4) tcm Heptachlor	2.796	3.215	206.1E6	51814196	1.038m	0.898m
5) tcm Aldrin	3.007	3.485	227.3E6	54765876	1.089	0.879
6) tc beta-BHC	2.541	2.926	97812287	27681402	1.102m	1.021m
7) tc delta-BHC	2.656	3.155	215.9E6	55493833	0.973	0.840
8) tc Heptachlor E	3.473	4.013	186.4E6	53350325	1.063m	1.013
9) tc alpha-Endosu	3.807	4.381	181.0E6	51497647	1.093	0.969
10) tc gamma-Chlord	3.574	4.217	195.9E6	50584772	1.068	0.915
11) tc alpha-Chlord	3.687	4.441	183.2E6	48878686	1.044	0.991
12) tc 4,4'-DDE	3.765	4.566	167.7E6	47227272	0.957	0.880
13) tcm Dieldrin	4.038	4.723	166.8E6	48674875	0.929	0.904
14) tcm Endrin	4.282	5.013	160.8E6	41217897	1.054	0.965
15) tc beta-Endosul	4.515	5.205	163.7E6	41127399	1.075	0.942
16) tc 4,4'-DDD	4.377	5.125	131.1E6	35169467	0.952	0.889
17) tcm 4,4'-DDT	4.659	5.401	135.9E6	32578564	1.000m	0.893
18) tc Endrin Aldeh	4.919	5.497	106.0E6	24350055	1.048	0.896m
19) tc Endosulfan S	5.298	5.729	140.7E6	35959447	0.953m	0.987m
20) tc Methoxychlor	5.124	5.969	77341335	18522106	1.230m	1.139m
21) tc Endrin Keton	5.526	6.156	165.9E6	39316634	1.073	0.943
22) tc Mirex	5.194	6.129	149.7E6	33304979	1.223	1.128
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

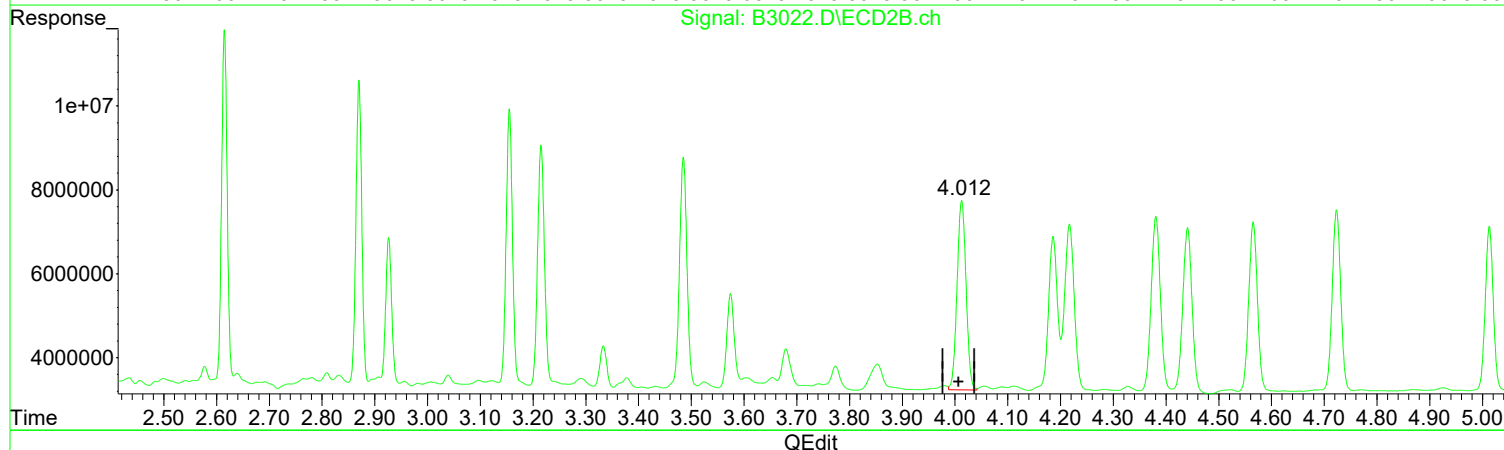
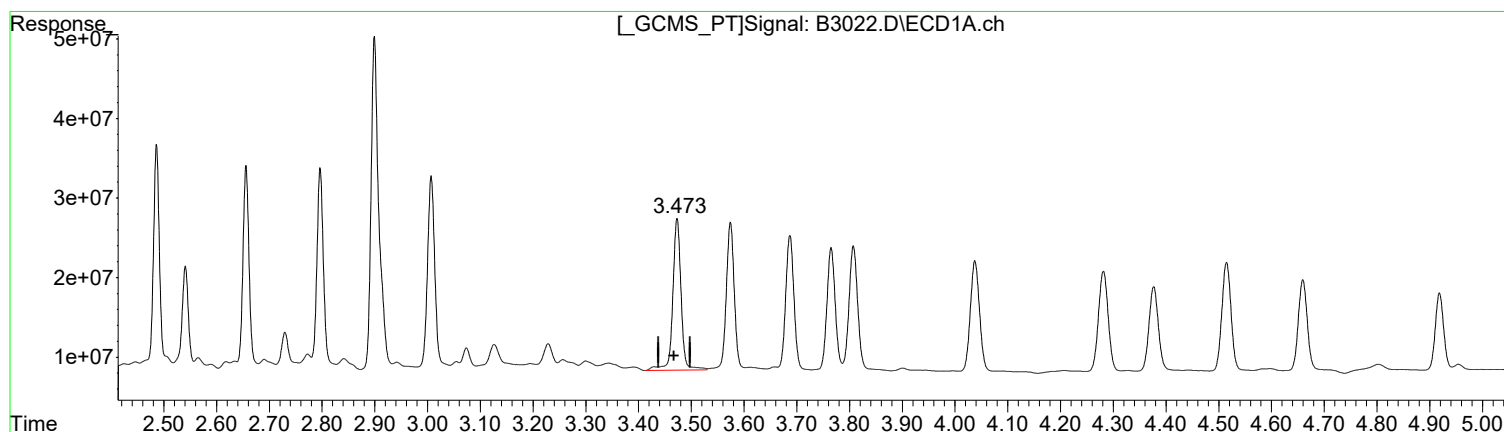
Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) Heptachlor E (tc)
3.473min 1.192 ug/l
response 209001998

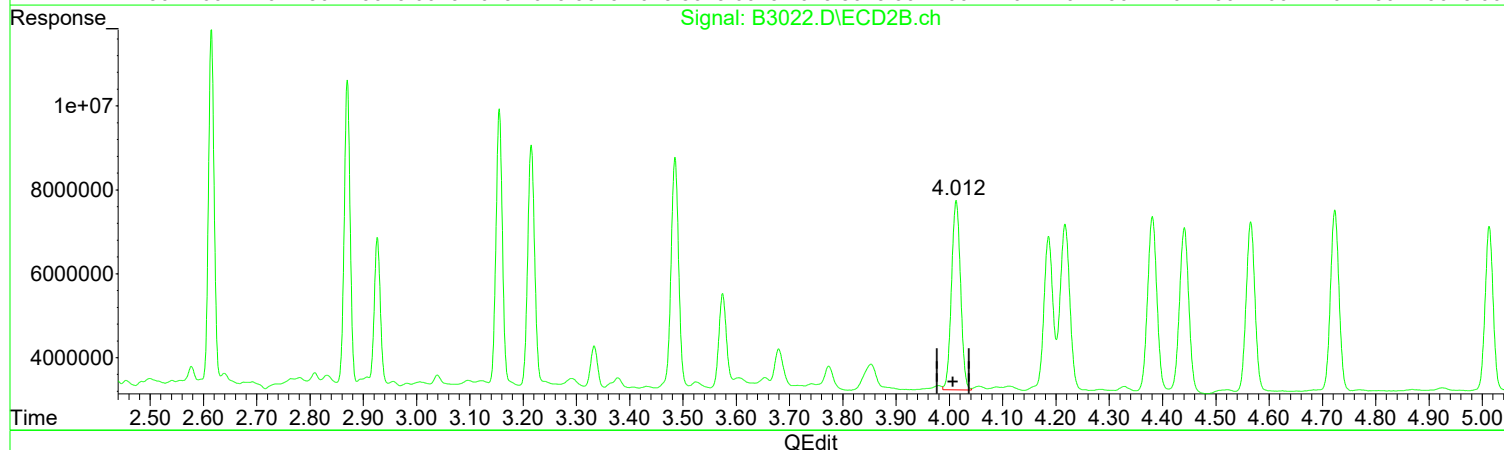
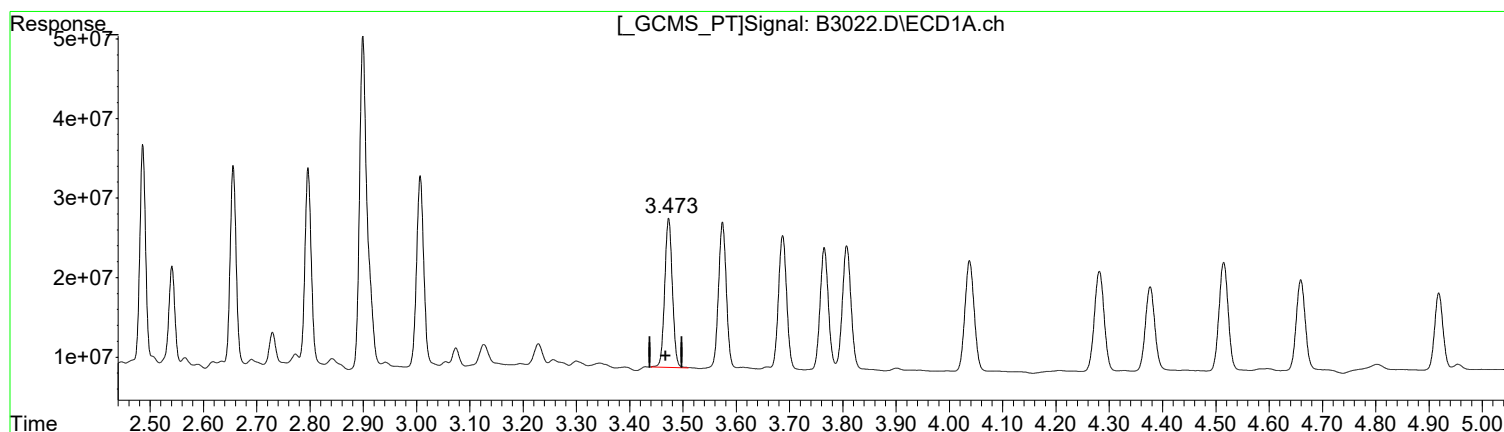
(8) Heptachlor E #2 (tc)
4.013min 1.013 ug/l
response 53350325

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) Heptachlor E (tc)
3.473min 1.063 ug/l m
response 186360131

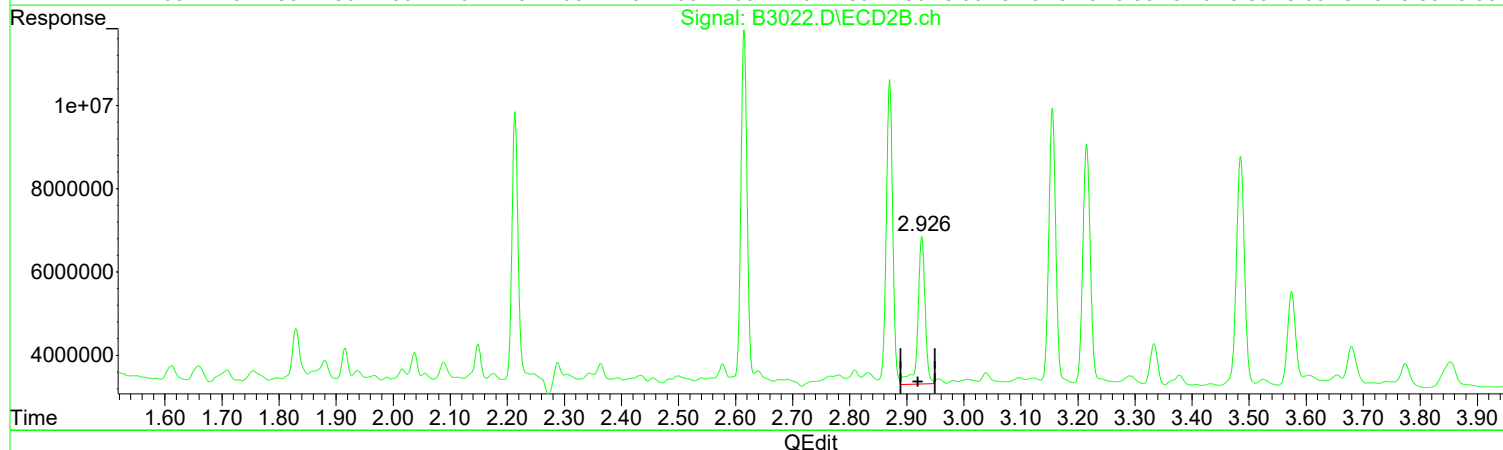
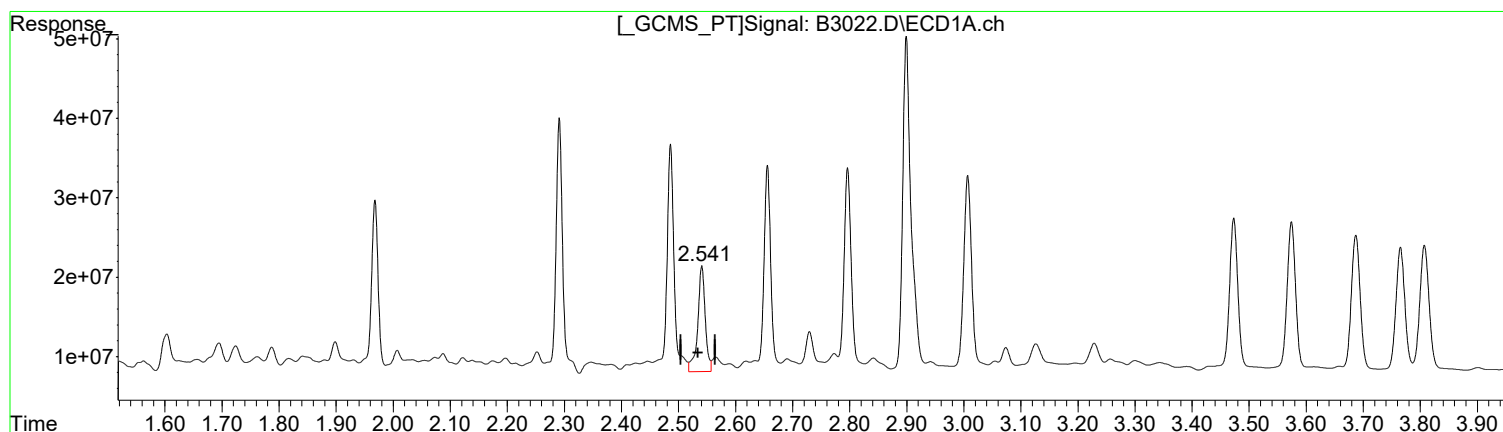
(8) Heptachlor E #2 (tc)
4.013min 1.013 ug/l
response 53350325

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) beta-BHC (tc)
2.541min 1.380 ug/l
response 122502553

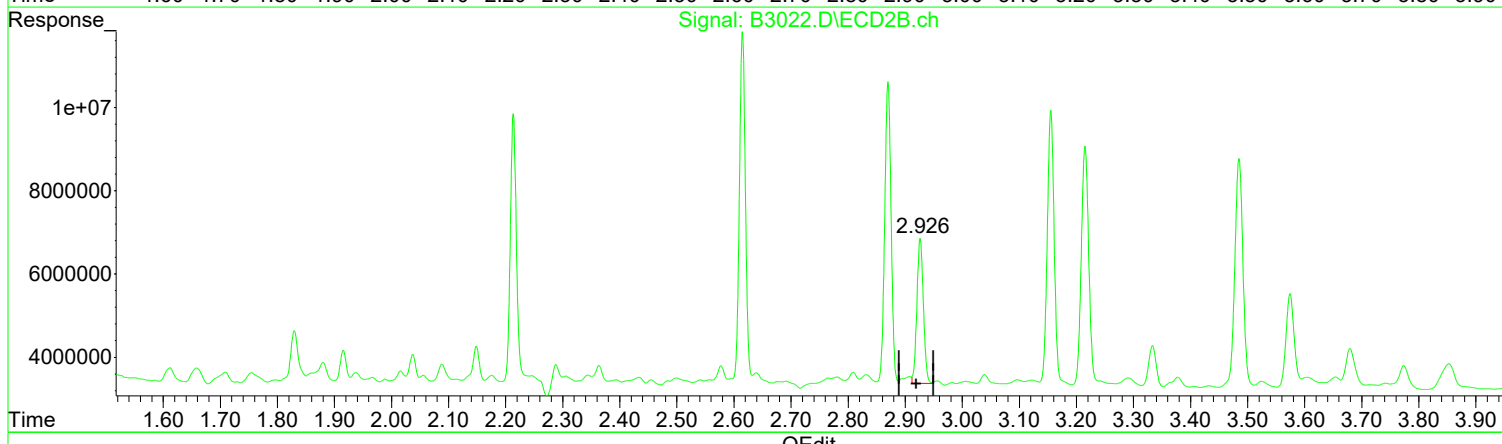
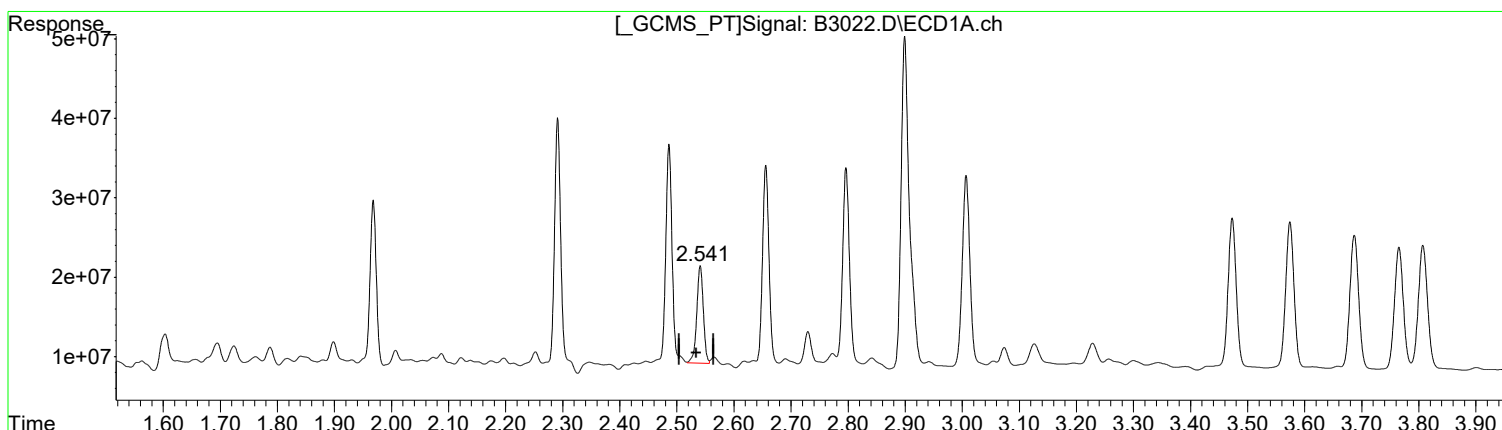
(6) beta-BHC #2 (tc)
2.926min 1.168 ug/l
response 31669837

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) beta-BHC (tc)
2.541min 1.102 ug/l m
response 97812287

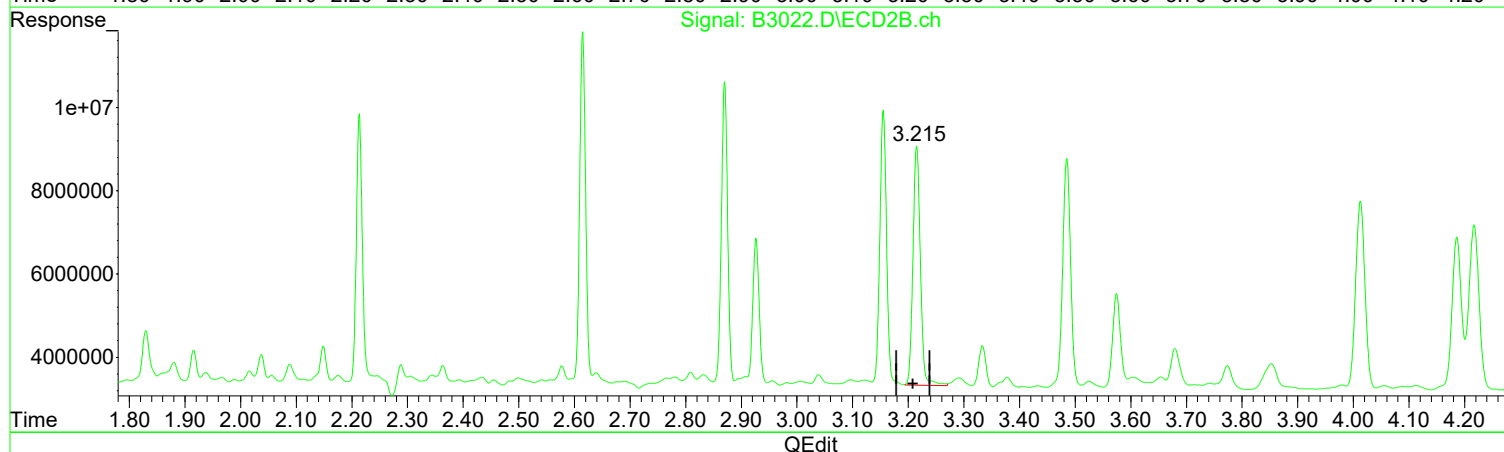
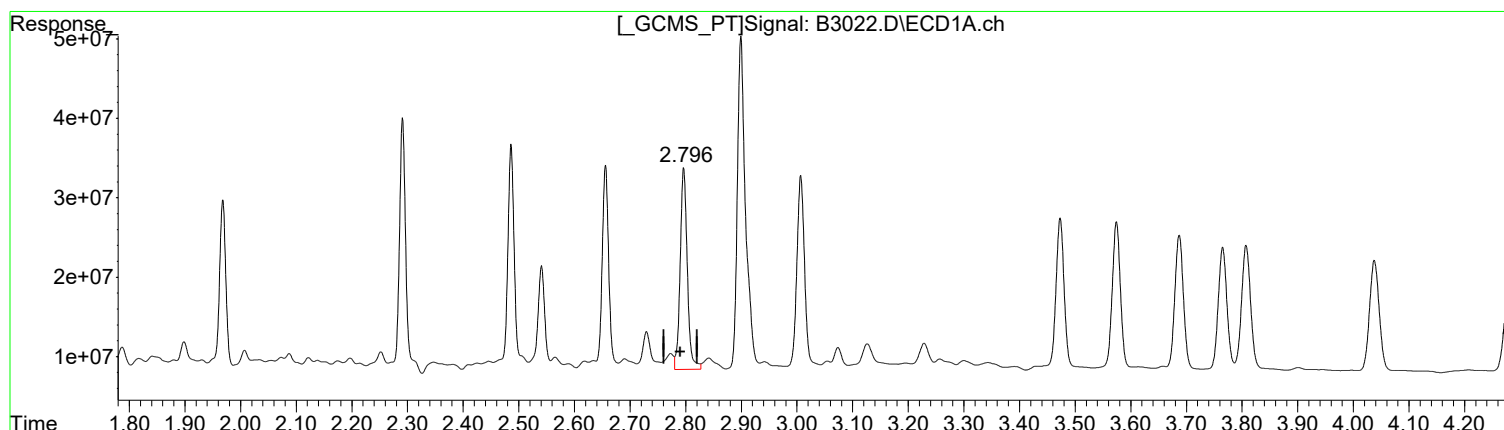
(6) beta-BHC #2 (tc)
2.926min 1.021 ug/l m
response 27681402

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) Heptachlor (tcm)
2.796min 1.139 ug/l
response 226010814

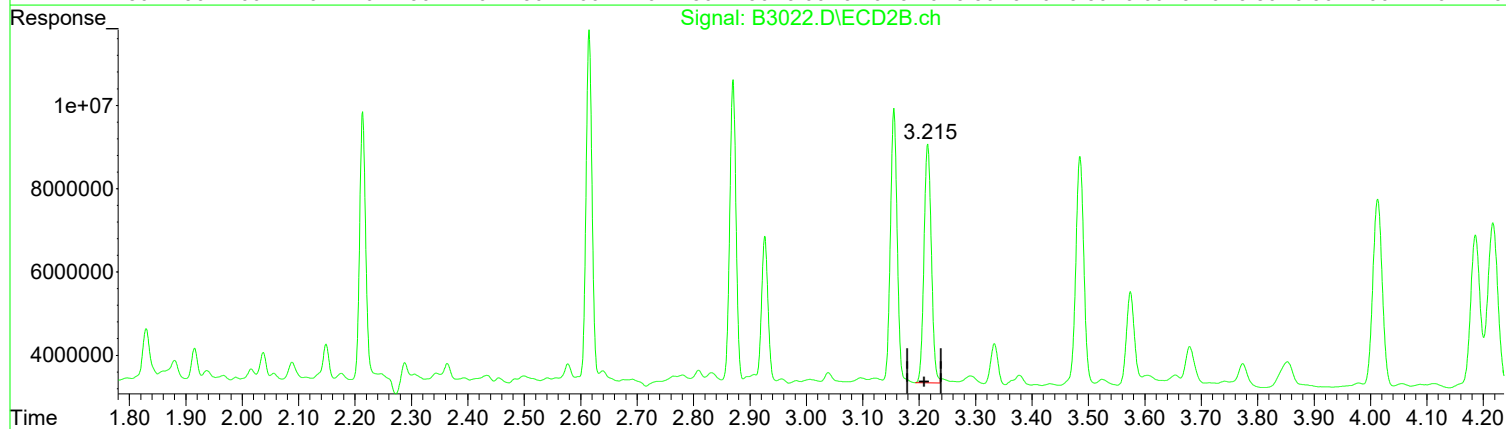
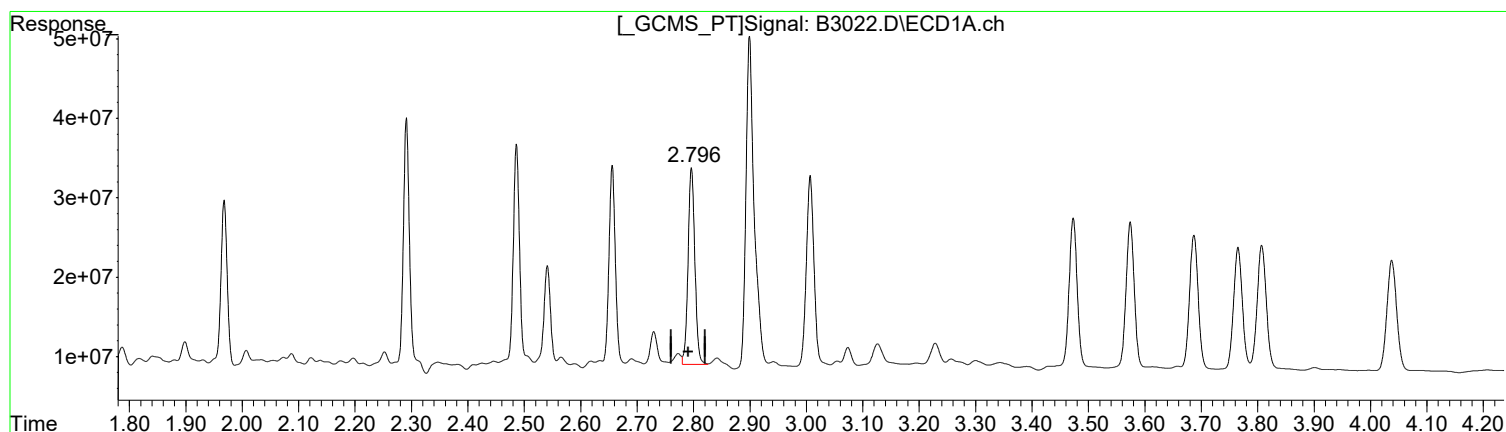
(4) Heptachlor #2 (tcm)
3.215min 0.927 ug/l
response 53480536

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) Heptachlor (tcm)
2.796min 1.038 ug/l m
response 206075238

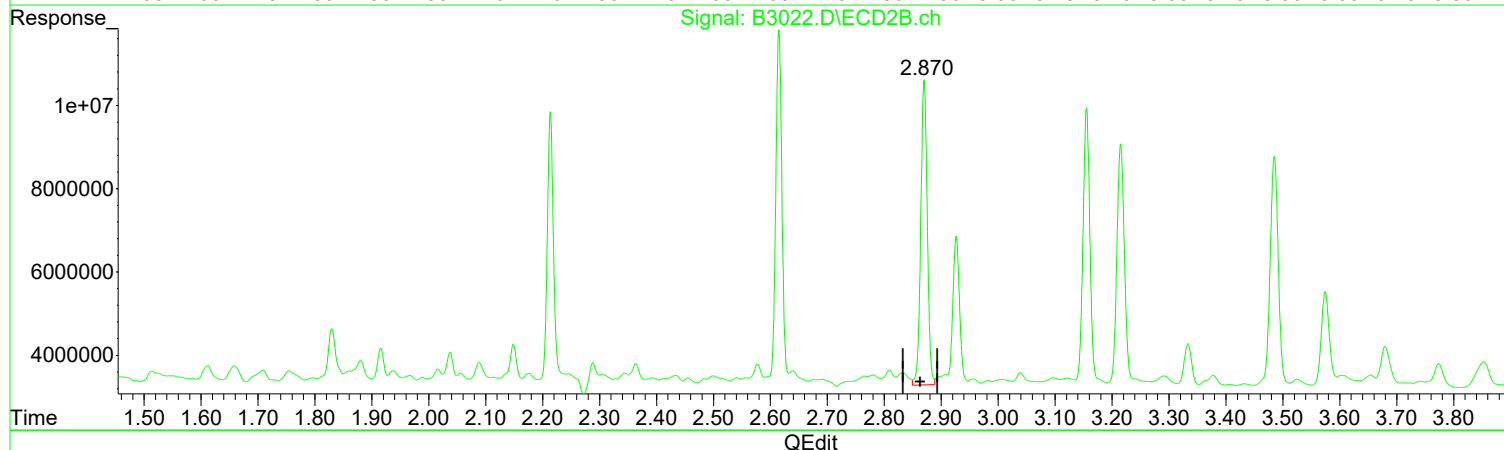
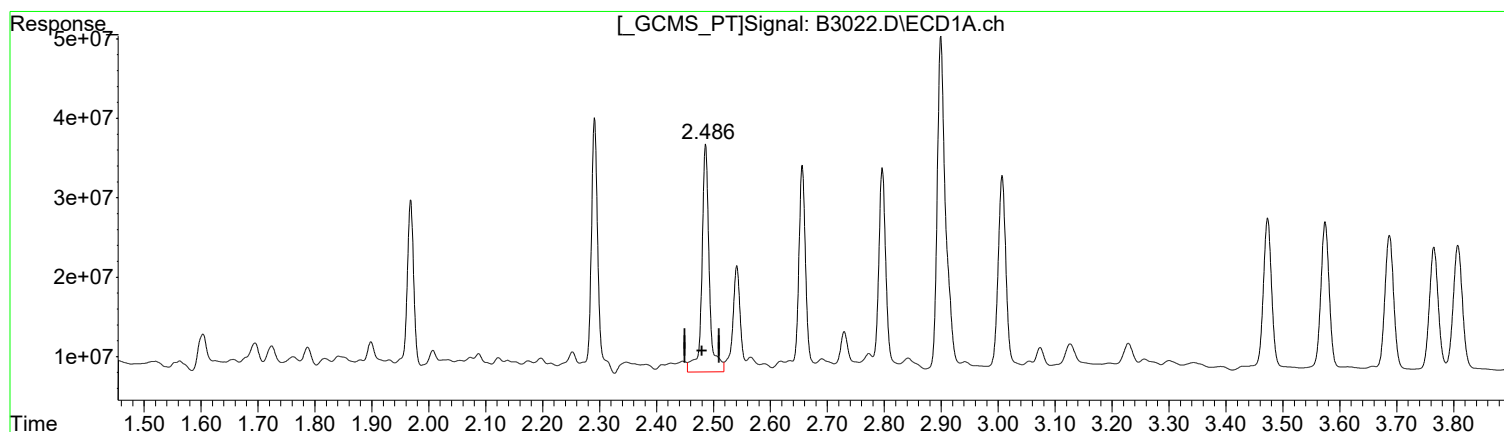
(4) Heptachlor #2 (tcm)
3.215min 0.898 ug/l m
response 51814196

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.486min 1.091 ug/l
response 258778609

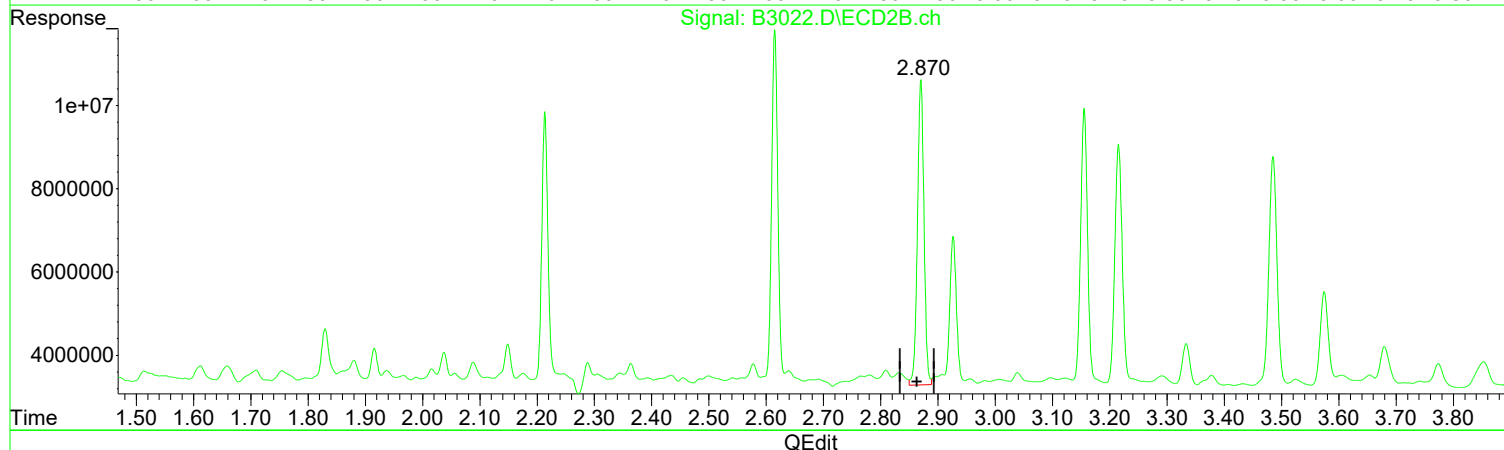
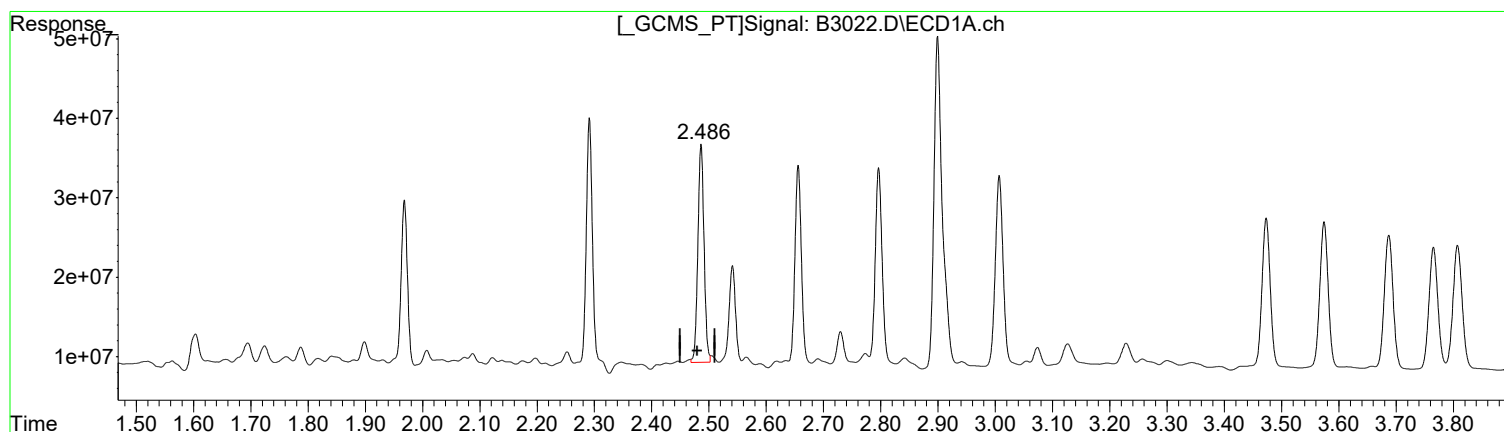
(3) gamma-BHC (L #2 (tcm)
2.870min 0.878 ug/l
response 58268953

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) gamma-BHC (L (tcm)
2.486min 0.871 ug/l m
response 206644631

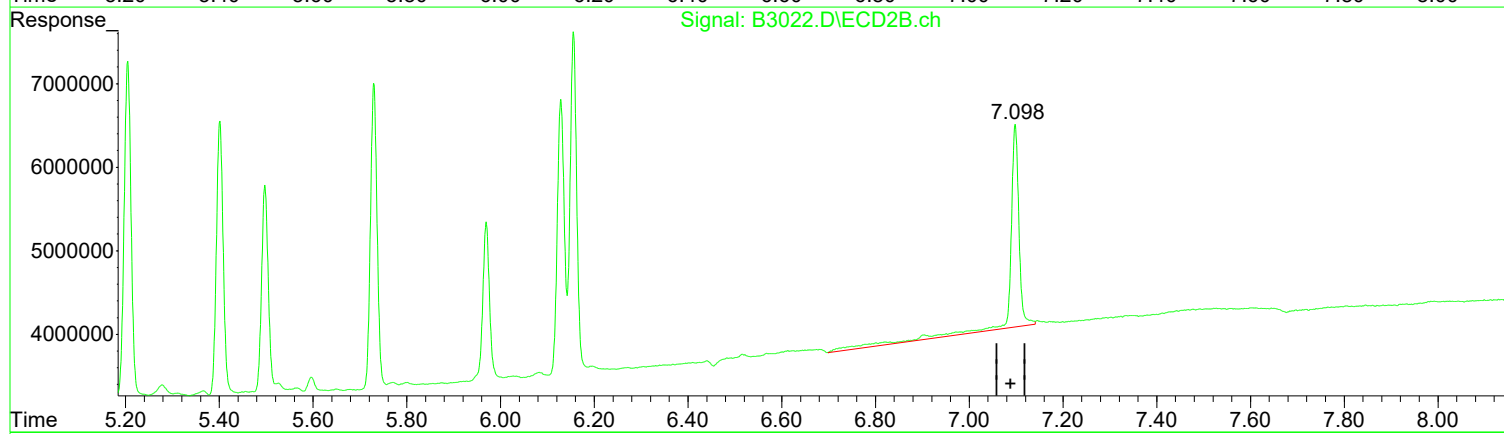
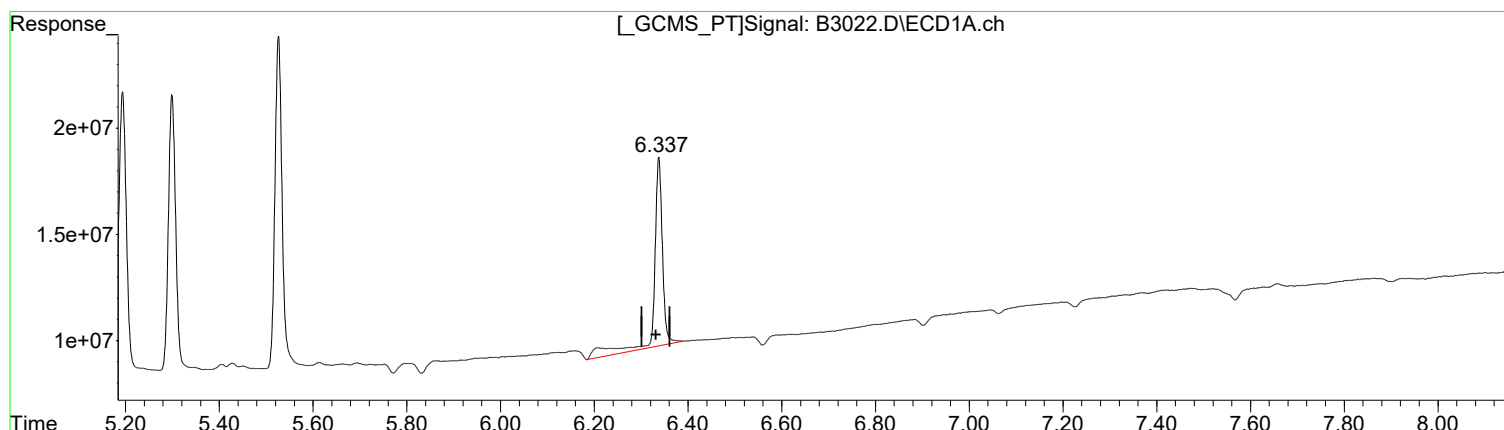
(3) gamma-BHC (L #2 (tcm)
2.870min 0.878 ug/l
response 58268953

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURR2,Decachlorobiphenyl (S)
6.338min 1.346 ug/l
response 110869288

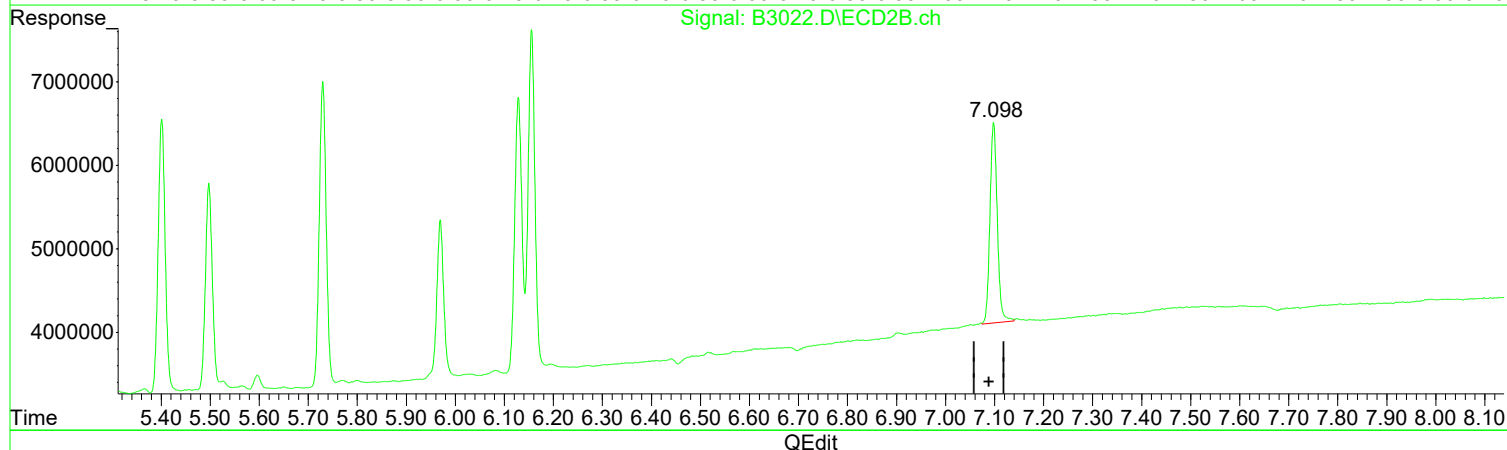
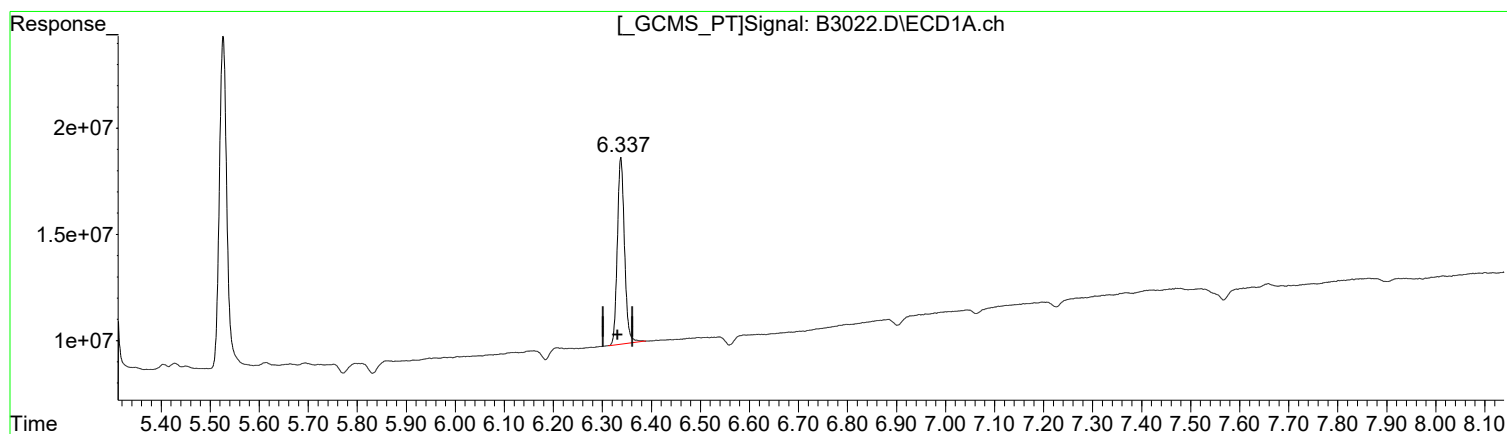
(23) SURR2,Decachlorobiphenyl #2 (S)
7.098min 1.465 ug/l
response 31935598

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(23) SURRE2,Decachlorobiphenyl (S)

6.337min 1.082 ug/l m

response 89179595

(23) SURRE2,Decachlorobiphenyl #2 (S)

7.098min 1.148 ug/l m

response 25033524

Manual Integration:

After

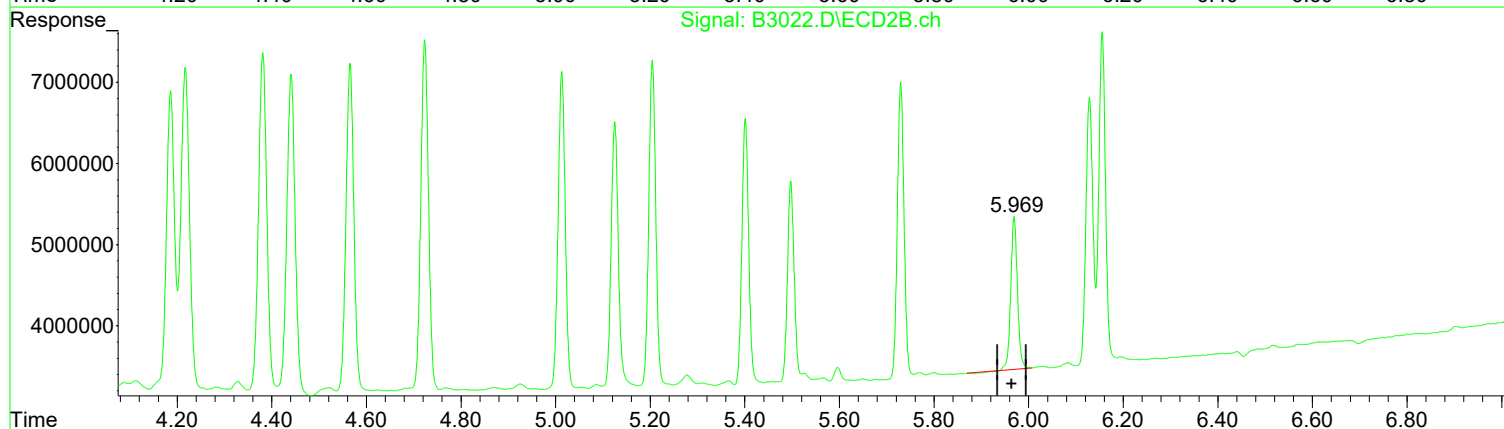
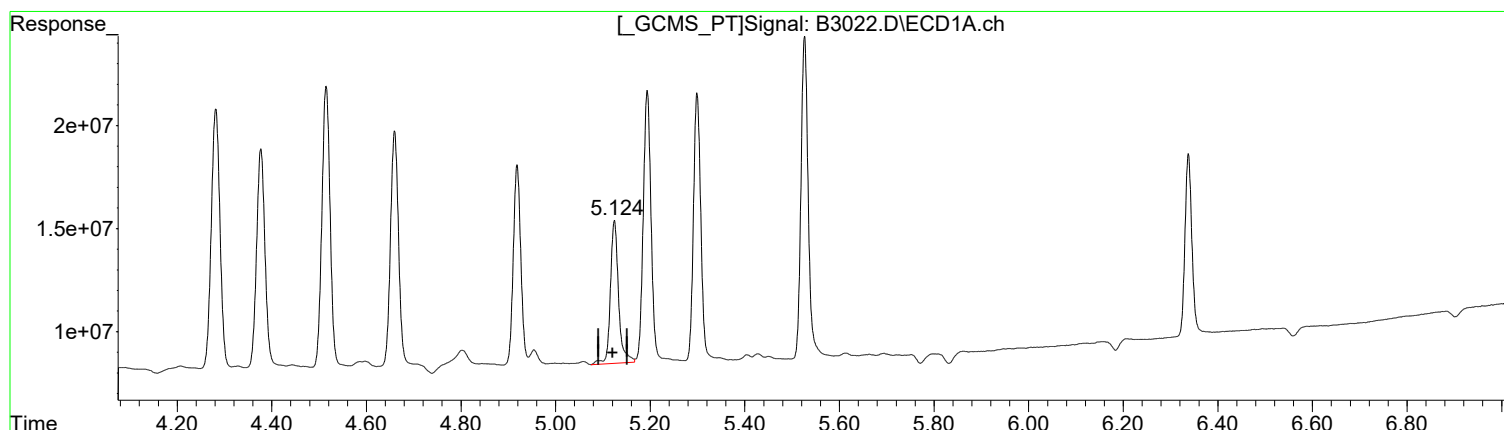
Poor integration.

09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Methoxychlor (tc)
5.124min 1.328 ug/l
response 83491926

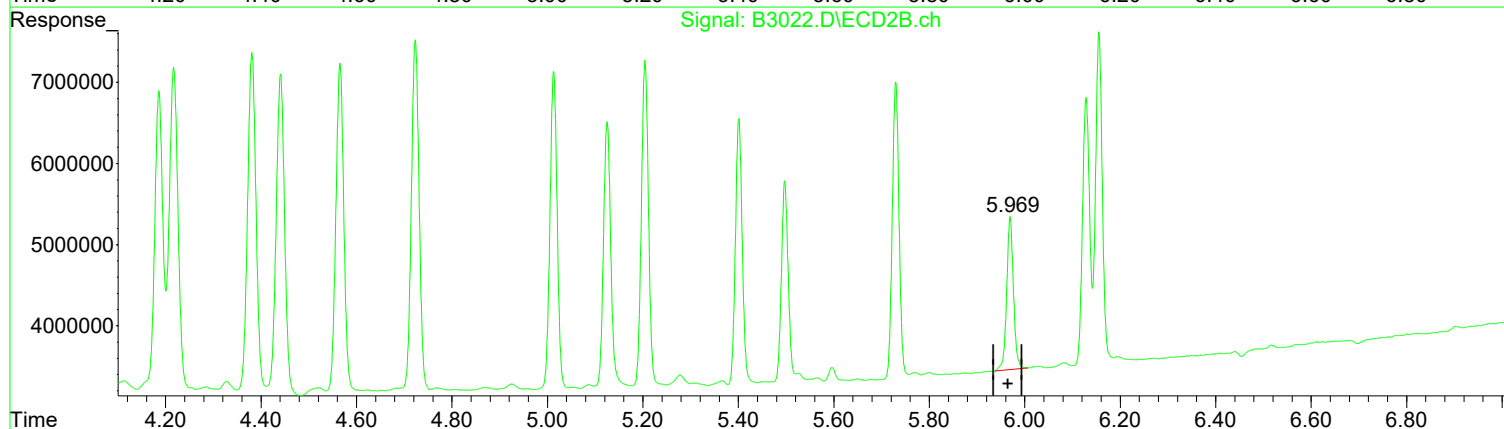
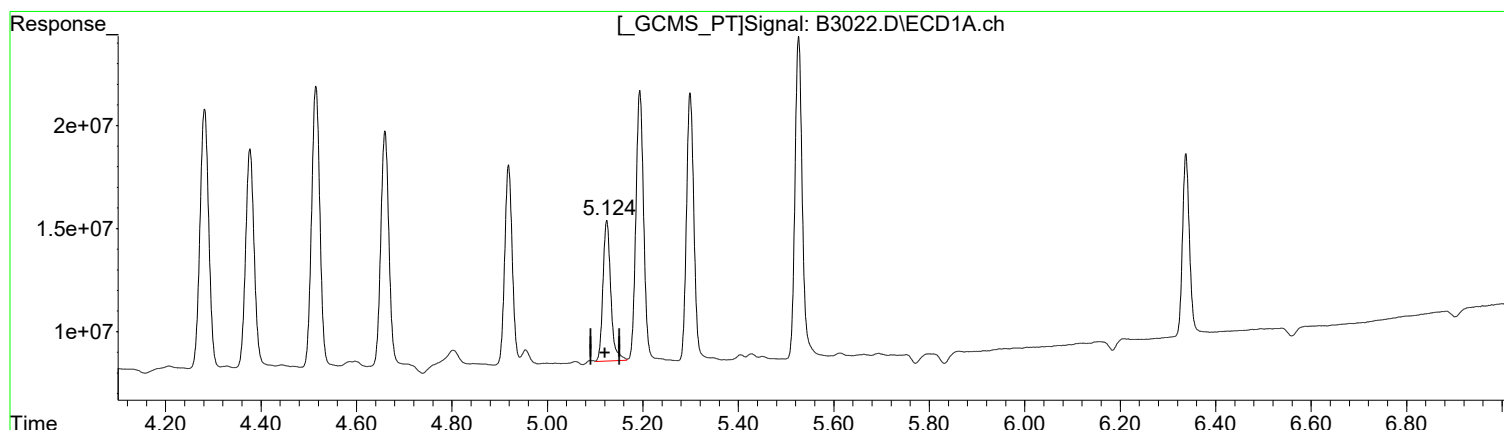
(20) Methoxychlor #2 (tc)
5.969min 1.117 ug/l
response 18163679

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Methoxychlor (tc)
5.124min 1.230 ug/l m
response 77341335

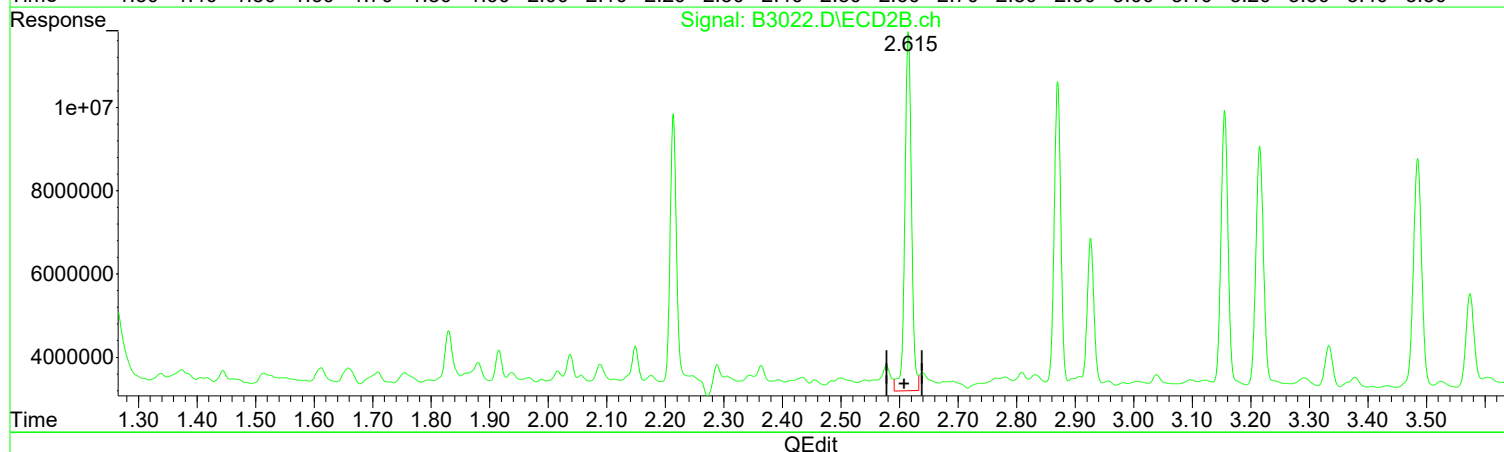
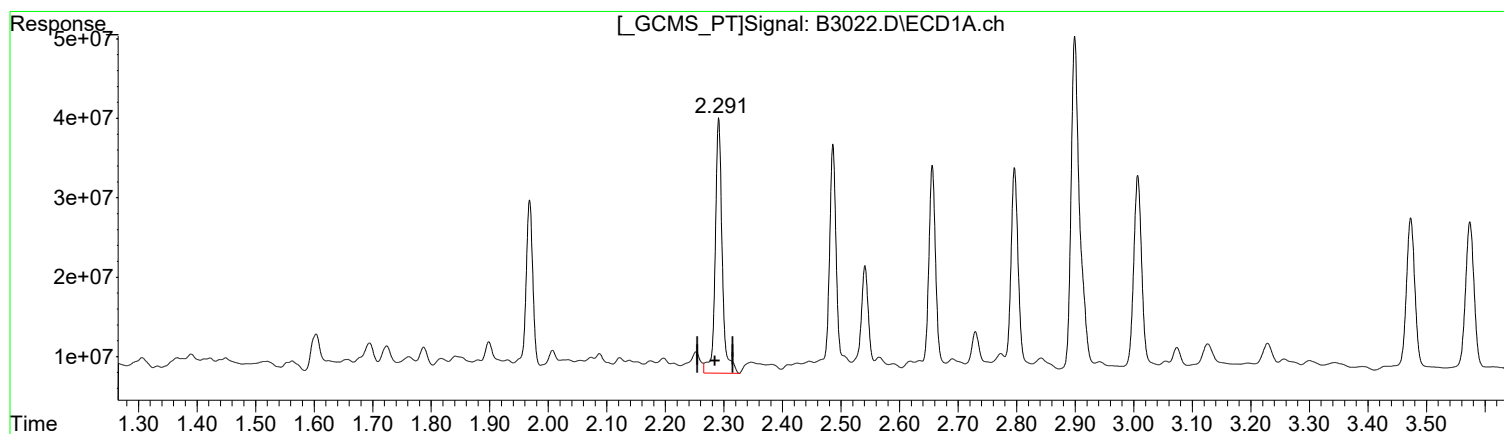
(20) Methoxychlor #2 (tc)
5.969min 1.139 ug/l m
response 18522106

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(2) alpha-BHC (tc)
2.291min 1.030 ug/l
response 266037654

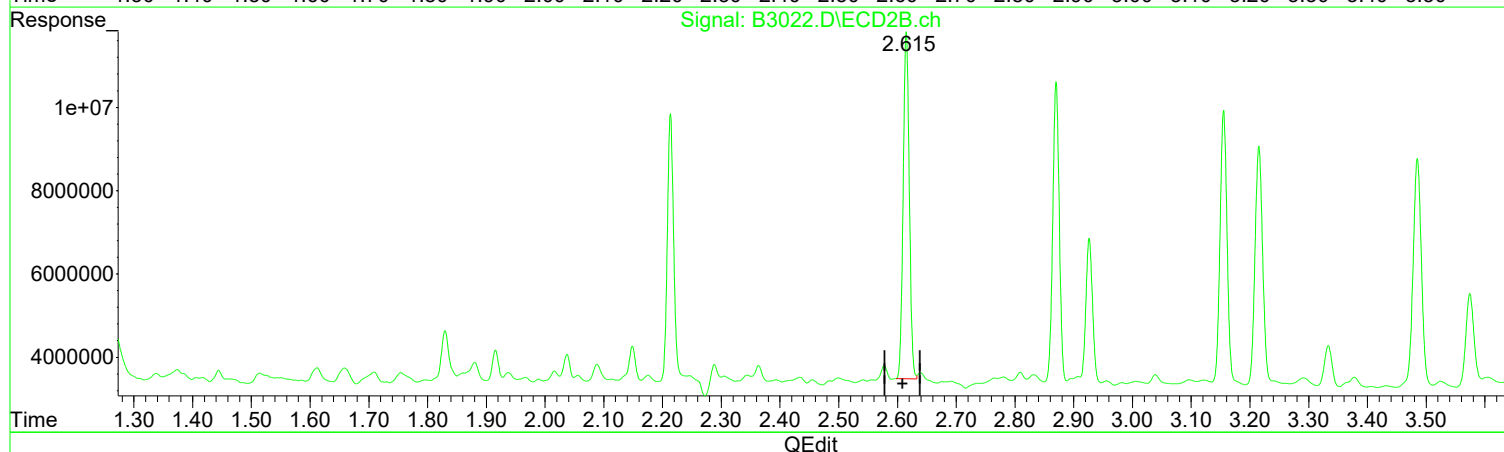
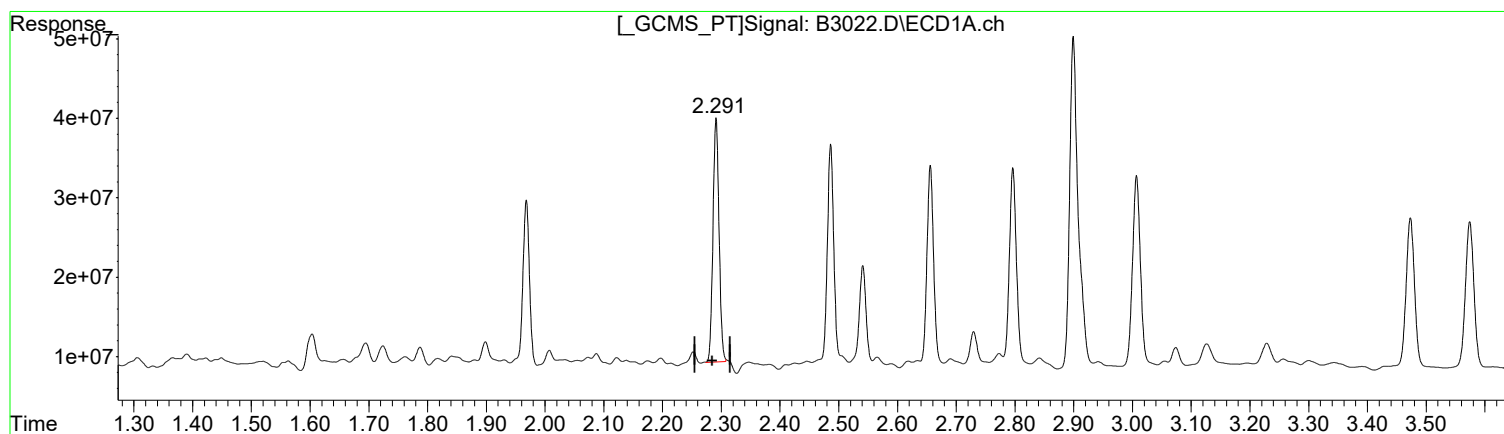
(2) alpha-BHC #2 (tc)
2.615min 0.891 ug/l
response 67908812

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(2) alpha-BHC (tc)
2.291min 0.850 ug/l m
response 219643144

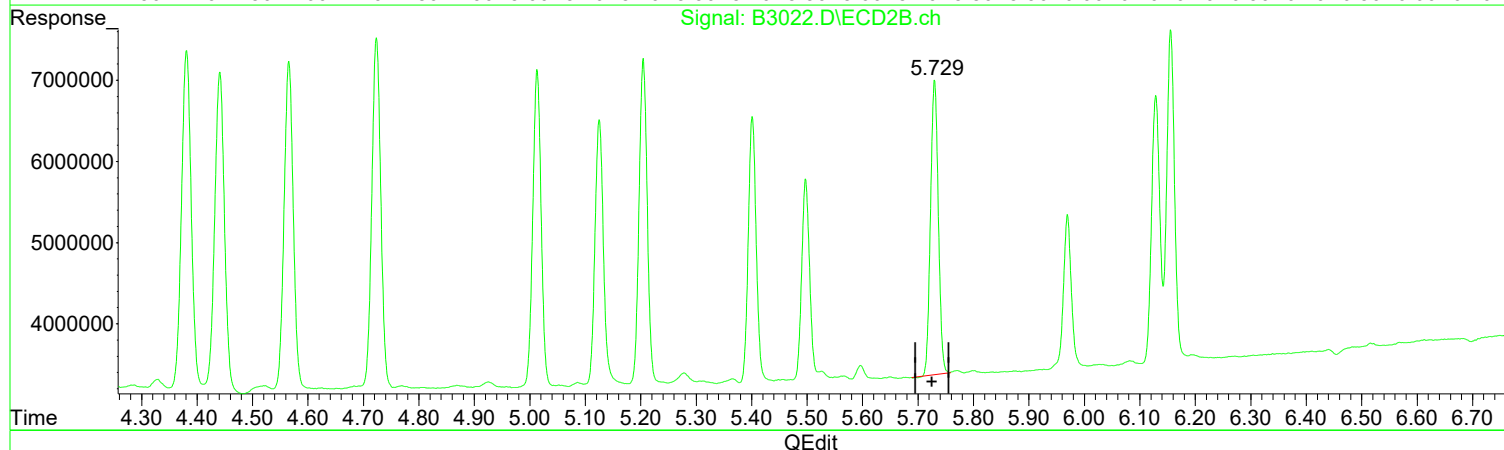
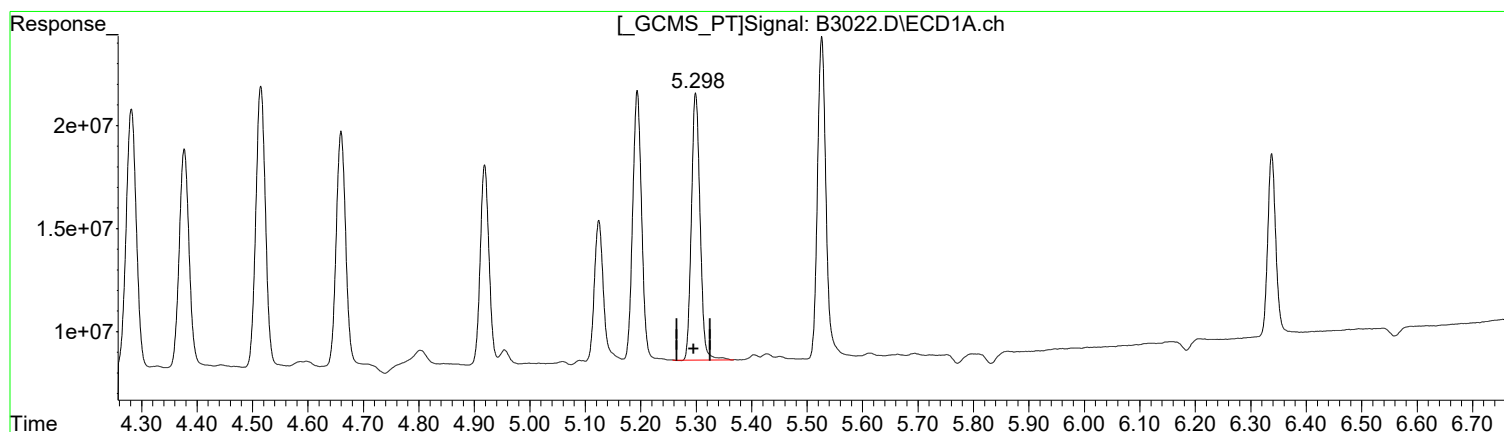
(2) alpha-BHC #2 (tc)
2.615min 0.797 ug/l m
response 60705189

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(19) Endosulfan S (tc)
5.299min 0.952 ug/l
response 140579869

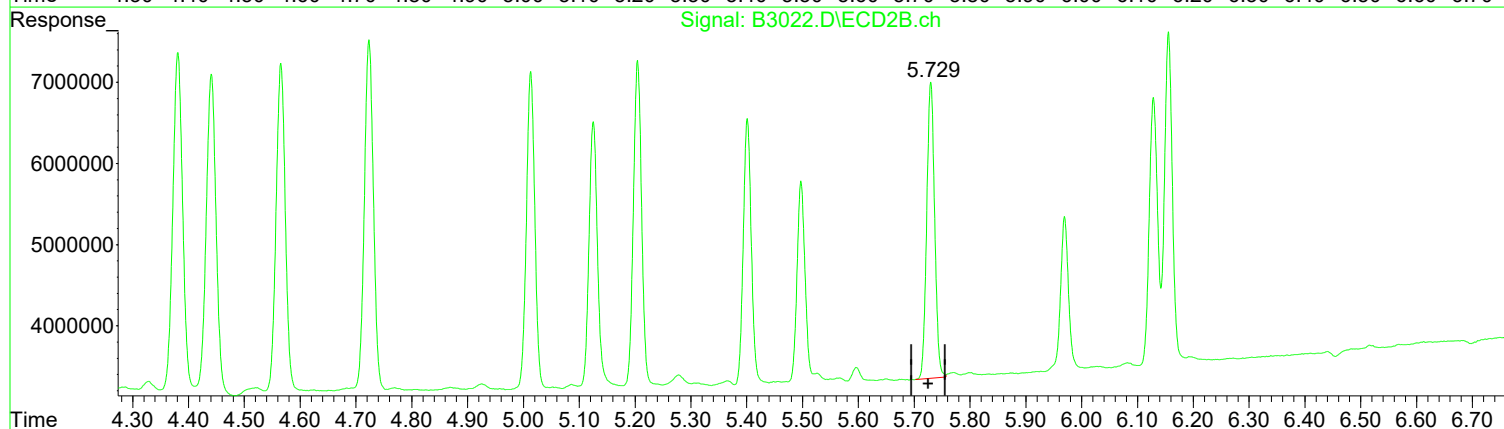
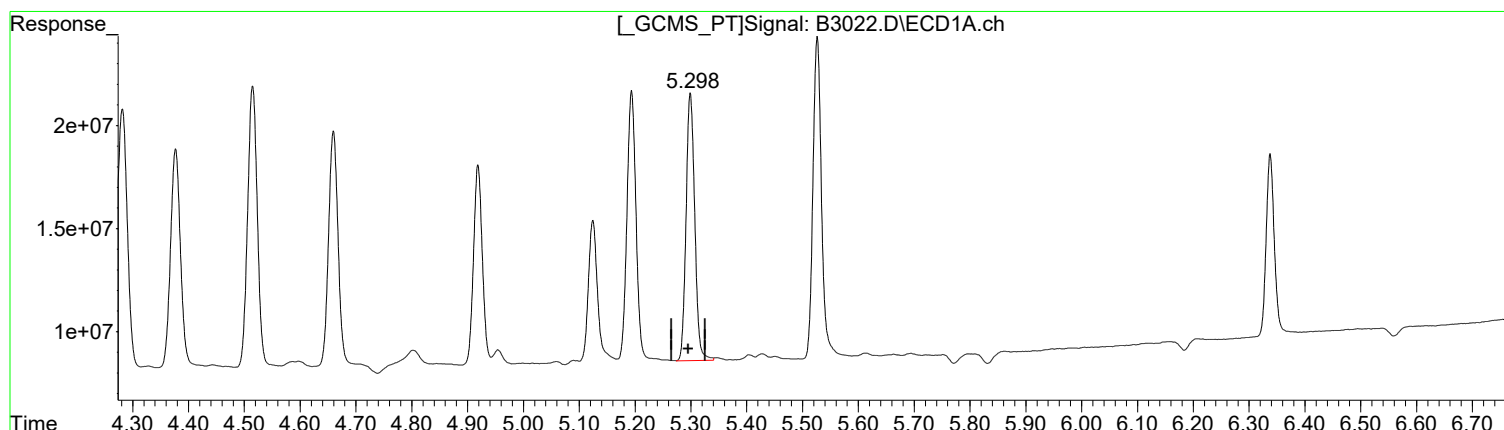
(19) Endosulfan S #2 (tc)
5.730min 0.967 ug/l
response 35243945

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(19) Endosulfan S (tc)
5.298min 0.953 ug/l m
response 140704473

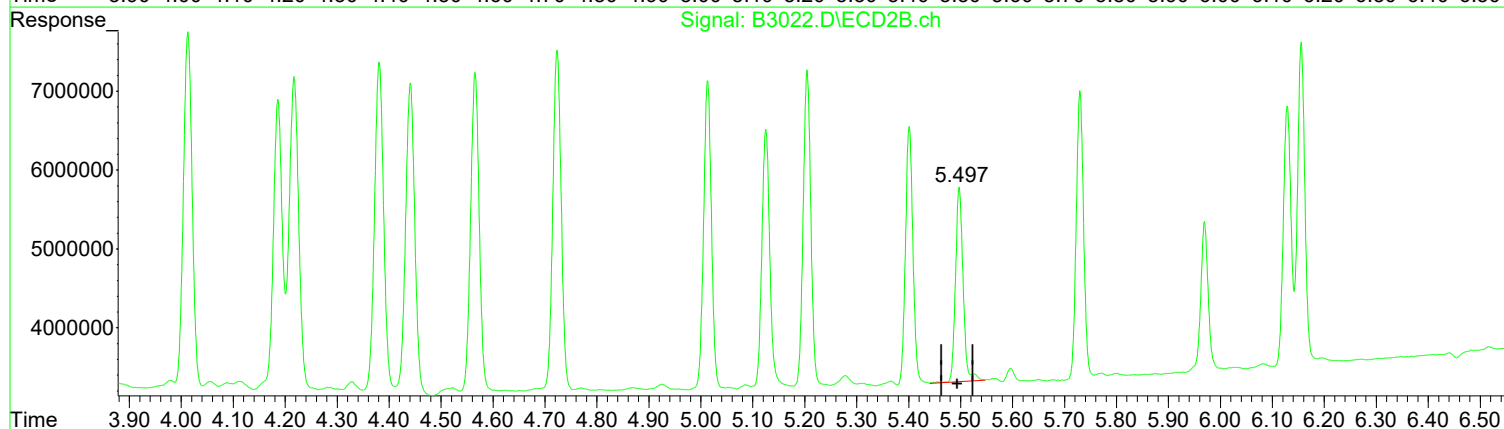
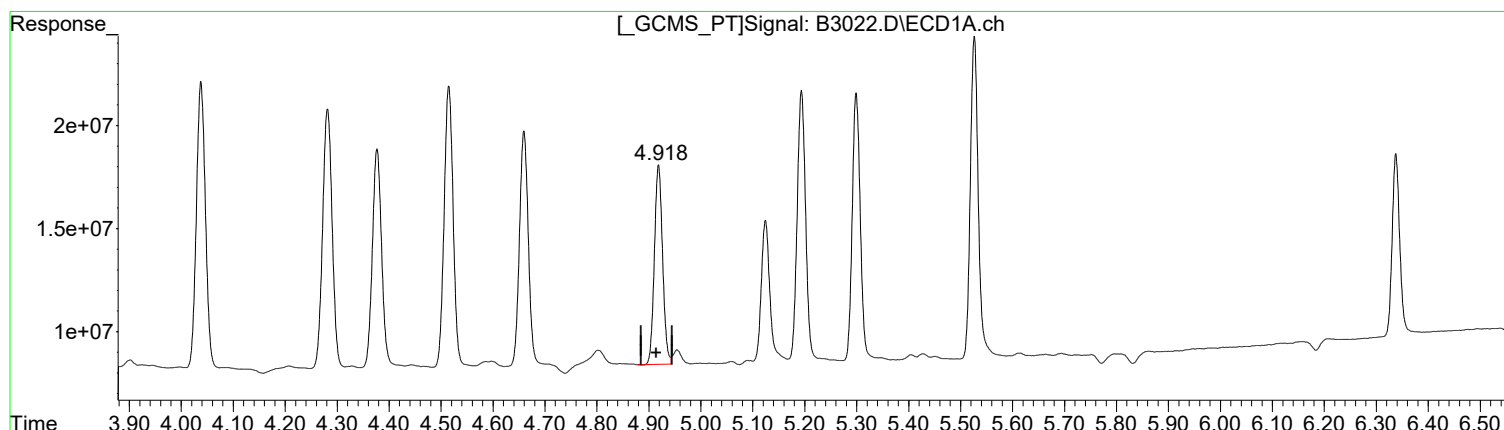
(19) Endosulfan S #2 (tc)
5.729min 0.987 ug/l m
response 35959447

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.919min 1.048 ug/l
response 106027299

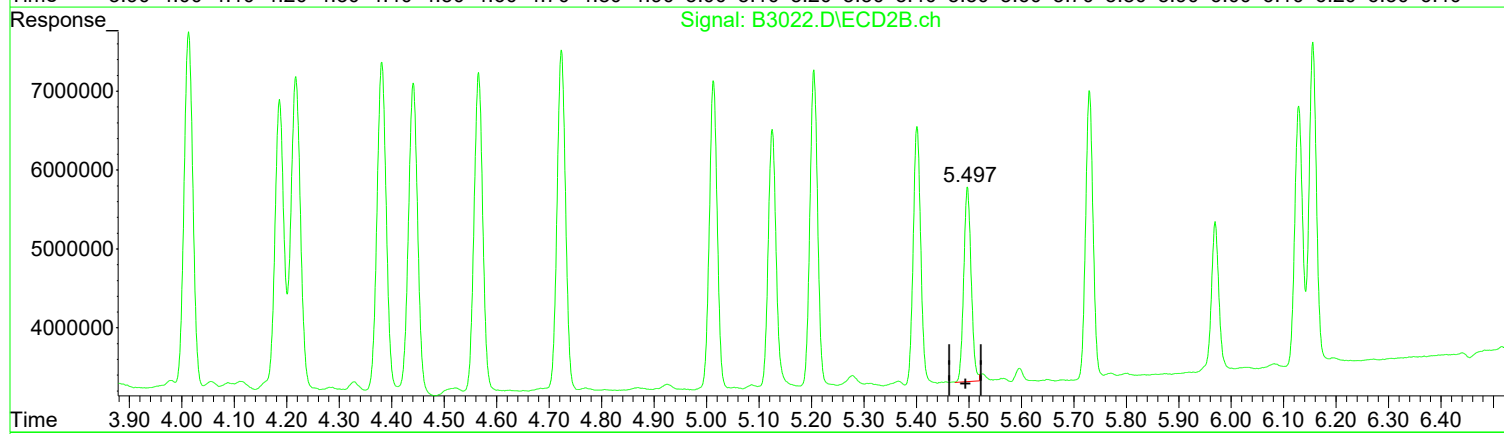
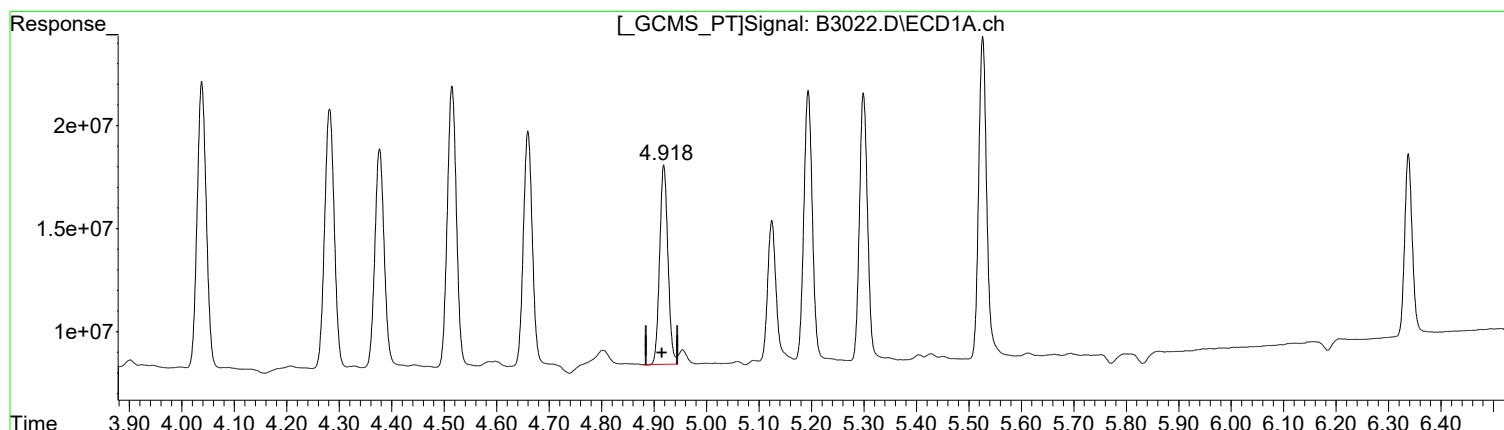
(18) Endrin Aldeh #2 (tc)
5.497min 0.924 ug/l
response 25123312

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) Endrin Aldeh (tc)
4.919min 1.048 ug/l
response 106027299

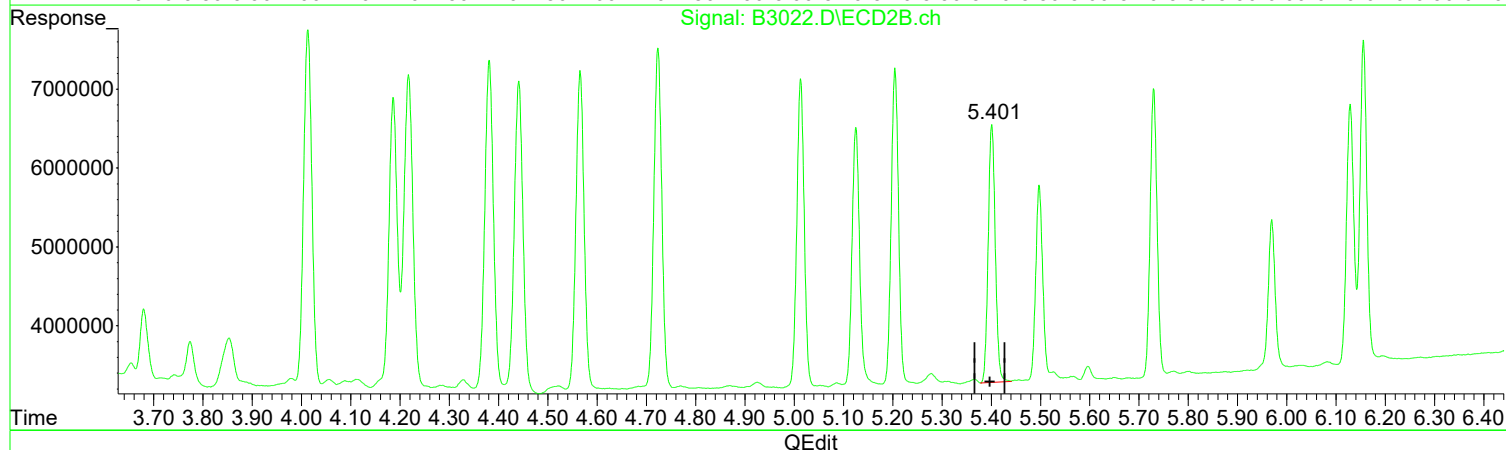
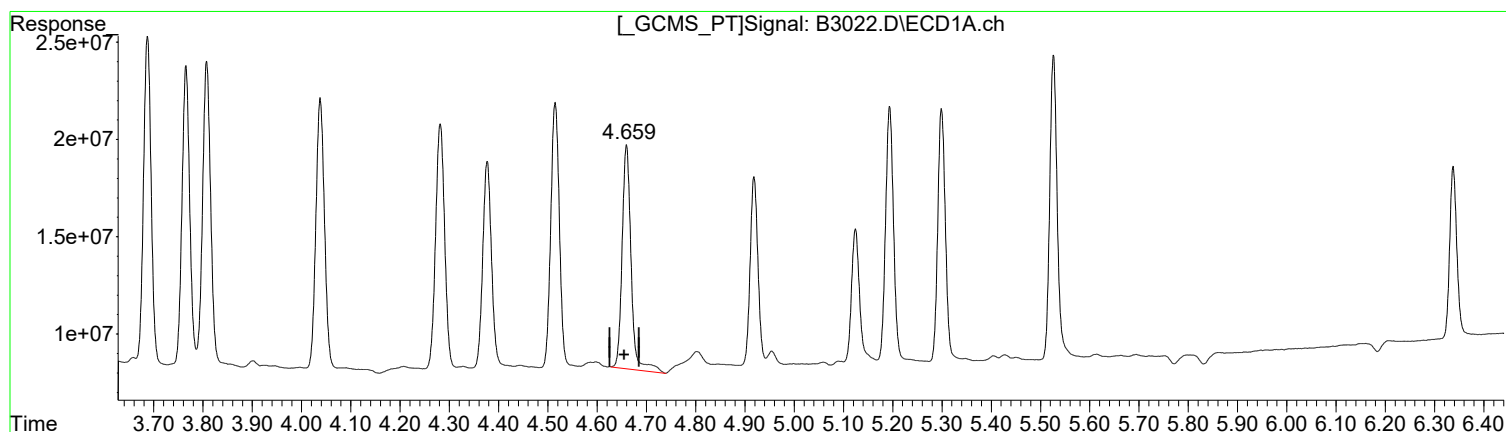
(18) Endrin Aldeh #2 (tc)
5.497min 0.896 ug/l m
response 24350055

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) 4,4'-DDT (tcm)
4.660min 1.081 ug/l
response 146969630

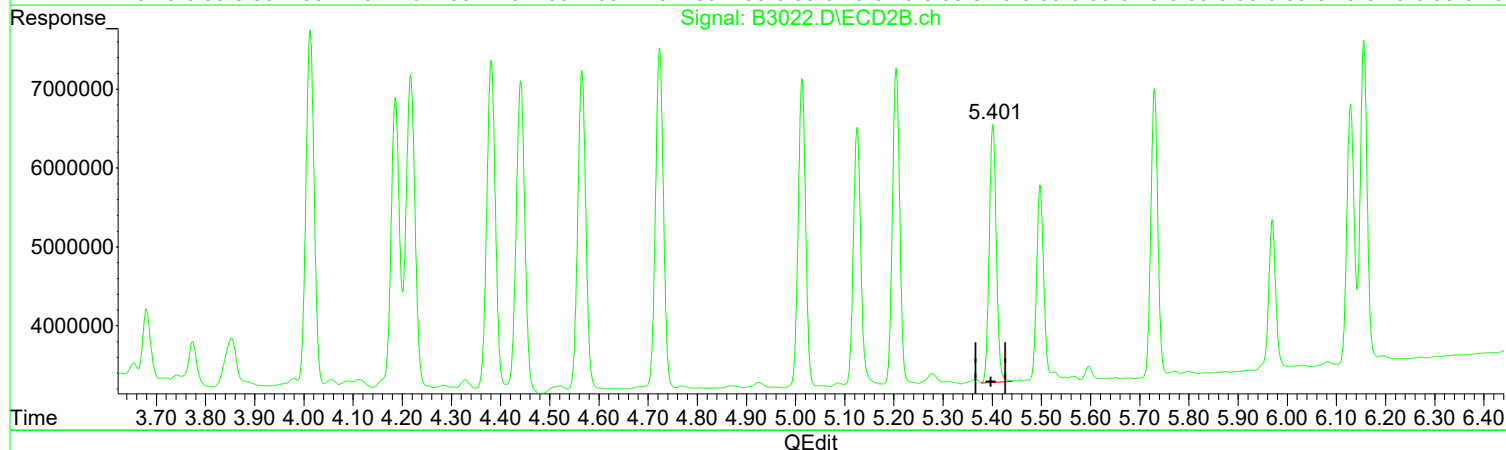
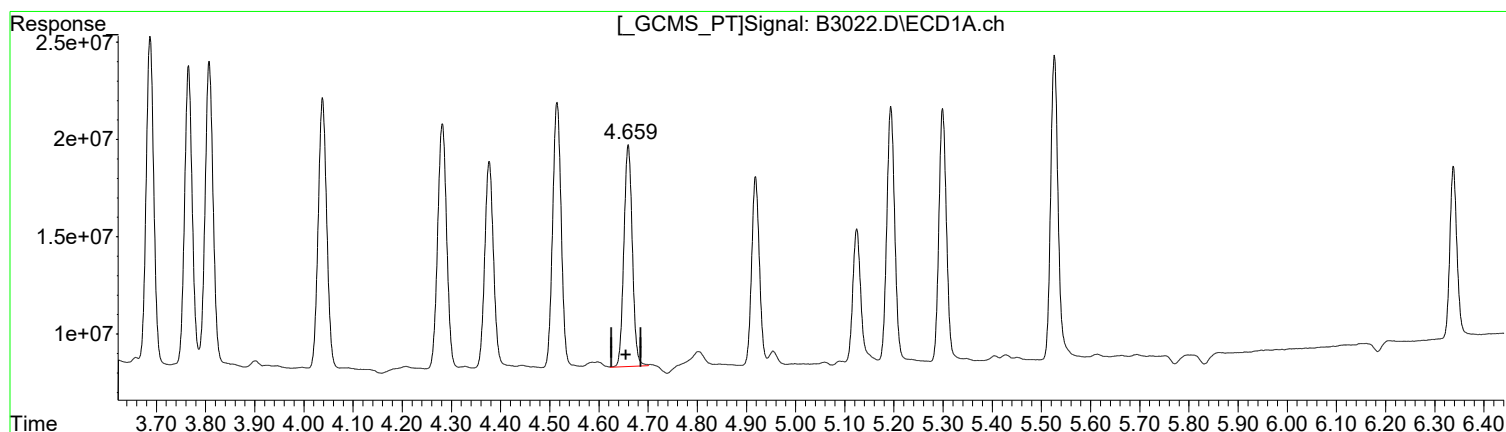
(17) 4,4'-DDT #2 (tcm)
5.401min 0.893 ug/l
response 32578564

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) 4,4'-DDT (tcm)
4.659min 1.000 ug/l m
response 135870193

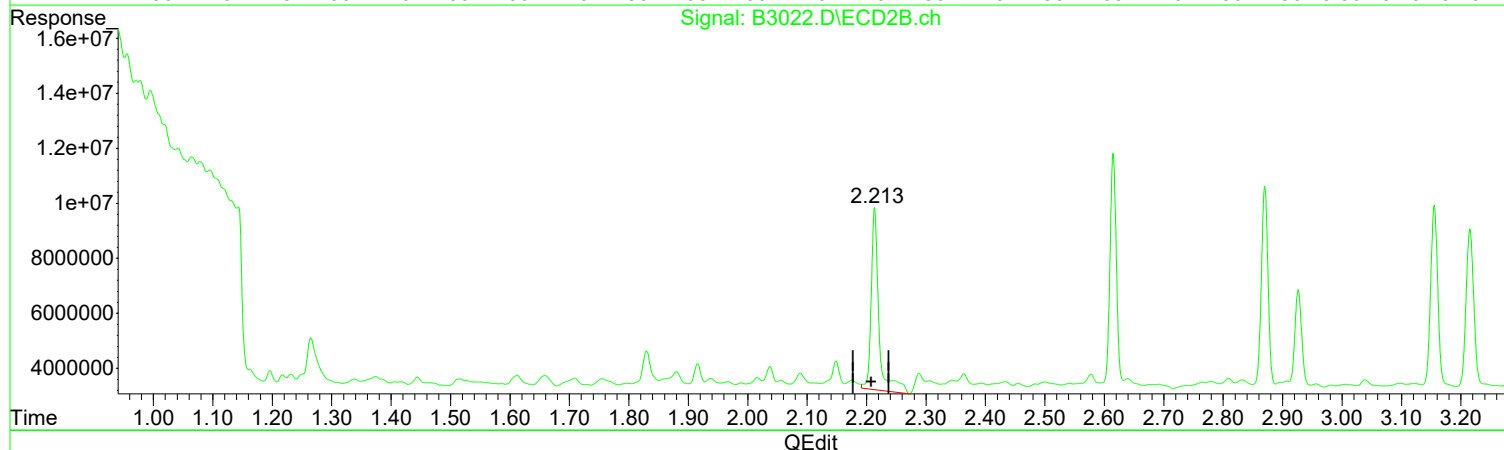
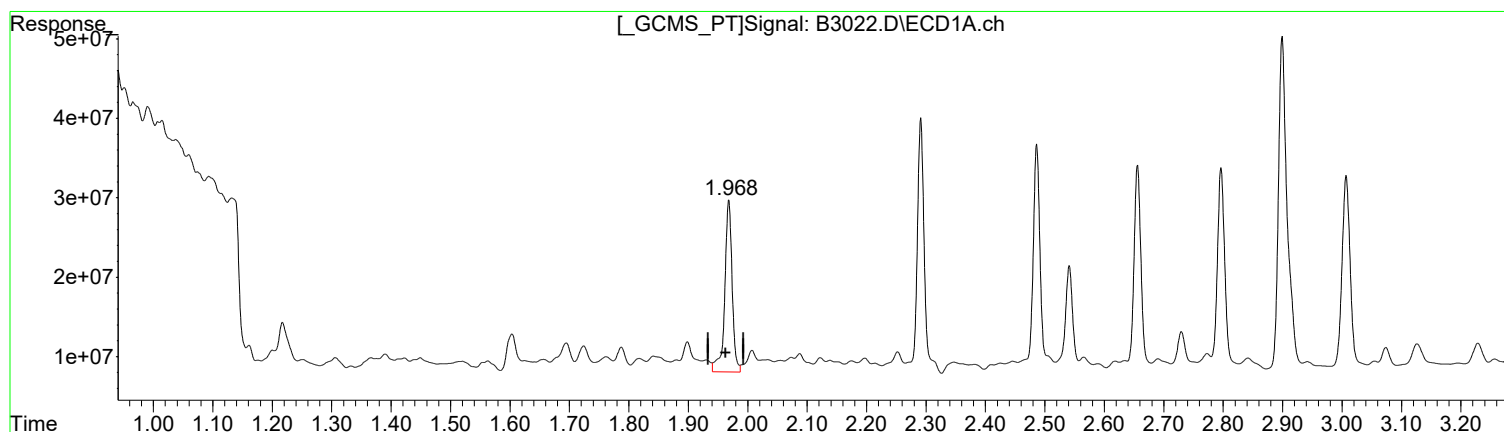
(17) 4,4'-DDT #2 (tcm)
5.401min 0.893 ug/l
response 32578564

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.968min 1.110 ug/l
response 187241934

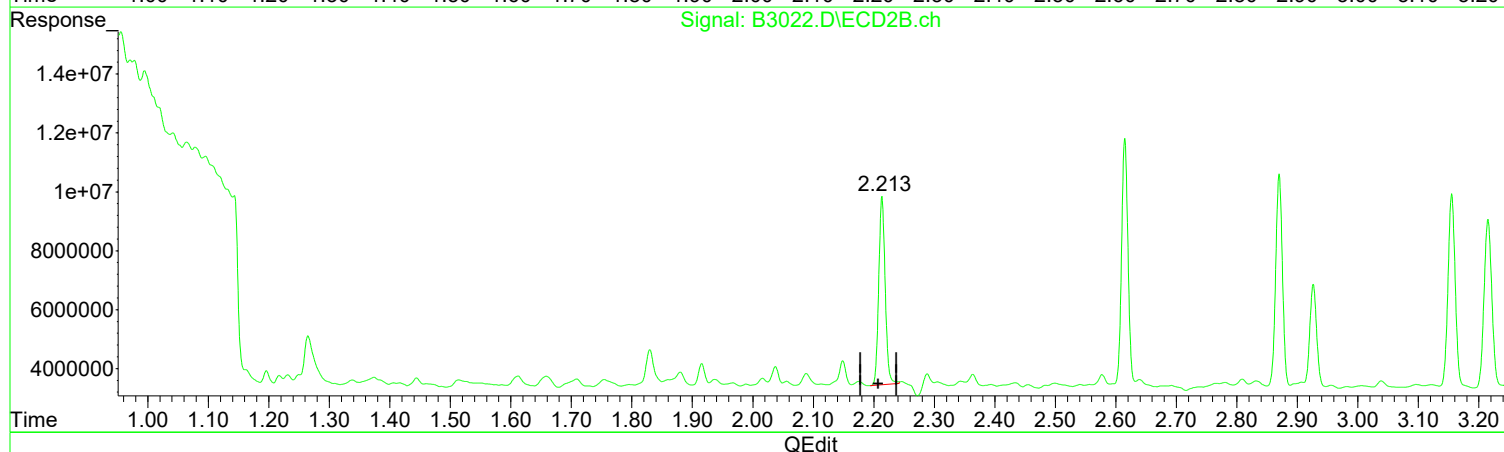
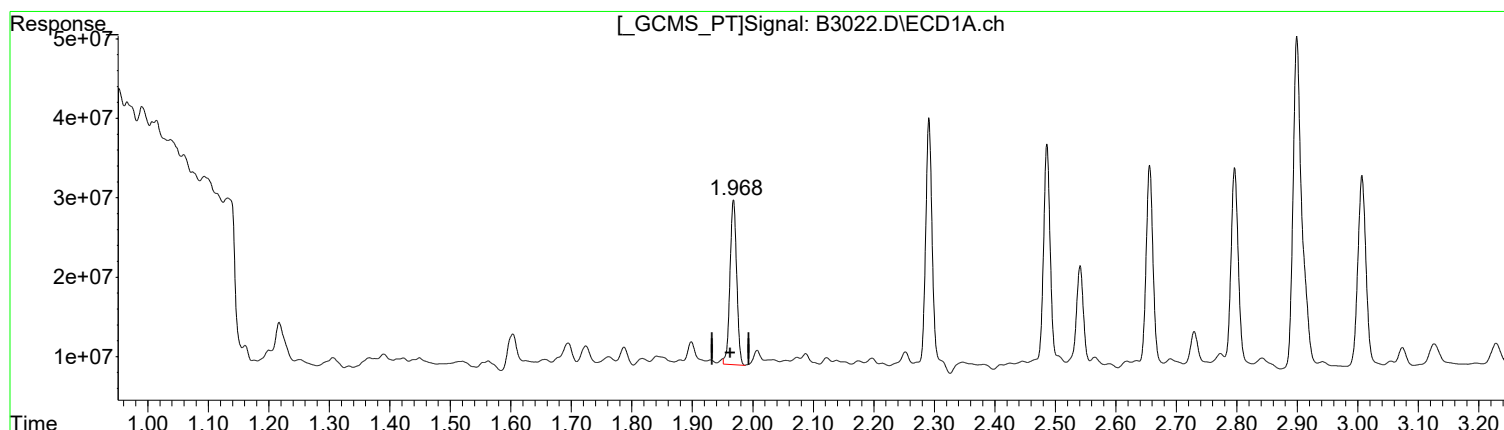
(1) SURR1,Tetrac #2 (S)
2.214min 1.182 ug/l
response 60165121

Manual Integration:
Before
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3022.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 12:15 pm
Operator : AFelser
Sample : 8081 LL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 09:24:52 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 09:24:25 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)
1.968min 0.942 ug/l m
response 158859705

(1) SURR1,Tetrac #2 (S)
2.213min 0.932 ug/l m
response 47465672

Manual Integration:
After
Poor integration.
09/08/23

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3021.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 11:57 am
 Operator : AFelser
 Sample : PEM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:04 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

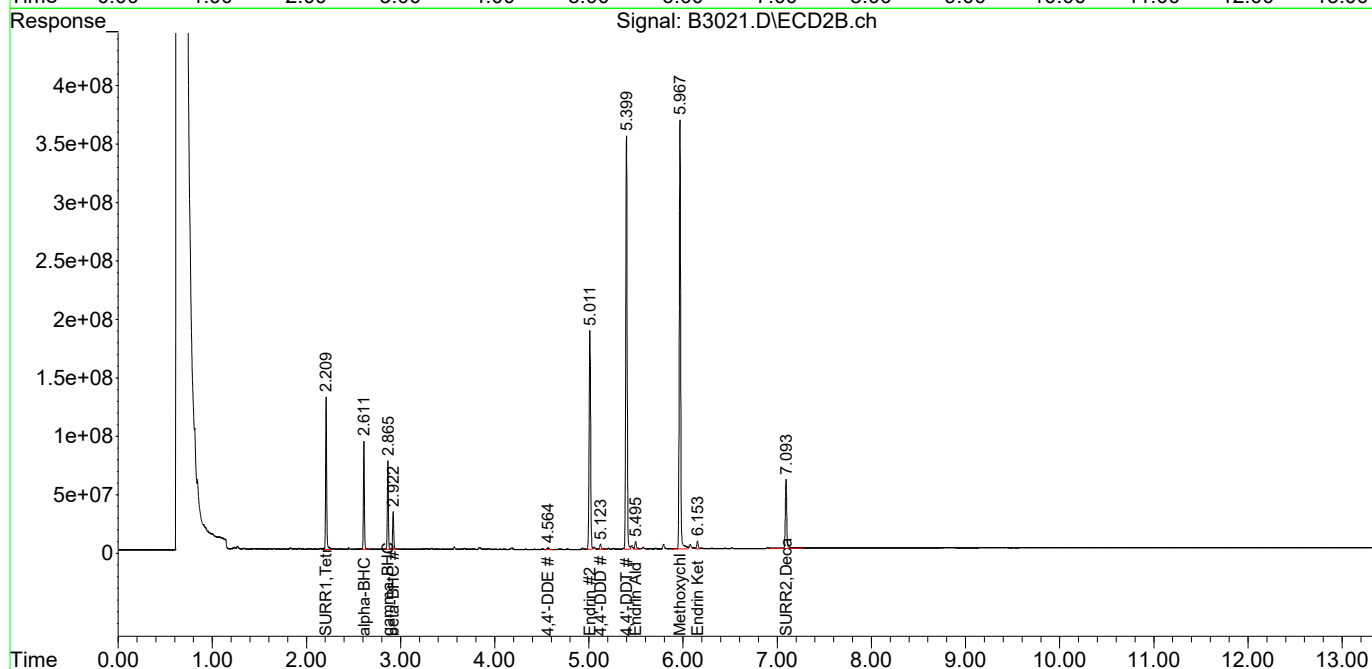
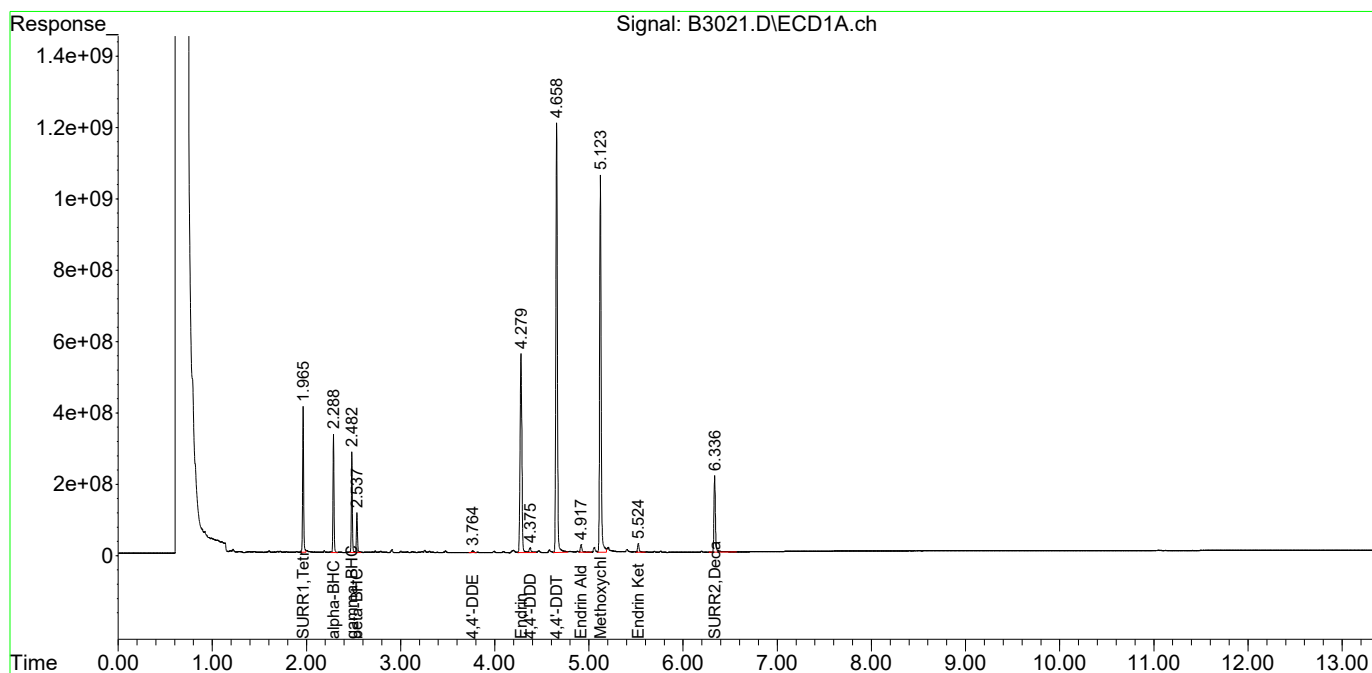
System Monitoring Compounds						
1) S SURR1,Tet...	1.965	2.210	3146.5E6	983.0E6	18.672	19.243
Spiked Amount	100.000 Range	30 - 150	Recovery	=	18.67%#	19.24%#
23) S SURR2,Dec...	6.336	7.094	2329.1E6	654.0E6	26.994	28.033
Spiked Amount	100.000 Range	30 - 150	Recovery	=	26.99%#	28.03%#
Target Compounds						
2) tc alpha-BHC	2.288	2.611	2406.3E6	703.6E6	9.447	9.545
3) tcm gamma-BHC (L	2.483	2.866	2084.0E6	597.4E6	8.989	9.167
6) tc beta-BHC	2.537	2.922	893.7E6	262.4E6	9.453	9.387
12) tc 4,4'-DDE	3.765	4.565	65725051	19506827	0.376	0.372
14) tcm Endrin	4.280	5.011	7275.3E6	2028.4E6	46.513	47.479
16) tc 4,4'-DDD	4.375	5.123	203.5E6	54730846	1.479	1.408
17) tcm 4,4'-DDT	4.658	5.400	13539.1E6	3519.4E6	99.642	98.588
18) tc Endrin Aldeh	4.917	5.496	267.6E6	81979721	2.593	3.058
20) tc Methoxychlor	5.123	5.967	12017.3E6	3672.4E6	176.805	213.726
21) tc Endrin Keton	5.525	6.153	265.5E6	72775562	1.671	1.747
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3021.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:57 am
Operator : AFelser
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:04 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	DB-CLP 1	ID: 0.32 (mm)	Initial Calibration Date(s): 09/7/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	09/7/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	11:57	
4,4'-DDT % Breakdown (1):	1.9%	Endrin % Breakdown (1):	6.8%	
Combined % Breakdown (1):	8.8%			

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	DB-CLP 2	ID: 0.32 (mm)	Initial Calibration Date(s): 09/7/2023	
EPA Sample No. (PEM):	PEM	Date Analyzed:	09/7/2023	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	11:57	
4,4'-DDT % Breakdown (1):	2.1%	Endrin % Breakdown (1):	7.1%	
Combined % Breakdown (1):	9.2%			

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%
Endrin breakdown must be less than or equal to 15.0%
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : I:\ACQUDATA\7890m\DATA\090723\
 Data File : B3020.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Sep 2023 11:39 am
 Operator : AFelser
 Sample : INST BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Sep 08 10:05:01 2023
 Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
 Quant Title : 608.3/8081B PESTICIDES
 QLast Update : Fri Sep 08 10:02:41 2023
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1uL
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

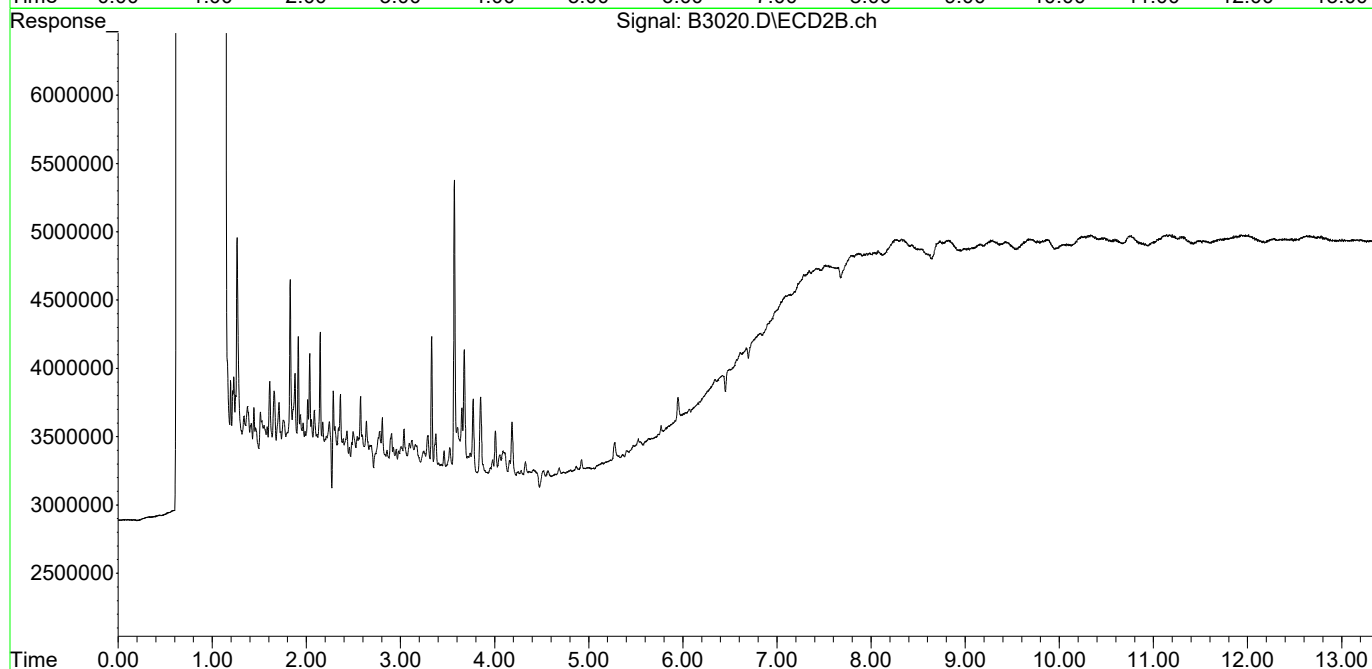
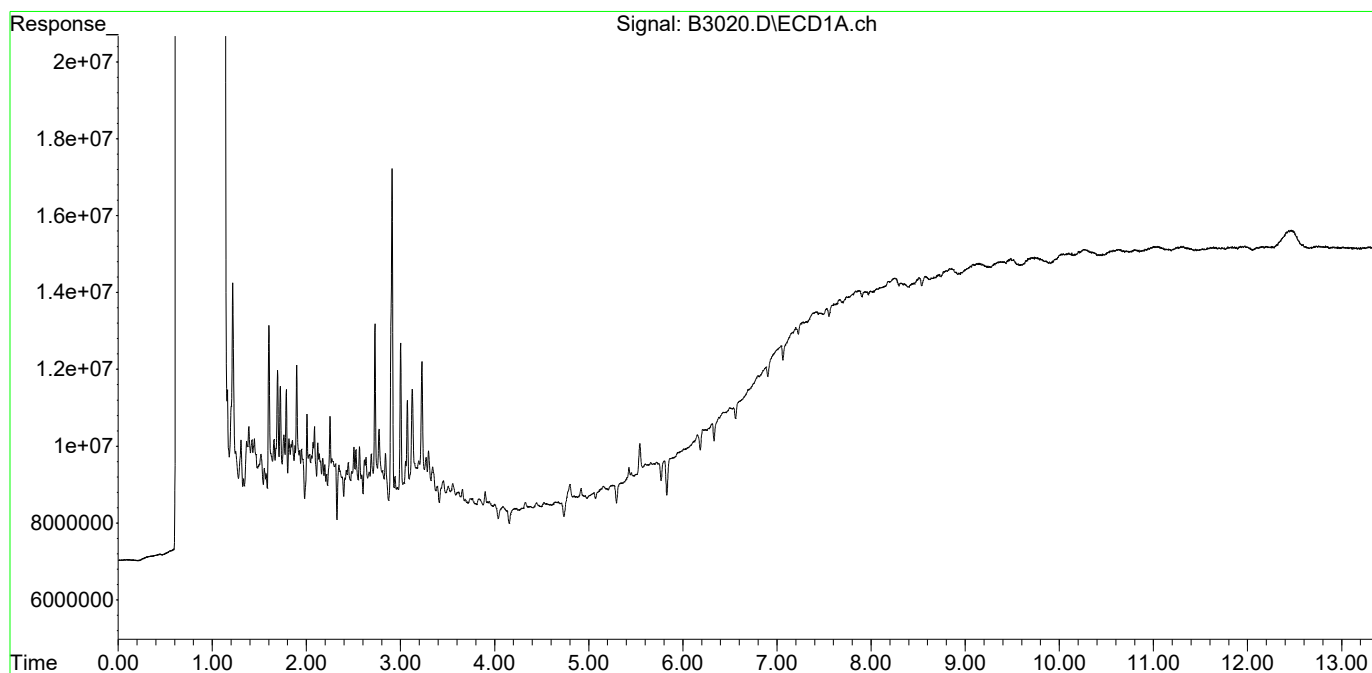
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\090723\
Data File : B3020.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Sep 2023 11:39 am
Operator : AFelser
Sample : INST BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Sep 08 10:05:01 2023
Quant Method : I:\ACQUDATA\7890m\Methods\M-PEST090723.M
Quant Title : 608.3/8081B PESTICIDES
QLast Update : Fri Sep 08 10:02:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1uL
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Client: Olin Corporation
Project: Charles Gibson - Olin

Service Request: R2307728
Calibration Date: 9/7/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Calibration ID: RC2300129
Instrument ID: R-GC-62

Signal ID: STx-CLP

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2300129-01	8081 LL	I:\ACQUDATA\7890m\DATA\090723\B3022.D	09/07/2023 12:15
02	RC2300129-02	8081 L	I:\ACQUDATA\7890m\DATA\090723\B3023.D	09/07/2023 12:33
03	RC2300129-03	8081 ML	I:\ACQUDATA\7890m\DATA\090723\B3024.D	09/07/2023 12:51
04	RC2300129-04	8081 M	I:\ACQUDATA\7890m\DATA\090723\B3025.D	09/07/2023 13:08
05	RC2300129-05	8081 MH	I:\ACQUDATA\7890m\DATA\090723\B3026.D	09/07/2023 13:26
07	RC2300129-07	TOX LL	I:\ACQUDATA\7890m\DATA\090723\B3028.D	09/07/2023 14:02
08	RC2300129-08	TOX L	I:\ACQUDATA\7890m\DATA\090723\B3029.D	09/07/2023 14:20
09	RC2300129-09	TOX ML	I:\ACQUDATA\7890m\DATA\090723\B3030.D	09/07/2023 14:38
10	RC2300129-10	TOX M	I:\ACQUDATA\7890m\DATA\090723\B3031.D	09/07/2023 14:56
11	RC2300129-11	TOX MH	I:\ACQUDATA\7890m\DATA\090723\B3032.D	09/07/2023 15:14
13	RC2300129-13	CHLOR LL	I:\ACQUDATA\7890m\DATA\090723\B3034.D	09/07/2023 15:50
14	RC2300129-14	CHLOR L	I:\ACQUDATA\7890m\DATA\090723\B3035.D	09/07/2023 16:07
15	RC2300129-15	CHLOR ML	I:\ACQUDATA\7890m\DATA\090723\B3036.D	09/07/2023 16:25
16	RC2300129-16	CHLOR M	I:\ACQUDATA\7890m\DATA\090723\B3037.D	09/07/2023 16:43
17	RC2300129-17	CHLOR MH	I:\ACQUDATA\7890m\DATA\090723\B3038.D	09/07/2023 17:01

Analyte

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	8.918E7	02	5.000	8.286E7	03	10.000	9.284E7	04	25.000	8.239E7
05	50.000	8.414E7									

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.589E8	02	5.000	1.668E8	03	10.000	1.782E8	04	25.000	1.687E8
05	50.000	1.7E8									

alpha-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.196E8	02	5.000	2.451E8	03	10.000	2.707E8	04	25.000	2.584E8
05	50.000	2.798E8									

beta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	9.781E7	02	5.000	9.681E7	03	10.000	9.977E7	04	25.000	8.876E7
05	50.000	8.953E7									

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.159E8	02	5.000	2.097E8	03	10.000	2.337E8	04	25.000	2.219E8
05	50.000	2.303E8									

Client: Olin Corporation
Project: Charles Gibson - Olin

Service Request: R2307728
Calibration Date: 9/7/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Calibration ID: RC2300129
Instrument ID: R-GC-62

Signal ID: STx-CLP

Analyte

gamma-BHC (Lindane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.066E8	02	5.000	2.186E8	03	10.000	2.528E8	04	25.000	2.372E8
05	50.000	2.439E8									

Client: Olin Corporation
Project: Charles Gibson - Olin

Service Request: R2307728
Calibration Date: 9/7/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Calibration ID: RC2300129
Instrument ID: R-GC-62

Signal ID: STx-CLP

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Decachlorobiphenyl	SURR	Average RF	% RSD	5.3	20	8.628E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	4.1	20	1.685E8	
alpha-BHC	TRG	Average RF	% RSD	9.3	20	2.547E8	
beta-BHC	TRG	Average RF	% RSD	5.3	20	9.454E7	
delta-BHC	TRG	Average RF	% RSD	4.5	20	2.223E8	
gamma-BHC (Lindane)	TRG	Average RF	% RSD	8.1	20	2.318E8	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Olin Corporation
Project: Charles Gibson - Olin

Service Request: R2307728
Calibration Date: 9/7/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Calibration ID: RC2300129
Instrument ID: R-GC-62

Signal ID: STx-CLPII

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2300129-01	8081 LL	I:\ACQUDATA\7890m\DATA\090723\B3022.D	09/07/2023 12:15
02	RC2300129-02	8081 L	I:\ACQUDATA\7890m\DATA\090723\B3023.D	09/07/2023 12:33
03	RC2300129-03	8081 ML	I:\ACQUDATA\7890m\DATA\090723\B3024.D	09/07/2023 12:51
04	RC2300129-04	8081 M	I:\ACQUDATA\7890m\DATA\090723\B3025.D	09/07/2023 13:08
05	RC2300129-05	8081 MH	I:\ACQUDATA\7890m\DATA\090723\B3026.D	09/07/2023 13:26
07	RC2300129-07	TOX LL	I:\ACQUDATA\7890m\DATA\090723\B3028.D	09/07/2023 14:02
08	RC2300129-08	TOX L	I:\ACQUDATA\7890m\DATA\090723\B3029.D	09/07/2023 14:20
09	RC2300129-09	TOX ML	I:\ACQUDATA\7890m\DATA\090723\B3030.D	09/07/2023 14:38
10	RC2300129-10	TOX M	I:\ACQUDATA\7890m\DATA\090723\B3031.D	09/07/2023 14:56
11	RC2300129-11	TOX MH	I:\ACQUDATA\7890m\DATA\090723\B3032.D	09/07/2023 15:14
13	RC2300129-13	CHLOR LL	I:\ACQUDATA\7890m\DATA\090723\B3034.D	09/07/2023 15:50
14	RC2300129-14	CHLOR L	I:\ACQUDATA\7890m\DATA\090723\B3035.D	09/07/2023 16:07
15	RC2300129-15	CHLOR ML	I:\ACQUDATA\7890m\DATA\090723\B3036.D	09/07/2023 16:25
16	RC2300129-16	CHLOR M	I:\ACQUDATA\7890m\DATA\090723\B3037.D	09/07/2023 16:43
17	RC2300129-17	CHLOR MH	I:\ACQUDATA\7890m\DATA\090723\B3038.D	09/07/2023 17:01

Analyte

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.503E7	02	5.000	2.253E7	03	10.000	2.563E7	04	25.000	2.18E7
05	50.000	2.165E7									

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	4.747E7	02	5.000	4.882E7	03	10.000	5.666E7	04	25.000	5.091E7
05	50.000	5.156E7									

alpha-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	6.071E7	02	5.000	7.135E7	03	10.000	8.206E7	04	25.000	7.618E7
05	50.000	7.825E7									

beta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.768E7	02	5.000	2.741E7	03	10.000	3.057E7	04	25.000	2.711E7
05	50.000	2.7E7									

delta-BHC

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	5.549E7	02	5.000	6.019E7	03	10.000	7.074E7	04	25.000	6.603E7
05	50.000	6.767E7									

Client: Olin Corporation
Project: Charles Gibson - Olin

Service Request: R2307728
Calibration Date: 9/7/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Calibration ID: RC2300129
Instrument ID: R-GC-62

Signal ID: STx-CLPII

Analyte

gamma-BHC (Lindane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	5.827E7	02	5.000	6.187E7	03	10.000	7.161E7	04	25.000	6.637E7
05	50.000	6.773E7									

Client: Olin Corporation
Project: Charles Gibson - Olin

Service Request: R2307728
Calibration Date: 9/7/2023

Initial Calibration Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Calibration ID: RC2300129
Instrument ID: R-GC-62

Signal ID: STx-CLPII

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Decachlorobiphenyl	SURR	Average RF	% RSD	8.0	20	2.333E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	6.9	20	5.108E7	
alpha-BHC	TRG	Average RF	% RSD	11.2	20	7.371E7	
beta-BHC	TRG	Average RF	% RSD	5.3	20	2.795E7	
delta-BHC	TRG	Average RF	% RSD	9.6	20	6.402E7	
gamma-BHC (Lindane)	TRG	Average RF	% RSD	8.0	20	6.517E7	

Client: Olin Corporation
Project: Charles Gibson - Olin

Service Request: R2307728
Calibration Date: 9/7/2023

Initial Calibration Verification Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Calibration ID: RC2300129
Instrument ID: R-GC-62

Signal ID: STx-CLP

#	Lab Code	Sample Name	File Location	Acquisition Date
06	RC2300129-06	8081 ICV	I:\ACQUDATA\7890m\DATA\090723\B3027.D	09/07/2023 13:44
12	RC2300129-12	TOX ICV	I:\ACQUDATA\7890m\DATA\090723\B3033.D	09/07/2023 15:32
18	RC2300129-18	CHLOR ICV	I:\ACQUDATA\7890m\DATA\090723\B3039.D	09/07/2023 17:19

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
alpha-BHC	10.0	10.2	2.547E8	2.592E8	1.74	±30	Average RF
beta-BHC	10.0	10.2	9.454E7	9.64E7	1.97	±30	Average RF
delta-BHC	10.0	9.62	2.223E8	2.138E8	-3.828	±30	Average RF
gamma-BHC (Lindane)	10.0	9.93	2.318E8	2.302E8	-0.711	±30	Average RF

Client: Olin Corporation
Project: Charles Gibson - Olin

Service Request: R2307728
Calibration Date: 9/7/2023

Initial Calibration Verification Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Calibration ID: RC2300129
Instrument ID: R-GC-62

Signal ID: STx-CLPII

#	Lab Code	Sample Name	File Location	Acquisition Date
06	RC2300129-06	8081 ICV	I:\ACQUDATA\7890m\DATA\090723\B3027.D	09/07/2023 13:44
12	RC2300129-12	TOX ICV	I:\ACQUDATA\7890m\DATA\090723\B3033.D	09/07/2023 15:32
18	RC2300129-18	CHLOR ICV	I:\ACQUDATA\7890m\DATA\090723\B3039.D	09/07/2023 17:19

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
alpha-BHC	10.0	10.4	7.371E7	7.689E7	4.32	±30	Average RF
beta-BHC	10.0	10.3	2.795E7	2.87E7	2.69	±30	Average RF
delta-BHC	10.0	9.90	6.402E7	6.338E7	-1.005	±30	Average RF
gamma-BHC (Lindane)	10.0	10.2	6.517E7	6.636E7	1.83	±30	Average RF

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728
Date Analyzed: 09/07/23 18:30

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890m\DATA\090723\B3043.D\
Signal ID: STx-CLP

Calibration Date: 9/7/2023
Calibration ID: RC2300129
Analysis Lot: 816493
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	29.1	2.547E8	2.967E8	16.5	NA	±20	Average RF
beta-BHC	25.0	26.7	9.454E7	1.011E8	7.0	NA	±20	Average RF
delta-BHC	25.0	27.7	2.223E8	2.459E8	10.6	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	29.5	2.318E8	2.734E8	17.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	25.0	26.1	8.628E7	9.02E7	4.5	NA	±20	Average RF
Tetrachloro-m-xylene	25.0	28.1	1.685E8	1.894E8	12.4	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728
Date Analyzed: 09/07/23 18:30

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890m\DATA\090723\B3043.D\
Signal ID: STx-CLPII

Calibration Date: 9/7/2023
Calibration ID: RC2300129
Analysis Lot: 816493
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	30.2	7.371E7	8.91E7	20.9*	NA	±20	Average RF
beta-BHC	25.0	28.2	2.795E7	3.152E7	12.8	NA	±20	Average RF
delta-BHC	25.0	30.0	6.402E7	7.684E7	20.0	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	29.9	6.517E7	7.787E7	19.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	25.0	28.8	2.333E7	2.686E7	15.1	NA	±20	Average RF
Tetrachloro-m-xylene	25.0	29.1	5.108E7	5.94E7	16.3	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728
Date Analyzed: 09/07/23 21:47

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890m\DATA\090723\B3054.D\
Signal ID: STx-CLP

Calibration Date: 9/7/2023
Calibration ID: RC2300129
Analysis Lot: 816493
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	30.4	2.547E8	3.094E8	21.5*	NA	±20	Average RF
beta-BHC	25.0	27.9	9.454E7	1.057E8	11.8	NA	±20	Average RF
delta-BHC	25.0	28.5	2.223E8	2.533E8	13.9	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	30.5	2.318E8	2.832E8	22.2*	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	25.0	28.3	8.628E7	9.777E7	13.3	NA	±20	Average RF
Tetrachloro-m-xylene	25.0	27.6	1.685E8	1.862E8	10.5	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728
Date Analyzed: 09/07/23 21:47

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890m\DATA\090723\B3054.D\
Signal ID: STx-CLPII

Calibration Date: 9/7/2023
Calibration ID: RC2300129
Analysis Lot: 816493
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	31.7	7.371E7	9.36E7	27.0*	NA	±20	Average RF
beta-BHC	25.0	29.5	2.795E7	3.303E7	18.2	NA	±20	Average RF
delta-BHC	25.0	31.5	6.402E7	8.057E7	25.8*	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	31.3	6.517E7	8.166E7	25.3*	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	25.0	31.3	2.333E7	2.92E7	25.2*	NA	±20	Average RF
Tetrachloro-m-xylene	25.0	30.2	5.108E7	6.17E7	20.8*	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728
Date Analyzed: 09/08/23 00:09

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890m\DATA\090723\B3062.D\
Signal ID: STx-CLPII

Calibration Date: 9/7/2023
Calibration ID: RC2300129
Analysis Lot: 816493
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	31.4	7.371E7	9.27E7	25.8*	NA	±20	Average RF
beta-BHC	25.0	27.2	2.795E7	3.044E7	8.9	NA	±20	Average RF
delta-BHC	25.0	28.9	6.402E7	7.399E7	15.6	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	28.8	6.517E7	7.497E7	15.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	25.0	30.1	2.333E7	2.808E7	20.4	NA	±20	Average RF
Tetrachloro-m-xylene	25.0	29.7	5.108E7	6.076E7	18.9	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request: R2307728
Date Analyzed: 09/08/23 00:09

**Continuing Calibration Verification (CCV) Summary
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction**

Analysis Method: 8081B
File ID: I:\ACQUADATA\7890m\DATA\090723\B3062.D\
Signal ID: STx-CLP

Calibration Date: 9/7/2023
Calibration ID: RC2300129
Analysis Lot: 816493
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
alpha-BHC	25.0	31.7	2.547E8	3.228E8	26.7*	NA	±20	Average RF
beta-BHC	25.0	27.5	9.454E7	1.041E8	10.1	NA	±20	Average RF
delta-BHC	25.0	27.9	2.223E8	2.476E8	11.4	NA	±20	Average RF
gamma-BHC (Lindane)	25.0	28.4	2.318E8	2.636E8	13.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Decachlorobiphenyl	25.0	27.0	8.628E7	9.317E7	8.0	NA	±20	Average RF
Tetrachloro-m-xylene	25.0	28.1	1.685E8	1.894E8	12.4	NA	±20	Average RF

Client: Olin Corporation
Project: Charles Gibson - Olin/1305

Service Request:R2307728

Analysis Run Log
Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Analysis Method: 8081B

Analysis Lot:816493

Instrument ID:R-GC-62

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\7890m\DATA\090723 \B3040.D\	Performance Evaluation	RQ2311662-01	9/7/2023	17:37:00	
I:\ACQUDATA\7890m\DATA\090723 \B3041.D\	Continuing Calibration Verification	RQ2311662-02	9/7/2023	17:55:00	
I:\ACQUDATA\7890m\DATA\090723 \B3042.D\	Continuing Calibration Verification	RQ2311662-02	9/7/2023	18:13:00	
I:\ACQUDATA\7890m\DATA\090723 \B3043.D\	Continuing Calibration Verification	RQ2311662-02	9/7/2023	18:30:00	
I:\ACQUDATA\7890m\DATA\090723 \B3051.D\	Method Blank	RQ2311102-01	9/7/2023	20:53:00	
I:\ACQUDATA\7890m\DATA\090723 \B3052.D\	Lab Control Sample	RQ2311102-02	9/7/2023	21:11:00	
I:\ACQUDATA\7890m\DATA\090723 \B3053.D\	Duplicate Lab Control Sample	RQ2311102-03	9/7/2023	21:29:00	
I:\ACQUDATA\7890m\DATA\090723 \B3054.D\	Continuing Calibration Verification	RQ2311662-03	9/7/2023	21:47:00	
I:\ACQUDATA\7890m\DATA\090723 \B3059.D\	US-1-082223	R2307728-001	9/7/2023	23:16:00	
I:\ACQUDATA\7890m\DATA\090723 \B3060.D\	MS-1-082223	R2307728-002	9/7/2023	23:34:00	
I:\ACQUDATA\7890m\DATA\090723 \B3061.D\	DS-1-082223	R2307728-003	9/7/2023	23:51:00	
I:\ACQUDATA\7890m\DATA\090723 \B3062.D\	Continuing Calibration Verification	RQ2311662-04	9/8/2023	00:09:00	

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil

Service Request:R2307728

Organochlorine Pesticides by Gas Chromatography using Microwave Extraction

Prep Method: EPA 3546

Extraction Lot: 425596

Analytical Method: 8081B

Extraction Date: 08/29/23 07:51

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
US-1-082223	R2307728-001	8/22/23	8/24/23	15.0200 g	10 mL	39.2
MS-1-082223	R2307728-002	8/22/23	8/24/23	15.0400 g	10 mL	36.2
DS-1-082223	R2307728-003	8/22/23	8/24/23	14.9800 g	10 mL	29.6
Method Blank	RQ2311102-01MB	NA	NA	15 g	10 mL	
Lab Control Sample	RQ2311102-02LCS	NA	NA	15.0200 g	10 mL	
Duplicate Lab Control Sample	RQ2311102-03DLCS	NA	NA	15.0100 g	10 mL	



General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil
Sample Name: US-1-082223
Lab Code: R2307728-001

Service Request: R2307728
Date Collected: 08/22/23 14:15
Date Received: 08/24/23 09:50
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	39.2	Percent	-	1	08/29/23 15:15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil
Sample Name: MS-1-082223
Lab Code: R2307728-002

Service Request: R2307728
Date Collected: 08/22/23 14:45
Date Received: 08/24/23 09:50
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	36.2	Percent	-	1	08/29/23 15:15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Olin Corporation
Project: Charles Gibson - Olin/1305
Sample Matrix: Soil
Sample Name: DS-1-082223
Lab Code: R2307728-003

Service Request: R2307728
Date Collected: 08/22/23 15:15
Date Received: 08/24/23 09:50
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	29.6	Percent	-	1	08/29/23 15:15	

Analytical Results Summary

Instrument Name: R-Balance-23

Analyst: HCASTROVINCI

Analysis Lot: 815551 Method/Testcode: ALS SOP/Total Solids

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2307587-001	Total Solids	N/A		Soil	71.28 Percent		71.3 Percent	1					8/29/23 15:15	N	II
2307587-002	Total Solids	DUP	R2307587-001	Soil	71.99 Percent		72.0 Percent	1				<1	8/29/23 15:15	N	II
2307587-003	Total Solids	N/A		Soil	63.19 Percent		63.2 Percent	1					8/29/23 15:15	N	II
2307587-004	Total Solids	N/A		Soil	52.05 Percent		52.1 Percent	1					8/29/23 15:15	N	II
2307726-001	Total Solids	N/A		Soil	88.84 Percent		88.8 Percent	1					8/29/23 15:15	N	II
2307726-002	Total Solids	N/A		Soil	90.32 Percent		90.3 Percent	1					8/29/23 15:15	N	II
2307726-003	Total Solids	N/A		Soil	89.93 Percent		89.9 Percent	1					8/29/23 15:15	N	II
2307726-004	Total Solids	N/A		Soil	88.96 Percent		89.0 Percent	1					8/29/23 15:15	N	II
2307726-005	Total Solids	N/A		Soil	91.82 Percent		91.8 Percent	1					8/29/23 15:15	N	II
2307726-006	Total Solids	N/A		Soil	79.33 Percent		79.3 Percent	1					8/29/23 15:15	N	II
2307726-007	Total Solids	DUP	R2307726-006	Soil	80.24 Percent		80.2 Percent	1				1	8/29/23 15:15	N	II
2307726-008	Total Solids	N/A		Soil	88.31 Percent		88.3 Percent	1					8/29/23 15:15	N	II
2307572-001	Total Solids	N/A		Soil	90.74 Percent		90.7 Percent	1					8/29/23 15:15	N	II
2307572-002	Total Solids	N/A		Soil	81.91 Percent		81.9 Percent	1					8/29/23 15:15	N	IV
2307727-006	Total Solids	N/A		Soil	83.84 Percent		83.8 Percent	1					8/29/23 15:15	N	IV
2307728-001	Total Solids	N/A		Soil	22.53 Percent		22.5 Percent	1					8/29/23 15:15	N	II
2307728-002	Total Solids	N/A		Soil	39.24 Percent		39.2 Percent	1					8/29/23 15:15	N	IV
2307728-003	Total Solids	N/A		Soil	36.24 Percent		36.2 Percent	1					8/29/23 15:15	N	IV
2307588-001	Total Solids	N/A		Soil	29.63 Percent		29.6 Percent	1					8/29/23 15:15	N	IV
2307588-002	Total Solids	N/A		Soil	84.27 Percent		84.3 Percent	1					8/29/23 15:15	N	IV
2307588-002	Total Solids	N/A		Soil	84.80 Percent		84.8 Percent	1					8/29/23 15:15	N	IV

‡ indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: % Volatile Solids
 Method: SM 2540G-2015
 Analytes: Dry Weight % Solid
 Method: ALS SOP

Analyst: HC Date: 8/29/23
 Pipet: NA Time: 15:15
 Thermolyne F48025-6048000 Muffle Furnace
 Balance ID R-BALANCE-023 Oven ID 7
 Class 1 Weight Initial: 10.00 Final: 10.00

% Volatile Solids:

$\% VS = (A - D) / (A - B) * 100$

% Solids:

$\% Solid = (A - B) / (C - B) * 100$

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
1	MB	1	B) 2.5000	Dry wgt (A): 2.5000		1.00
			C)	550 wgt (D):		
2	R2307587-001	2	B) 2.5100	Dry wgt (A): 12.2400		71.28
			C) 16.1600	550 wgt (D):		
3	R2307587-001 DUP	3	B) 2.5400	Dry wgt (A): 12.3300		71.99
			C) 16.1400	550 wgt (D):		
4	R2307587-002	4	B) 2.5300	Dry wgt (A): 7.0200		46.53
			C) 12.1800	550 wgt (D):		
5	R2307587-003	5	B) 2.5100	Dry wgt (A): 10.2000		63.19
			C) 14.6800	550 wgt (D):		
6	R2307587-004	6	B) 2.5200	Dry wgt (A): 8.7300		52.05
			C) 14.4500	550 wgt (D):		
7	R2307726-001	7	B) 2.5000	Dry wgt (A): 12.8500		88.84
			C) 14.1500	550 wgt (D):		
8	R2307726-002	8	B) 2.5200	Dry wgt (A): 15.0200		90.32
			C) 16.3600	550 wgt (D):		
9	R2307726-003	9	B) 2.5000	Dry wgt (A): 14.2900		89.93
			C) 15.6100	550 wgt (D):		
10	R2307726-004	10	B) 2.5200	Dry wgt (A): 13.9600		88.96
			C) 15.3800	550 wgt (D):		
11	R2307726-005	11	B) 2.5300	Dry wgt (A): 13.3100		91.82
			C) 14.2700	550 wgt (D):		
12	R2307726-006	12	B) 2.5300	Dry wgt (A): 11.0500		79.33
			C) 13.2700	550 wgt (D):		
13	R2307726-006 DUP	13	B) 2.5300	Dry wgt (A): 13.0500		80.24
			C) 15.6400	550 wgt (D):		
14	R2307726-007	14	B) 2.5500	Dry wgt (A): 13.3500		88.31
			C) 14.7800	550 wgt (D):		
15	R2307726-008	15	B) 2.5300	Dry wgt (A): 12.7200		90.74
			C) 13.7600	550 wgt (D):		
16	R2307572-001	16	B) 2.5400	Dry wgt (A): 13.3200		81.91
			C) 15.7000	550 wgt (D):		
17	R2307572-002	17	B) 2.5200	Dry wgt (A): 12.5300		83.84
			C) 14.4600	550 wgt (D):		
18	R2307727-006	18	B) 2.5400	Dry wgt (A): 5.0700		22.53
			C) 13.7700	550 wgt (D):		
19	R2307728-001	19	B) 2.5300	Dry wgt (A): 6.5800		39.24
			C) 12.8500	550 wgt (D):		
20	R2307728-002	20	B) 2.5100	Dry wgt (A): 6.6200		36.24
			C) 13.8500	550 wgt (D):		

Analyte: % Volatile Solids
 Method: SM 2540G-2015
 Analytes: Dry Weight % Solid
 Method : ALS SOP

Analyst: HC
 Pipet: NA

Date: 8/29/23
 Time: 15:15

Thermolyne F48025-6048000 Muffle Furnace

Balance ID R-BALANCE-023

Oven ID 7

Class 1 Weight Initial: 10.00

Final: 10.00

% Volatile Solids:

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

% Solids:

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
21	R2307728-003	21	B) 2.5000	Dry wgt (A): 5.8300		29.63
			C) 13.7400	550 wgt (D):		
22	R2307588-001	22	B) 2.5200	Dry wgt (A): 12.5400		84.27
			C) 14.4100	550 wgt (D):		
23	R2307588-002	23	B) 2.5200	Dry wgt (A): 14.1800		84.80
			C) 16.2700	550 wgt (D):		

Data Evaluation Narrative

Data Evaluation Narrative**Charles Gibson – Fall 2023 Sediment Sampling Event****SDG: R2307728 – ALS Environmental, Rochester, NY****Deliverables**

The data package as submitted to Olin Corporation is complete as stipulated under the Quality Assurance Project Plan (QAPP) for the site. United States Environmental Protection Agency (USEPA) Method 8081B was utilized in laboratory testing of samples. The ALS Standard Operating Procedure (SOP) was utilized to obtain percent solids of sediment samples to report results on a dry weight basis.

Sample Integrity

Samples within this sample delivery group (SDG) were submitted to the ALS Environmental Laboratory in Rochester, NY for site-specific chlorinated pesticides and percent solids analyses. The sample cooler temperature measured within the specified temperature limits upon arrival at the laboratory. The proper containers were used, the Chain of Custody was properly relinquished, and the correct analytical methods were employed.

Sample Identification

This SDG contains the following sediment samples collected August 22, 2023:

SDG R2307728:

Sample ID	Sample ID	Sample ID
US-1-082223	MS-1-082223*	DS-1-082223

* Blind Field Duplicate of US-1-082223

Chlorinated Pesticides (8081B)

The samples in this SDG were submitted for site-specific chlorinated pesticides analysis by USEPA Method 8081B.

Holding Times:

The extraction and analytical logs indicate that initial applicable holding times were met for samples submitted for chlorinated pesticide analysis.

Calibration:

The initial calibration data for this SDG indicates that the applicable calibration criteria were met for samples submitted for chlorinated pesticide analysis. Some associated continuing calibration verification (CCV) samples had recoveries above the upper laboratory control limit for a few BHC compounds; since no analytes were detected above the method reporting limit (MRL) no data qualification was deemed necessary by professional judgment. The column breakdowns for Endrin and DDT were assessed, and the percent degradation was within QC limits each day that samples were analyzed.

Surrogate Recoveries:

The surrogate recoveries were within laboratory QC guidelines.

Blank Summary:

The analytical results of the laboratory method blanks indicate that chlorinated pesticides were not detected.

Laboratory Control Sample (LCS) and LCS Duplicate (LCSD):

The LCS and LCSD spike recoveries and relative percent differences (RPDs) were with laboratory control limits.

Second Column Confirmation:

The laboratory utilized a second column confirmation for the analysis of chlorinated pesticides. The confirmation results were within QC guidelines for the LCS/LCSD and performance evaluation mixture (PEM) samples.

Duplicate Sample:

According to the sampler, MS-1-082223 was a blind field duplicate of US-1-082223. All site-specific pesticides were non-detect in the parent sample and field duplicate.

Reporting Limits:

The reporting limits were elevated for all pesticide compounds analyzed since the sample extracts were diluted 5X due to matrix interference.

Matrix Spike/Matrix Spike Duplicate (MS/MSD):

No MS/MSD analyses were performed on project samples since the sediment traps did not contain very much material.

Percent Total Solids

The three sediment samples were analyzed for Percent Total Solids by the ALS SOP to report the results on a dry weight basis. The relative percent difference (RPD) for the duplicate pair (US-1/MS-1) was 8.0.

Overall Site Evaluation and Professional Judgment Flagging Changes

The data within this SDG were compared to site data and edits to the DQE flags were not required based on professional judgment as detailed above. Monitoring period completeness, which is the percentage of analytical results judged valid, including estimated values, was 100 percent for the August 2023 sampling event. Typically, project objectives are met when completeness is 90 percent or better.

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