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# Cover Page

**Order ID :** P1747

**Project ID :** Walter Gladwin Recreation Center, Bronx, NY

**Client :** LiRo Engineers, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| P1747-01 | MW-01 |
| P1747-02 | MW-01-DUP |
| P1747-03 | MW-01 |
| P1747-04 | MW-02 |
| P1747-05 | TWP-04 |
| P1747-06 | TRIP-BLANK-1 |
| P1747-07 | MW-01 |
| P1747-08 | MW-01-DUP |
| P1747-09 | MW-02 |
| P1747-10 | TWP-04 |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____ Date: 3/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**LiRo Engineers, Inc.**
**Project Name: Walter Gladwin Recreation Center, Bronx, NY**
**Project # N/A**
**Chemtech Project # P1747**
**Test Name: PCB**

**A. Number of Samples and Date of Receipt:**
10 Water samples were received on 03/13/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Anions Group1, CBOD5, Chloride, Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Flash Point, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-NYCD, METALS-TAL, Non-Polar Material, NYCDischarge, PCB, Pesticide-TCL, Phenolics, SVOC-NYCD, SVOC-TCL BNA -20, TKN, Total Nitrogen, TS, TSS, VOC-NYCD and VOC-TCLVOA-10. This data package contains results for PCB.

**C. Analytical Techniques:**
The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 608.3,8082A and extraction was done based on method 3510.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for MW-01 [Tetrachloro-m-xylene(1) - 54%],AS per method one surrogate allowed to fail to meet the criteria per column, No further corrective action was taken.

The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID PO102519.D met the requirements except for Aroclor-1260(Peak-05),Decachlorobiphenyl is failing in 2nd column,
The Continuous Calibration File ID PO102531.D met the requirements except for Aroclor-1260(Peak-05),Decachlorobiphenyl is failing in 2nd column,

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Above CCAL failing high in 2nd column but it is passing in 1st column therefore no corrective action taken.

**E. Additional Comments:**
As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.

**F. Manual Integration Comments:**
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value**.** This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #: P1747**

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**1st Level QA Review Signature:** PATEL VAISHALI **Date:** 03/27/2024

**2nd Level QA Review Signature:** _____ **Date:** _____

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P1747 | **OrderDate:** | 3/13/2024 12:28:00 PM |
| **Client:** | LiRo Engineers, Inc. | **Project:** | Walter Gladwin Recreation Center, Bronx, NY |
| **Contact:** | Steve Frank | **Location:** | I21,I31,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P1747-01** | **MW-01** | **WATER** | | | **03/12/24** | | | **03/13/24** |
| | | | PCB | 8082A | | 03/14/24 | 03/14/24 | |
| | | | Pesticide-TCL | 8081B | | 03/14/24 | 03/14/24 | |
| **P1747-02** | **MW-01-DUP** | **WATER** | | | **03/12/24** | | | **03/13/24** |
| | | | PCB | 8082A | | 03/14/24 | 03/14/24 | |
| | | | Pesticide-TCL | 8081B | | 03/14/24 | 03/14/24 | |
| **P1747-03** | **MW-01** | **WATER** | | | **03/13/24** | | | **03/13/24** |
| | | | PCB | 608.3 | | 03/14/24 | 03/15/24 | |
| **P1747-04** | **MW-02** | **WATER** | | | **03/12/24** | | | **03/13/24** |
| | | | PCB | 8082A | | 03/14/24 | 03/14/24 | |
| | | | Pesticide-TCL | 8081B | | 03/14/24 | 03/14/24 | |
| **P1747-05** | **TWP-04** | **WATER** | | | **03/12/24** | | | **03/13/24** |
| | | | PCB | 8082A | | 03/14/24 | 03/14/24 | |
| | | | Pesticide-TCL | 8081B | | 03/14/24 | 03/14/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P1747 **Order ID:** P1747

**Client:** LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bı

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Client ID : | | | | | | | | |
| | | | Total Concentration: | 0.000 | | | | |

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# QC SUMMARY

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## Surrogate Summary

**SDG No.:** P1747

**Client:** LiRo Engineers, Inc.

**Analytical Method:** 8082A

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| I.BLK-PO102408.D | PIBLK-PO102408.D | Tetrachloro-m-xylene | 1 | 20 | 17.9 | 90 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 18.4 | 92 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.6 | 88 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 18.3 | 92 | | 60 | 140 |
| I.BLK-PO102500.D | PIBLK-PO102500.D | Tetrachloro-m-xylene | 1 | 20 | 20.0 | 100 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 26.1 | 131 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.9 | 100 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 27.5 | 137 | | 60 | 140 |
| PB159587BL | PB159587BL | Tetrachloro-m-xylene | 1 | 20 | 19.1 | 96 | | 21 | 155 |
| | | Decachlorobiphenyl | 1 | 20 | 23.7 | 118 | | 10 | 173 |
| | | Tetrachloro-m-xylene | 2 | 20 | 18.8 | 94 | | 21 | 155 |
| | | Decachlorobiphenyl | 2 | 20 | 25.0 | 125 | | 10 | 173 |
| PB159587BS | PB159587BS | Tetrachloro-m-xylene | 1 | 20 | 20.0 | 100 | | 21 | 155 |
| | | Decachlorobiphenyl | 1 | 20 | 24.2 | 121 | | 10 | 173 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.7 | 89 | | 21 | 155 |
| | | Decachlorobiphenyl | 2 | 20 | 25.7 | 128 | | 10 | 173 |
| PB159587BSD | PB159587BSD | Tetrachloro-m-xylene | 1 | 20 | 19.5 | 97 | | 21 | 155 |
| | | Decachlorobiphenyl | 1 | 20 | 23.7 | 119 | | 10 | 173 |
| | | Tetrachloro-m-xylene | 2 | 20 | 17.5 | 88 | | 21 | 155 |
| | | Decachlorobiphenyl | 2 | 20 | 25.1 | 126 | | 10 | 173 |
| P1747-01 | MW-01 | Tetrachloro-m-xylene | 1 | 20 | 19.2 | 96 | | 21 | 155 |
| | | Decachlorobiphenyl | 1 | 20 | 18.9 | 94 | | 10 | 173 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.1 | 96 | | 21 | 155 |
| | | Decachlorobiphenyl | 2 | 20 | 19.8 | 99 | | 10 | 173 |
| P1747-02 | MW-01-DUP | Tetrachloro-m-xylene | 1 | 20 | 19.0 | 95 | | 21 | 155 |
| | | Decachlorobiphenyl | 1 | 20 | 18.2 | 91 | | 10 | 173 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.6 | 98 | | 21 | 155 |
| | | Decachlorobiphenyl | 2 | 20 | 19.5 | 98 | | 10 | 173 |
| P1747-04 | MW-02 | Tetrachloro-m-xylene | 1 | 20 | 19.7 | 98 | | 21 | 155 |
| | | Decachlorobiphenyl | 1 | 20 | 19.0 | 95 | | 10 | 173 |
| | | Tetrachloro-m-xylene | 2 | 20 | 19.5 | 97 | | 21 | 155 |
| | | Decachlorobiphenyl | 2 | 20 | 20.5 | 103 | | 10 | 173 |
| P1747-05 | TWP-04 | Tetrachloro-m-xylene | 1 | 20 | 20.4 | 102 | | 21 | 155 |
| | | Decachlorobiphenyl | 1 | 20 | 21.0 | 105 | | 10 | 173 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.7 | 104 | | 21 | 155 |
| | | Decachlorobiphenyl | 2 | 20 | 22.7 | 113 | | 10 | 173 |
| I.BLK-PO102520.D | PIBLK-PO102520.D | Tetrachloro-m-xylene | 1 | 20 | 20.7 | 104 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 27.7 | 138 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 20.9 | 104 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 29.7 | 149 | * | 60 | 140 |
| PB159600BS | PB159600BS | Tetrachloro-m-xylene | 1 | 20 | 15.7 | 79 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 20.7 | 103 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 15.7 | 79 | | 60 | 140 |

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## Surrogate Summary

**SDG No.:** P1747

**Client:** LiRo Engineers, Inc.

**Analytical Method:** 608.3 PCB

| Lab Sample ID | Client ID | Parameter | Column | Spike | Result | Rec | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|---|
| PB159600BS | PB159600BS | Decachlorobiphenyl | 2 | 20 | 22.1 | 111 | | 60 | 140 |
| PB159600BSD | PB159600BSD | Tetrachloro-m-xylene | 1 | 20 | 16.3 | 81 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 20.5 | 103 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 15.4 | 77 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 22.3 | 111 | | 60 | 140 |
| PB159600BL | PB159600BL | Tetrachloro-m-xylene | 1 | 20 | 15.7 | 79 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 20.6 | 103 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 15.6 | 78 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 22.1 | 111 | | 60 | 140 |
| P1747-03 | MW-01 | Tetrachloro-m-xylene | 1 | 20 | 10.8 | 54 | * | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 22.1 | 111 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 12.8 | 64 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 24.3 | 121 | | 60 | 140 |
| I.BLK-PO102532.D | PIBLK-PO102532.D | Tetrachloro-m-xylene | 1 | 20 | 21.2 | 106 | | 60 | 140 |
| | | Decachlorobiphenyl | 1 | 20 | 28.0 | 140 | | 60 | 140 |
| | | Tetrachloro-m-xylene | 2 | 20 | 21.2 | 106 | | 60 | 140 |
| | | Decachlorobiphenyl | 2 | 20 | 29.7 | 149 | * | 60 | 140 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P1747

**Client:** LiRo Engineers, Inc.

**Analytical Method:** 8082A **Datafile :** PO102513.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB159587BS | AR1016 | 5 | 5.30 | ug/L | 106 | | | | 61 | 112 | |
| | AR1260 | 5 | 5.20 | ug/L | 104 | | | | 66 | 113 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P1747

**Client:** LiRo Engineers, Inc.

**Analytical Method:** 8082A **Datafile :** PO102514.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB159587BSD | AR1016 | 5 | 5.20 | ug/L | 104 | 2 | | | 61 | 112 | 20 |
| | AR1260 | 5 | 5.20 | ug/L | 104 | 0 | | | 66 | 113 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P1747

**Client:** LiRo Engineers, Inc.

**Analytical Method:** 608.3 PCB **Datafile :** PO102527.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB159600BS | AROCLOR 1016 | 0.05 | 0.053 | ug/L | 106 | | | | 50 | 140 | |
| | AROCLOR 1260 | 0.05 | 0.050 | ug/L | 99 | | | | 8 | 140 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P1747

**Client:** LiRo Engineers, Inc.

**Analytical Method:** 608.3 PCB **Datafile :** PO102528.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PB159600BSD | AROCLOR 1016 | 0.05 | 0.055 | ug/L | 109 | 3 | | | 50 | 140 | 20 |
| | AROCLOR 1260 | 0.05 | 0.051 | ug/L | 102 | 3 | | | 8 | 140 | 20 |

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159587BL

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159587BL Lab File ID: PO102512.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 03/14/2024

Date Analyzed (1): 03/14/2024 Date Analyzed (2): 03/14/2024

Time Analyzed (1): 19:12 Time Analyzed (2): 19:12

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| PB159587BS | PB159587BS | PO102513.D | 03/14/2024 | 03/14/2024 |
| PB159587BSD | PB159587BSD | PO102514.D | 03/14/2024 | 03/14/2024 |
| MW-01 | P1747-01 | PO102515.D | 03/14/2024 | 03/14/2024 |
| MW-01-DUP | P1747-02 | PO102516.D | 03/14/2024 | 03/14/2024 |
| MW-02 | P1747-04 | PO102517.D | 03/14/2024 | 03/14/2024 |
| TWP-04 | P1747-05 | PO102518.D | 03/14/2024 | 03/14/2024 |

COMMENTS:

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB159600BL

Lab Name: CHEMTECH Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159600BL Lab File ID: PO102529.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 03/14/2024

Date Analyzed (1): 03/15/2024 Date Analyzed (2): 03/15/2024

Time Analyzed (1): 00:46 Time Analyzed (2): 00:46

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|---|---|---|---|---|
| PB159600BS | PB159600BS | PO102527.D | 03/15/2024 | 03/15/2024 |
| PB159600BSD | PB159600BSD | PO102528.D | 03/15/2024 | 03/15/2024 |
| MW-01 | P1747-03 | PO102530.D | 03/15/2024 | 03/15/2024 |

COMMENTS:

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# SAMPLE DATA

Raw Data: **PO102515.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/12/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/13/24 |
| Client Sample ID: | MW-01 | SDG No.: | P1747 |
| Lab Sample ID: | P1747-01 | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102515.D | 1 | 03/14/24 10:51 | 03/14/24 20:04 | PB159587 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.51 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.51 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.38 | U | 0.38 | 0.51 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.51 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.51 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.51 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.51 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.51 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.51 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.2 | | 21 - 155 | 96% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 19.8 | | 10 - 173 | 99% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PO102515.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102515.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:04
Operator : YP/AJ
Sample : P1747-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
MW-01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.384 | 78881195 | 53583133 | 19.244 | 19.123 |
| 2) | SA Decachlor... | 9.806 | 8.248 | 35847293 | 24367485 | 18.878 | 19.765 |
| | Target Compounds | | | | | | |

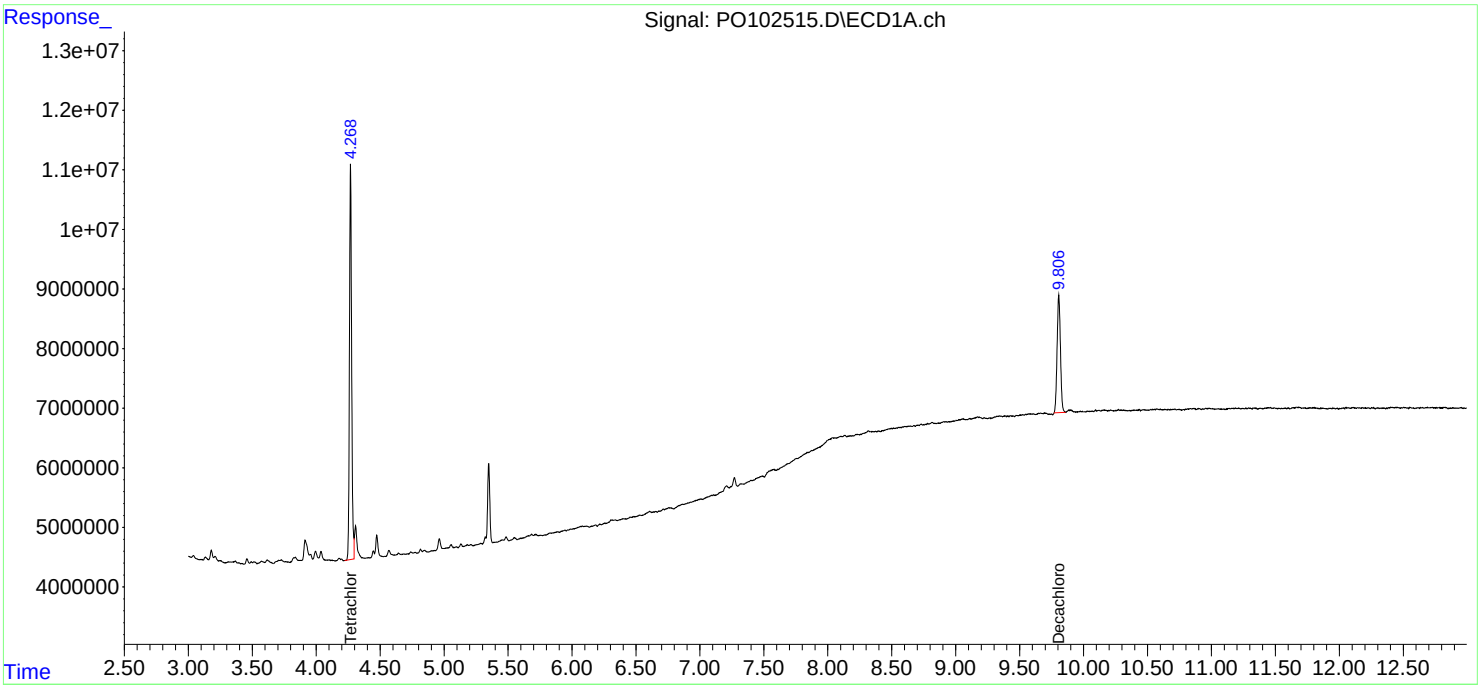
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

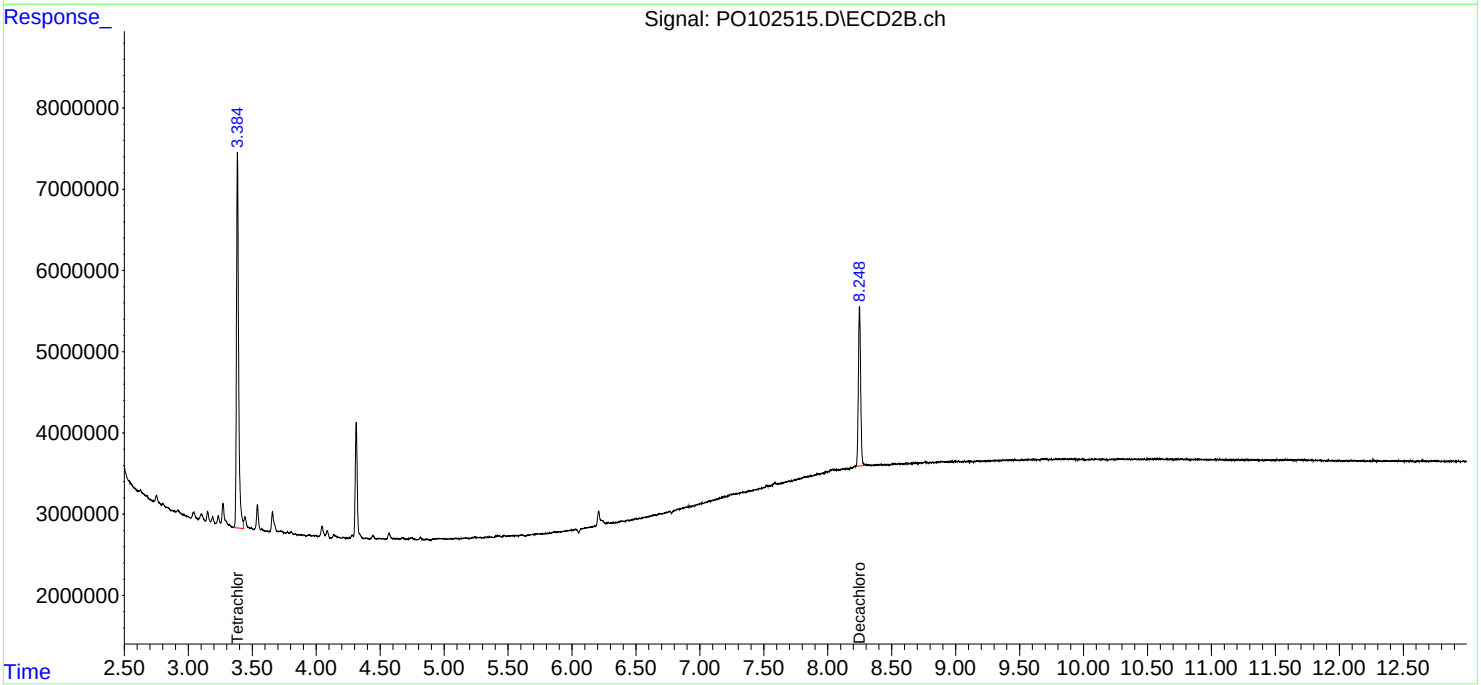
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102515.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:04
Operator : YP/AJ
Sample : P1747-01
Misc :
ALS Vial : 29 Sample Multiplier: 1

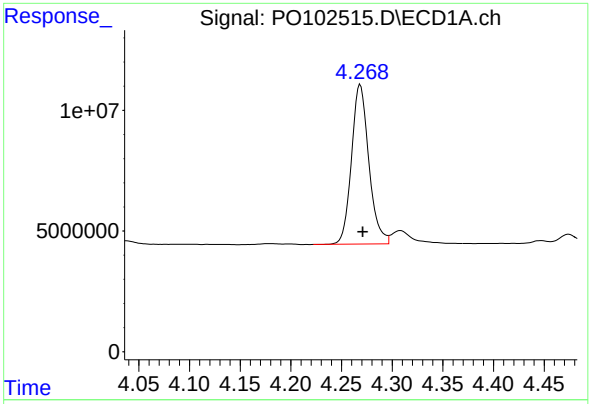
**Instrument :**
ECD_O
**ClientSampleId :**
MW-01

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:25:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



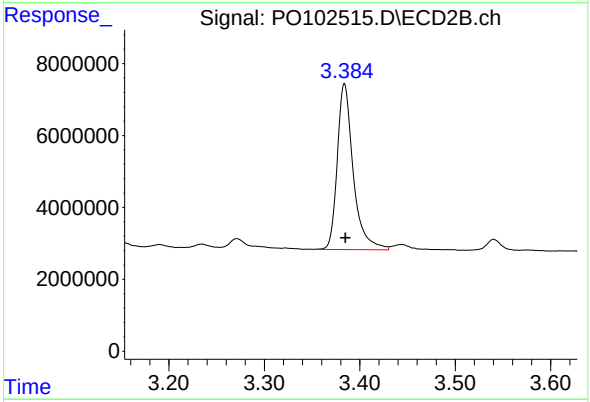






#1 Tetrachloro-m-xylene

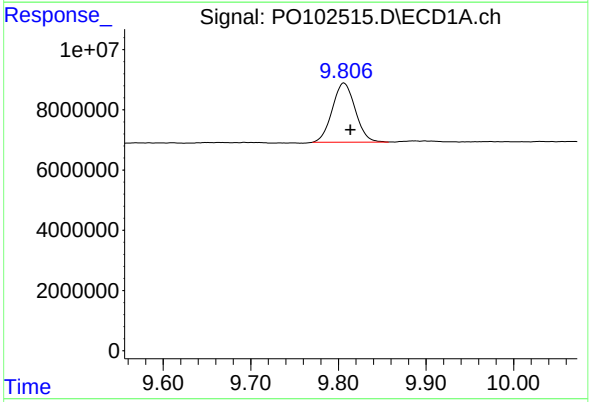
R.T.: 4.268 min
Delta R.T.: -0.003 min
Response: 78881195
Conc: 19.24 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
MW-01



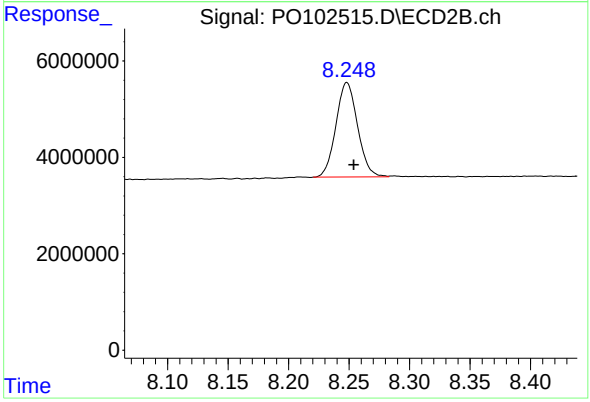

#1 Tetrachloro-m-xylene

R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 53583133
Conc: 19.12 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 35847293
Conc: 18.88 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 24367485
Conc: 19.77 ng/ml

Raw Data: **PO102516.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/12/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/13/24 |
| Client Sample ID: | MW-01-DUP | SDG No.: | P1747 |
| Lab Sample ID: | P1747-02 | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 970 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102516.D | 1 | 03/14/24 10:51 | 03/14/24 20:21 | PB159587 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.52 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.24 | U | 0.24 | 0.52 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.38 | U | 0.38 | 0.52 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.52 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.52 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.52 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.52 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.52 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.52 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.6 | | 21 - 155 | 98% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 19.5 | | 10 - 173 | 98% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Sample Results: **PO102516.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102516.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:21
Operator : YP/AJ
Sample : P1747-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
MW-01-DUP

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:26:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 77997837 | 54910300 | 19.029 | 19.597 |
| 2) | SA Decachlor... | 9.806 | 8.249 | 34479902 | 24059784 | 18.158 | 19.516 |
| | Target Compounds | | | | | | |

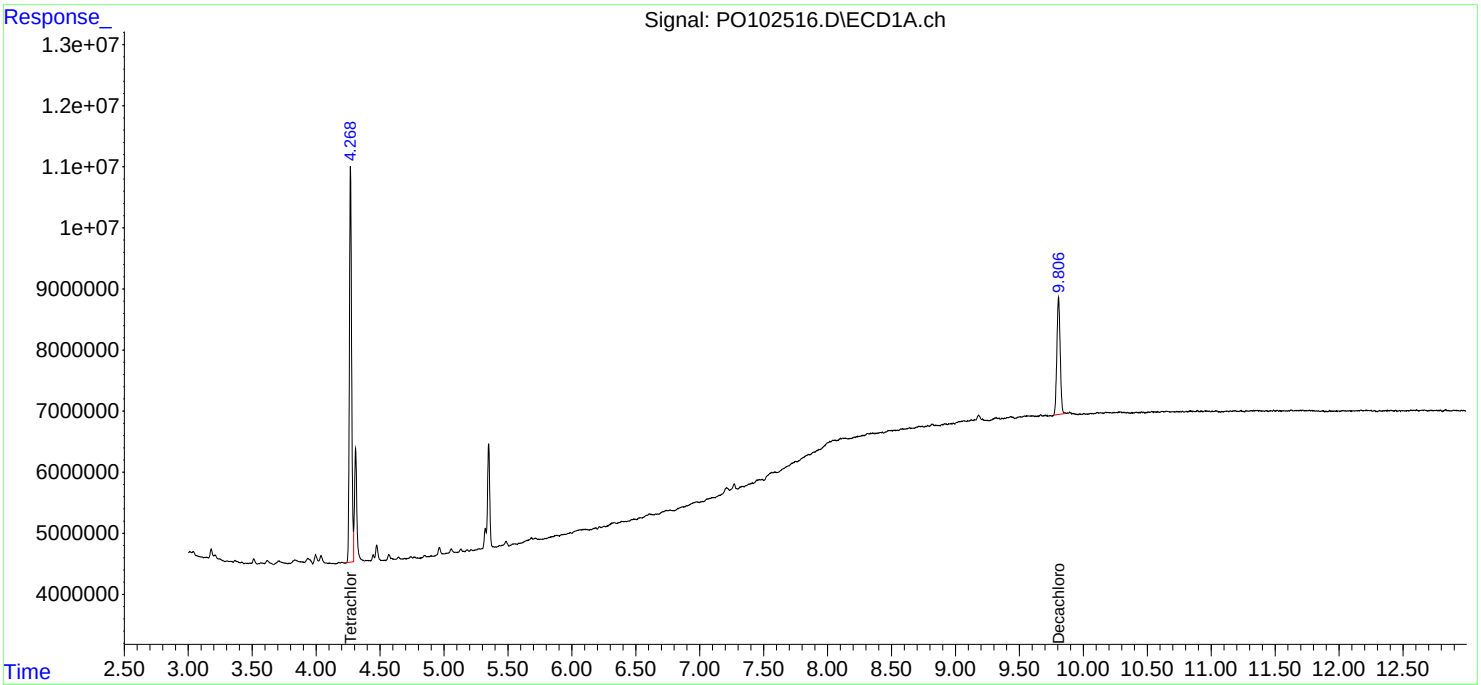
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

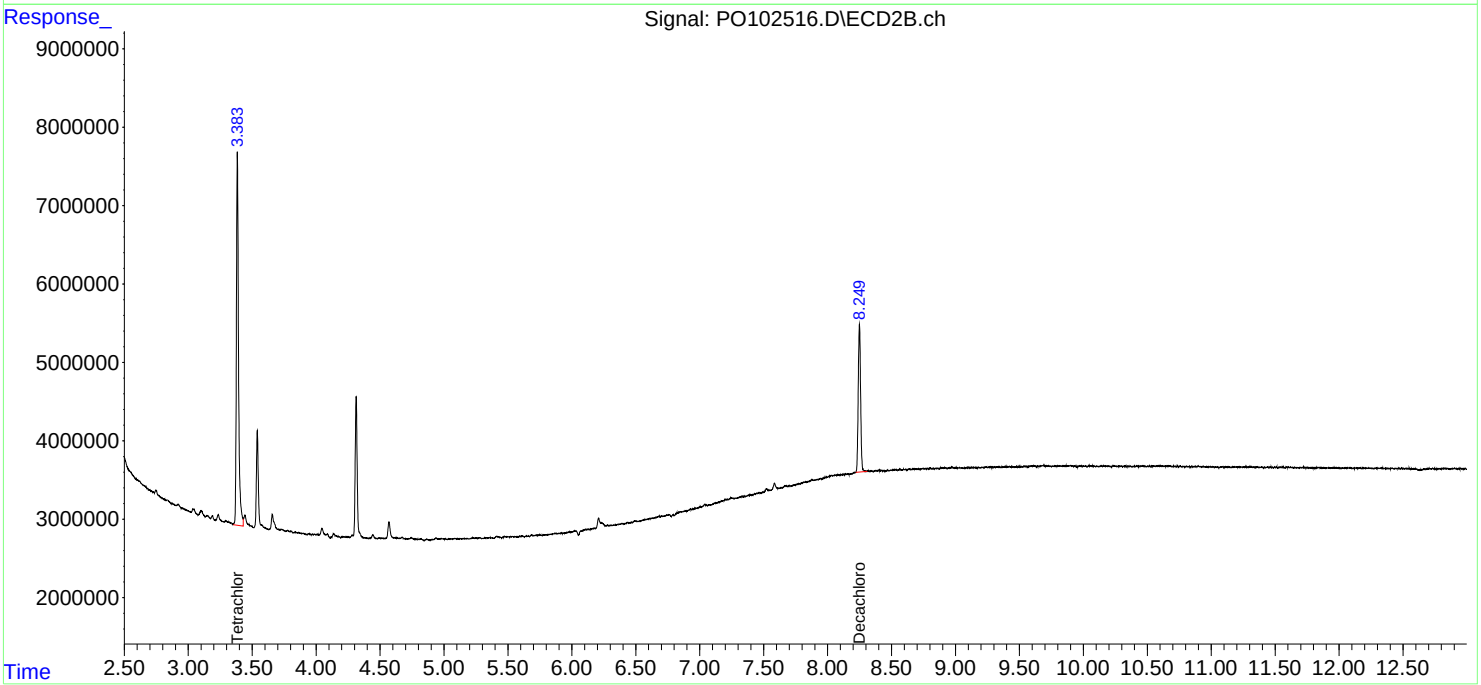
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102516.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:21
Operator : YP/AJ
Sample : P1747-02
Misc :
ALS Vial : 30 Sample Multiplier: 1

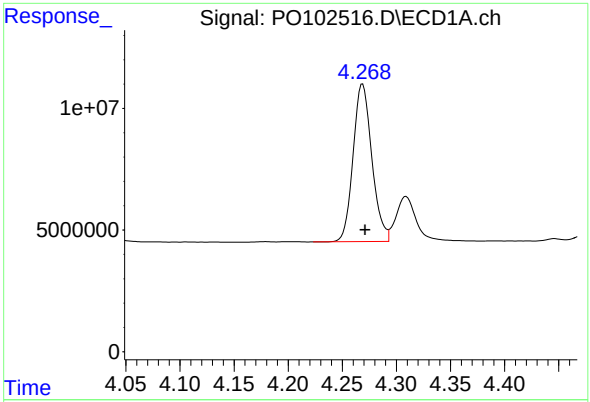
**Instrument :**
ECD_O
**ClientSampleId :**
MW-01-DUP

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:26:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



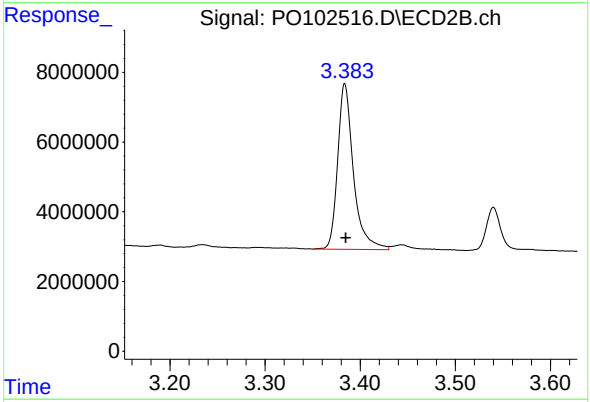






#1 Tetrachloro-m-xylene

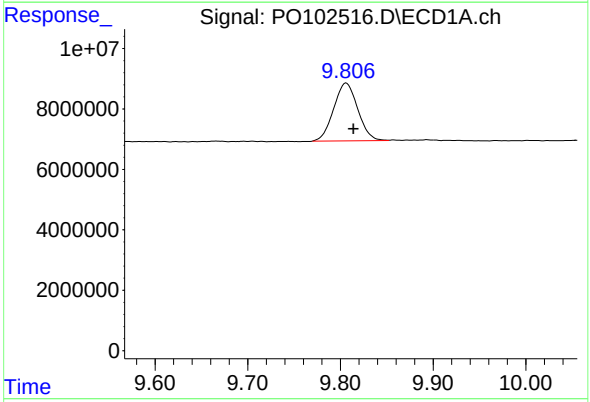
R.T.: 4.269 min
Delta R.T.: -0.002 min
Response: 77997837
Conc: 19.03 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
MW-01-DUP



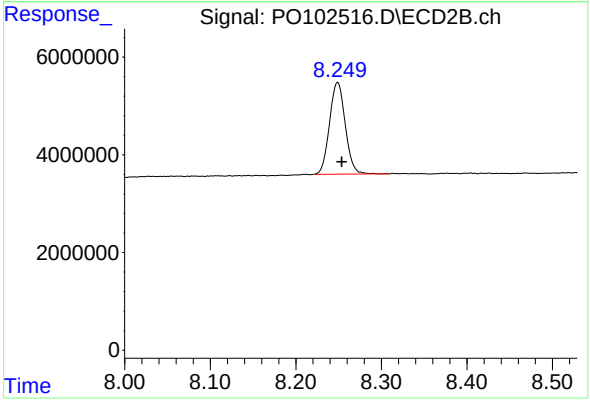

#1 Tetrachloro-m-xylene

R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 54910300
Conc: 19.60 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 34479902
Conc: 18.16 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.249 min
Delta R.T.: -0.005 min
Response: 24059784
Conc: 19.52 ng/ml

Raw Data: **PO102530.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/13/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/13/24 |
| Client Sample ID: | MW-01 | SDG No.: | P1747 |
| Lab Sample ID: | P1747-03 | Matrix: | WATER |
| Analytical Method: | 608.3 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102530.D | 1 | 03/14/24 10:05 | 03/15/24 01:03 | PB159600 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.015 | U | 0.015 | 0.051 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.024 | U | 0.024 | 0.051 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.038 | U | 0.038 | 0.051 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.016 | U | 0.016 | 0.051 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.012 | U | 0.012 | 0.051 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.011 | U | 0.011 | 0.051 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.015 | U | 0.015 | 0.051 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 10.8 | * | 60 - 140 | 54% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.1 | | 60 - 140 | 111% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PO102530.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102530.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 01:03
Operator : YP/AJ
Sample : P1747-03
Misc :
ALS Vial : 42 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
MW-01

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.267 | 3.382 | 44065372 | 36010518 | 10.751m | 12.852m |
| 2) | SA Decachlor... | 9.806 | 8.248 | 42055542 | 29935689 | 22.148 | 24.282m |
| | Target Compounds | | | | | | |

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

Sample Results: **PO102530.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102530.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 01:03
Operator : YP/AJ
Sample : P1747-03
Misc :
ALS Vial : 42 Sample Multiplier: 1

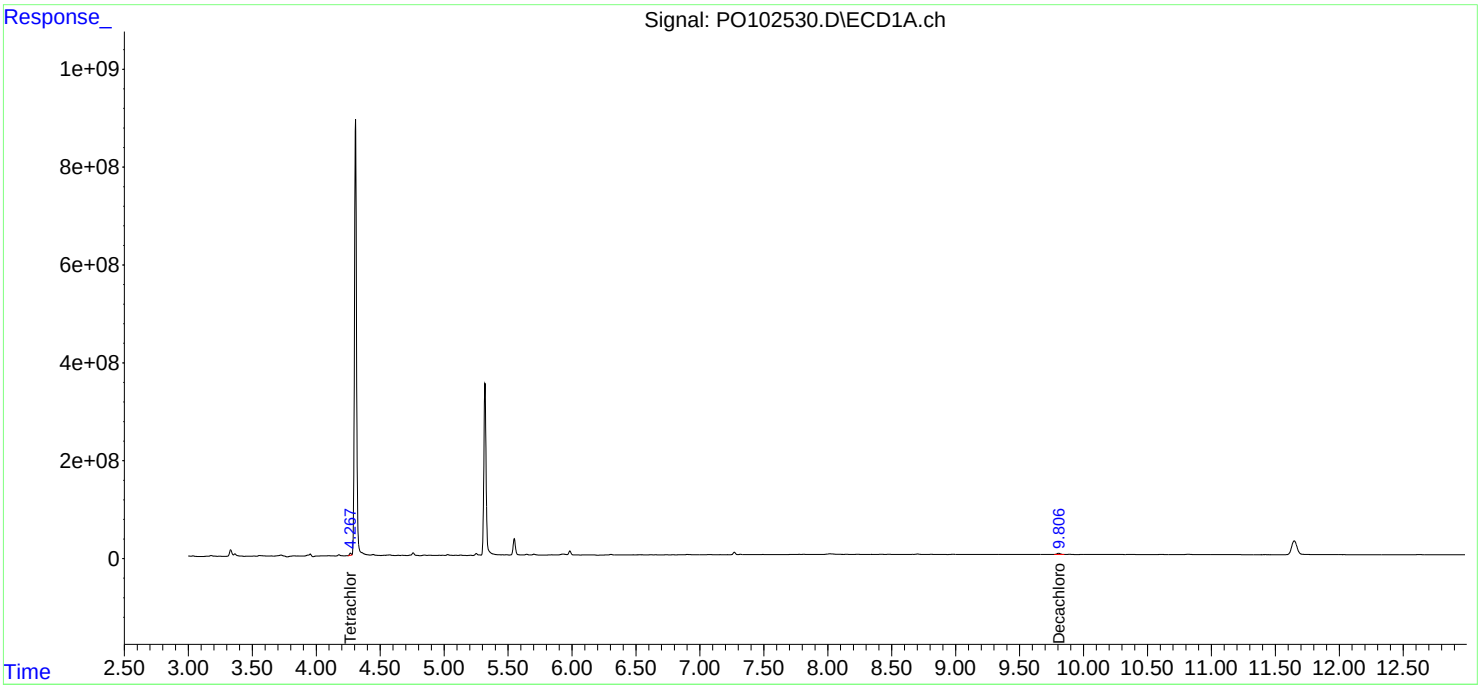
**Instrument :**
ECD_O
**ClientSampleId :**
MW-01

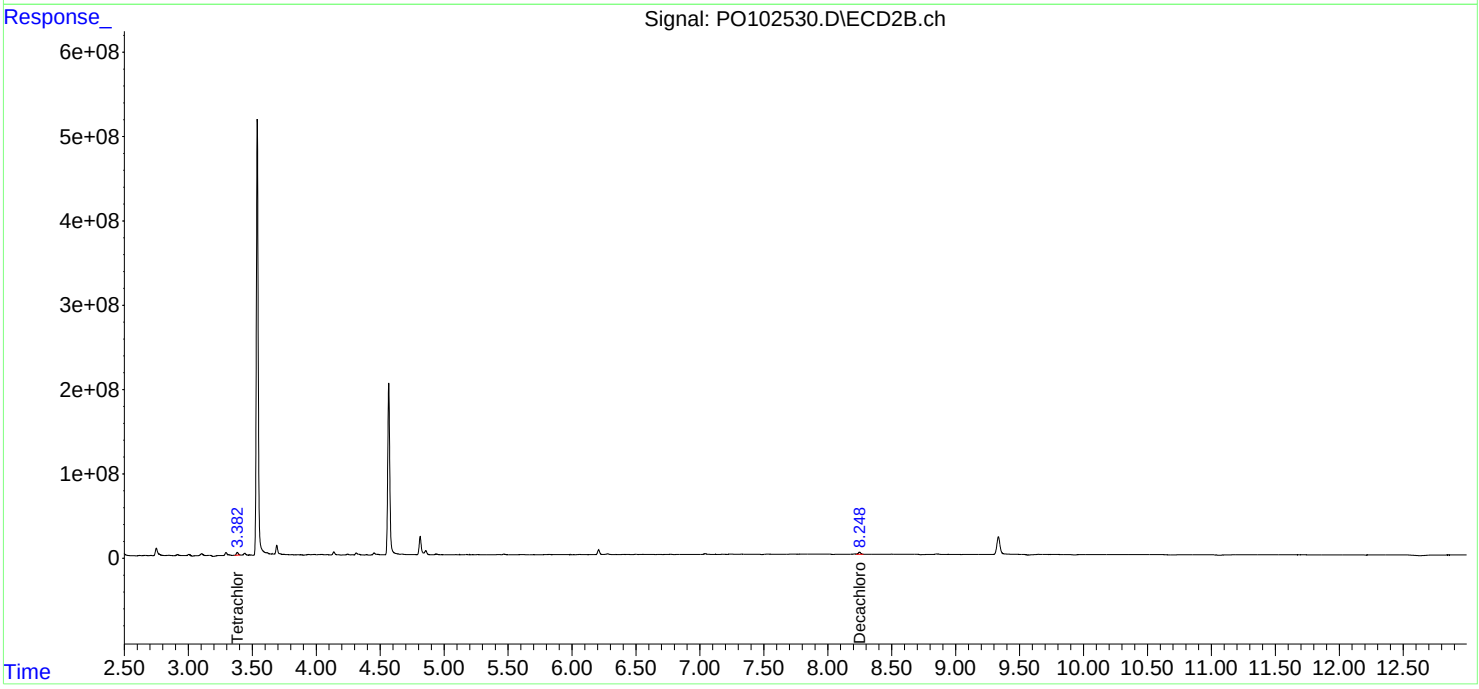
**Manual Integrations APPROVED**

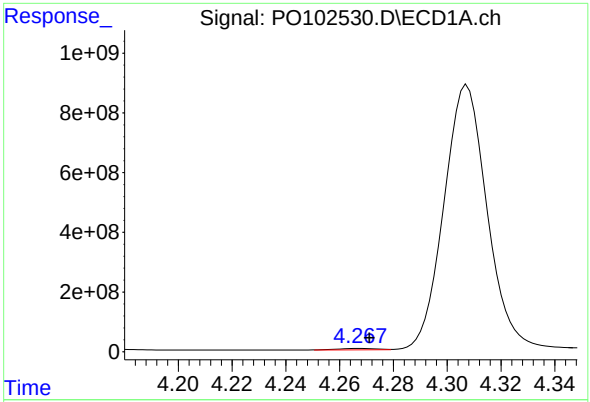
Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:53 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm





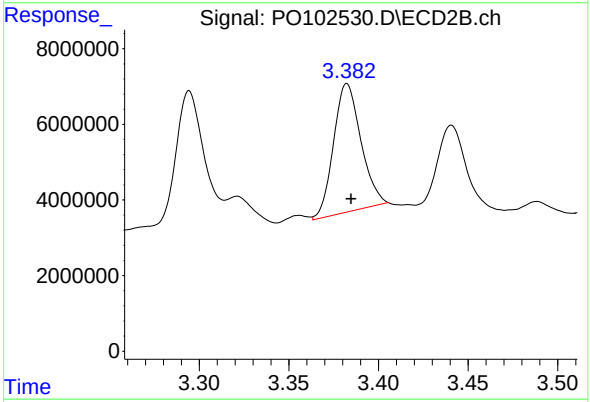

#1 Tetrachloro-m-xylene

R.T.: 4.267 min
Delta R.T.: -0.004 min
Response: 44065372
Conc: 10.75 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
MW-01

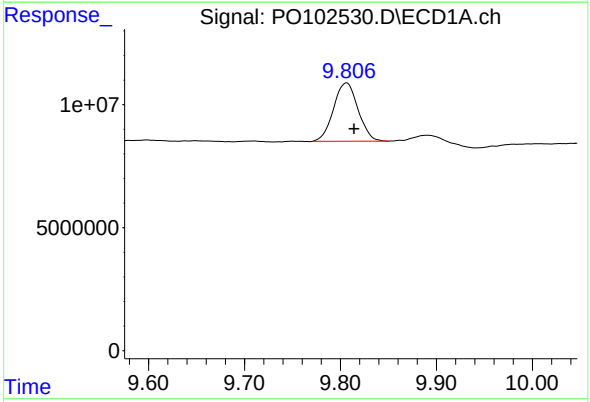
**Manual Integrations**
**APPROVED**

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024



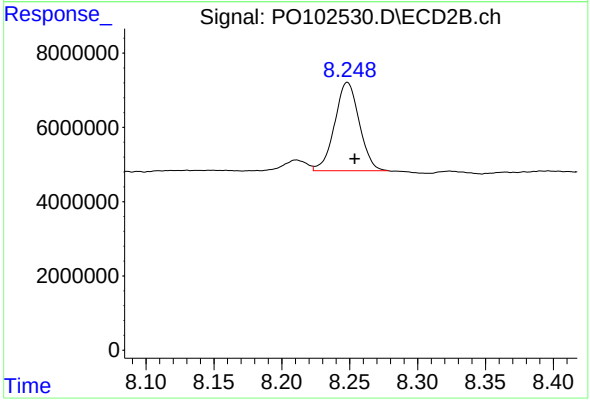

#1 Tetrachloro-m-xylene

R.T.: 3.382 min
Delta R.T.: -0.003 min
Response: 36010518
Conc: 12.85 ng/ml m




#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 42055542
Conc: 22.15 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 29935689
Conc: 24.28 ng/ml m

Raw Data: **PO102517.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/12/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/13/24 |
| Client Sample ID: | MW-02 | SDG No.: | P1747 |
| Lab Sample ID: | P1747-04 | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 990 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102517.D | 1 | 03/14/24 10:51 | 03/14/24 20:38 | PB159587 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.51 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.51 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.51 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.51 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.51 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.51 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.51 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.51 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.51 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.7 | | 21 - 155 | 98% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 20.5 | | 10 - 173 | 103% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102517.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On : 14 Mar 2024  20:38
Operator : YP/AJ
Sample : P1747-04
Misc :
ALS Vial : 31  Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
MW-02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:26:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1  Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ  Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 80666902 | 54558397 | 19.680 | 19.471 |
| 2) | SA Decachlor... | 9.806 | 8.248 | 36124902 | 25292114 | 19.024 | 20.515 |
| | Target Compounds | | | | | | |

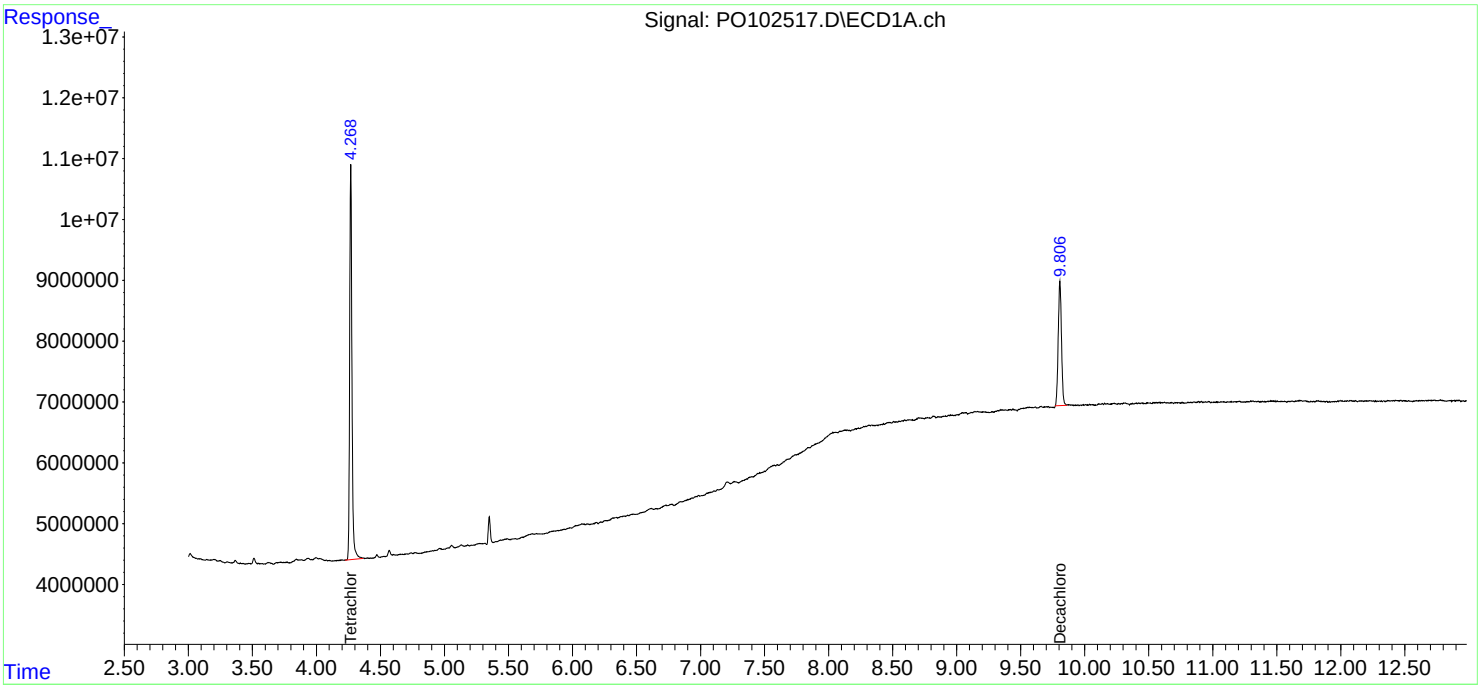
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25%  (m)=manual int.

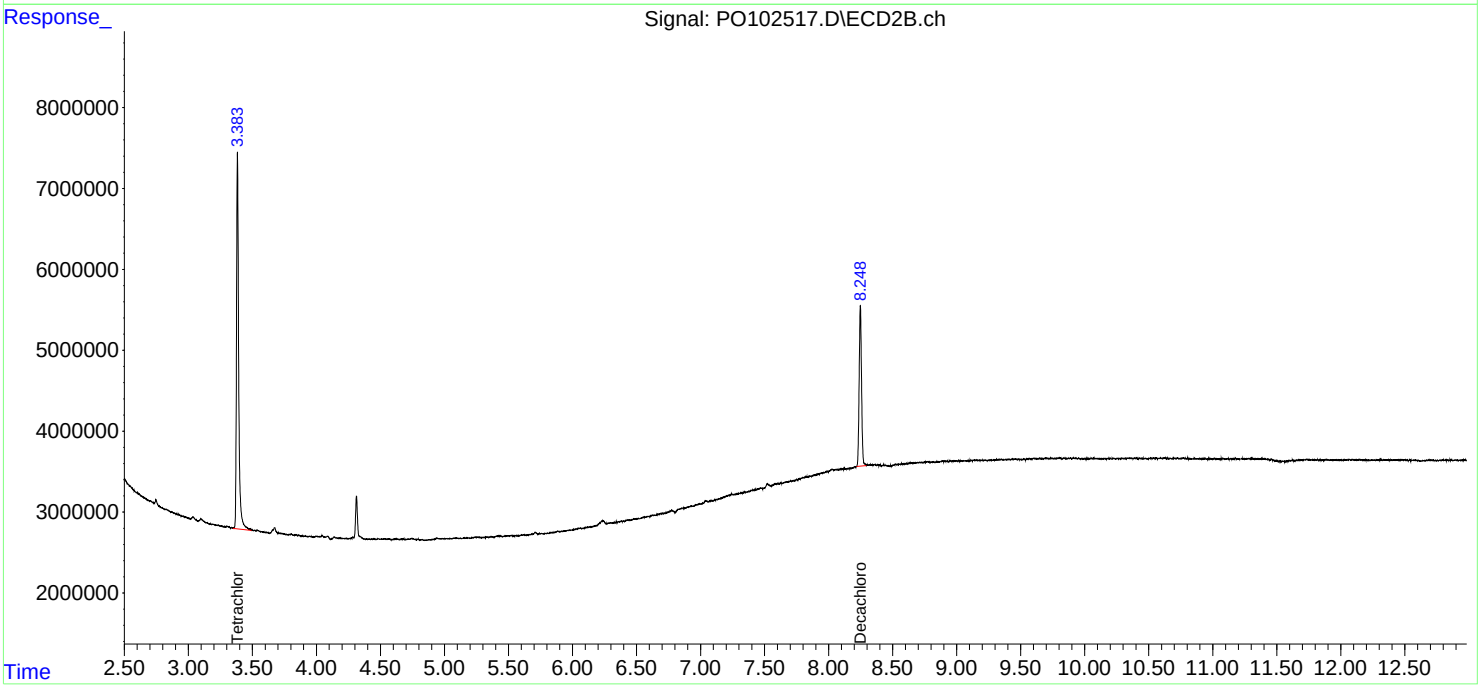
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102517.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:38
Operator : YP/AJ
Sample : P1747-04
Misc :
ALS Vial : 31 Sample Multiplier: 1

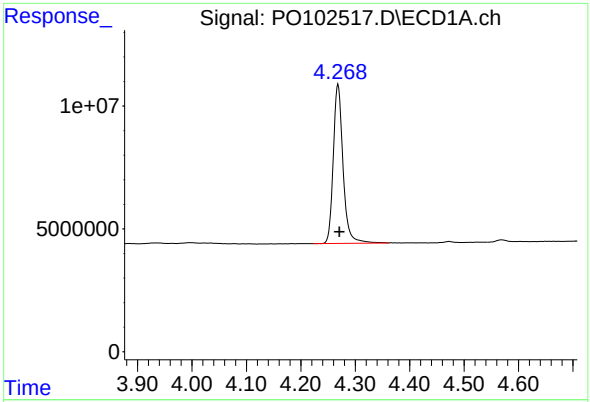
**Instrument :**
ECD_O
**ClientSampleId :**
MW-02

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:26:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



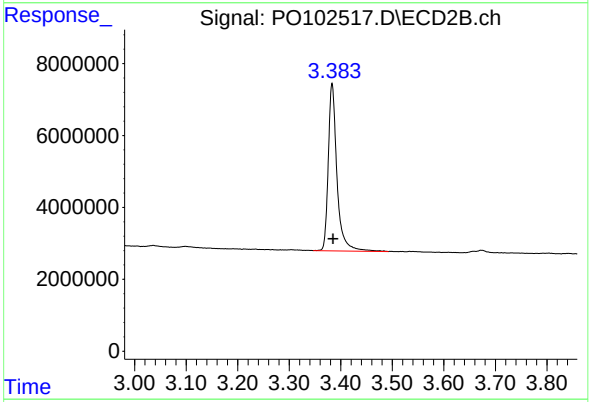






#1 Tetrachloro-m-xylene

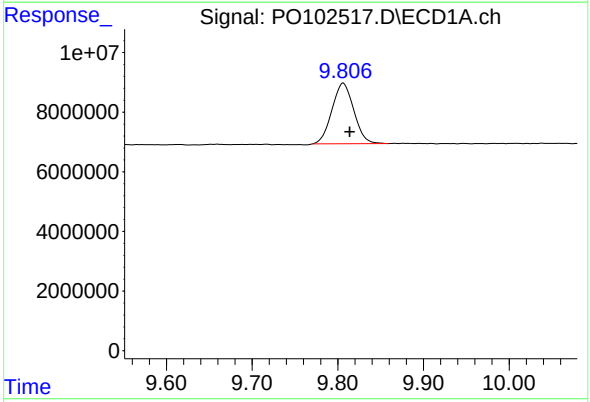
R.T.: 4.268 min
Delta R.T.: -0.003 min
Response: 80666902
Conc: 19.68 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
MW-02



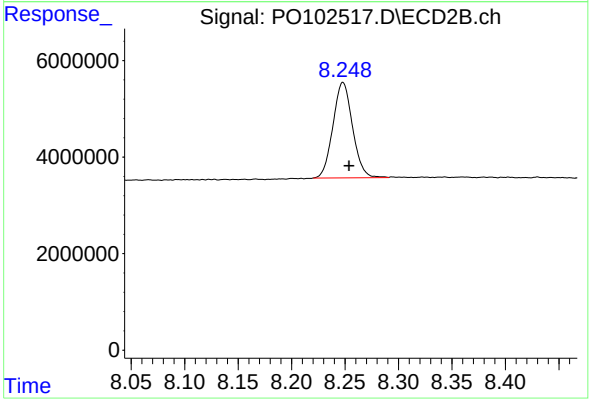

#1 Tetrachloro-m-xylene

R.T.: 3.383 min
Delta R.T.: -0.002 min
Response: 54558397
Conc: 19.47 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 36124902
Conc: 19.02 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 25292114
Conc: 20.52 ng/ml

Raw Data: **PO102518.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/12/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/13/24 |
| Client Sample ID: | TWP-04 | SDG No.: | P1747 |
| Lab Sample ID: | P1747-05 | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 980 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102518.D | 1 | 03/14/24 10:51 | 03/14/24 20:55 | PB159587 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.51 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.51 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.38 | U | 0.38 | 0.51 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.51 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.51 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.51 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.51 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.51 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.51 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.7 | | 21 - 155 | 104% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 22.7 | | 10 - 173 | 113% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Quantitation Report (QT Reviewed)

Sample Results: **PO102518.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102518.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:55
Operator : YP/AJ
Sample : P1747-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
MW-04

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 83536753 | 58069799 | 20.380 | 20.724 |
| 2) | SA Decachlor... | 9.806 | 8.248 | 39791218 | 27937428 | 20.955 | 22.661 |
| | Target Compounds | | | | | | |

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

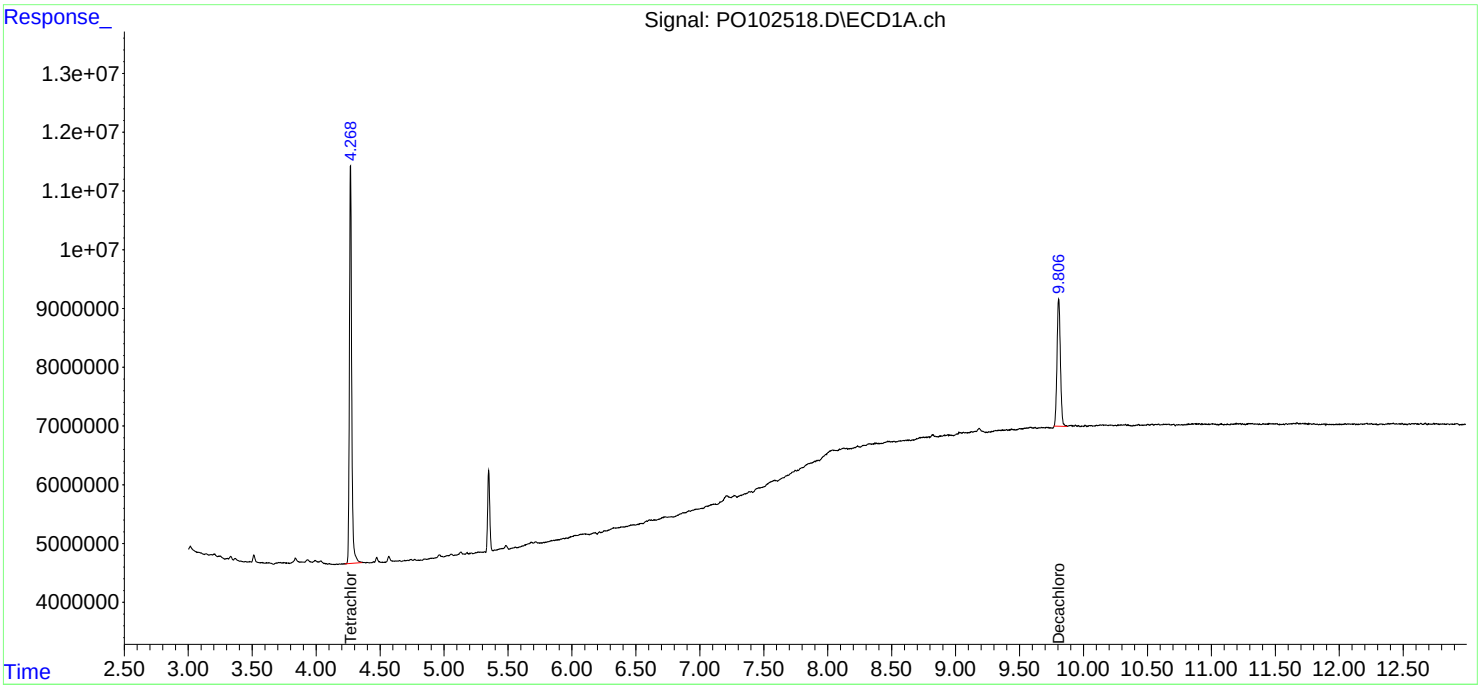
Sample Results: **PO102518.D**

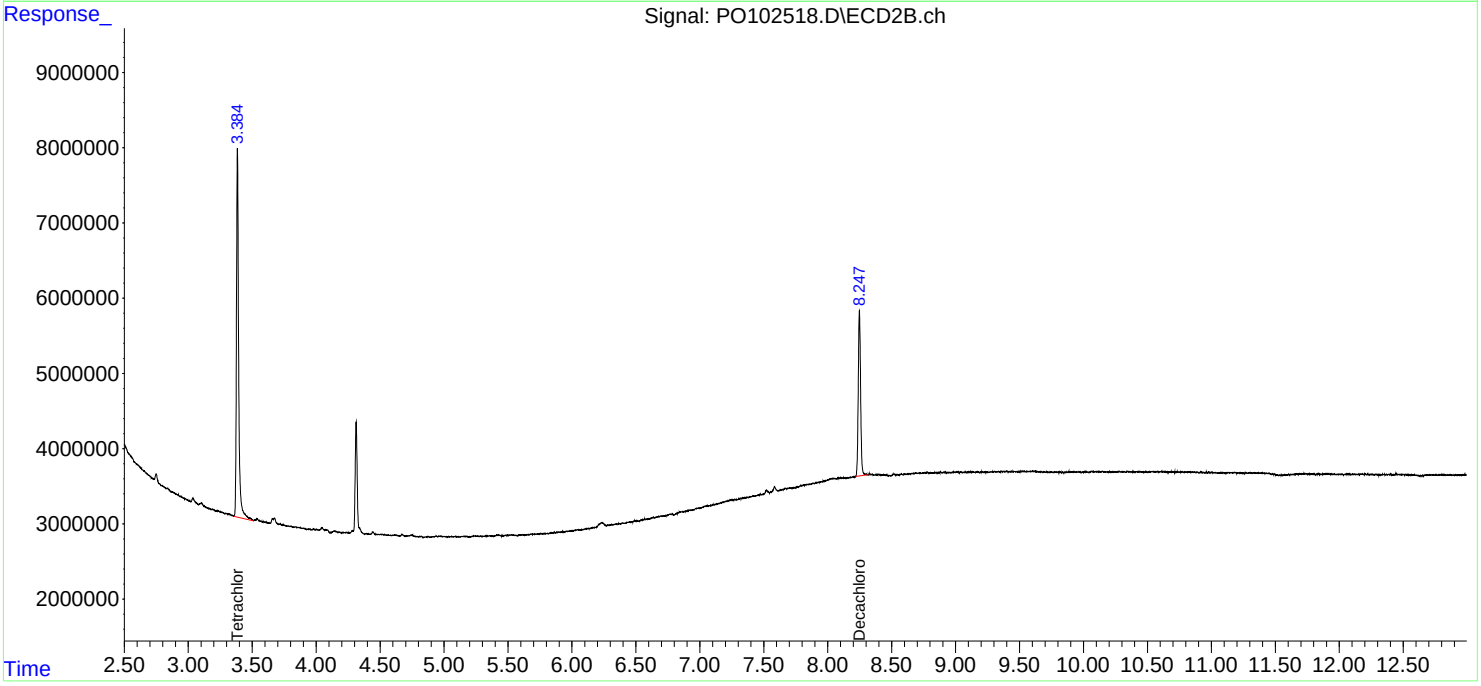
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102518.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 20:55
Operator : YP/AJ
Sample : P1747-05
Misc :
ALS Vial : 32 Sample Multiplier: 1

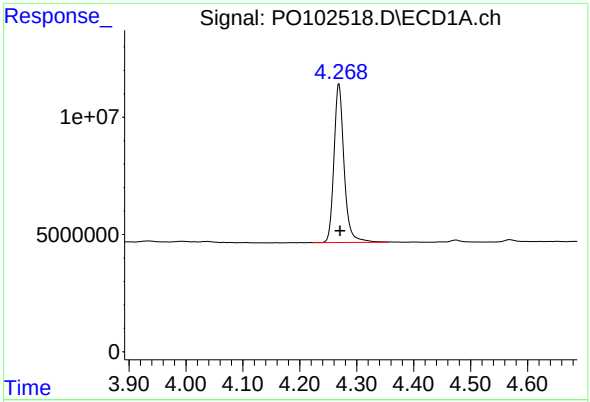
**Instrument :**
ECD_O
**ClientSampleId :**
MW-04

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



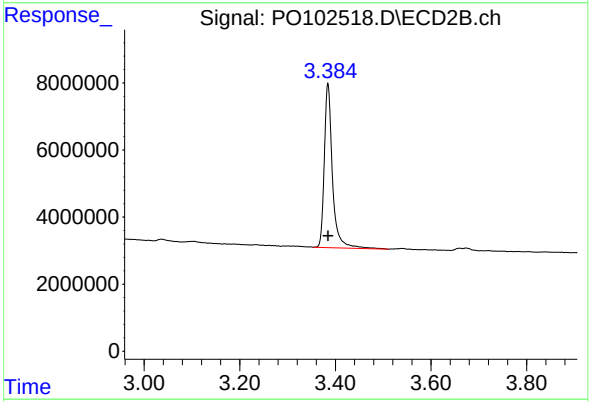






#1 Tetrachloro-m-xylene

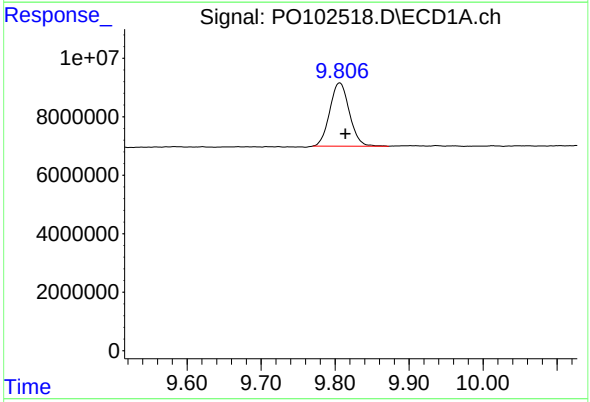
R.T.: 4.269 min
Delta R.T.: -0.002 min
Response: 83536753
Conc: 20.38 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
MW-04



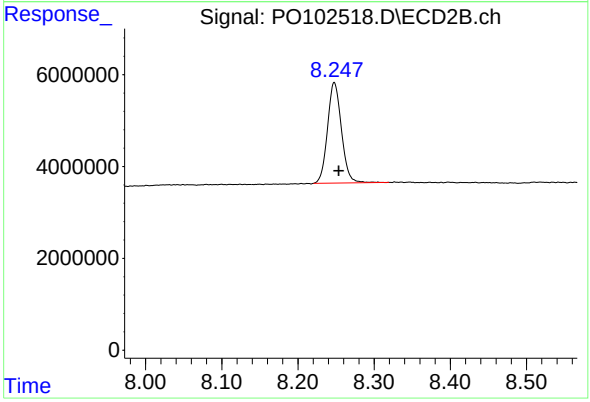

#1 Tetrachloro-m-xylene

R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 58069799
Conc: 20.72 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 39791218
Conc: 20.96 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 27937428
Conc: 22.66 ng/ml

CHEMTECH

# CALIBRATION SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Instrument ID:** ECD_O **Calibration Date(s):** 03/12/2024 03/12/2024

**Calibration Times:** 15:06 22:50

---

GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PO102409.D RT 750 = PO102410.D

RT 500 = PO102411.D RT 250 = PO102412.D RT 050 = PO102413.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.42 | 5.42 | 5.42 | 5.42 | 5.42 | 5.42 | 5.32 | 5.52 |
| Aroclor-1016-2 | (2) | 5.44 | 5.44 | 5.44 | 5.44 | 5.44 | 5.44 | 5.34 | 5.54 |
| Aroclor-1016-3 | (3) | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.40 | 5.60 |
| Aroclor-1016-4 | (4) | 5.60 | 5.60 | 5.60 | 5.60 | 5.60 | 5.60 | 5.50 | 5.70 |
| Aroclor-1016-5 | (5) | 5.89 | 5.89 | 5.89 | 5.89 | 5.89 | 5.89 | 5.79 | 5.99 |
| Aroclor-1260-1 | (1) | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 6.90 | 7.10 |
| Aroclor-1260-2 | (2) | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.15 | 7.35 |
| Aroclor-1260-3 | (3) | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.51 | 7.71 |
| Aroclor-1260-4 | (4) | 7.83 | 7.83 | 7.83 | 7.83 | 7.83 | 7.83 | 7.73 | 7.93 |
| Aroclor-1260-5 | (5) | 8.14 | 8.14 | 8.14 | 8.14 | 8.14 | 8.14 | 8.04 | 8.24 |
| Decachlorobiphenyl | | 9.82 | 9.81 | 9.81 | 9.82 | 9.82 | 9.82 | 9.72 | 9.92 |
| Tetrachloro-m-xylene | | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.17 | 4.37 |
| Aroclor-1242-1 | (1) | 5.42 | 5.42 | 5.42 | 5.42 | 5.42 | 5.42 | 5.32 | 5.52 |
| Aroclor-1242-2 | (2) | 5.44 | 5.44 | 5.44 | 5.44 | 5.44 | 5.44 | 5.34 | 5.54 |
| Aroclor-1242-3 | (3) | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.40 | 5.60 |
| Aroclor-1242-4 | (4) | 5.60 | 5.60 | 5.60 | 5.60 | 5.60 | 5.60 | 5.50 | 5.70 |
| Aroclor-1242-5 | (5) | 6.32 | 6.32 | 6.32 | 6.32 | 6.32 | 6.32 | 6.22 | 6.42 |
| Decachlorobiphenyl | | 9.82 | 9.82 | 9.82 | 9.81 | 9.81 | 9.82 | 9.72 | 9.92 |
| Tetrachloro-m-xylene | | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.17 | 4.37 |
| Aroclor-1248-1 | (1) | 5.42 | 5.44 | 5.42 | 5.41 | 5.42 | 5.42 | 5.32 | 5.52 |
| Aroclor-1248-2 | (2) | 5.69 | 5.71 | 5.68 | 5.68 | 5.68 | 5.69 | 5.59 | 5.79 |
| Aroclor-1248-3 | (3) | 5.89 | 5.91 | 5.89 | 5.89 | 5.89 | 5.89 | 5.79 | 5.99 |
| Aroclor-1248-4 | (4) | 6.28 | 6.31 | 6.28 | 6.28 | 6.28 | 6.29 | 6.19 | 6.39 |
| Aroclor-1248-5 | (5) | 6.32 | 6.34 | 6.32 | 6.32 | 6.32 | 6.33 | 6.23 | 6.43 |
| Decachlorobiphenyl | | 9.81 | 9.84 | 9.81 | 9.82 | 9.82 | 9.82 | 9.72 | 9.92 |
| Tetrachloro-m-xylene | | 4.27 | 4.29 | 4.27 | 4.27 | 4.27 | 4.27 | 4.17 | 4.37 |
| Aroclor-1254-1 | (1) | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.26 | 6.16 | 6.36 |
| Aroclor-1254-2 | (2) | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.37 | 6.57 |
| Aroclor-1254-3 | (3) | 6.84 | 6.83 | 6.83 | 6.83 | 6.83 | 6.83 | 6.73 | 6.93 |
| Aroclor-1254-4 | (4) | 7.12 | 7.12 | 7.12 | 7.12 | 7.12 | 7.12 | 7.02 | 7.22 |
| Aroclor-1254-5 | (5) | 7.53 | 7.53 | 7.53 | 7.53 | 7.53 | 7.53 | 7.43 | 7.63 |
| Decachlorobiphenyl | | 9.81 | 9.81 | 9.81 | 9.81 | 9.81 | 9.81 | 9.71 | 9.91 |
| Tetrachloro-m-xylene | | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.17 | 4.37 |
| Aroclor-1268-1 | (1) | 8.42 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.33 | 8.53 |
| Aroclor-1268-2 | (2) | 8.51 | 8.51 | 8.51 | 8.51 | 8.51 | 8.51 | 8.41 | 8.61 |
| Aroclor-1268-3 | (3) | 8.72 | 8.73 | 8.72 | 8.72 | 8.72 | 8.72 | 8.62 | 8.82 |
| Aroclor-1268-4 | (4) | 9.12 | 9.12 | 9.12 | 9.12 | 9.12 | 9.12 | 9.02 | 9.22 |
| Aroclor-1268-5 | (5) | 9.50 | 9.51 | 9.50 | 9.50 | 9.50 | 9.50 | 9.40 | 9.60 |

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 9.81 | 9.81 | 9.81 | 9.81 | 9.81 | 9.81 | 9.71 | 9.91 |
| Tetrachloro-m-xylene | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.17 | 4.37 |

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Instrument ID:** ECD_O **Calibration Date(s):** 03/12/2024 03/12/2024

**Calibration Times:** 15:06 22:50

---

GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PO102409.D RT 750 = PO102410.D

RT 500 = PO102411.D RT 250 = PO102412.D RT 050 = PO102413.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.44 | 4.44 | 4.44 | 4.44 | 4.44 | 4.44 | 4.34 | 4.54 |
| Aroclor-1016-2 | (2) | 4.45 | 4.45 | 4.45 | 4.46 | 4.45 | 4.45 | 4.35 | 4.55 |
| Aroclor-1016-3 | (3) | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.53 | 4.73 |
| Aroclor-1016-4 | (4) | 4.67 | 4.67 | 4.67 | 4.67 | 4.67 | 4.67 | 4.57 | 4.77 |
| Aroclor-1016-5 | (5) | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.78 | 4.98 |
| Aroclor-1260-1 | (1) | 5.89 | 5.89 | 5.89 | 5.89 | 5.89 | 5.89 | 5.79 | 5.99 |
| Aroclor-1260-2 | (2) | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 5.98 | 6.18 |
| Aroclor-1260-3 | (3) | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.23 | 6.13 | 6.33 |
| Aroclor-1260-4 | (4) | 6.69 | 6.69 | 6.69 | 6.69 | 6.69 | 6.69 | 6.59 | 6.79 |
| Aroclor-1260-5 | (5) | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.93 | 6.83 | 7.03 |
| Decachlorobiphenyl | | 8.26 | 8.25 | 8.25 | 8.26 | 8.25 | 8.25 | 8.15 | 8.35 |
| Tetrachloro-m-xylene | | 3.39 | 3.39 | 3.39 | 3.39 | 3.38 | 3.39 | 3.29 | 3.49 |
| Aroclor-1242-1 | (1) | 4.44 | 4.44 | 4.44 | 4.44 | 4.44 | 4.44 | 4.34 | 4.54 |
| Aroclor-1242-2 | (2) | 4.45 | 4.45 | 4.45 | 4.45 | 4.45 | 4.45 | 4.35 | 4.55 |
| Aroclor-1242-3 | (3) | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.53 | 4.73 |
| Aroclor-1242-4 | (4) | 4.71 | 4.71 | 4.71 | 4.71 | 4.71 | 4.71 | 4.61 | 4.81 |
| Aroclor-1242-5 | (5) | 5.22 | 5.22 | 5.22 | 5.22 | 5.22 | 5.22 | 5.12 | 5.32 |
| Decachlorobiphenyl | | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.15 | 8.35 |
| Tetrachloro-m-xylene | | 3.39 | 3.39 | 3.39 | 3.38 | 3.38 | 3.39 | 3.29 | 3.49 |
| Aroclor-1248-1 | (1) | 4.44 | 4.44 | 4.44 | 4.44 | 4.44 | 4.44 | 4.34 | 4.54 |
| Aroclor-1248-2 | (2) | 4.67 | 4.67 | 4.67 | 4.67 | 4.67 | 4.67 | 4.57 | 4.77 |
| Aroclor-1248-3 | (3) | 4.71 | 4.71 | 4.71 | 4.71 | 4.71 | 4.71 | 4.61 | 4.81 |
| Aroclor-1248-4 | (4) | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.78 | 4.98 |
| Aroclor-1248-5 | (5) | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.26 | 5.16 | 5.36 |
| Decachlorobiphenyl | | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.15 | 8.35 |
| Tetrachloro-m-xylene | | 3.39 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.28 | 3.48 |
| Aroclor-1254-1 | (1) | 5.22 | 5.22 | 5.22 | 5.22 | 5.22 | 5.22 | 5.12 | 5.32 |
| Aroclor-1254-2 | (2) | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.26 | 5.46 |
| Aroclor-1254-3 | (3) | 5.76 | 5.76 | 5.76 | 5.76 | 5.76 | 5.76 | 5.66 | 5.86 |
| Aroclor-1254-4 | (4) | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.89 | 6.09 |
| Aroclor-1254-5 | (5) | 6.40 | 6.40 | 6.40 | 6.40 | 6.40 | 6.40 | 6.30 | 6.50 |
| Decachlorobiphenyl | | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.15 | 8.35 |
| Tetrachloro-m-xylene | | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.28 | 3.48 |
| Aroclor-1268-1 | (1) | 7.21 | 7.21 | 7.21 | 7.21 | 7.21 | 7.21 | 7.11 | 7.31 |
| Aroclor-1268-2 | (2) | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.17 | 7.37 |
| Aroclor-1268-3 | (3) | 7.47 | 7.47 | 7.47 | 7.47 | 7.47 | 7.47 | 7.37 | 7.57 |
| Aroclor-1268-4 | (4) | 8.03 | 8.03 | 8.03 | 8.03 | 8.03 | 8.03 | 7.93 | 8.13 |
| Aroclor-1268-5 | (5) | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.15 | 8.35 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.25 | 8.15 | 8.35 |
| Tetrachloro-m-xylene | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.28 | 3.48 |

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# CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Instrument ID:** ECD_O **Calibration Date(s):** 03/12/2024 03/12/2024

**Calibration Times:** 15:06 22:50

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

**LAB FILE ID:** **CF 1000 =** PO102409.D **CF 750 =** PO102410.D

**CF 500 =** PO102411.D **CF 250 =** PO102412.D **CF 050 =** PO102413.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 93563038 | 97123216 | 102044386 | 106731912 | 100069820 | 99906474 | 5 |
| Aroclor-1016-2 | (2) | 136260299 | 142537469 | 148189950 | 154008608 | 144181520 | 145035569 | 5 |
| Aroclor-1016-3 | (3) | 87342056 | 90634015 | 94592544 | 97805336 | 96848960 | 93444582 | 5 |
| Aroclor-1016-4 | (4) | 72534043 | 75429643 | 78235916 | 79868668 | 72169460 | 75647546 | 5 |
| Aroclor-1016-5 | (5) | 77420158 | 80396157 | 83985936 | 86862016 | 80456000 | 81824053 | 4 |
| Aroclor-1260-1 | (1) | 131181049 | 134971357 | 137876932 | 141884944 | 138892960 | 136961448 | 3 |
| Aroclor-1260-2 | (2) | 128312597 | 130866932 | 134674406 | 137104064 | 127802560 | 131752112 | 3 |
| Aroclor-1260-3 | (3) | 100658023 | 103214861 | 104803156 | 104816128 | 96278940 | 101954222 | 4 |
| Aroclor-1260-4 | (4) | 111168562 | 113486237 | 117205258 | 118639448 | 117770780 | 115654057 | 3 |
| Aroclor-1260-5 | (5) | 183390983 | 186862735 | 192284016 | 198326972 | 211179100 | 194408761 | 6 |
| Decachlorobiphenyl | | 1877349970 | 1921522760 | 1951094520 | 1966069040 | 1778358600 | 1898878978 | 4 |
| Tetrachloro-m-xylene | | 4021587140 | 4125463107 | 4229369860 | 4285100880 | 3833013400 | 4098906877 | 4 |
| Aroclor-1242-1 | (1) | 70801651 | 71664075 | 77002890 | 80094500 | 74510460 | 74814715 | 5 |
| Aroclor-1242-2 | (2) | 102966506 | 105817047 | 111171592 | 115162764 | 113268360 | 109677254 | 5 |
| Aroclor-1242-3 | (3) | 65412696 | 66678299 | 70925724 | 73088120 | 74700600 | 70161088 | 6 |
| Aroclor-1242-4 | (4) | 54337431 | 55287147 | 58083268 | 58734876 | 54648480 | 56218240 | 4 |
| Aroclor-1242-5 | (5) | 47769800 | 49290476 | 52363832 | 55001484 | 54360560 | 51757230 | 6 |
| Decachlorobiphenyl | | 1709777200 | 1741154587 | 1810008500 | 1811905480 | 1675595200 | 1749688193 | 3 |
| Tetrachloro-m-xylene | | 3706836810 | 3758547107 | 3867479060 | 3904321360 | 3604647400 | 3768366347 | 3 |
| Aroclor-1248-1 | (1) | 54408854 | 57669447 | 58183908 | 60610976 | 60244780 | 58223593 | 4 |
| Aroclor-1248-2 | (2) | 93838842 | 99079524 | 101640578 | 106943360 | 98807500 | 100061961 | 5 |
| Aroclor-1248-3 | (3) | 98103923 | 103325616 | 105799778 | 109606744 | 103974020 | 104162016 | 4 |
| Aroclor-1248-4 | (4) | 85213217 | 87696157 | 92397632 | 95314244 | 85406500 | 89205550 | 5 |
| Aroclor-1248-5 | (5) | 81951324 | 81671221 | 89239116 | 92902348 | 88656360 | 86884074 | 6 |
| Decachlorobiphenyl | | 1714334220 | 1689352507 | 1814675140 | 1853188280 | 1686174400 | 1751544909 | 4 |
| Tetrachloro-m-xylene | | 3701303590 | 3773388747 | 3809039180 | 3880639200 | 3583275600 | 3749529263 | 3 |
| Aroclor-1254-1 | (1) | 111366329 | 116534868 | 120962130 | 125966888 | 115660280 | 118098099 | 5 |
| Aroclor-1254-2 | (2) | 155911990 | 163322787 | 169687240 | 177930112 | 165118260 | 166394078 | 5 |
| Aroclor-1254-3 | (3) | 147744395 | 152184023 | 157425838 | 161618568 | 147660520 | 153326669 | 4 |
| Aroclor-1254-4 | (4) | 83825982 | 86726899 | 89542306 | 90856444 | 78508860 | 85892098 | 6 |
| Aroclor-1254-5 | (5) | 99278733 | 102654509 | 105953614 | 109703000 | 103924920 | 104302955 | 4 |
| Decachlorobiphenyl | | 1763816600 | 1816519013 | 1882508340 | 1918219280 | 1722256200 | 1820663887 | 4 |
| Tetrachloro-m-xylene | | 3774972600 | 3952855427 | 3953620040 | 4013083360 | 3540117000 | 3846929685 | 5 |
| Aroclor-1268-1 | (1) | 259115122 | 264052016 | 274111560 | 276014212 | 245018120 | 263662206 | 5 |

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**CALIBRATION FACTOR OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 231353326 | 234573352 | 243757844 | 249052348 | 223617260 | 236470826 | 4 |
| Aroclor-1268-3 | (3) | 214875904 | 217611949 | 227142334 | 228797720 | 205585060 | 218802593 | 4 |
| Aroclor-1268-4 | (4) | 71387399 | 72204917 | 75007610 | 75906868 | 69120560 | 72725471 | 4 |
| Aroclor-1268-5 | (5) | 615952676 | 616993091 | 638606272 | 636227824 | 562324800 | 614020933 | 5 |
| Decachlorobiphenyl | | 3180375410 | 3193015973 | 3335631760 | 3387766240 | 3131484600 | 3245654797 | 3 |
| Tetrachloro-m-xylene | | 3909026740 | 3967270867 | 4102520360 | 4180288880 | 3682433200 | 3968308009 | 5 |

Raw Data

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## CALIBRATION FACTOR OF INITIAL CALIBRATION

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Instrument ID:** ECD_O **Calibration Date(s):** 03/12/2024 03/12/2024

**Calibration Times:** 15:06 22:50

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

**LAB FILE ID:** **CF 1000 =** PO102409.D **CF 750 =** PO102410.D

**CF 500 =** PO102411.D **CF 250 =** PO102412.D **CF 050 =** PO102413.D

| COMPOUND | | CF 1000 | CF 750 | CF 500 | CF 250 | CF 050 | CF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 58696238 | 60616144 | 63066162 | 67105372 | 63823620 | 62661507 | 5 |
| Aroclor-1016-2 | (2) | 82013235 | 85107073 | 88091940 | 91514892 | 87003400 | 86746108 | 4 |
| Aroclor-1016-3 | (3) | 47261886 | 48820220 | 50794324 | 53591692 | 50809740 | 50255572 | 5 |
| Aroclor-1016-4 | (4) | 43853014 | 45556295 | 47794522 | 50326636 | 47749420 | 47055977 | 5 |
| Aroclor-1016-5 | (5) | 54146459 | 56225881 | 58688580 | 61568952 | 56839140 | 57493802 | 5 |
| Aroclor-1260-1 | (1) | 100719055 | 103394260 | 106974340 | 111066288 | 102568440 | 104944477 | 4 |
| Aroclor-1260-2 | (2) | 104247188 | 107334469 | 111215210 | 113979372 | 109879760 | 109331200 | 3 |
| Aroclor-1260-3 | (3) | 104513848 | 107182821 | 110873240 | 116212788 | 125089620 | 112774463 | 7 |
| Aroclor-1260-4 | (4) | 81511401 | 83514541 | 85594380 | 88252444 | 87689000 | 85312353 | 3 |
| Aroclor-1260-5 | (5) | 158596862 | 160991860 | 163819070 | 166031896 | 160266400 | 161941218 | 2 |
| Decachlorobiphenyl | | 1214458370 | 1243514467 | 1269835120 | 1283645160 | 1152705600 | 1232831743 | 4 |
| Tetrachloro-m-xylene | | 2746988550 | 2808981253 | 2861603840 | 2903695640 | 2688755600 | 2802004977 | 3 |
| Aroclor-1242-1 | (1) | 44864486 | 45664360 | 49177422 | 52038320 | 49513560 | 48251630 | 6 |
| Aroclor-1242-2 | (2) | 61925174 | 64381949 | 67595228 | 70958464 | 64175740 | 65807311 | 5 |
| Aroclor-1242-3 | (3) | 35875974 | 36668015 | 38997074 | 40568756 | 40860540 | 38594072 | 6 |
| Aroclor-1242-4 | (4) | 41052096 | 42335213 | 45134234 | 47758400 | 45158300 | 44287649 | 6 |
| Aroclor-1242-5 | (5) | 39876034 | 40825744 | 43190576 | 44817260 | 40818740 | 41905671 | 5 |
| Decachlorobiphenyl | | 1128829920 | 1150284373 | 1190878200 | 1194389480 | 1056130000 | 1144102395 | 5 |
| Tetrachloro-m-xylene | | 2543686010 | 2589296587 | 2672429400 | 2704706880 | 2436369000 | 2589297575 | 4 |
| Aroclor-1248-1 | (1) | 34777028 | 36468401 | 38308276 | 40420952 | 38872180 | 37769367 | 6 |
| Aroclor-1248-2 | (2) | 57962842 | 60782383 | 64044808 | 68269168 | 66767760 | 63565392 | 7 |
| Aroclor-1248-3 | (3) | 60642519 | 63521609 | 66787854 | 70677480 | 69191080 | 66164108 | 6 |
| Aroclor-1248-4 | (4) | 67968601 | 70971901 | 74149414 | 78318016 | 75435000 | 73368586 | 5 |
| Aroclor-1248-5 | (5) | 50539958 | 52878513 | 54896690 | 56959620 | 54085960 | 53872148 | 4 |
| Decachlorobiphenyl | | 1129908350 | 1167109320 | 1199785360 | 1224048400 | 1077258400 | 1159621966 | 5 |
| Tetrachloro-m-xylene | | 2504999690 | 2572402240 | 2616585040 | 2663266920 | 2430383400 | 2557527458 | 4 |
| Aroclor-1254-1 | (1) | 98789035 | 103457292 | 108228942 | 113623224 | 107173360 | 106254371 | 5 |
| Aroclor-1254-2 | (2) | 84818474 | 88537215 | 93128442 | 97790628 | 91110900 | 91077132 | 5 |
| Aroclor-1254-3 | (3) | 125024985 | 128895424 | 134501700 | 138177520 | 123332320 | 129986390 | 5 |
| Aroclor-1254-4 | (4) | 61003456 | 63408880 | 65167436 | 66601968 | 58258960 | 62888140 | 5 |
| Aroclor-1254-5 | (5) | 99780359 | 102755484 | 105867616 | 109208524 | 99564400 | 103435277 | 4 |
| Decachlorobiphenyl | | 1180984460 | 1213437640 | 1246607560 | 1264573600 | 1154079000 | 1211936452 | 4 |
| Tetrachloro-m-xylene | | 2574404500 | 2657812000 | 2718605980 | 2770961480 | 2534587800 | 2651274352 | 4 |
| Aroclor-1268-1 | (1) | 209130910 | 211829637 | 219220314 | 222479400 | 207011600 | 213934372 | 3 |

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**CALIBRATION FACTOR OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aroclor-1268-2 | (2) | 189982362 | 190917147 | 198168918 | 199506520 | 182929680 | 192300925 | 4 |
| Aroclor-1268-3 | (3) | 178091693 | 178323552 | 185564432 | 186155616 | 168084800 | 179244019 | 4 |
| Aroclor-1268-4 | (4) | 433163930 | 430609372 | 443928932 | 442158236 | 391236960 | 428219486 | 5 |
| Aroclor-1268-5 | (5) | 214377020 | 216064579 | 225558916 | 227407844 | 199135520 | 216508776 | 5 |
| Decachlorobiphenyl | | 2143770200 | 2160645787 | 2255589160 | 2274078440 | 1991355200 | 2165087757 | 5 |
| Tetrachloro-m-xylene | | 2674258870 | 2708622827 | 2802054420 | 2863161720 | 2575330600 | 2724685687 | 4 |

Raw Data

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Instrument ID:** ECD_O **Date(s) Analyzed:** 03/12/2024 03/12/2024

**GC Column:** ZB-MR1 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 4.47 | 4.37 | 4.57 | 37730200 |
| | | 2 | 4.56 | 4.46 | 4.66 | 29415800 |
| | | 3 | 4.63 | 4.53 | 4.73 | 84397200 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 4.63 | 4.53 | 4.73 | 80996400 |
| | | 2 | 5.15 | 5.05 | 5.25 | 50396200 |
| | | 3 | 5.44 | 5.34 | 5.54 | 75184600 |
| | | 4 | 5.60 | 5.50 | 5.70 | 38046200 |
| | | 5 | 5.69 | 5.59 | 5.79 | 35648800 |
| Aroclor-1262 | 500 | 1 | 7.53 | 7.43 | 7.63 | 118996000 |
| | | 2 | 8.13 | 8.03 | 8.23 | 279624000 |
| | | 3 | 8.43 | 8.33 | 8.53 | 195627000 |
| | | 4 | 8.51 | 8.41 | 8.61 | 152696000 |
| | | 5 | 9.12 | 9.02 | 9.22 | 95184200 |

Raw Data

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## INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Instrument ID:** ECD_O **Date(s) Analyzed:** 03/12/2024 03/12/2024

**GC Column:** ZB-MR2 **ID:** 0.32 (mm)

| COMPOUND | AMOUNT (ng) | PEAK | RT | RT WINDOW FROM | RT WINDOW TO | CALIBRATION FACTOR |
|---|---|---|---|---|---|---|
| Aroclor-1221 | 500 | 1 | 3.59 | 3.49 | 3.69 | 25736400 |
| | | 2 | 3.67 | 3.57 | 3.77 | 19447900 |
| | | 3 | 3.75 | 3.65 | 3.85 | 54184000 |
| | | 4 | 0.00 | | | 0 |
| | | 5 | 0.00 | | | 0 |
| Aroclor-1232 | 500 | 1 | 3.75 | 3.65 | 3.85 | 52464600 |
| | | 2 | 4.46 | 4.36 | 4.56 | 45552400 |
| | | 3 | 4.63 | 4.53 | 4.73 | 25464600 |
| | | 4 | 4.71 | 4.61 | 4.81 | 26883200 |
| | | 5 | 4.88 | 4.78 | 4.98 | 27129200 |
| Aroclor-1262 | 500 | 1 | 6.40 | 6.30 | 6.50 | 75630600 |
| | | 2 | 6.69 | 6.59 | 6.79 | 144271000 |
| | | 3 | 7.21 | 7.11 | 7.31 | 102462000 |
| | | 4 | 7.27 | 7.17 | 7.37 | 174045000 |
| | | 5 | 7.76 | 7.66 | 7.86 | 70060200 |

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:06
Operator : YP/AJ
Sample : AR1660ICC1000
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:13:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.385 | 402.2E6 | 274.7E6 | 97.482 | 97.956 |
| 2) | SA Decachlor... | 9.816 | 8.255 | 187.7E6 | 121.4E6 | 98.074 | 97.771 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.415 | 4.437 | 93563038 | 58696238 | 956.641 | 964.111 |
| 4) | L1 AR-1016-2 | 5.437 | 4.454 | 136.3E6 | 82013235 | 958.061 | 964.265 |
| 5) | L1 AR-1016-3 | 5.498 | 4.627 | 87342056 | 47261886 | 960.148 | 963.975 |
| 6) | L1 AR-1016-4 | 5.596 | 4.667 | 72534043 | 43853014 | 962.182 | 956.993 |
| 7) | L1 AR-1016-5 | 5.886 | 4.876 | 77420158 | 54146459 | 959.321 | 959.745 |
| 31) | L7 AR-1260-1 | 6.997 | 5.889 | 131.2E6 | 100.7E6 | 975.114 | 969.882 |
| 32) | L7 AR-1260-2 | 7.251 | 6.075 | 128.3E6 | 104.2E6 | 975.809 | 967.660 |
| 33) | L7 AR-1260-3 | 7.606 | 6.226 | 100.7E6 | 104.5E6 | 979.825 | 970.475 |
| 34) | L7 AR-1260-4 | 7.830 | 6.689 | 111.2E6 | 81511401 | 973.567 | 975.566 |
| 35) | L7 AR-1260-5 | 8.135 | 6.931 | 183.4E6 | 158.6E6 | 976.328 | 983.803 |

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

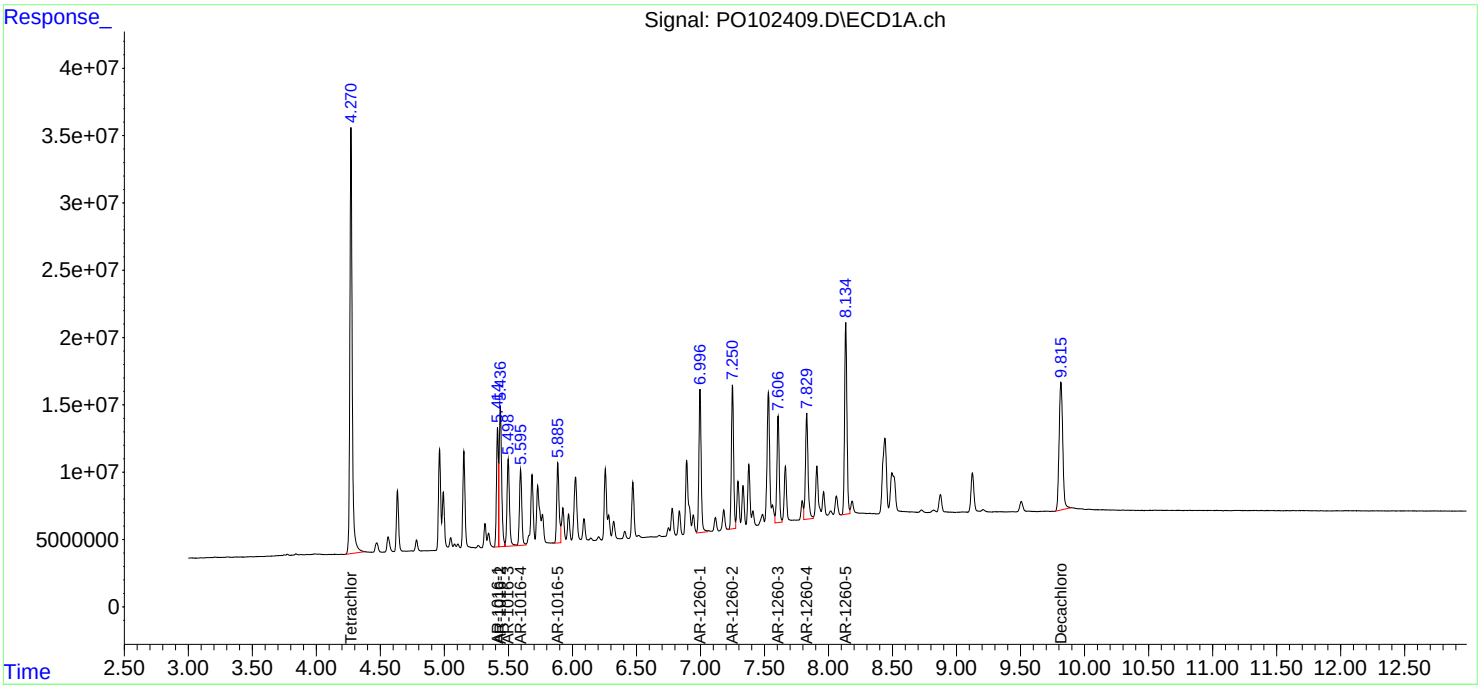
ICAL Form

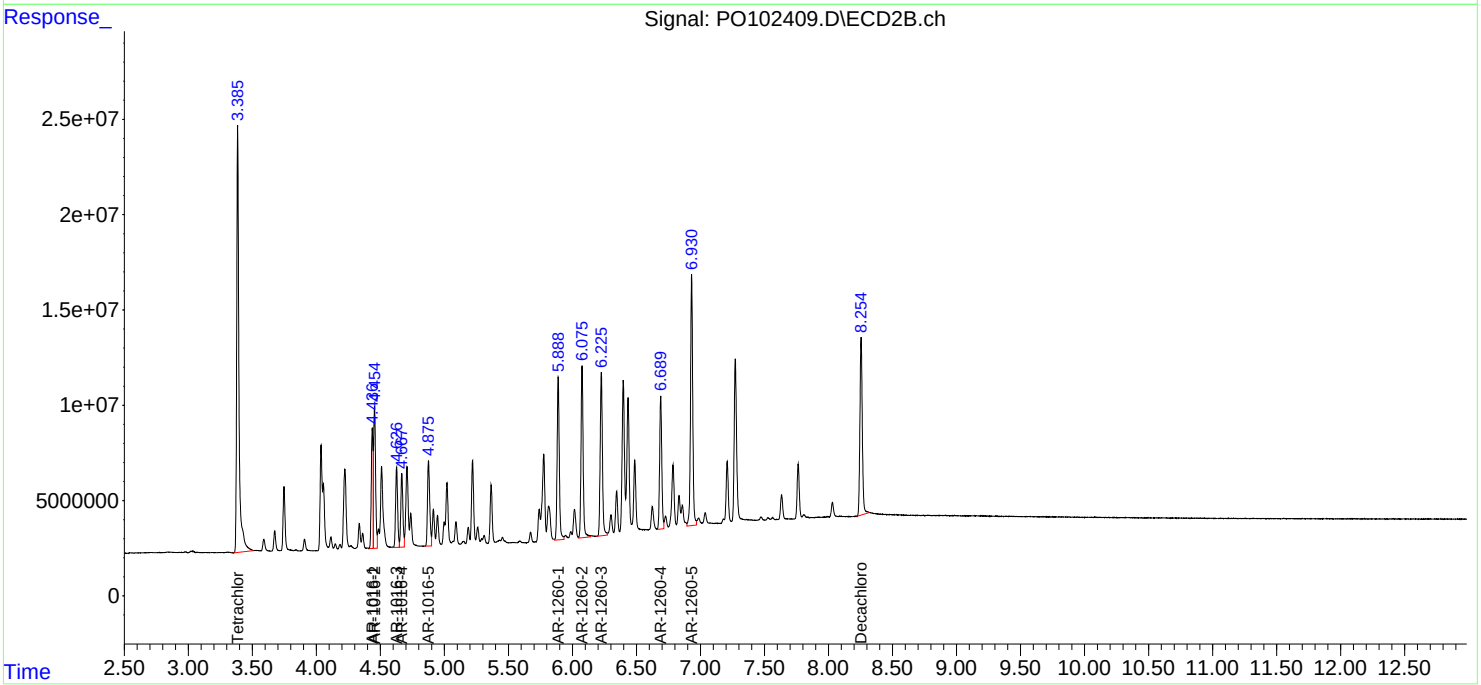
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:06
Operator : YP/AJ
Sample : AR1660ICC1000
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:13:12 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102410.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:23
Operator : YP/AJ
Sample : AR1660ICC750
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:15:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.385 | 309.4E6 | 210.7E6 | 75.000 | 75.083 |
| 2) | SA Decachlor... | 9.814 | 8.254 | 144.1E6 | 93263585 | 75.190 | 75.055 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.415 | 4.437 | 72842412 | 45462108 | 746.513 | 747.820 |
| 4) | L1 AR-1016-2 | 5.437 | 4.454 | 106.9E6 | 63830305 | 751.097 | 750.320 |
| 5) | L1 AR-1016-3 | 5.498 | 4.626 | 67975511 | 36615165 | 748.166 | 747.877 |
| 6) | L1 AR-1016-4 | 5.595 | 4.667 | 56572232 | 34167221 | 750.296 | 747.076 |
| 7) | L1 AR-1016-5 | 5.886 | 4.875 | 60297118 | 42169411 | 748.096 | 748.300 |
| 31) | L7 AR-1260-1 | 6.997 | 5.888 | 101.2E6 | 77545695 | 751.642 | 747.818 |
| 32) | L7 AR-1260-2 | 7.250 | 6.075 | 98150199 | 80500852 | 747.614 | 748.156 |
| 33) | L7 AR-1260-3 | 7.606 | 6.225 | 77411146 | 80387116 | 752.353 | 747.625 |
| 34) | L7 AR-1260-4 | 7.831 | 6.690 | 85114678 | 62635906 | 746.926 | 749.770 |
| 35) | L7 AR-1260-5 | 8.135 | 6.931 | 140.1E6 | 120.7E6 | 747.401 | 749.329 |

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

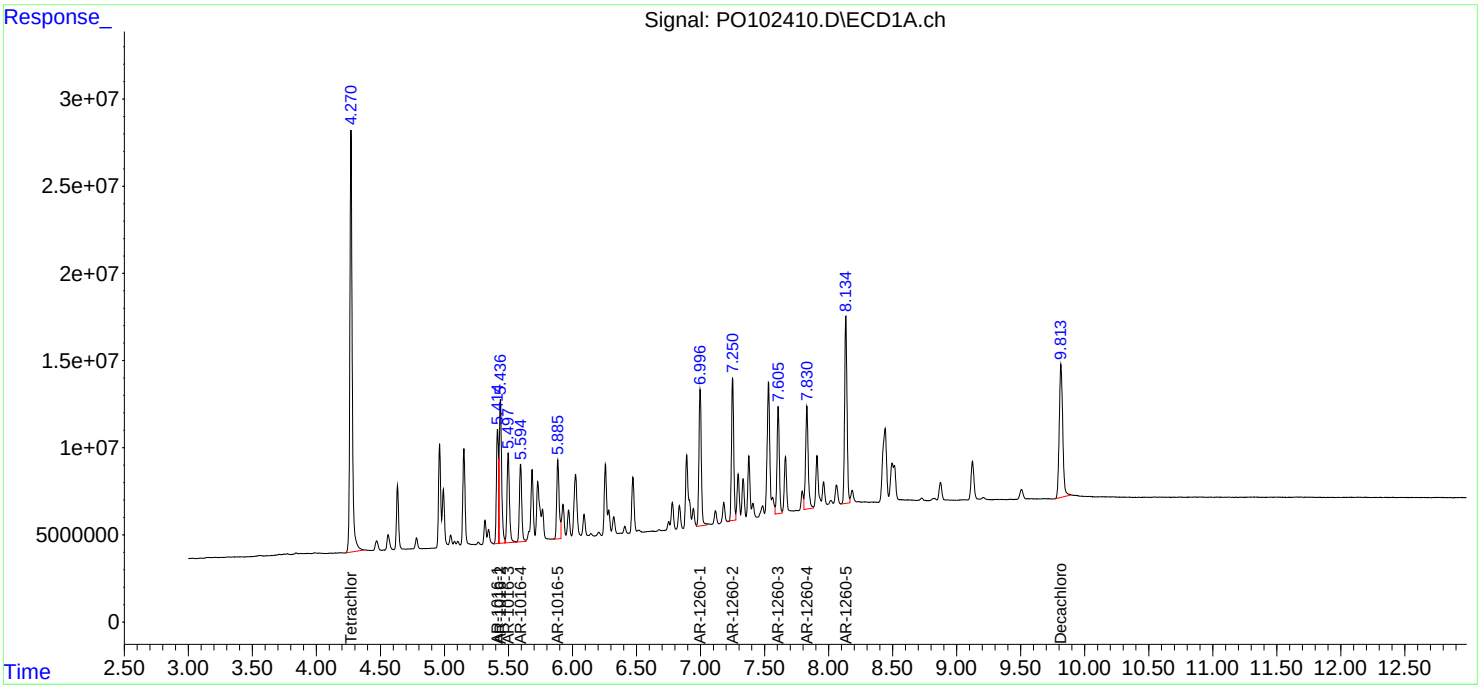
ICAL Form

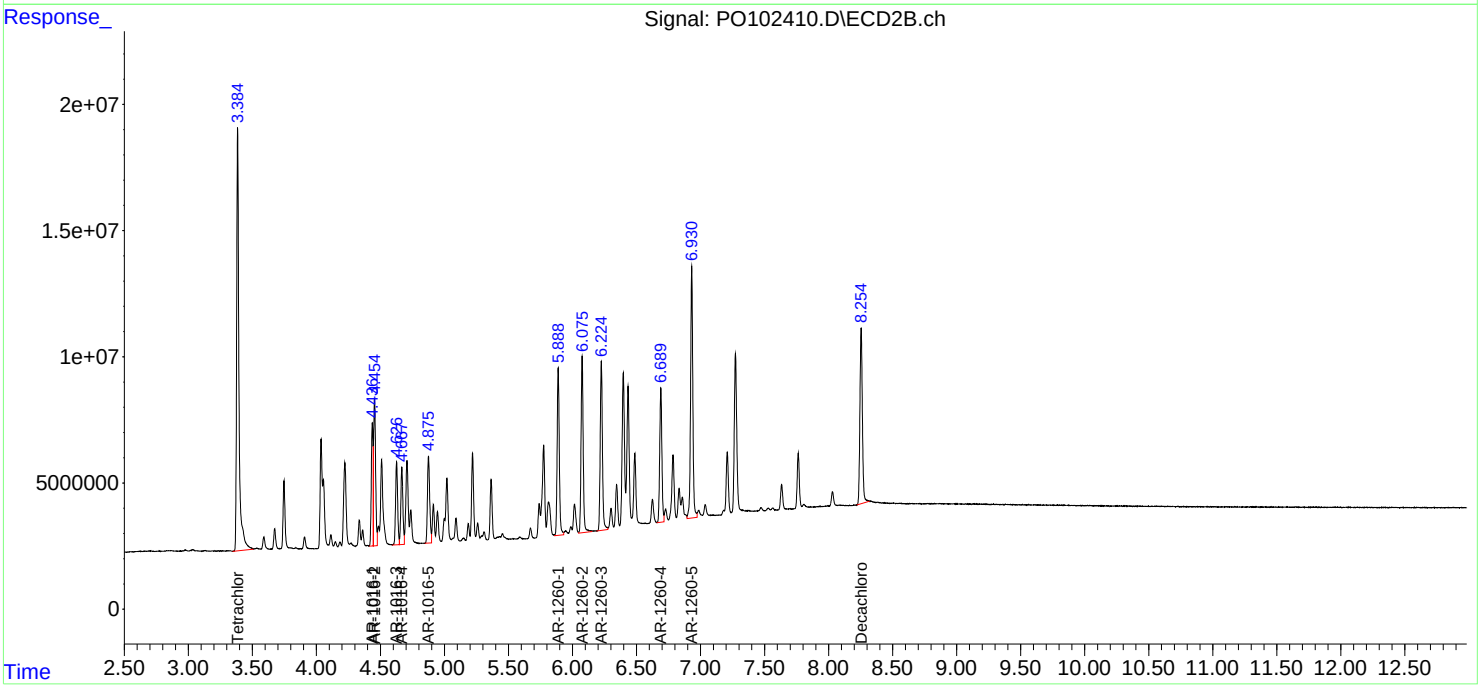
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102410.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:23
Operator : YP/AJ
Sample : AR1660ICC750
Misc :
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:15:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102411.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:41
Operator : YP/AJ
Sample : AR1660ICC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:10:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.271 | 3.385 | 211.5E6 | 143.1E6 | 50.000 | 50.000 |
| 2) | SA Decachlor... | 9.814 | 8.254 | 97554726 | 63491756 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.415 | 4.437 | 51022193 | 31533081 | 500.000 | 500.000 |
| 4) | L1 AR-1016-2 | 5.438 | 4.454 | 74094975 | 44045970 | 500.000 | 500.000 |
| 5) | L1 AR-1016-3 | 5.499 | 4.626 | 47296272 | 25397162 | 500.000 | 500.000 |
| 6) | L1 AR-1016-4 | 5.596 | 4.667 | 39117958 | 23897261 | 500.000 | 500.000 |
| 7) | L1 AR-1016-5 | 5.886 | 4.875 | 41992968 | 29344290 | 500.000 | 500.000 |
| 31) | L7 AR-1260-1 | 6.997 | 5.888 | 68938466 | 53487170 | 500.000 | 500.000 |
| 32) | L7 AR-1260-2 | 7.251 | 6.075 | 67337203 | 55607605 | 500.000 | 500.000 |
| 33) | L7 AR-1260-3 | 7.606 | 6.225 | 52401578 | 55436620 | 500.000 | 500.000 |
| 34) | L7 AR-1260-4 | 7.830 | 6.689 | 58602629 | 42797190 | 500.000 | 500.000 |
| 35) | L7 AR-1260-5 | 8.135 | 6.930 | 96142008 | 81909535 | 500.000 | 500.000 |

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

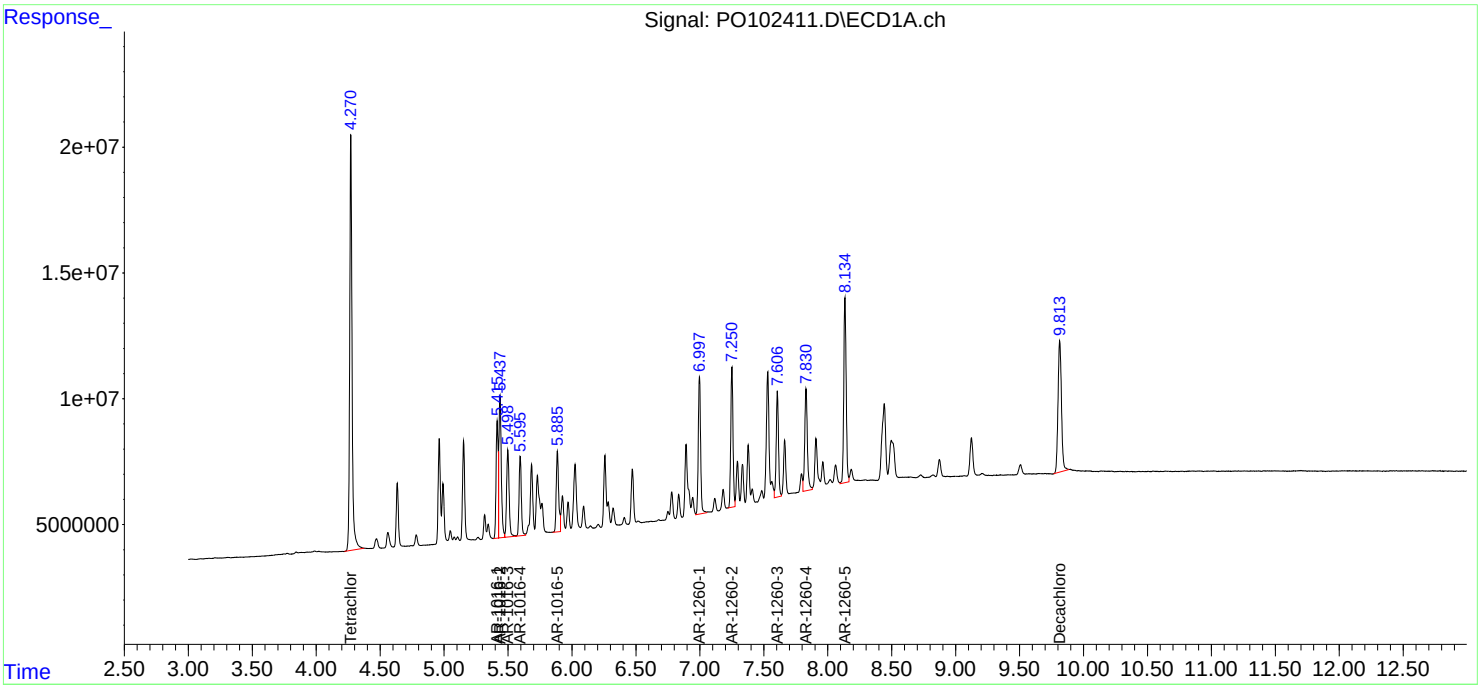
ICAL Form

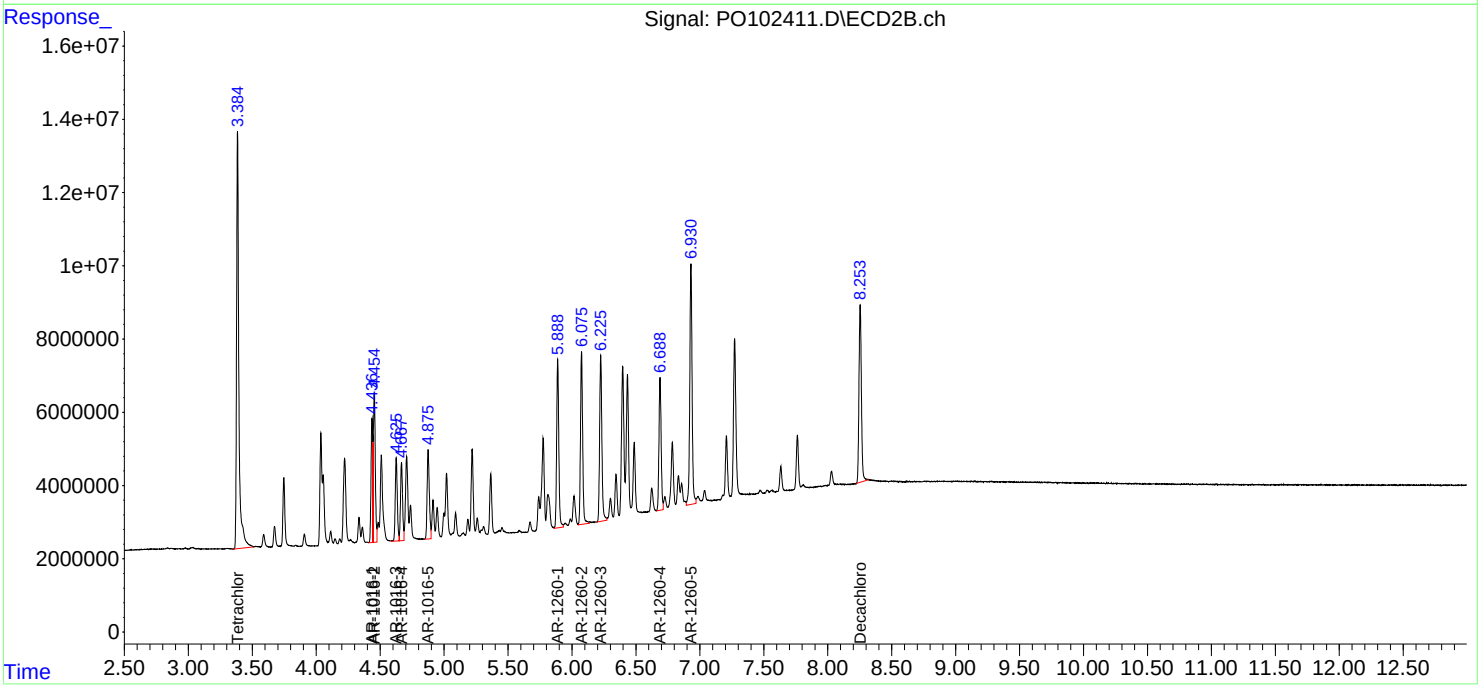
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102411.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:41
Operator : YP/AJ
Sample : AR1660ICC500
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:10:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102412.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:58
Operator : YP/AJ
Sample : AR1660ICC250
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:18:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.271 | 3.385 | 107.1E6 | 72592391 | 25.719 | 25.648 |
| 2) | SA Decachlor... | 9.816 | 8.255 | 49151726 | 32091129 | 25.480 | 25.614 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.416 | 4.437 | 26682978 | 16776343 | 267.189 | 268.977 |
| 4) | L1 AR-1016-2 | 5.438 | 4.455 | 38502152 | 22878723 | 265.077 | 263.939 |
| 5) | L1 AR-1016-3 | 5.499 | 4.626 | 24451334 | 13397923 | 264.072 | 267.333 |
| 6) | L1 AR-1016-4 | 5.596 | 4.667 | 19967167 | 12581659 | 260.950 | 268.365 |
| 7) | L1 AR-1016-5 | 5.886 | 4.876 | 21715504 | 15392238 | 264.288 | 266.960 |
| 31) | L7 AR-1260-1 | 6.997 | 5.888 | 35471236 | 27766572 | 259.903 | 263.094 |
| 32) | L7 AR-1260-2 | 7.251 | 6.075 | 34276016 | 28494843 | 258.220 | 260.956 |
| 33) | L7 AR-1260-3 | 7.607 | 6.225 | 26204032 | 29053197 | 253.490 | 264.853 |
| 34) | L7 AR-1260-4 | 7.831 | 6.689 | 29659862 | 22063111 | 257.632 | 260.429 |
| 35) | L7 AR-1260-5 | 8.136 | 6.931 | 49581743 | 41507974 | 260.660 | 255.654 |

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

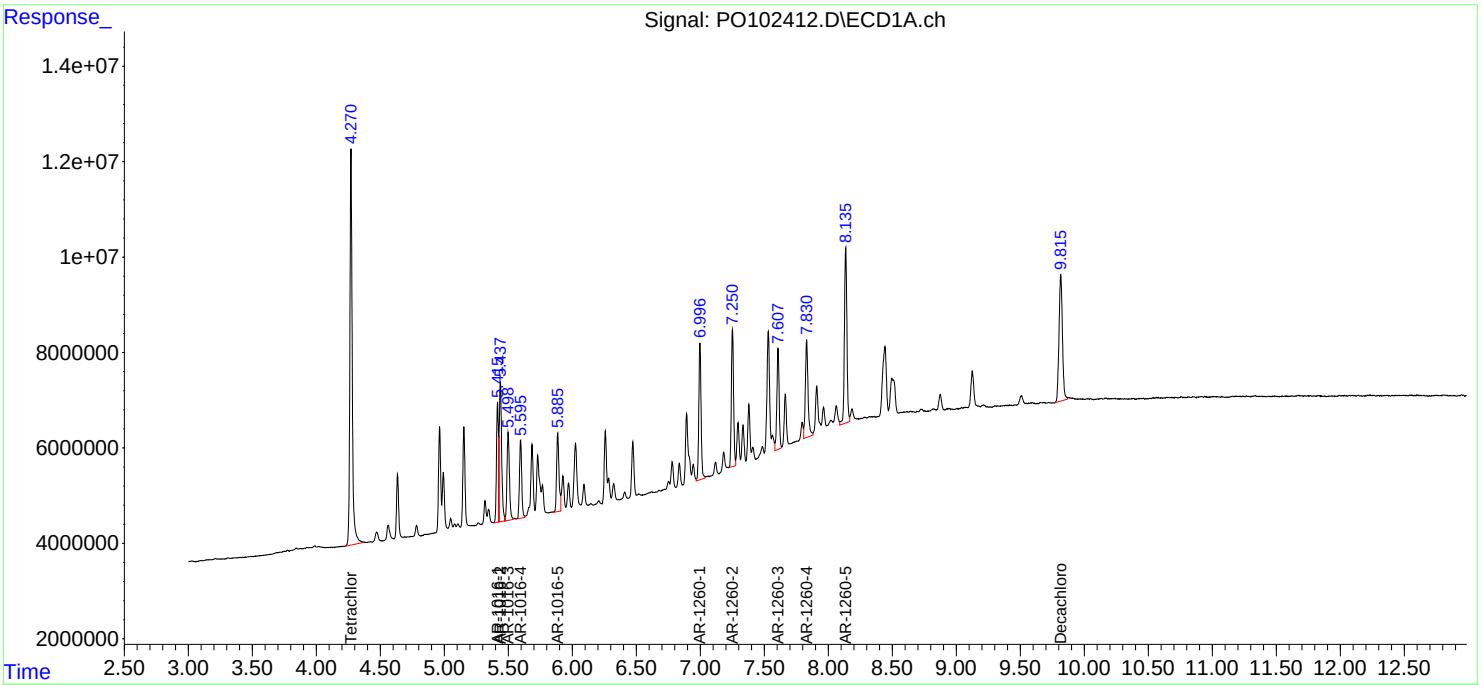
ICAL Form

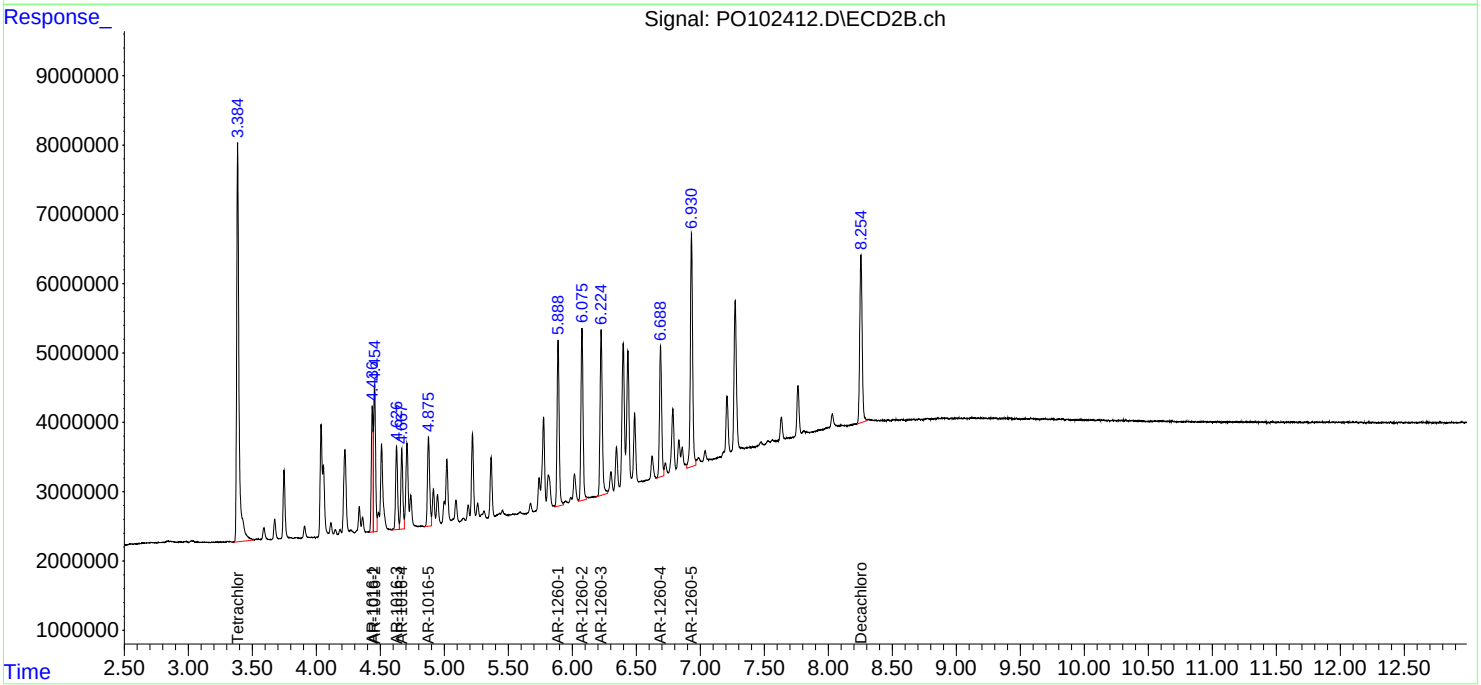
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102412.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 15:58
Operator : YP/AJ
Sample : AR1660ICC250
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:18:26 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102413.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:15
Operator : YP/AJ
Sample : AR1660ICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC050

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/13/2024
Supervised By :Ankita Jodhani 03/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:21:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.271 | 3.384 | 19165067 | 13443778 | 4.676 | 4.798 |
| 2) | SA Decachlor... | 9.816 | 8.254 | 8891793 | 5763528 | 4.683 | 4.675 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.416 | 4.437 | 5003491 | 3191181 | 50.082 | 50.927 |
| 4) | L1 AR-1016-2 | 5.438 | 4.454 | 7209076 | 4350170 | 49.706 | 50.148 |
| 5) | L1 AR-1016-3 | 5.499 | 4.626 | 4842448 | 2540487 | 51.822 | 50.461m |
| 6) | L1 AR-1016-4 | 5.596 | 4.668 | 3608473 | 2387471 | 47.701 | 50.737 |
| 7) | L1 AR-1016-5 | 5.887 | 4.876 | 4022800 | 2841957 | 49.164 | 49.431 |
| 31) | L7 AR-1260-1 | 6.997 | 5.889 | 6944648 | 5128422 | 50.705 | 48.868 |
| 32) | L7 AR-1260-2 | 7.252 | 6.075 | 6390128 | 5493988 | 48.501 | 50.251 |
| 33) | L7 AR-1260-3 | 7.608 | 6.225 | 4813947 | 6254481 | 47.217 | 55.460 |
| 34) | L7 AR-1260-4 | 7.832 | 6.690 | 5888539 | 4384450 | 50.915 | 51.393 |
| 35) | L7 AR-1260-5 | 8.136 | 6.931 | 10558955 | 8013320 | 54.313 | 49.483 |

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102413.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:15
Operator : YP/AJ
Sample : AR1660ICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

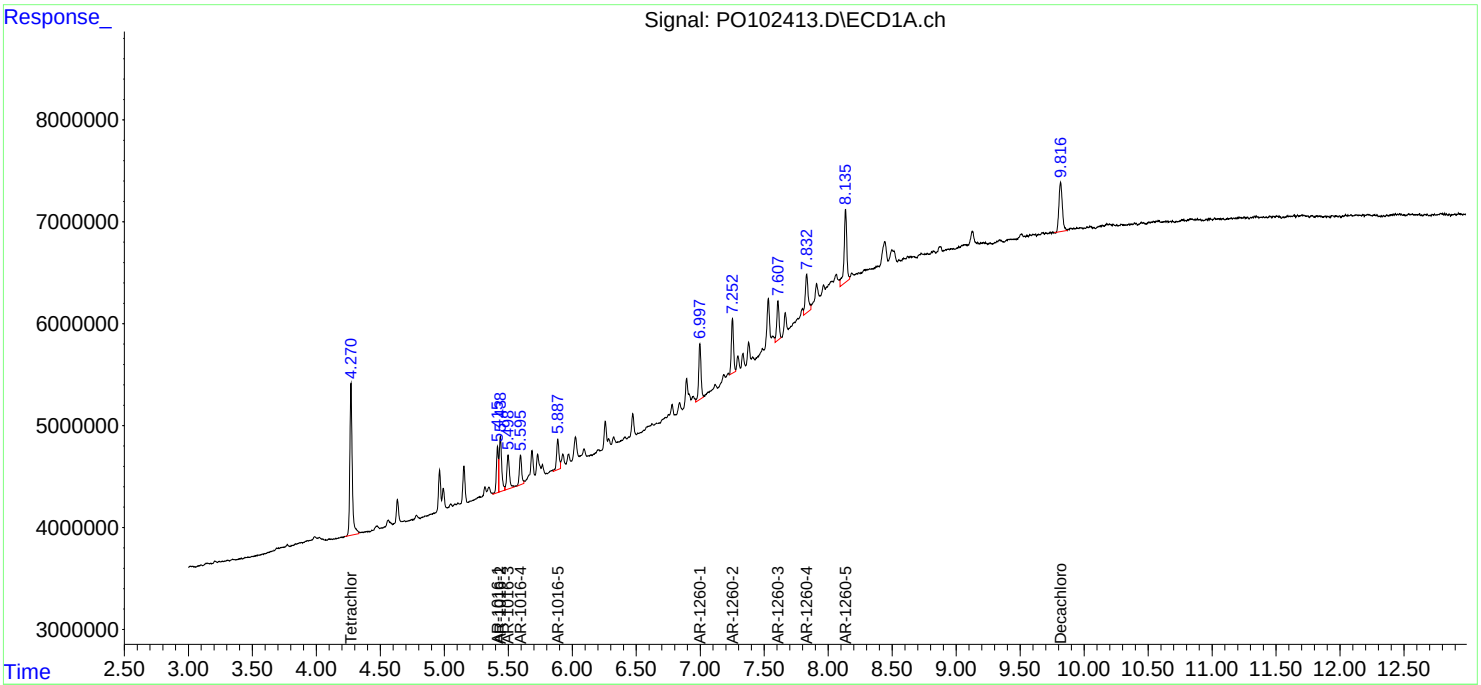
**Instrument :**
ECD_O
**ClientSampleId :**
AR1660ICC050

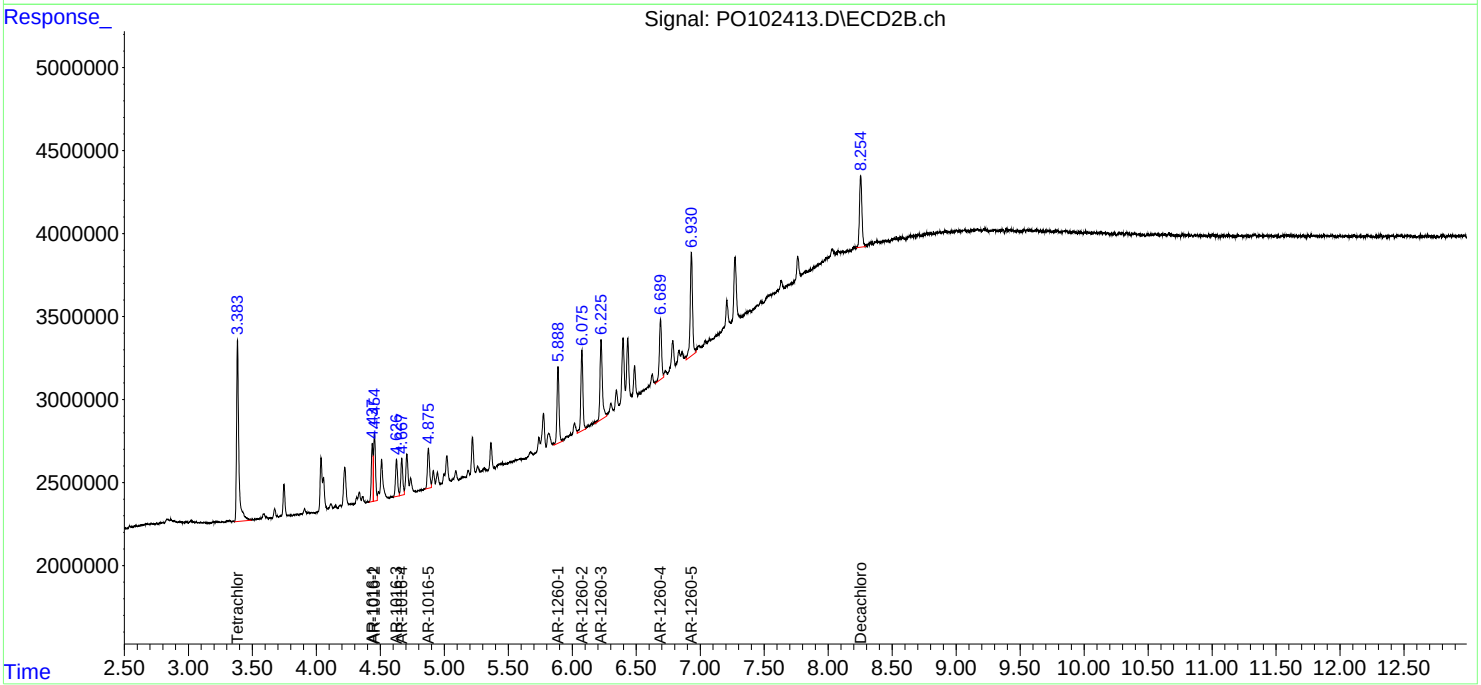
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/13/2024
Supervised By :Ankita Jodhani 03/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:21:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:07:56 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102414.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:32
Operator : YP/AJ
Sample : AR1221ICC500
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1221ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:32:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:31:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.384 | 198.1E6 | 133.8E6 | 50.000 | 50.000 |
| 2) | SA Decachlor... | 9.815 | 8.253 | 89907821 | 58342563 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 8) | L2 AR-1221-1 | 4.474 | 3.591 | 18865123 | 12868209 | 500.000 | 500.000 |
| 9) | L2 AR-1221-2 | 4.559 | 3.674 | 14707937 | 9723953 | 500.000 | 500.000 |
| 10) | L2 AR-1221-3 | 4.634 | 3.747 | 42198598 | 27091950 | 500.000 | 500.000 |

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

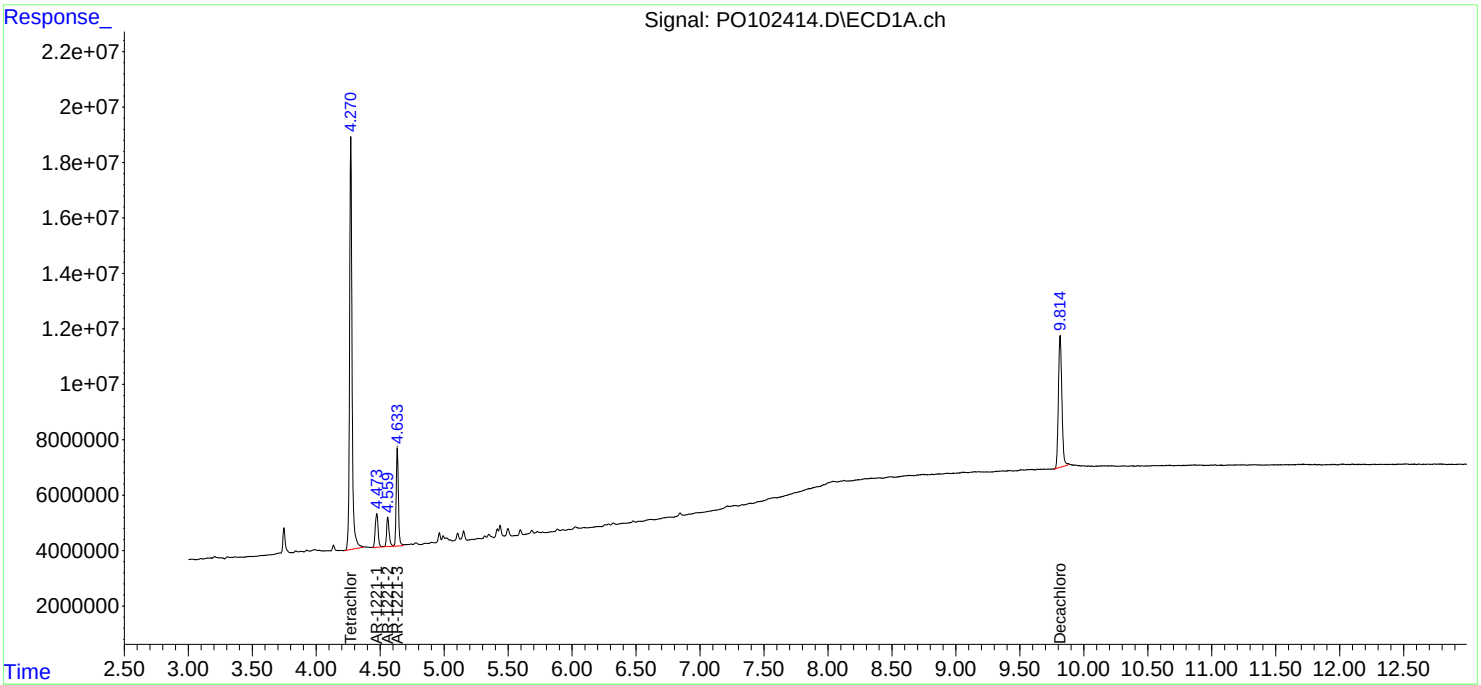
ICAL Form

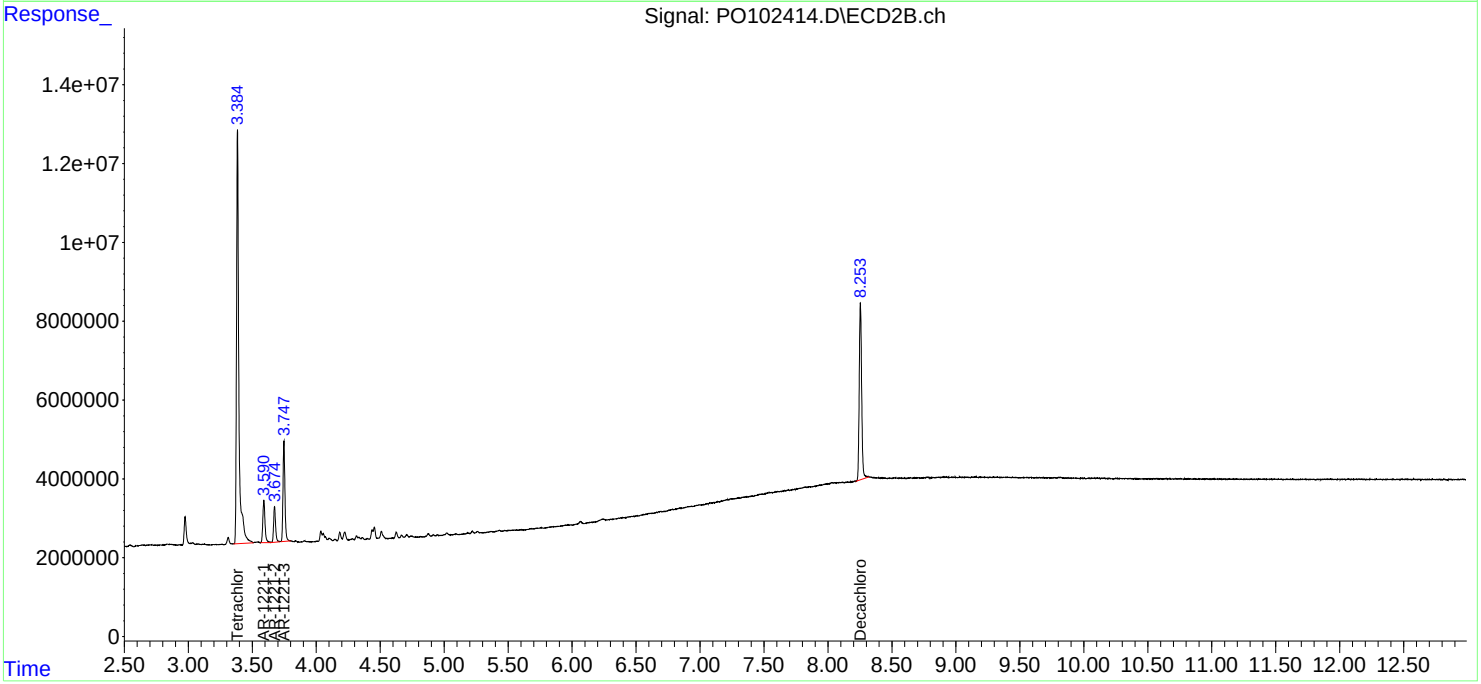
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102414.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:32
Operator : YP/AJ
Sample : AR1221ICC500
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1221ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:32:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:31:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102415.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:49
Operator : YP/AJ
Sample : AR1232ICC500
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1232ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:37:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:37:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.271 | 3.385 | 245.9E6 | 166.5E6 | 50.000 | 50.000 |
| 2) | SA Decachlor... | 9.816 | 8.254 | 109.6E6 | 73215473 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 11) | L3 AR-1232-1 | 4.634 | 3.748 | 40498173 | 26232305 | 500.000 | 500.000 |
| 12) | L3 AR-1232-2 | 5.153 | 4.455 | 25198102 | 22776224 | 500.000 | 500.000 |
| 13) | L3 AR-1232-3 | 5.437 | 4.627 | 37592290 | 12732348 | 500.000 | 500.000 |
| 14) | L3 AR-1232-4 | 5.596 | 4.708 | 19023135 | 13441558 | 500.000 | 500.000 |
| 15) | L3 AR-1232-5 | 5.686 | 4.876 | 17824395 | 13564568 | 500.000 | 500.000 |

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

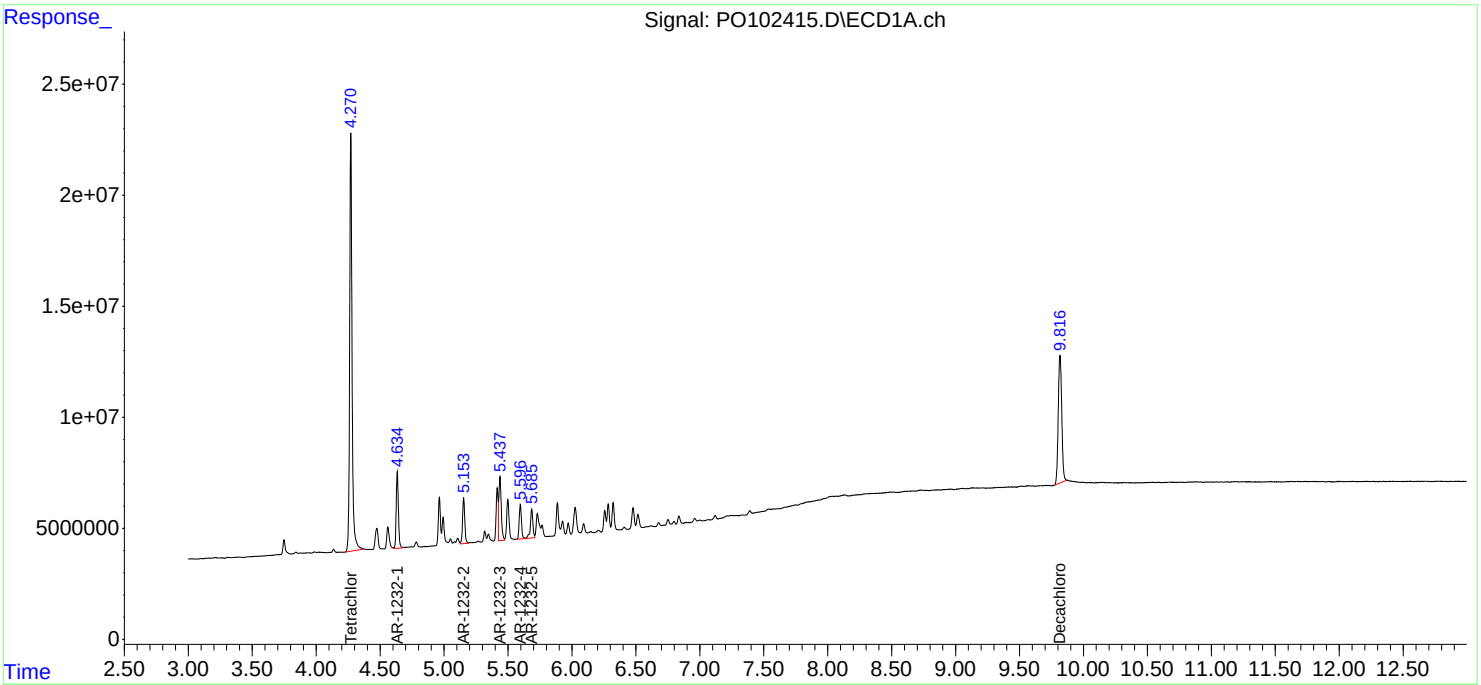
ICAL Form

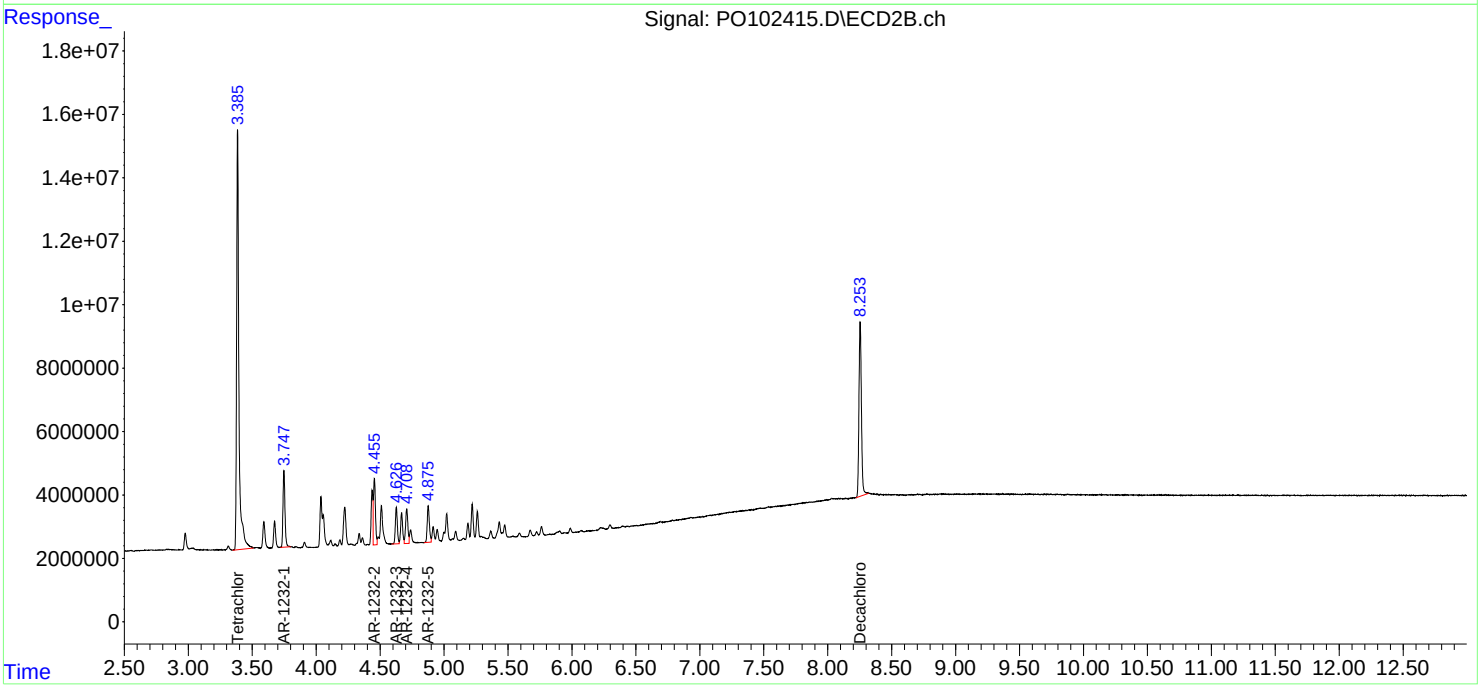
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102415.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 16:49
Operator : YP/AJ
Sample : AR1232ICC500
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1232ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 12 17:37:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Mar 12 17:37:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102416.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:07
Operator : YP/AJ
Sample : AR1242ICC1000
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:41:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.385 | 370.7E6 | 254.4E6 | 97.879 | 97.532 |
| 2) | SA Decachlor... | 9.816 | 8.254 | 171.0E6 | 112.9E6 | 97.152 | 97.325 |
| | Target Compounds | | | | | | |
| 16) | L4 AR-1242-1 | 5.415 | 4.437 | 70801651 | 44864486 | 958.044 | 954.138 |
| 17) | L4 AR-1242-2 | 5.437 | 4.454 | 103.0E6 | 61925174 | 961.683 | 956.223 |
| 18) | L4 AR-1242-3 | 5.498 | 4.627 | 65412696 | 35875974 | 959.564 | 958.315 |
| 19) | L4 AR-1242-4 | 5.596 | 4.708 | 54337431 | 41052096 | 966.680 | 952.636 |
| 20) | L4 AR-1242-5 | 6.322 | 5.220 | 47769800 | 39876034 | 954.121 | 960.098 |

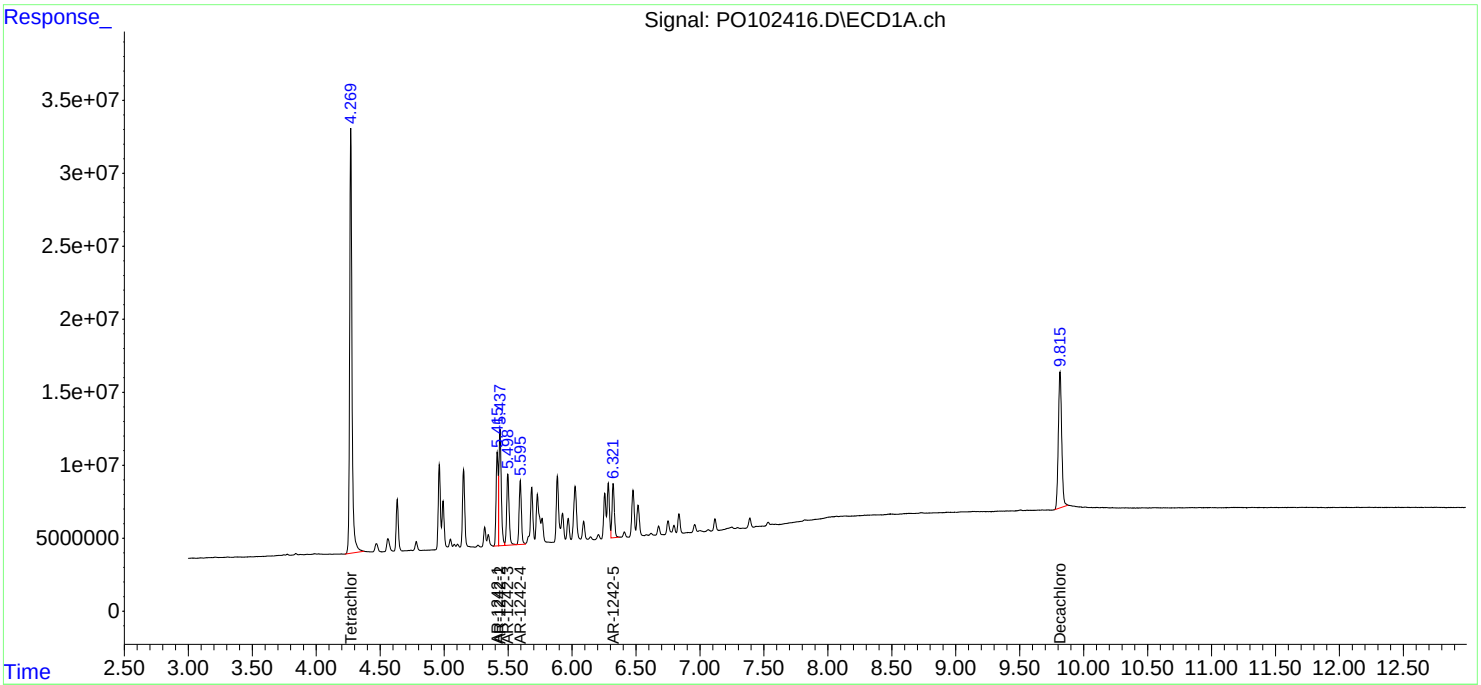
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

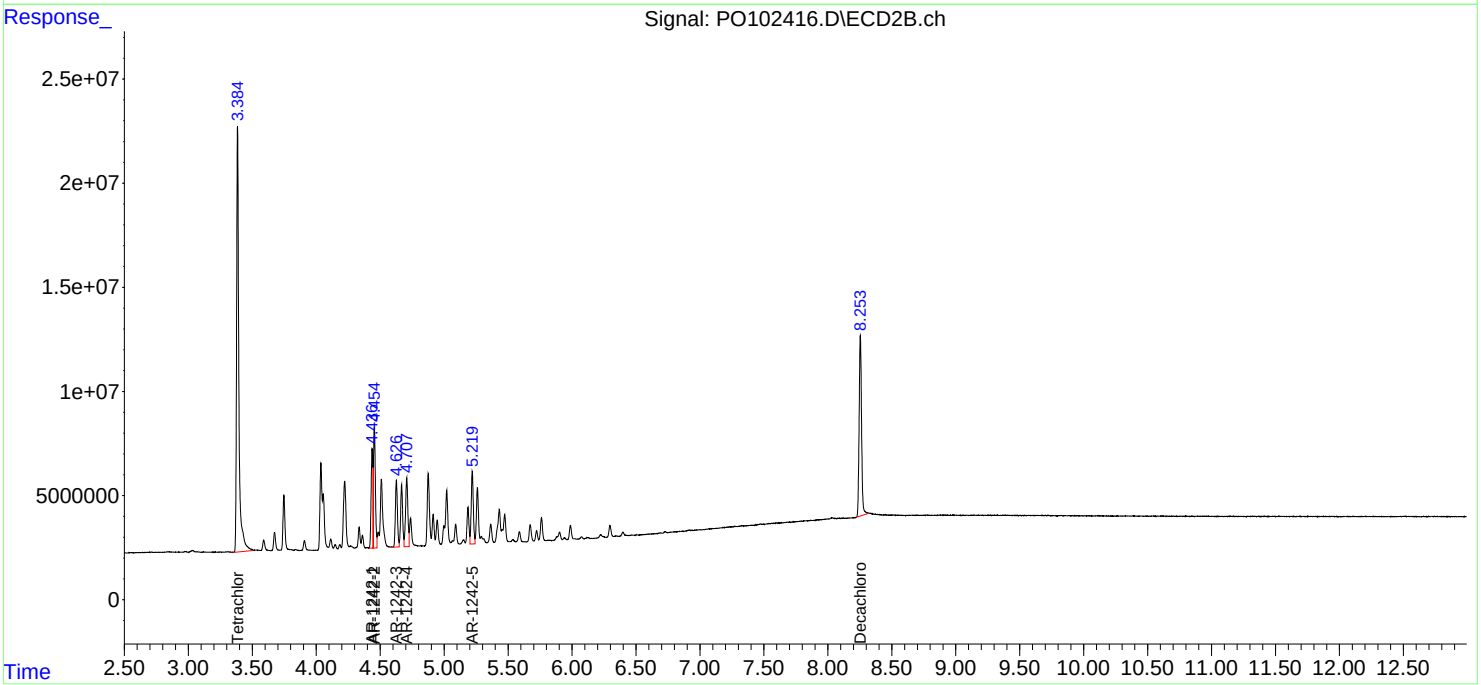
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102416.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:07
Operator : YP/AJ
Sample : AR1242ICC1000
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:41:38 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102417.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:24
Operator : YP/AJ
Sample : AR1242ICC750
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:43:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:43:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.385 | 281.9E6 | 194.2E6 | 74.621 | 74.639 |
| 2) | SA Decachlor... | 9.815 | 8.254 | 130.6E6 | 86271328 | 74.466 | 74.586 |
| | Target Compounds | | | | | | |
| 16) | L4 AR-1242-1 | 5.415 | 4.437 | 53748056 | 34248270 | 734.703 | 735.435 |
| 17) | L4 AR-1242-2 | 5.437 | 4.454 | 79362785 | 48286462 | 744.130 | 747.074 |
| 18) | L4 AR-1242-3 | 5.498 | 4.627 | 50008724 | 27501011 | 738.984 | 739.665 |
| 19) | L4 AR-1242-4 | 5.595 | 4.708 | 41465360 | 31751410 | 741.743 | 741.154 |
| 20) | L4 AR-1242-5 | 6.321 | 5.220 | 36967857 | 30619308 | 742.207 | 741.433 |

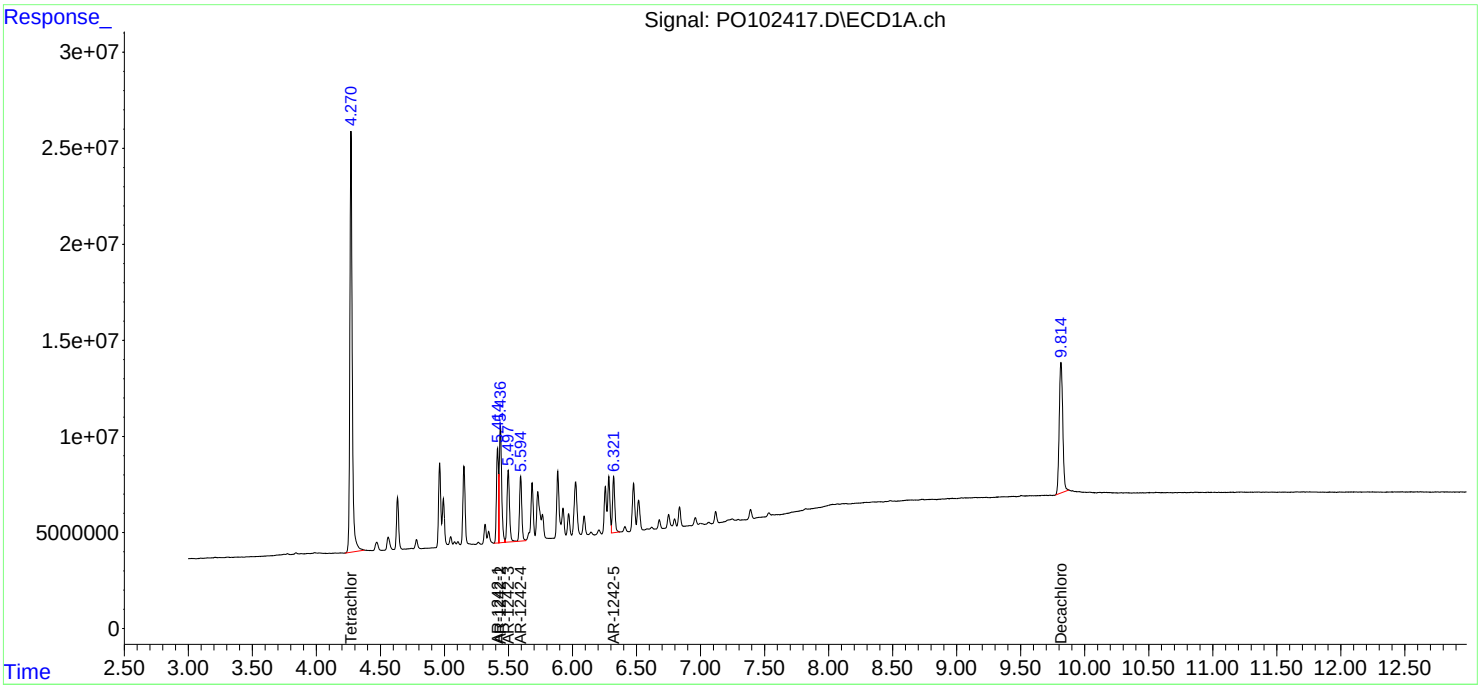
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

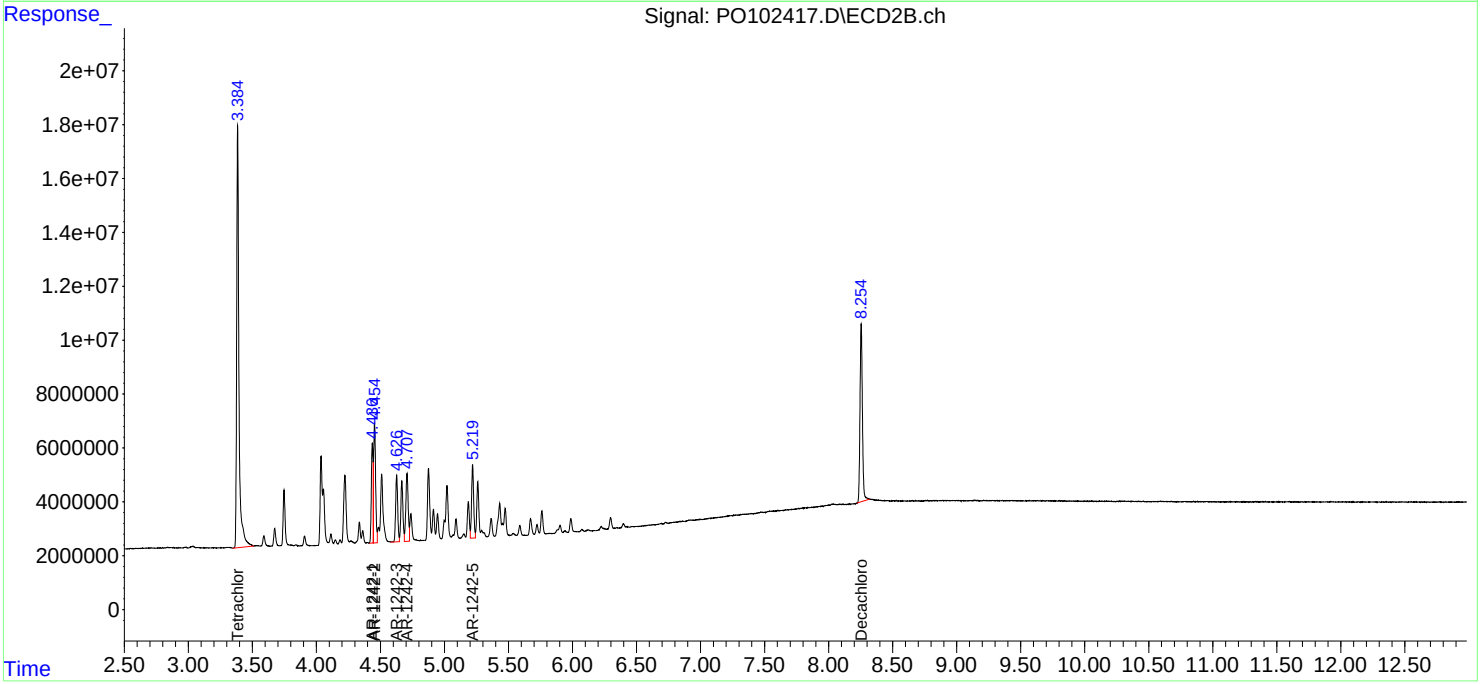
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102417.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:24
Operator : YP/AJ
Sample : AR1242ICC750
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:43:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:43:49 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102418.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:41
Operator : YP/AJ
Sample : AR1242ICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:34:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:32:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.385 | 193.4E6 | 133.6E6 | 50.000 | 50.000 |
| 2) | SA Decachlor... | 9.816 | 8.254 | 90500425 | 59543910 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 16) | L4 AR-1242-1 | 5.415 | 4.437 | 38501445 | 24588711 | 500.000 | 500.000 |
| 17) | L4 AR-1242-2 | 5.437 | 4.454 | 55585796 | 33797614 | 500.000 | 500.000 |
| 18) | L4 AR-1242-3 | 5.497 | 4.626 | 35462862 | 19498537 | 500.000 | 500.000 |
| 19) | L4 AR-1242-4 | 5.595 | 4.708 | 29041634 | 22567117 | 500.000 | 500.000 |
| 20) | L4 AR-1242-5 | 6.321 | 5.220 | 26181916 | 21595288 | 500.000 | 500.000 |

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

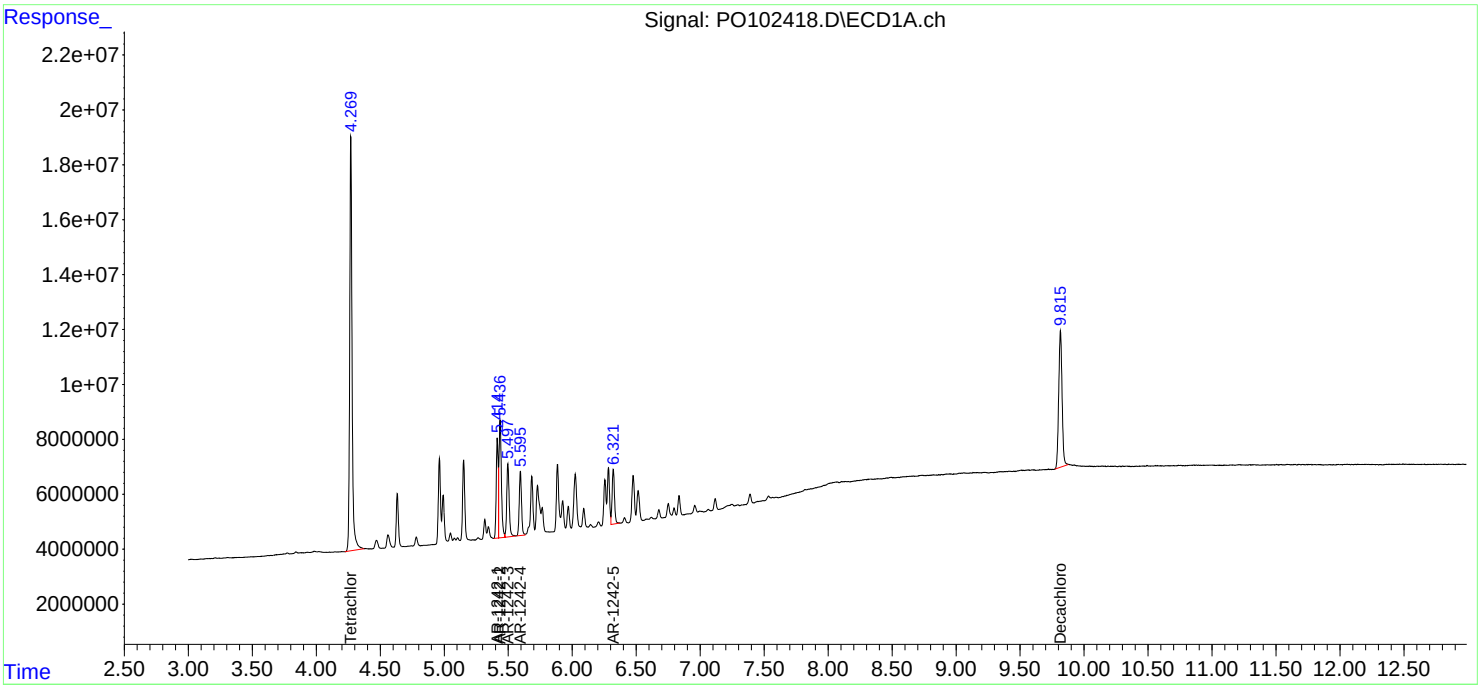
ICAL Form

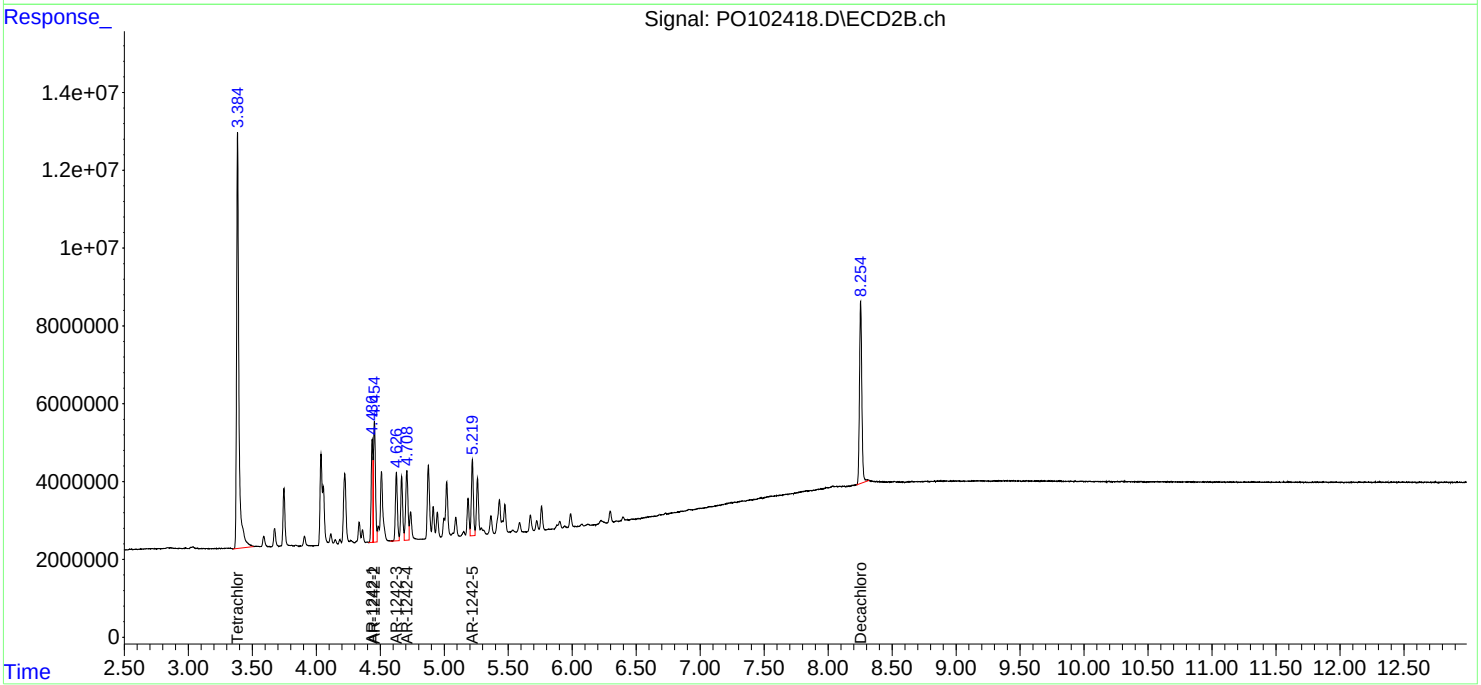
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102418.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:41
Operator : YP/AJ
Sample : AR1242ICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:34:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:32:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102419.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:58
Operator : YP/AJ
Sample : AR1242ICC250
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:46:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.384 | 97608034 | 67617672 | 25.624 | 25.734 |
| 2) | SA Decachlor... | 9.814 | 8.254 | 45297637 | 29859737 | 25.618 | 25.607 |
| | Target Compounds | | | | | | |
| 16) | L4 AR-1242-1 | 5.415 | 4.437 | 20023625 | 13009580 | 267.371 | 271.394 |
| 17) | L4 AR-1242-2 | 5.437 | 4.454 | 28790691 | 17739616 | 264.670 | 267.908 |
| 18) | L4 AR-1242-3 | 5.498 | 4.626 | 18272030 | 10142189 | 264.711 | 266.707 |
| 19) | L4 AR-1242-4 | 5.595 | 4.707 | 14683719 | 11939600 | 259.381 | 270.924 |
| 20) | L4 AR-1242-5 | 6.321 | 5.220 | 13750371 | 11204315 | 269.054 | 265.647 |

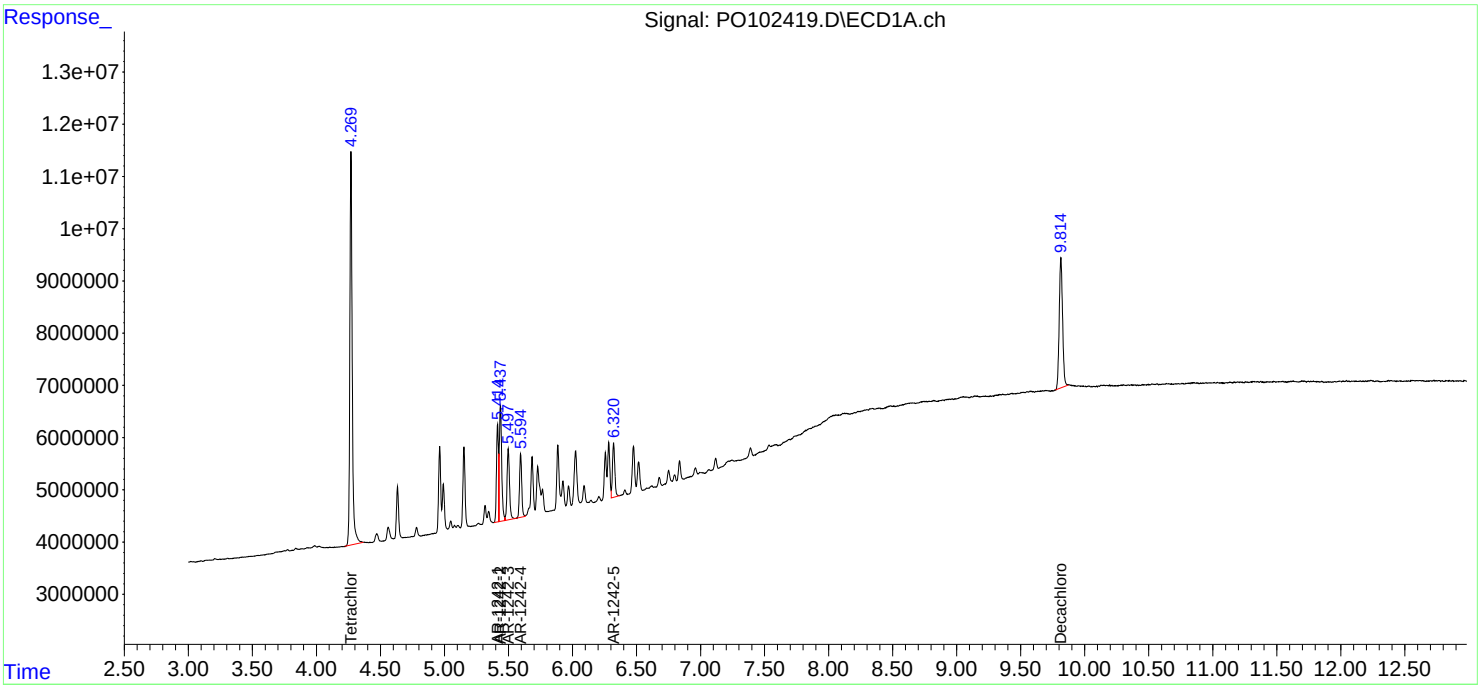
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

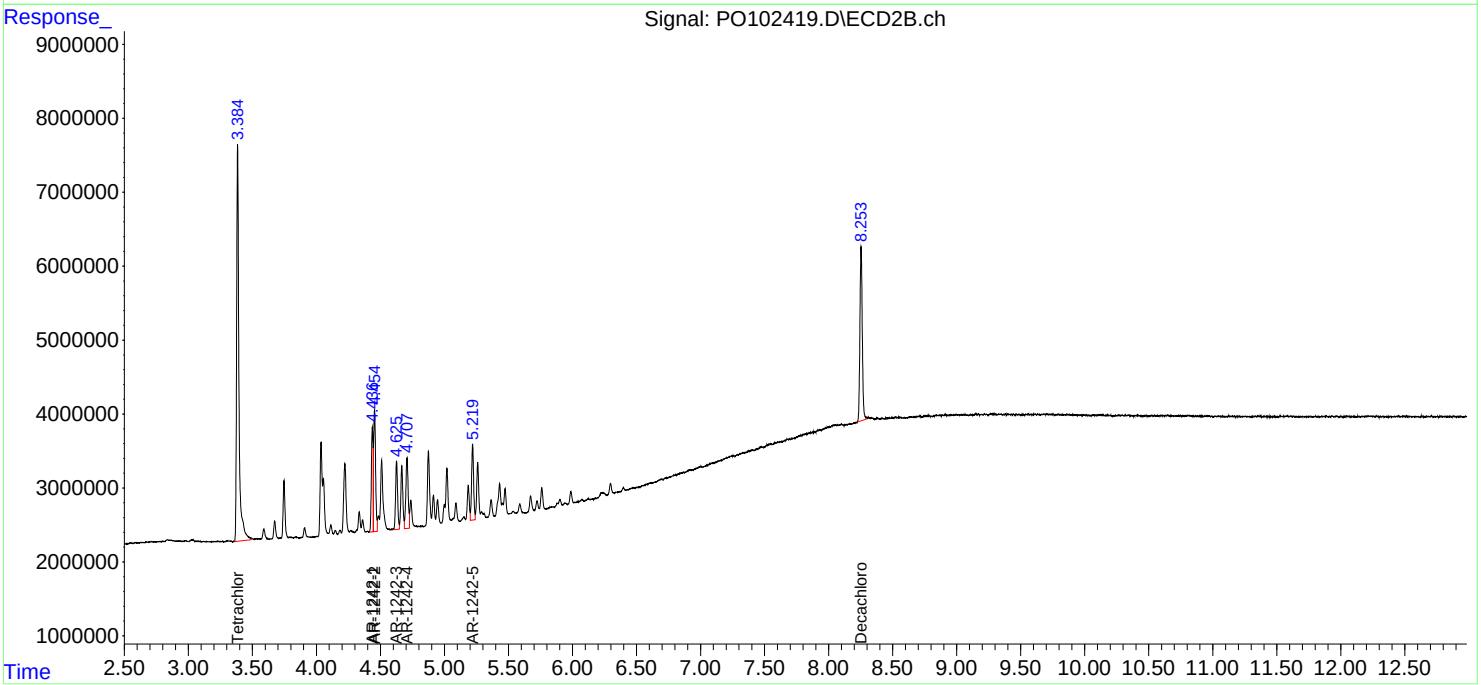
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102419.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 17:58
Operator : YP/AJ
Sample : AR1242ICC250
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:46:07 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:45:59 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102420.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:16
Operator : YP/AJ
Sample : AR1242ICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:49:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:49:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.384 | 18023237 | 12181845 | 4.783 | 4.705 |
| 2) | SA Decachlor... | 9.814 | 8.253 | 8377976 | 5280650 | 4.788 | 4.616 |
| | Target Compounds | | | | | | |
| 16) | L4 AR-1242-1 | 5.415 | 4.436 | 3725523 | 2475678 | 49.797 | 51.308 |
| 17) | L4 AR-1242-2 | 5.436 | 4.454 | 5663418 | 3208787 | 51.637 | 48.760 |
| 18) | L4 AR-1242-3 | 5.497 | 4.626 | 3735030 | 2043027 | 53.235 | 52.936 |
| 19) | L4 AR-1242-4 | 5.595 | 4.707 | 2732424 | 2257915 | 48.604 | 50.983 |
| 20) | L4 AR-1242-5 | 6.321 | 5.219 | 2718028 | 2040937 | 52.515 | 48.703 |

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

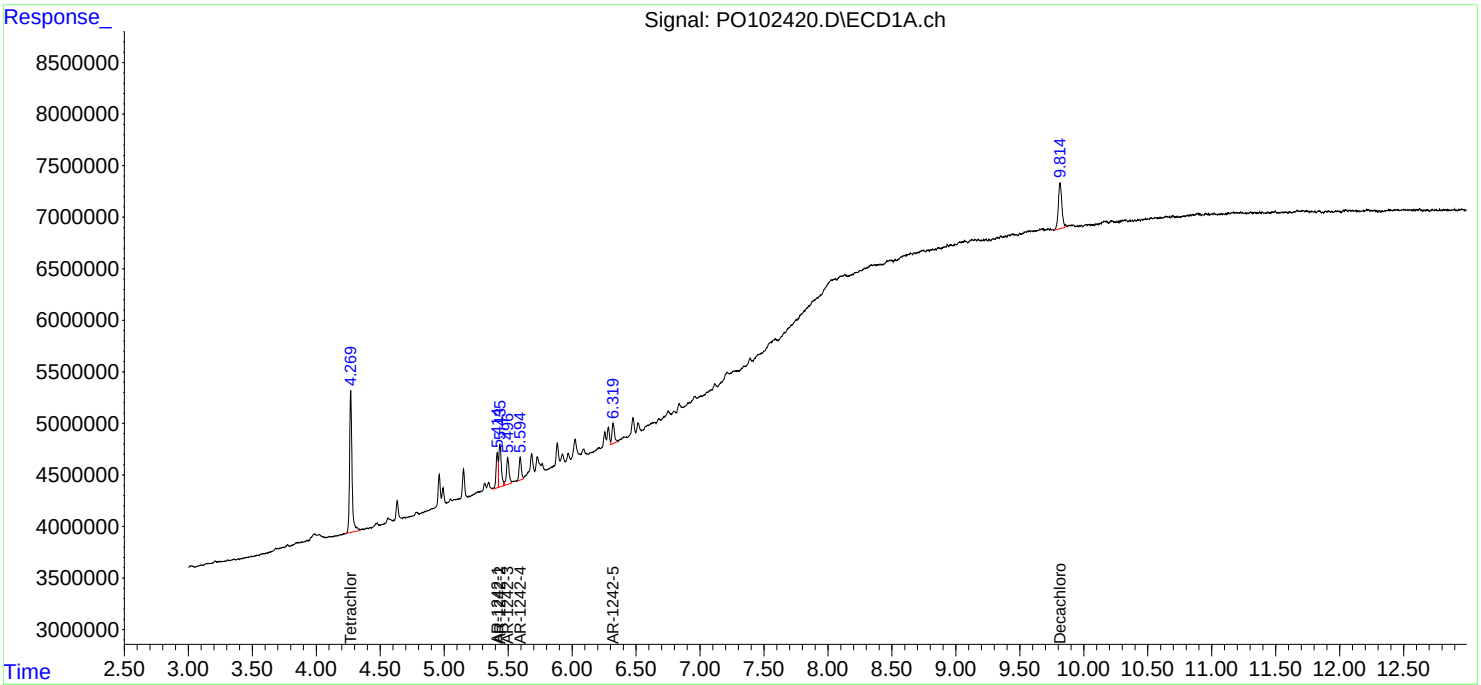
ICAL Form

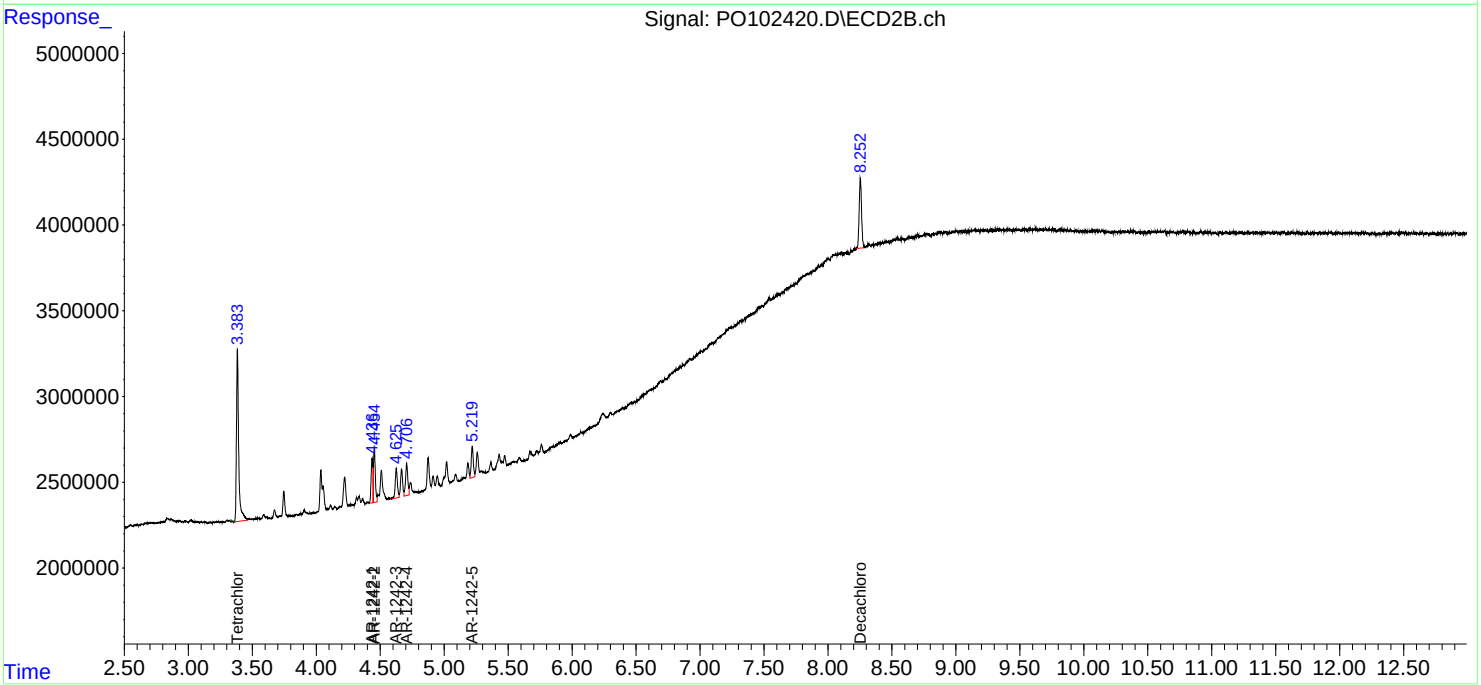
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102420.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:16
Operator : YP/AJ
Sample : AR1242ICC050
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1242ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:49:29 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:49:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102421.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:33
Operator : YP/AJ
Sample : AR1248ICC1000
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:07:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:07:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.271 | 3.385 | 370.1E6 | 250.5E6 | 98.566 | 97.821 |
| 2) | SA Decachlor... | 9.814 | 8.254 | 171.4E6 | 113.0E6 | 97.157 | 97.001 |
| | Target Compounds | | | | | | |
| 21) | L5 AR-1248-1 | 5.415 | 4.437 | 54408854 | 34777028 | 966.472 | 951.683 |
| 22) | L5 AR-1248-2 | 5.685 | 4.668 | 93838842 | 57962842 | 960.089 | 950.151 |
| 23) | L5 AR-1248-3 | 5.886 | 4.708 | 98103923 | 60642519 | 962.257 | 951.775 |
| 24) | L5 AR-1248-4 | 6.284 | 4.876 | 85213217 | 67968601 | 959.550 | 956.509 |
| 25) | L5 AR-1248-5 | 6.322 | 5.260 | 81951324 | 50539958 | 957.429 | 958.679 |

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

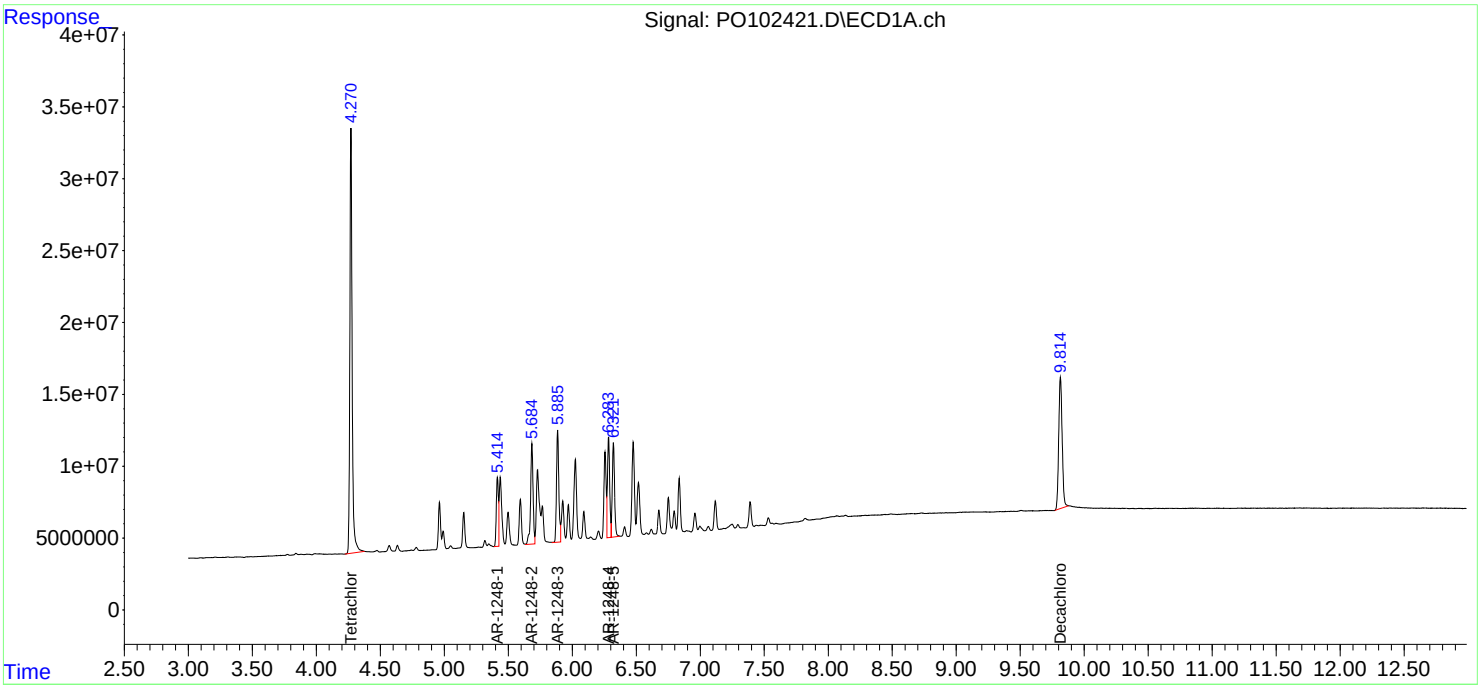
ICAL Form

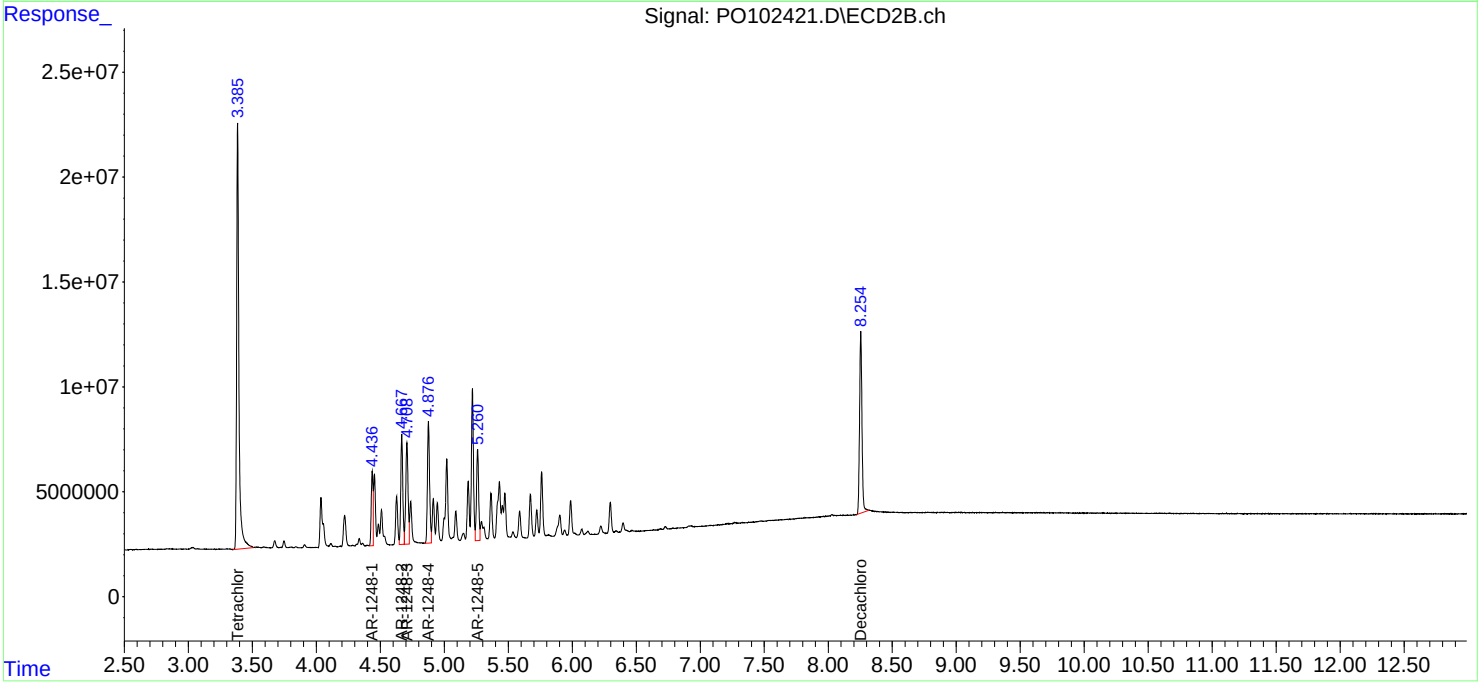
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102421.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:33
Operator : YP/AJ
Sample : AR1248ICC1000
Misc :
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:07:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:07:19 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102422.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:50
Operator : YP/AJ
Sample : AR1248ICC750
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:11:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:11:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.292 | 3.384 | 283.0E6 | 192.9E6 | 75.242 | 75.226 |
| 2) | SA Decachlor... | 9.836 | 8.253 | 126.7E6 | 87533199 | 72.840 | 75.097 |
| | Target Compounds | | | | | | |
| 21) | L5 AR-1248-1 | 5.437 | 4.436 | 43252085 | 27351301 | 762.097 | 748.983 |
| 22) | L5 AR-1248-2 | 5.706 | 4.667 | 74309643 | 45586787 | 756.823 | 748.183 |
| 23) | L5 AR-1248-3 | 5.907 | 4.707 | 77494212 | 47641207 | 756.707 | 748.479 |
| 24) | L5 AR-1248-4 | 6.305 | 4.875 | 65772118 | 53228926 | 742.610 | 749.387 |
| 25) | L5 AR-1248-5 | 6.343 | 5.260 | 61253416 | 39658885 | 736.716 | 751.518 |

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

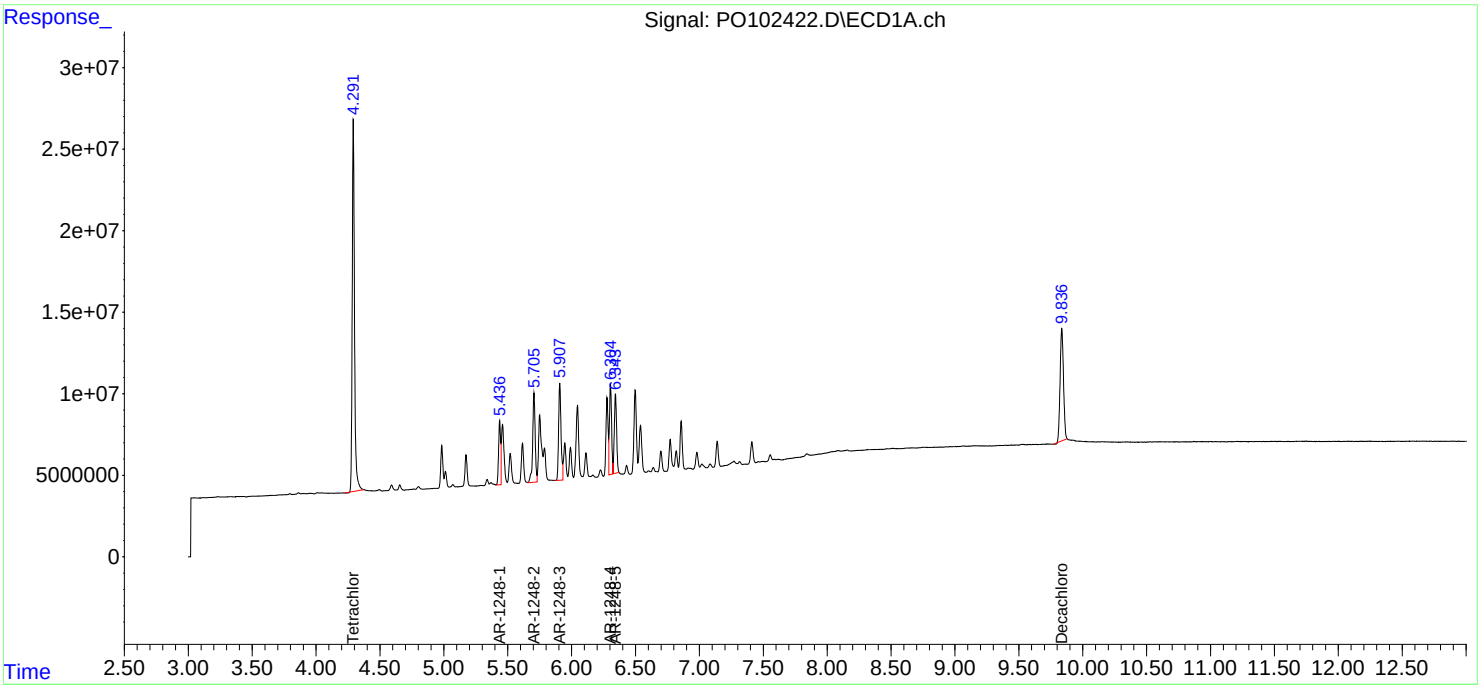
ICAL Form

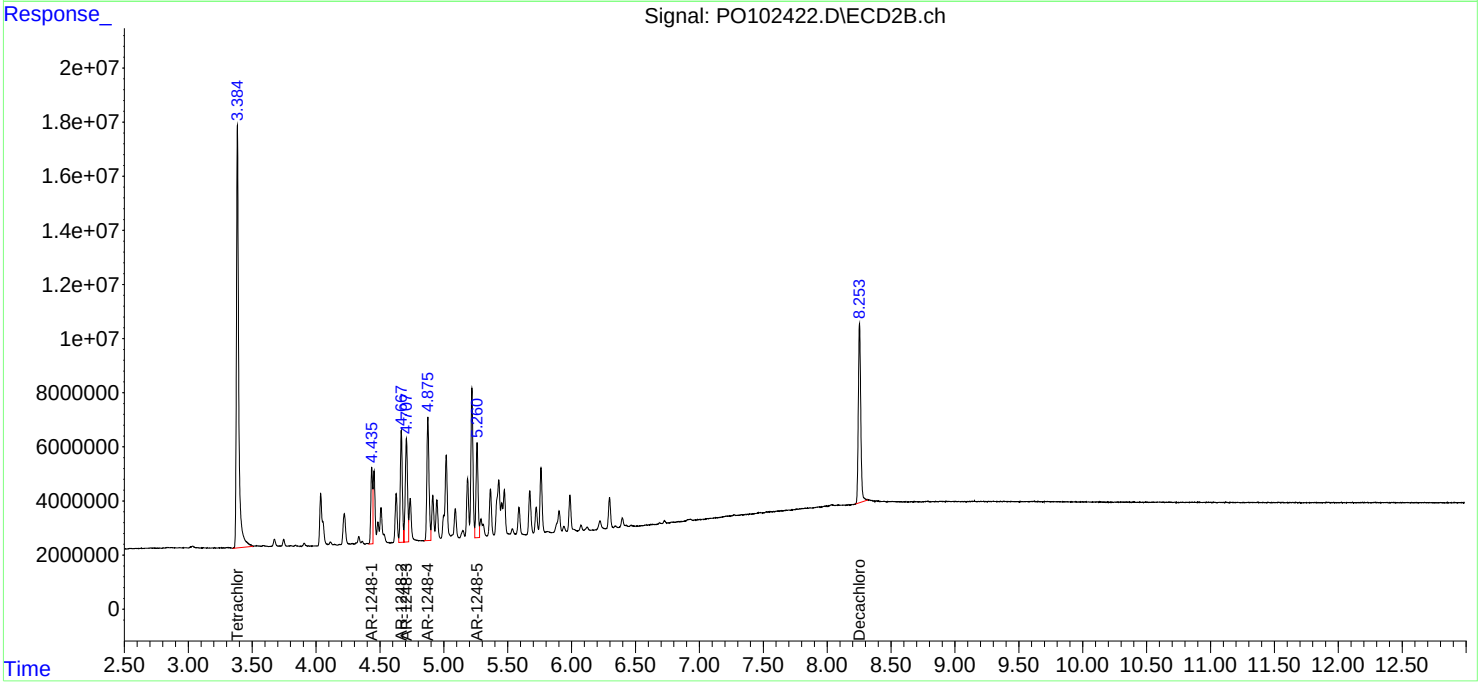
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102422.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 18:50
Operator : YP/AJ
Sample : AR1248ICC750
Misc :
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:11:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:11:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102423.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:07
Operator : YP/AJ
Sample : AR1248ICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:03:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:00:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.384 | 190.5E6 | 130.8E6 | 50.000 | 50.000 |
| 2) | SA Decachlor... | 9.814 | 8.253 | 90733757 | 59989268 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 21) | L5 AR-1248-1 | 5.415 | 4.436 | 29091954 | 19154138 | 500.000 | 500.000 |
| 22) | L5 AR-1248-2 | 5.684 | 4.667 | 50820289 | 32022404 | 500.000 | 500.000 |
| 23) | L5 AR-1248-3 | 5.885 | 4.707 | 52899889 | 33393927 | 500.000 | 500.000 |
| 24) | L5 AR-1248-4 | 6.283 | 4.875 | 46198816 | 37074707 | 500.000 | 500.000 |
| 25) | L5 AR-1248-5 | 6.322 | 5.260 | 44619558 | 27448345 | 500.000 | 500.000 |

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

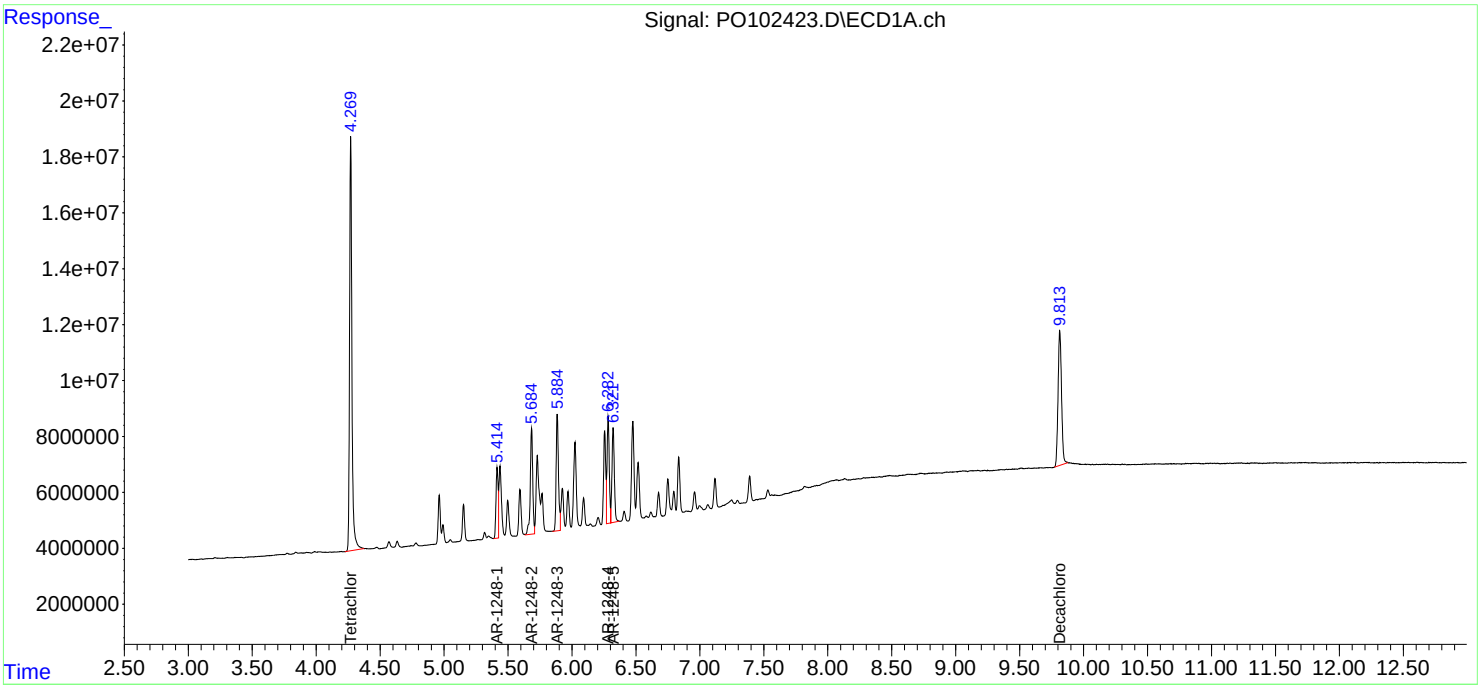
ICAL Form

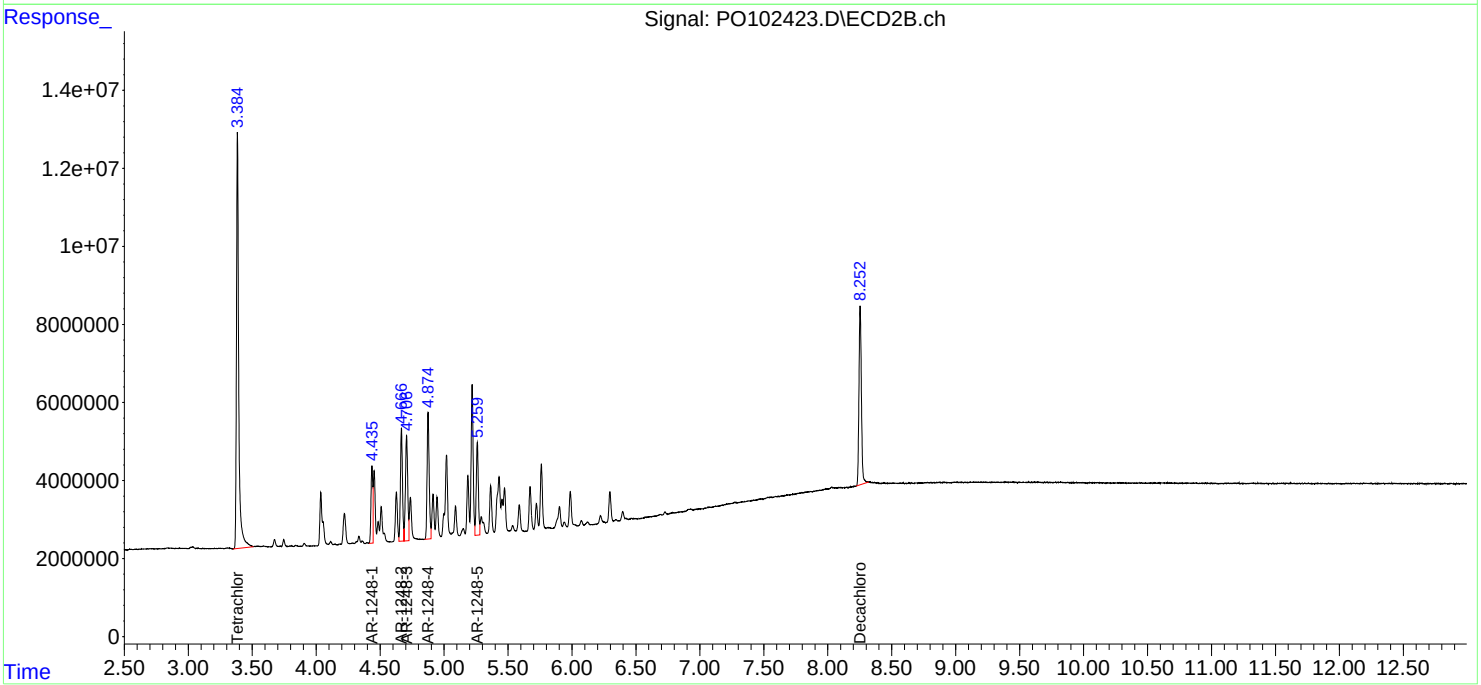
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102423.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:07
Operator : YP/AJ
Sample : AR1248ICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:03:37 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:00:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102424.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:24
Operator : YP/AJ
Sample : AR1248ICC250
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:13:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:13:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 97015980 | 66581673 | 25.591 | 25.714 |
| 2) | SA Decachlor... | 9.815 | 8.253 | 46329707 | 30601210 | 26.206 | 25.929 |
| | Target Compounds | | | | | | |
| 21) | L5 AR-1248-1 | 5.414 | 4.436 | 15152744 | 10105238 | 262.529 | 269.519 |
| 22) | L5 AR-1248-2 | 5.684 | 4.666 | 26735840 | 17067292 | 266.358 | 271.925 |
| 23) | L5 AR-1248-3 | 5.885 | 4.707 | 27401686 | 17669370 | 262.949 | 270.143 |
| 24) | L5 AR-1248-4 | 6.283 | 4.875 | 23828561 | 19579504 | 264.013 | 268.757 |
| 25) | L5 AR-1248-5 | 6.322 | 5.259 | 23225587 | 14239905 | 271.379 | 264.590 |

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

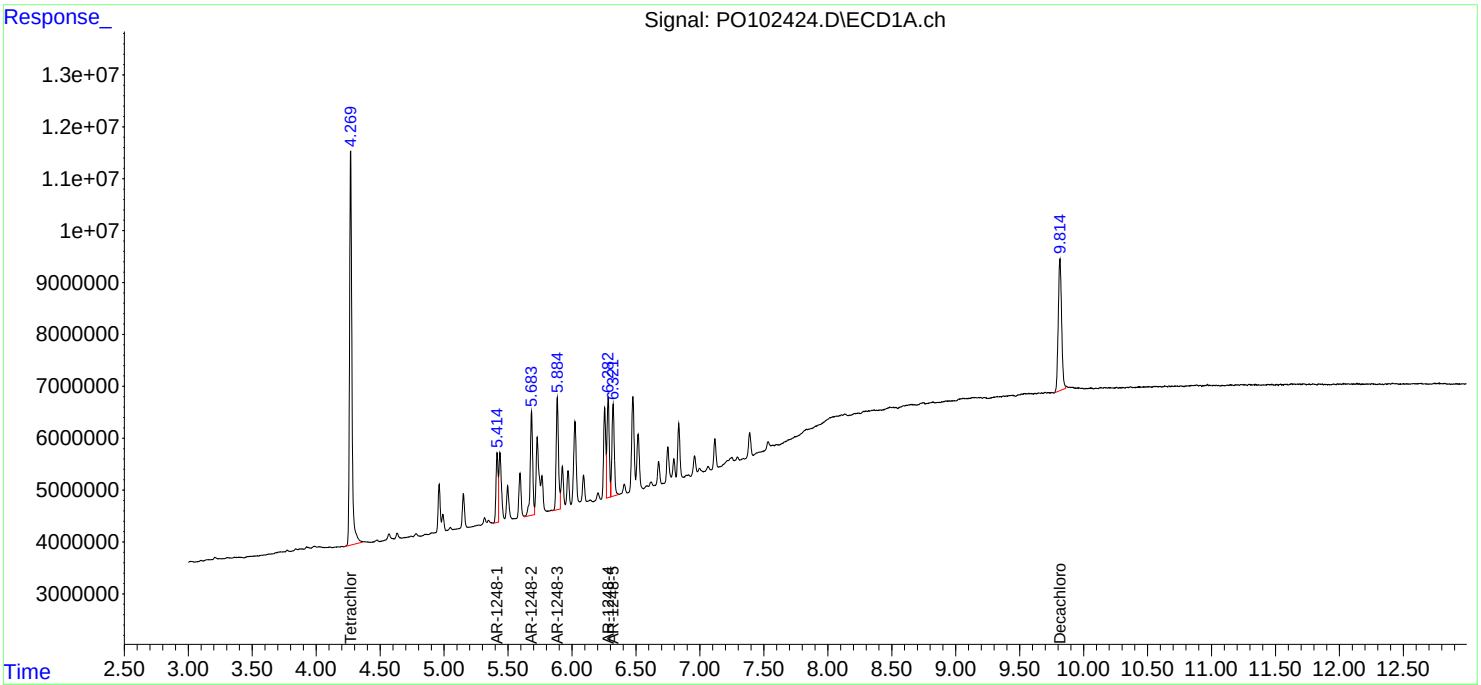
ICAL Form

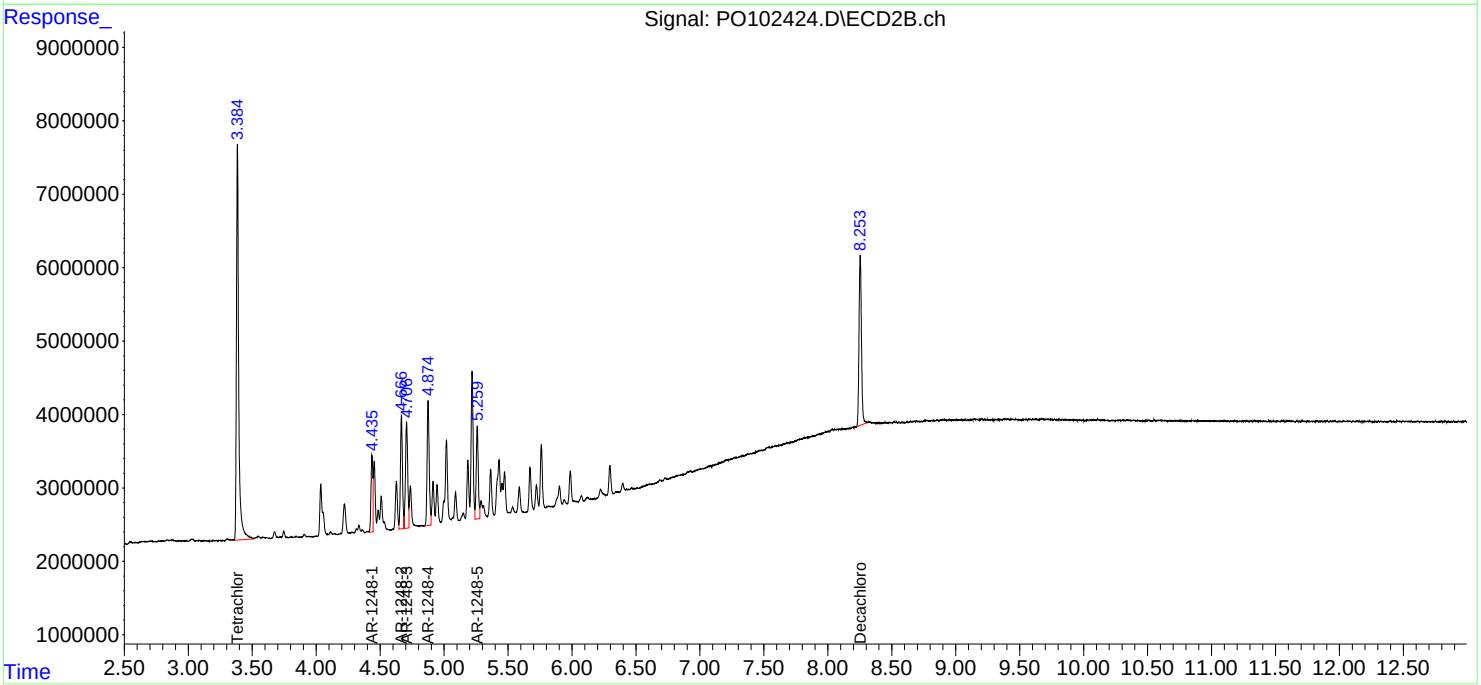
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102424.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:24
Operator : YP/AJ
Sample : AR1248ICC250
Misc :
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:13:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:13:26 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102425.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:42
Operator : YP/AJ
Sample : AR1248ICC050
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC050

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/13/2024
Supervised By :Ankita Jodhani 03/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:15:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:15:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.383 | 17916378 | 12151917 | 4.778 | 4.751 |
| 2) | SA Decachlor... | 9.815 | 8.252 | 8430872 | 5386292 | 4.813 | 4.645 |
| | Target Compounds | | | | | | |
| 21) | L5 AR-1248-1 | 5.415 | 4.436 | 3012239 | 1943609 | 51.736 | 51.460 |
| 22) | L5 AR-1248-2 | 5.683 | 4.667 | 4940375 | 3338388 | 49.638m | 52.519 |
| 23) | L5 AR-1248-3 | 5.885 | 4.707 | 5198701 | 3459554 | 49.910 | 52.287 |
| 24) | L5 AR-1248-4 | 6.283 | 4.875 | 4270325 | 3771750 | 47.828 | 51.408 |
| 25) | L5 AR-1248-5 | 6.321 | 5.260 | 4432818 | 2704298 | 51.426 | 50.198 |

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102425.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:42
Operator : YP/AJ
Sample : AR1248ICC050
Misc :
ALS Vial : 19 Sample Multiplier: 1

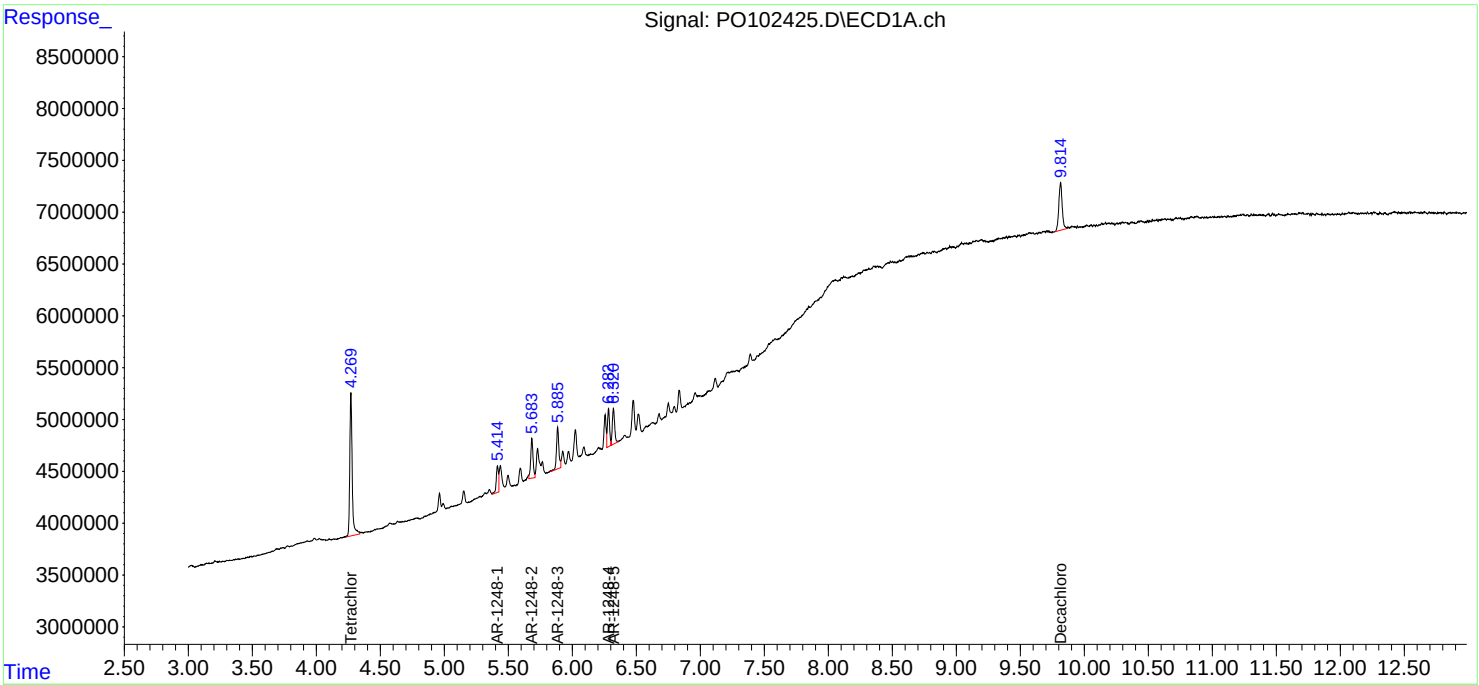
**Instrument :**
ECD_O
**ClientSampleId :**
AR1248ICC050

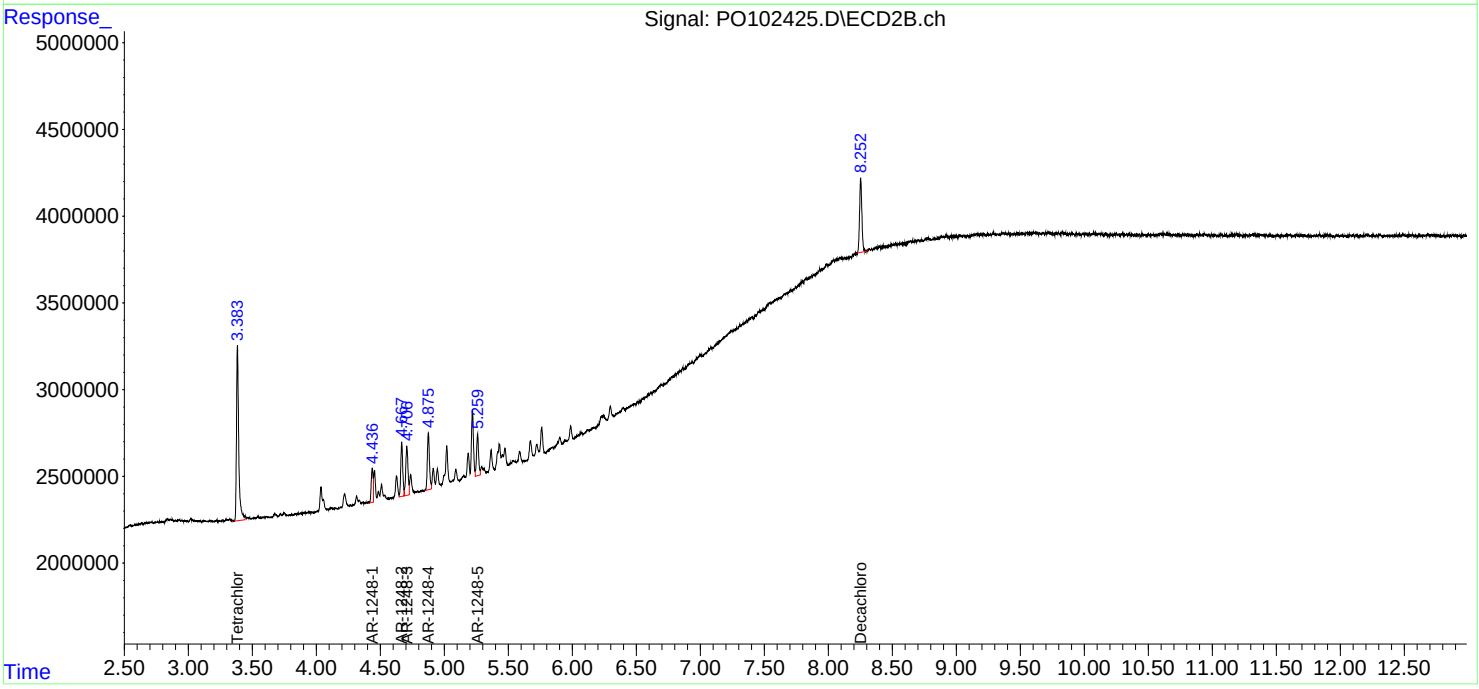
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/13/2024
Supervised By :Ankita Jodhani 03/13/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:15:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:15:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102426.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:59
Operator : YP/AJ
Sample : AR1254ICC1000
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:00:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 377.5E6 | 257.4E6 | 97.688 | 97.276 |
| 2) | SA Decachlor... | 9.813 | 8.253 | 176.4E6 | 118.1E6 | 96.745 | 97.297 |
| | Target Compounds | | | | | | |
| 26) | L6 AR-1254-1 | 6.257 | 5.219 | 111.4E6 | 98789035 | 958.697 | 954.401 |
| 27) | L6 AR-1254-2 | 6.473 | 5.364 | 155.9E6 | 84818474 | 957.693 | 953.301 |
| 28) | L6 AR-1254-3 | 6.835 | 5.760 | 147.7E6 | 125.0E6 | 968.275 | 963.485 |
| 29) | L6 AR-1254-4 | 7.118 | 5.986 | 83825982 | 61003456 | 967.028 | 966.997 |
| 30) | L6 AR-1254-5 | 7.532 | 6.397 | 99278733 | 99780359 | 967.476 | 970.400 |

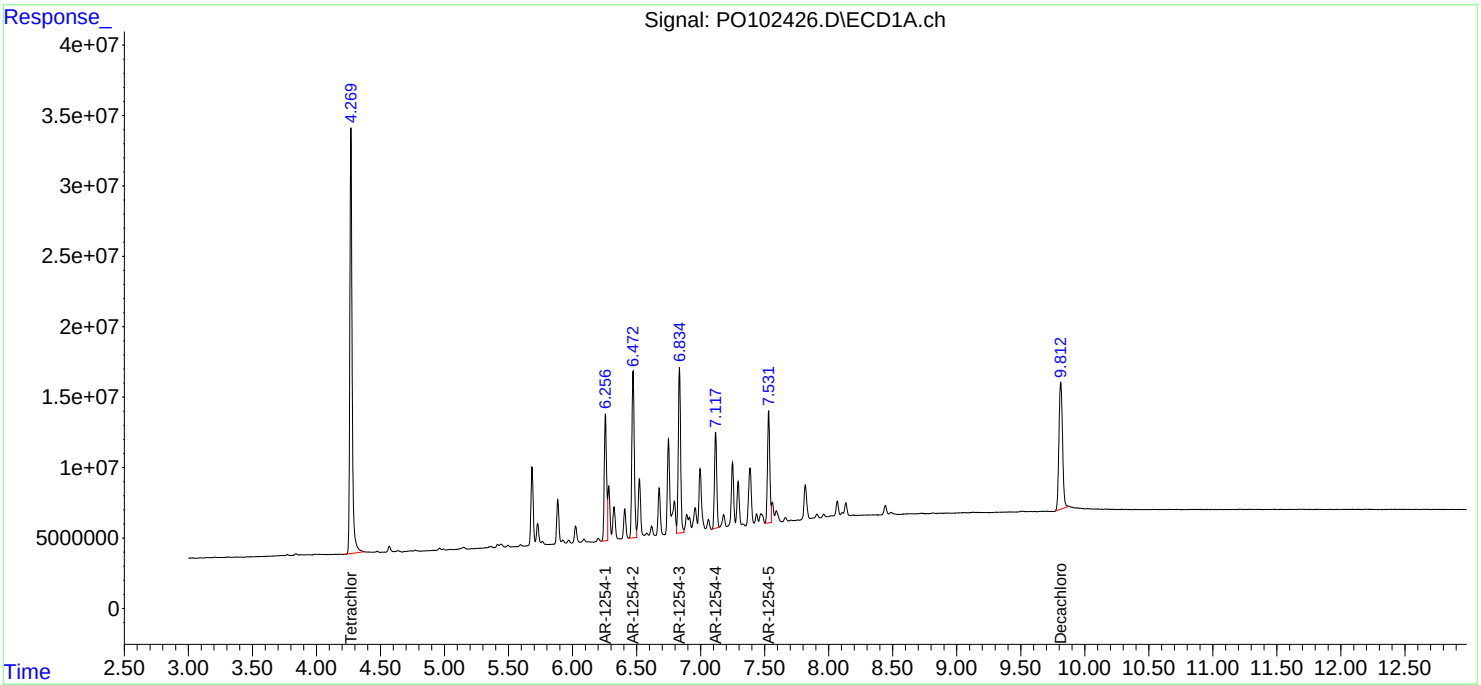
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

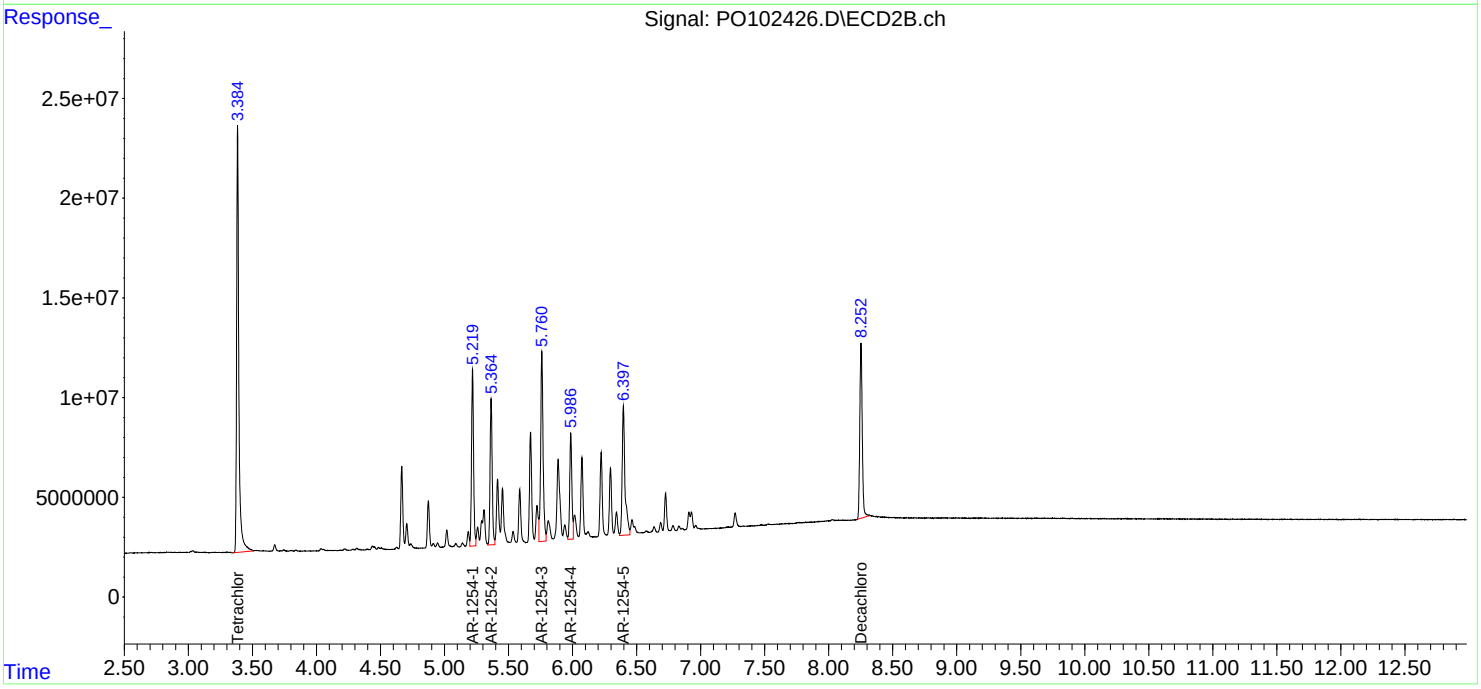
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102426.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 19:59
Operator : YP/AJ
Sample : AR1254ICC1000
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:00:23 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102427.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:16
Operator : YP/AJ
Sample : AR1254ICC750
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:06:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 296.5E6 | 199.3E6 | 76.137 | 75.213 |
| 2) | SA Decachlor... | 9.813 | 8.252 | 136.2E6 | 91007823 | 74.818 | 74.985 |
| | Target Compounds | | | | | | |
| 26) | L6 AR-1254-1 | 6.256 | 5.219 | 87401151 | 77592969 | 751.594 | 749.750 |
| 27) | L6 AR-1254-2 | 6.472 | 5.364 | 122.5E6 | 66402911 | 751.605 | 747.544 |
| 28) | L6 AR-1254-3 | 6.834 | 5.760 | 114.1E6 | 96671568 | 748.685 | 746.648 |
| 29) | L6 AR-1254-4 | 7.117 | 5.986 | 65045174 | 47556660 | 750.247 | 752.559 |
| 30) | L6 AR-1254-5 | 7.531 | 6.397 | 76990882 | 77066613 | 750.187 | 749.667 |

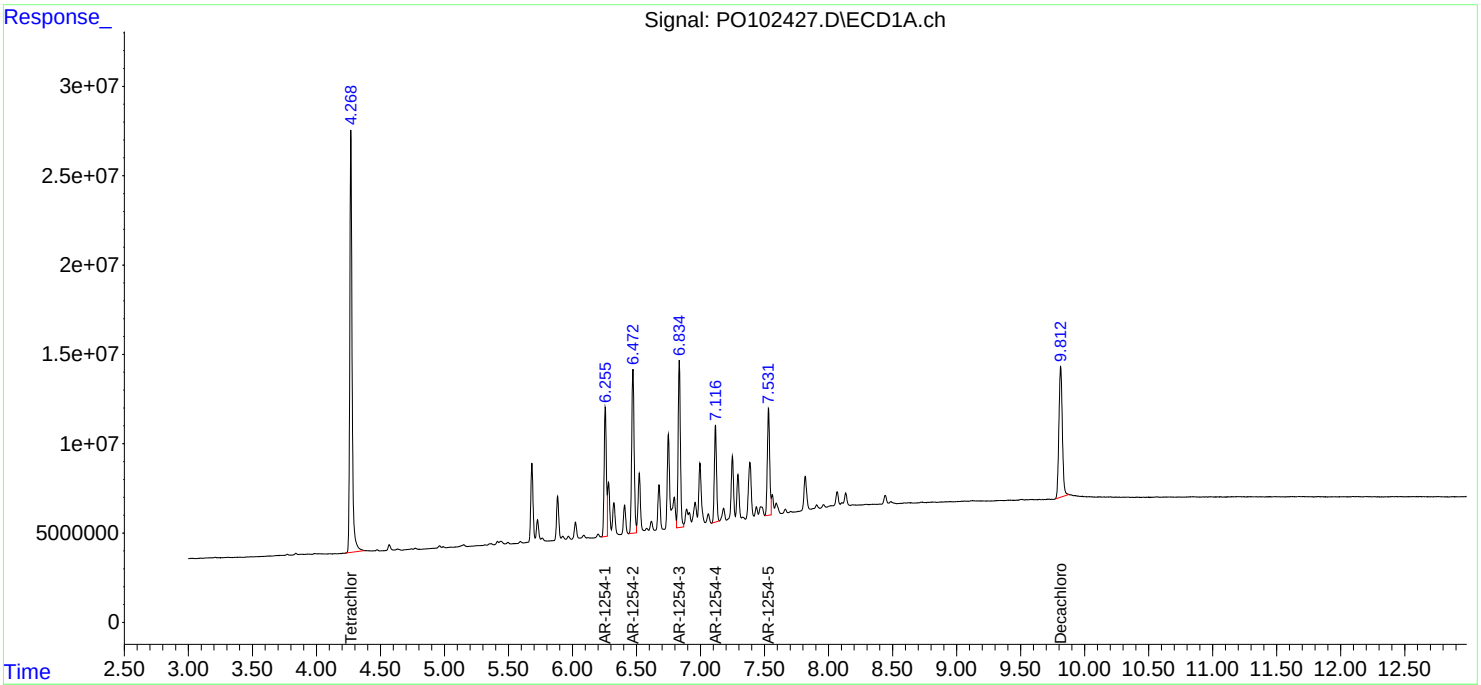
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

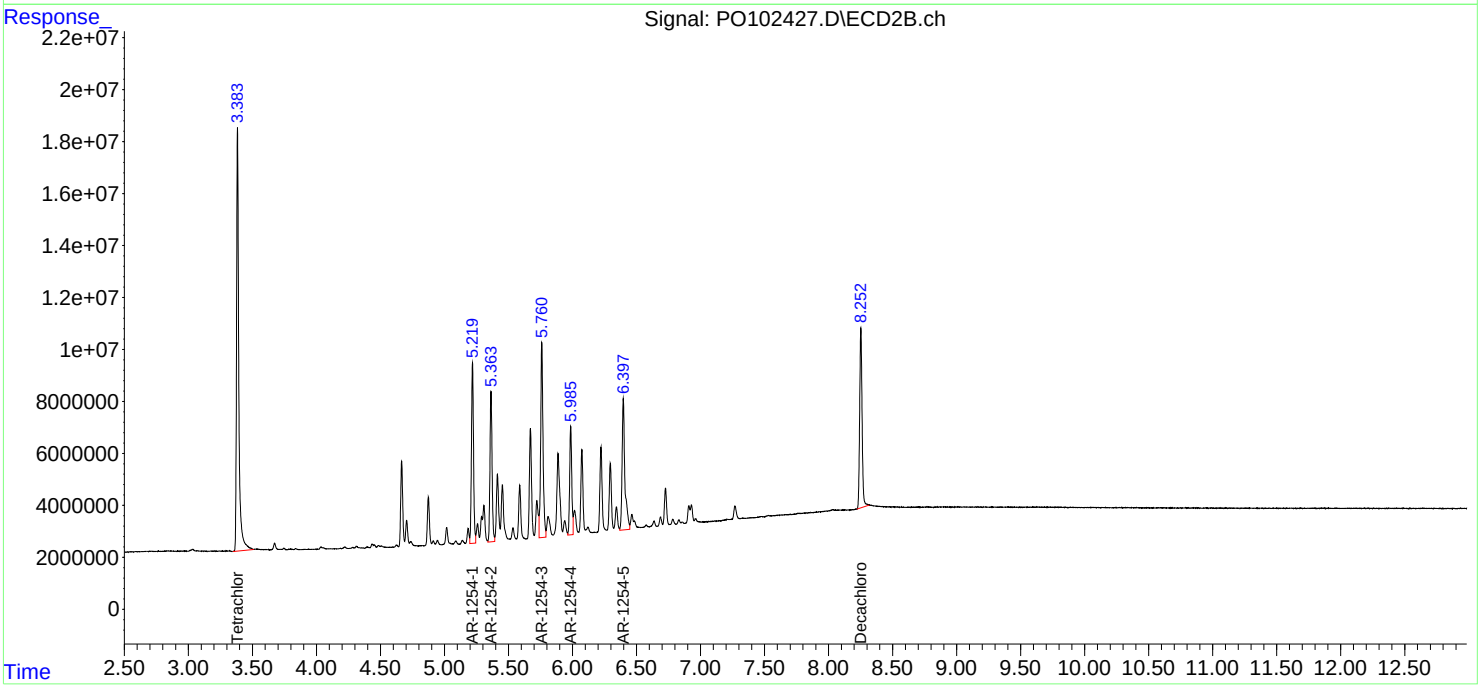
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102427.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:16
Operator : YP/AJ
Sample : AR1254ICC750
Misc :
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:06:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102428.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:33
Operator : YP/AJ
Sample : AR1254ICC500
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:23:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 197.7E6 | 135.9E6 | 50.000 | 50.000 |
| 2) | SA Decachlor... | 9.812 | 8.252 | 94125417 | 62330378 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 26) | L6 AR-1254-1 | 6.256 | 5.219 | 60481065 | 54114471 | 500.000 | 500.000 |
| 27) | L6 AR-1254-2 | 6.471 | 5.364 | 84843620 | 46564221 | 500.000 | 500.000 |
| 28) | L6 AR-1254-3 | 6.834 | 5.760 | 78712919 | 67250850 | 500.000 | 500.000 |
| 29) | L6 AR-1254-4 | 7.116 | 5.986 | 44771153 | 32583718 | 500.000 | 500.000 |
| 30) | L6 AR-1254-5 | 7.531 | 6.396 | 52976807 | 52933808 | 500.000 | 500.000 |

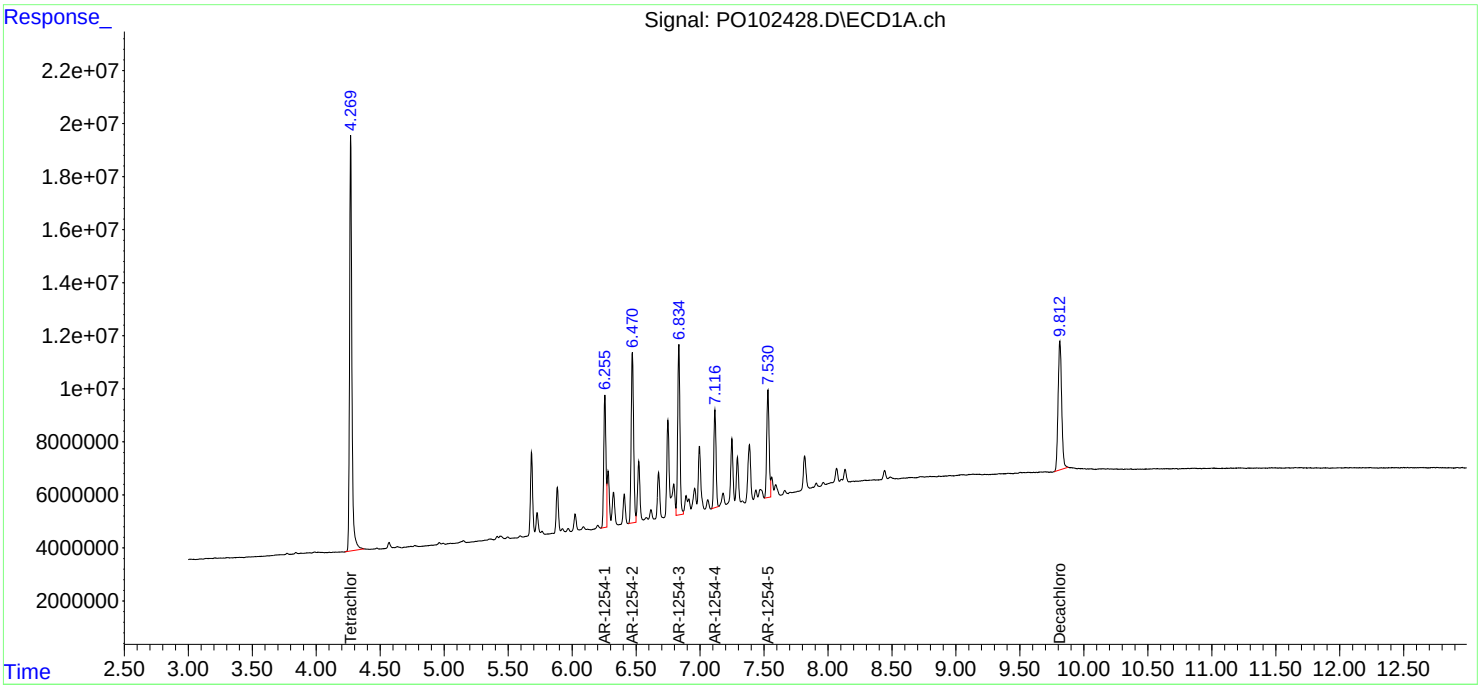
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

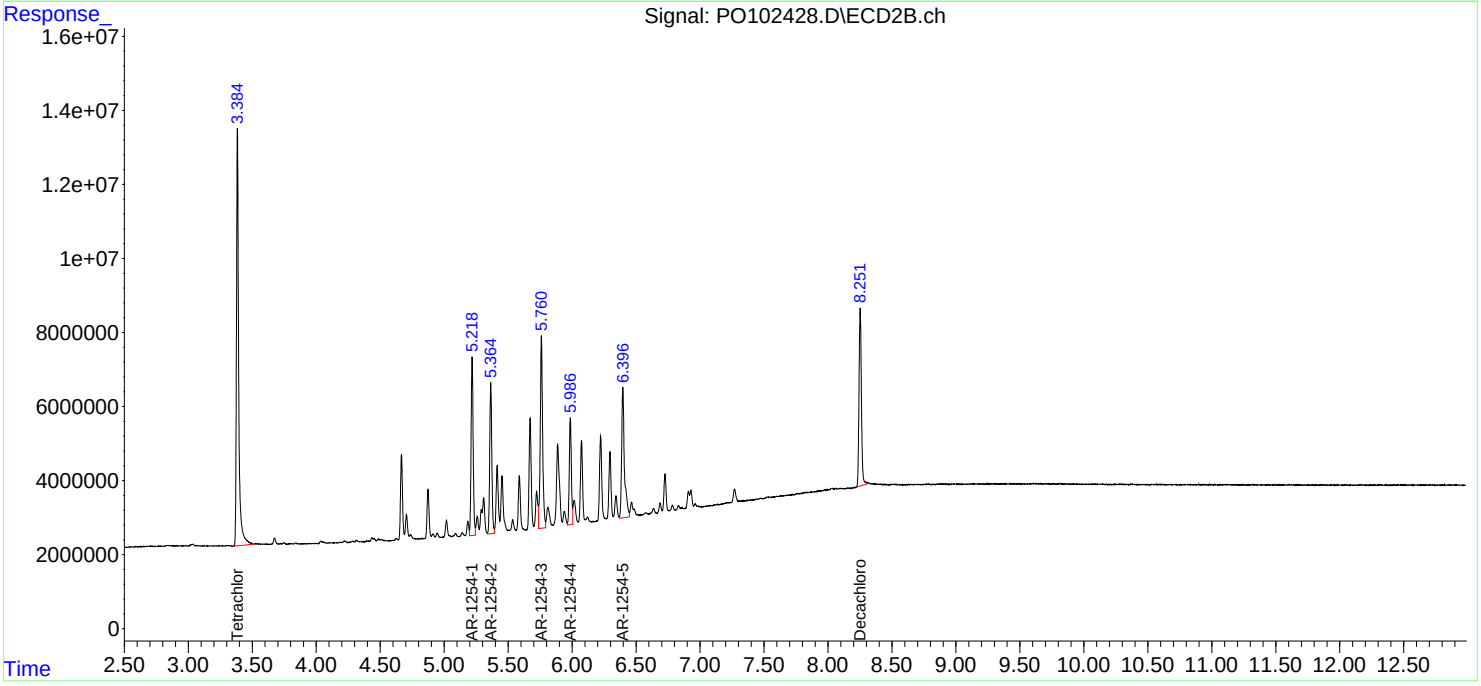
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102428.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:33
Operator : YP/AJ
Sample : AR1254ICC500
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:23:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102429.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:50
Operator : YP/AJ
Sample : AR1254ICC250
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:08:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.383 | 100.3E6 | 69274037 | 25.570 | 25.844 |
| 2) | SA Decachlor... | 9.812 | 8.252 | 47955482 | 31614340 | 25.988 | 25.778 |
| | Target Compounds | | | | | | |
| 26) | L6 AR-1254-1 | 6.256 | 5.218 | 31491722 | 28405806 | 265.288 | 267.917 |
| 27) | L6 AR-1254-2 | 6.472 | 5.364 | 44482528 | 24447657 | 266.821 | 268.453 |
| 28) | L6 AR-1254-3 | 6.834 | 5.760 | 40404642 | 34544380 | 261.108 | 262.396 |
| 29) | L6 AR-1254-4 | 7.116 | 5.986 | 22714111 | 16650492 | 258.886 | 259.979 |
| 30) | L6 AR-1254-5 | 7.531 | 6.396 | 27425750 | 27302131 | 262.705 | 261.507 |

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

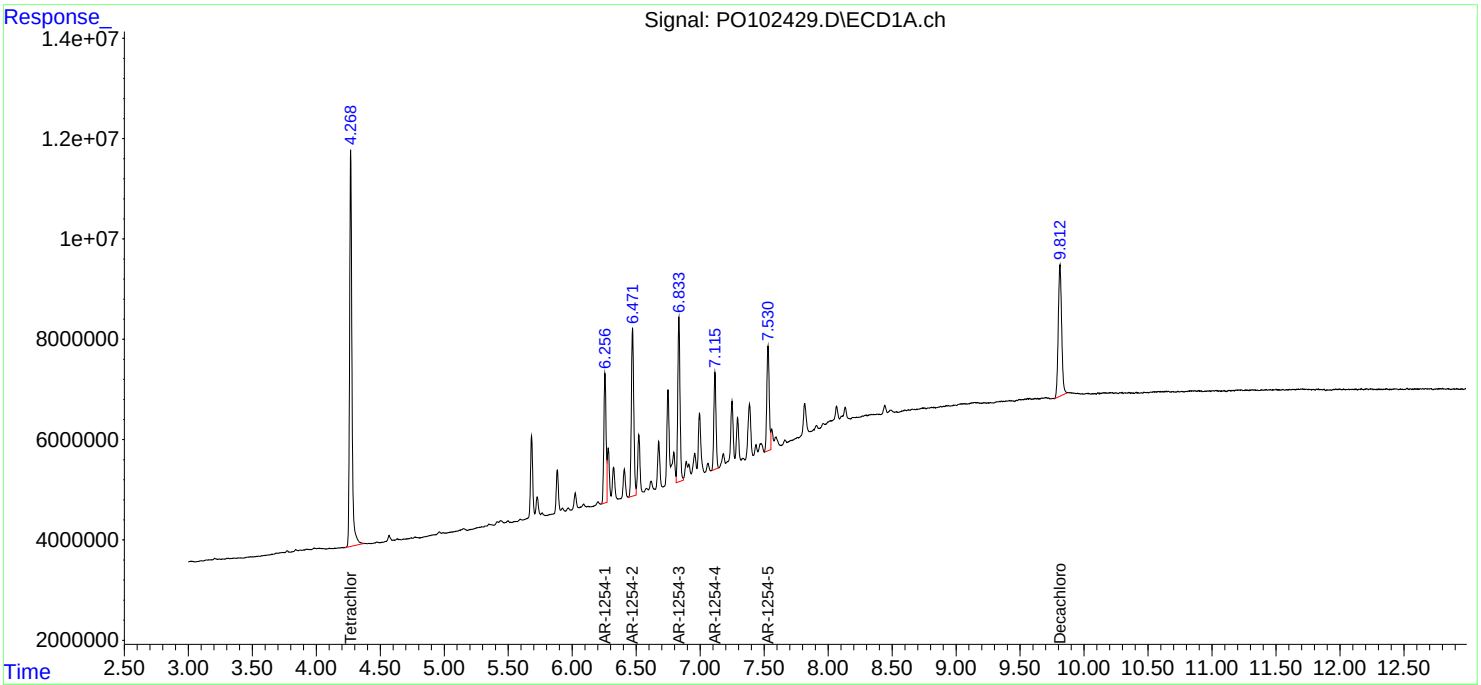
ICAL Form

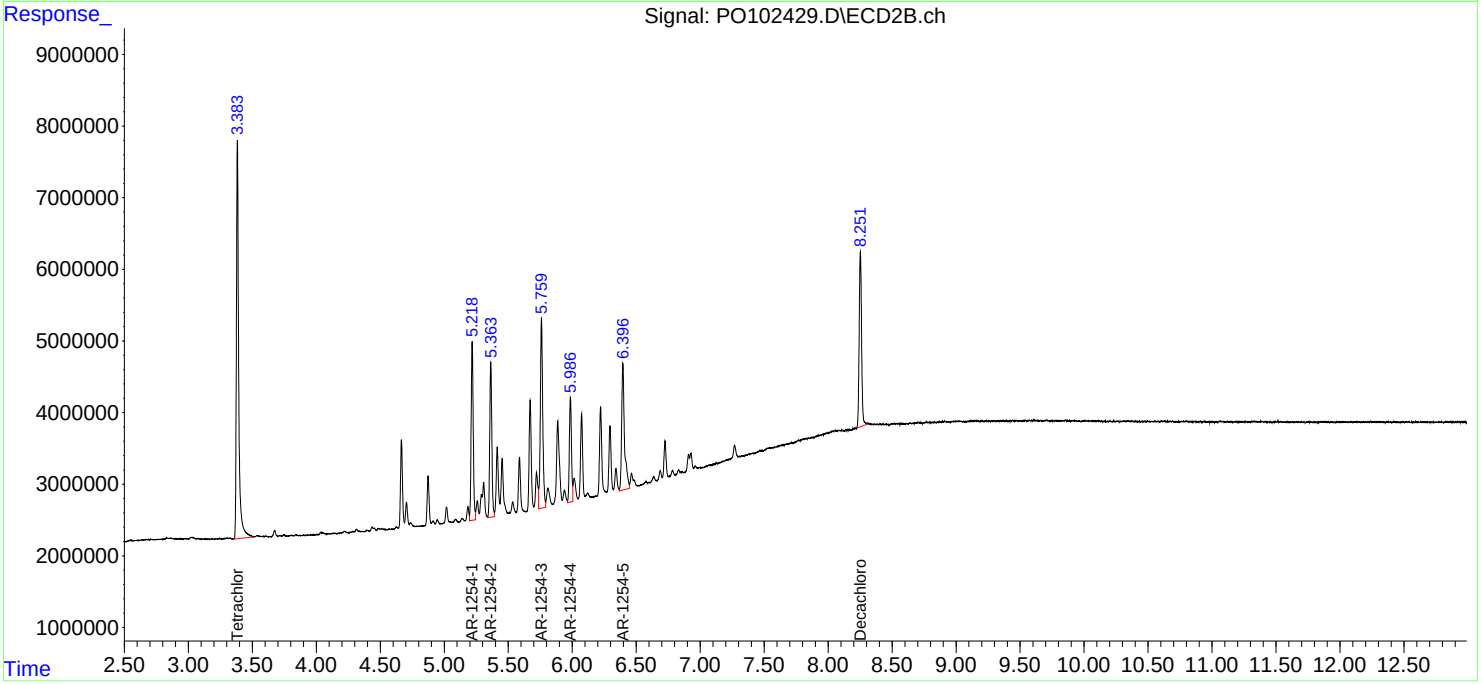
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102429.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 20:50
Operator : YP/AJ
Sample : AR1254ICC250
Misc :
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:08:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102430.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:07
Operator : YP/AJ
Sample : AR1254ICC050
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:11:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.383 | 17700585 | 12672939 | 4.601 | 4.780 |
| 2) | SA Decachlor... | 9.814 | 8.252 | 8611281 | 5770395 | 4.730 | 4.761 |
| | Target Compounds | | | | | | |
| 26) | L6 AR-1254-1 | 6.257 | 5.218 | 5783014 | 5358668 | 48.968 | 50.432 |
| 27) | L6 AR-1254-2 | 6.472 | 5.363 | 8255913 | 4555545 | 49.617 | 50.019 |
| 28) | L6 AR-1254-3 | 6.834 | 5.759 | 7383026 | 6166616 | 48.152 | 47.440 |
| 29) | L6 AR-1254-4 | 7.116 | 5.986 | 3925443 | 2912948 | 45.702 | 46.320 |
| 30) | L6 AR-1254-5 | 7.531 | 6.396 | 5196246 | 4978220 | 49.819 | 48.129 |

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

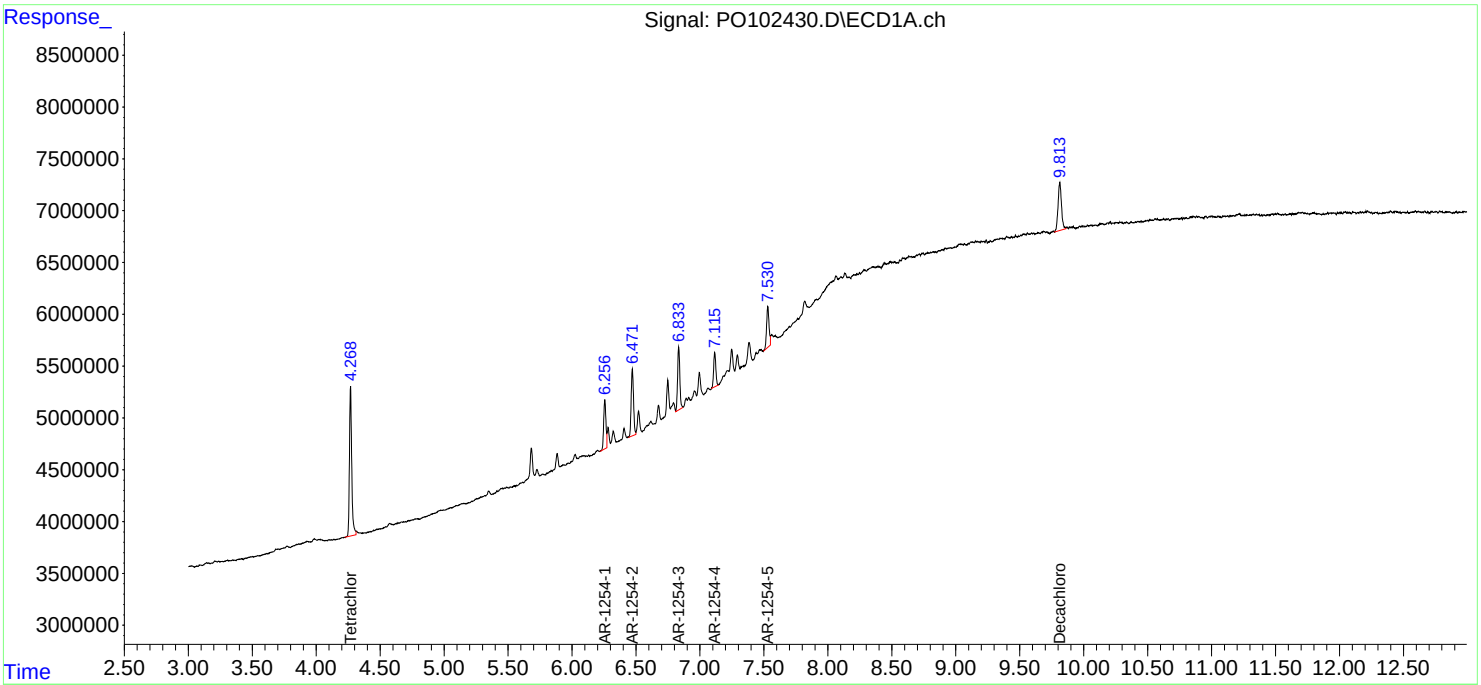
ICAL Form

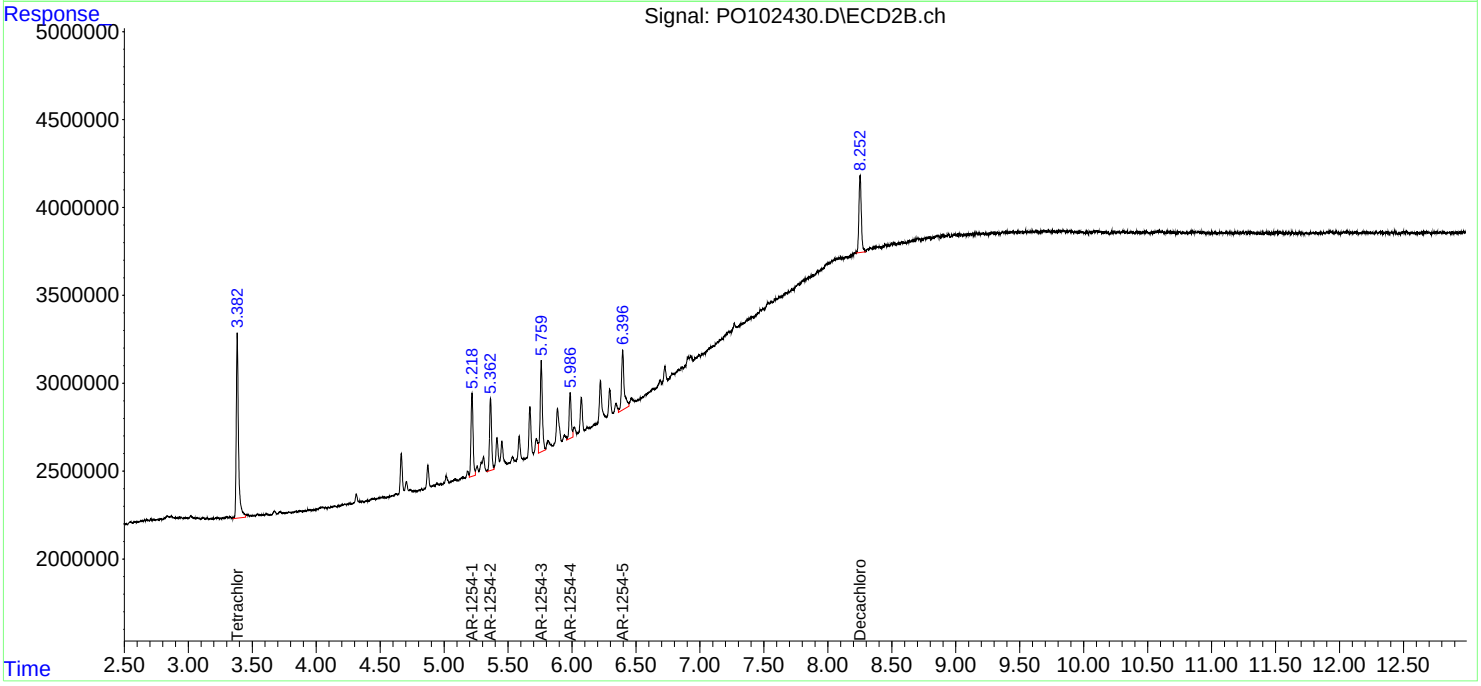
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102430.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:07
Operator : YP/AJ
Sample : AR1254ICC050
Misc :
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1254ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:11:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102431.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:25
Operator : YP/AJ
Sample : AR1262ICC500
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1262ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:19:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:16:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.383 | 266.0E6 | 182.2E6 | 50.000 | 50.000 |
| 2) | SA Decachlor... | 9.812 | 8.252 | 127.6E6 | 85639047 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 36) | L8 AR-1262-1 | 7.528 | 6.395 | 59497772 | 37815258 | 500.000 | 500.000 |
| 37) | L8 AR-1262-2 | 8.133 | 6.687 | 139.8E6 | 72135263 | 500.000 | 500.000 |
| 38) | L8 AR-1262-3 | 8.427 | 7.207 | 97813259 | 51230945 | 500.000 | 500.000 |
| 39) | L8 AR-1262-4 | 8.511 | 7.270 | 76348202 | 87022519 | 500.000 | 500.000 |
| 40) | L8 AR-1262-5 | 9.122 | 7.761 | 47592077 | 35030080 | 500.000 | 500.000 |

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

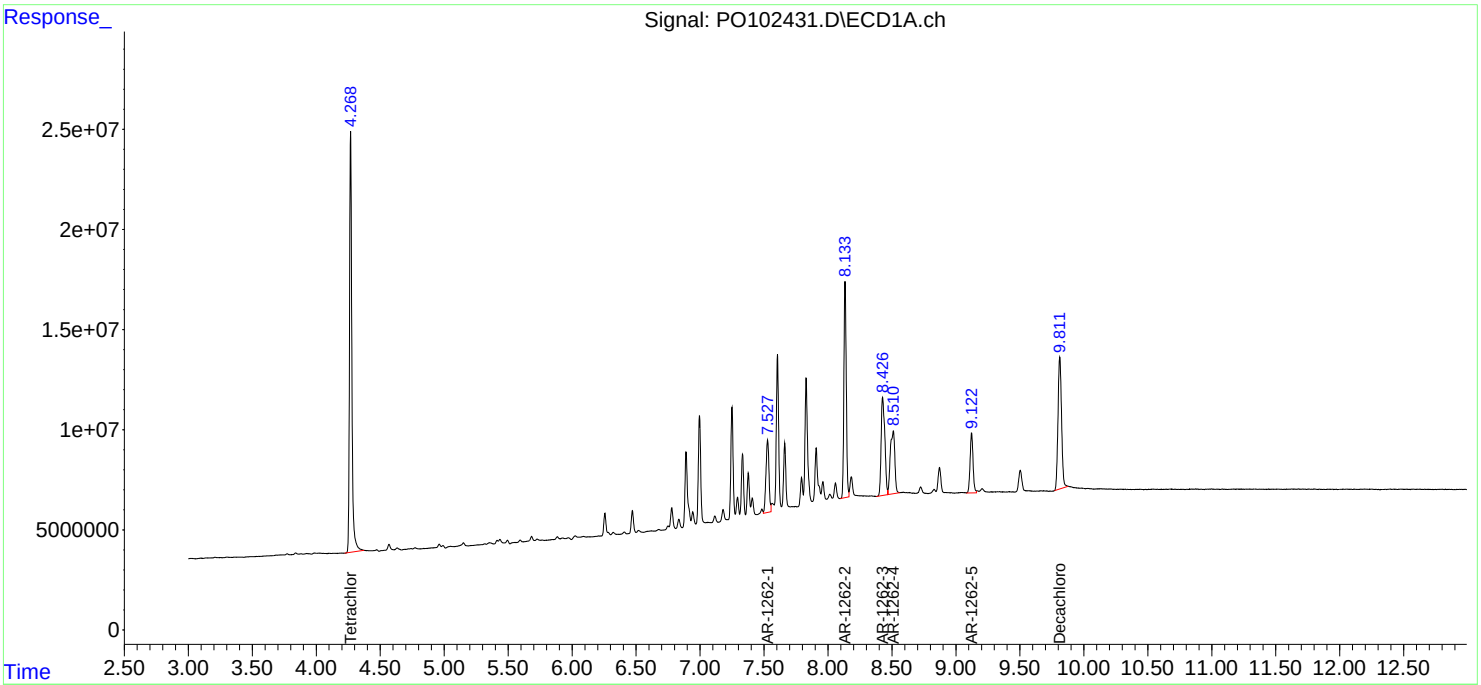
ICAL Form

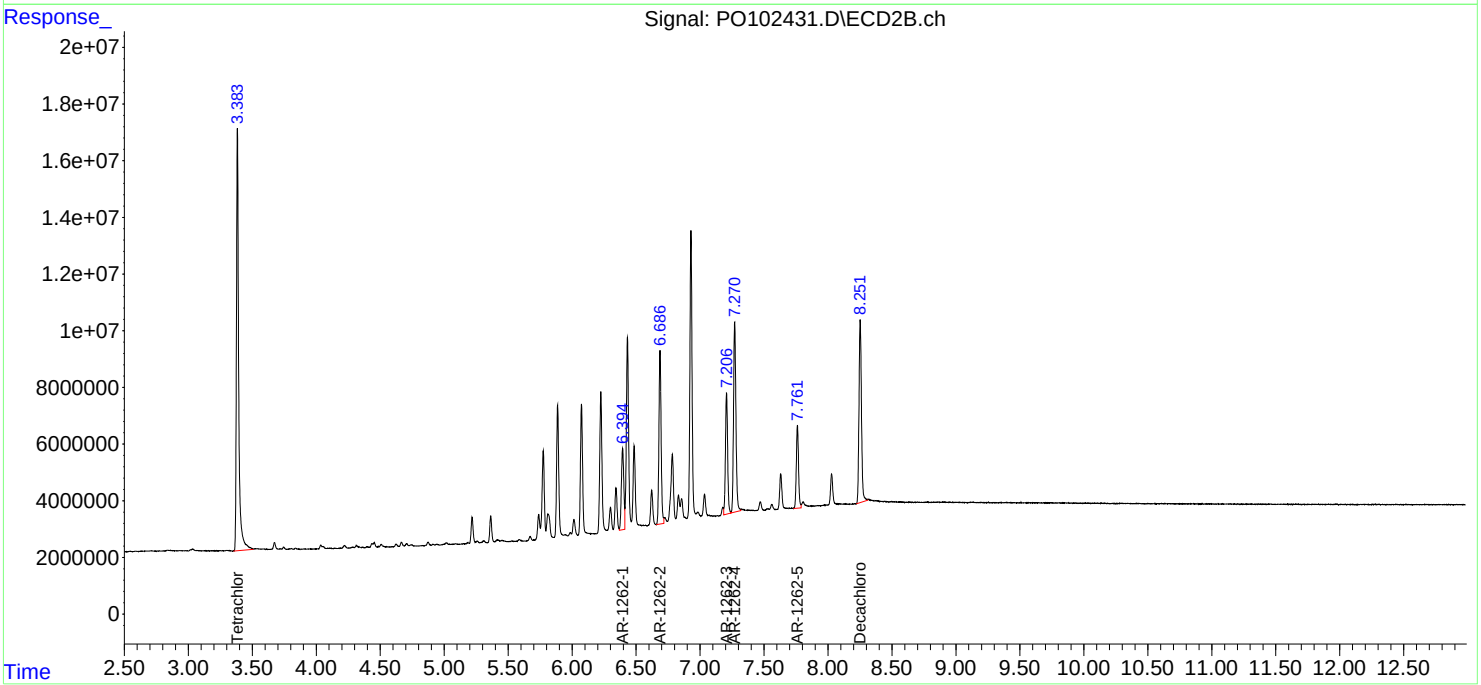
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102431.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:25
Operator : YP/AJ
Sample : AR1262ICC500
Misc :
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1262ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:19:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:16:52 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102432.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:42
Operator : YP/AJ
Sample : AR1268ICC1000
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:33:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:33:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.383 | 390.9E6 | 267.4E6 | 97.585 | 97.666 |
| 2) | SA Decachlor... | 9.812 | 8.252 | 318.0E6 | 214.4E6 | 97.617 | 97.458 |
| | Target Compounds | | | | | | |
| 41) | L9 AR-1268-1 | 8.424 | 7.207 | 259.1E6 | 209.1E6 | 971.876 | 976.446 |
| 42) | L9 AR-1268-2 | 8.512 | 7.271 | 231.4E6 | 190.0E6 | 973.891 | 978.909 |
| 43) | L9 AR-1268-3 | 8.724 | 7.472 | 214.9E6 | 178.1E6 | 972.249 | 979.451 |
| 44) | L9 AR-1268-4 | 9.121 | 8.029 | 71387399 | 433.2E6 | 975.271 | 987.726 |
| 45) | L9 AR-1268-5 | 9.503 | 8.252 | 616.0E6 | 214.4E6 | 981.943 | 974.583 |

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

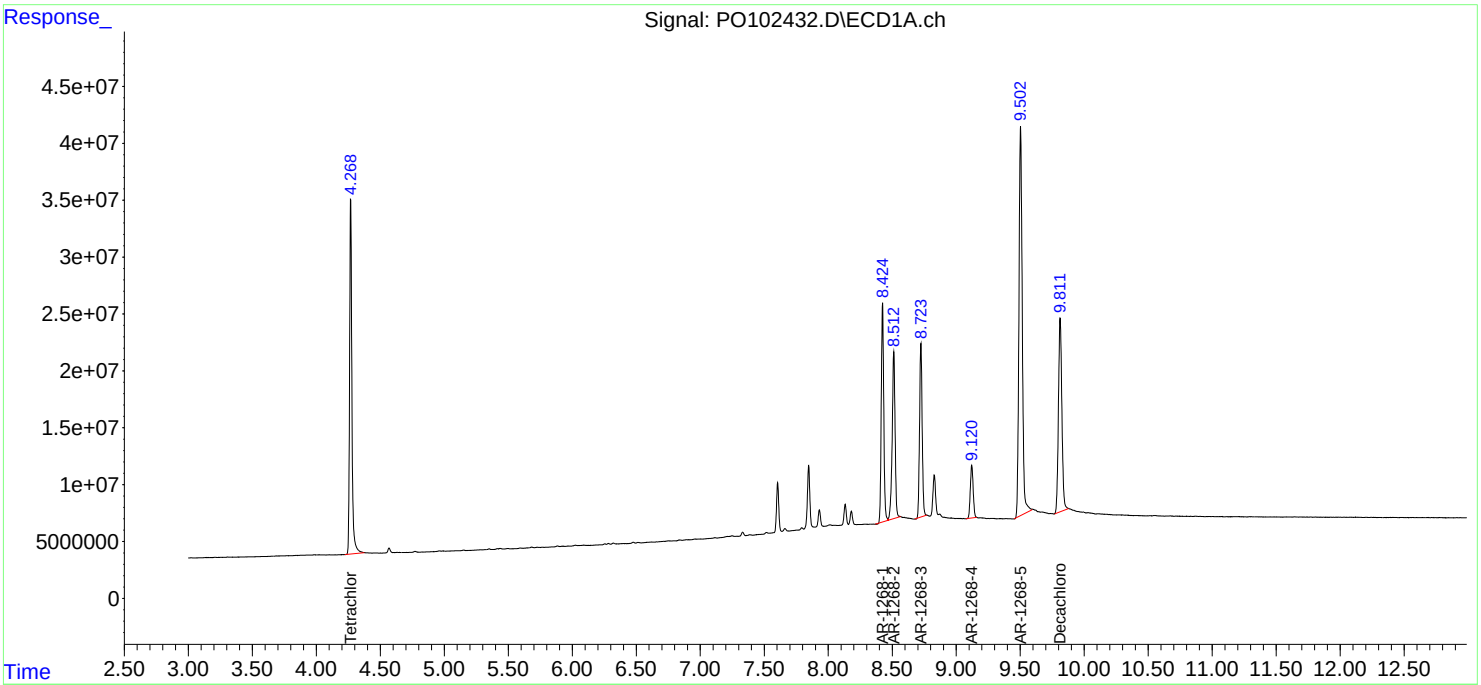
ICAL Form

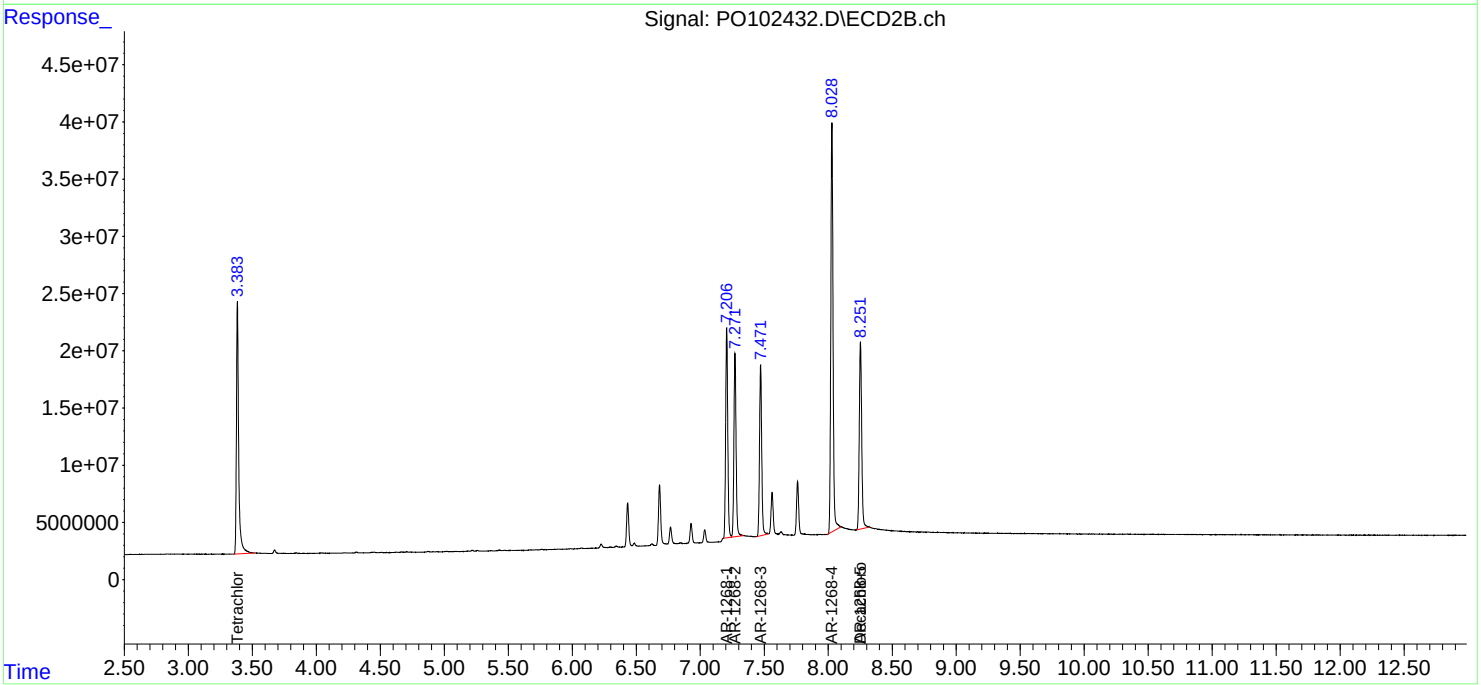
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102432.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:42
Operator : YP/AJ
Sample : AR1268ICC1000
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:33:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:33:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102433.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:59
Operator : YP/AJ
Sample : AR1268ICC750
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:35:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:35:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.383 | 297.5E6 | 203.1E6 | 74.518 | 74.459 |
| 2) | SA Decachlor... | 9.812 | 8.252 | 239.5E6 | 162.0E6 | 73.996 | 74.107 |
| | Target Compounds | | | | | | |
| 41) | L9 AR-1268-1 | 8.426 | 7.207 | 198.0E6 | 158.9E6 | 745.181 | 744.503 |
| 42) | L9 AR-1268-2 | 8.514 | 7.271 | 175.9E6 | 143.2E6 | 743.697 | 741.818 |
| 43) | L9 AR-1268-3 | 8.726 | 7.471 | 163.2E6 | 133.7E6 | 742.275 | 740.301 |
| 44) | L9 AR-1268-4 | 9.123 | 8.029 | 54153688 | 323.0E6 | 743.189 | 740.896 |
| 45) | L9 AR-1268-5 | 9.505 | 8.252 | 462.7E6 | 162.0E6 | 741.756 | 741.075 |

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

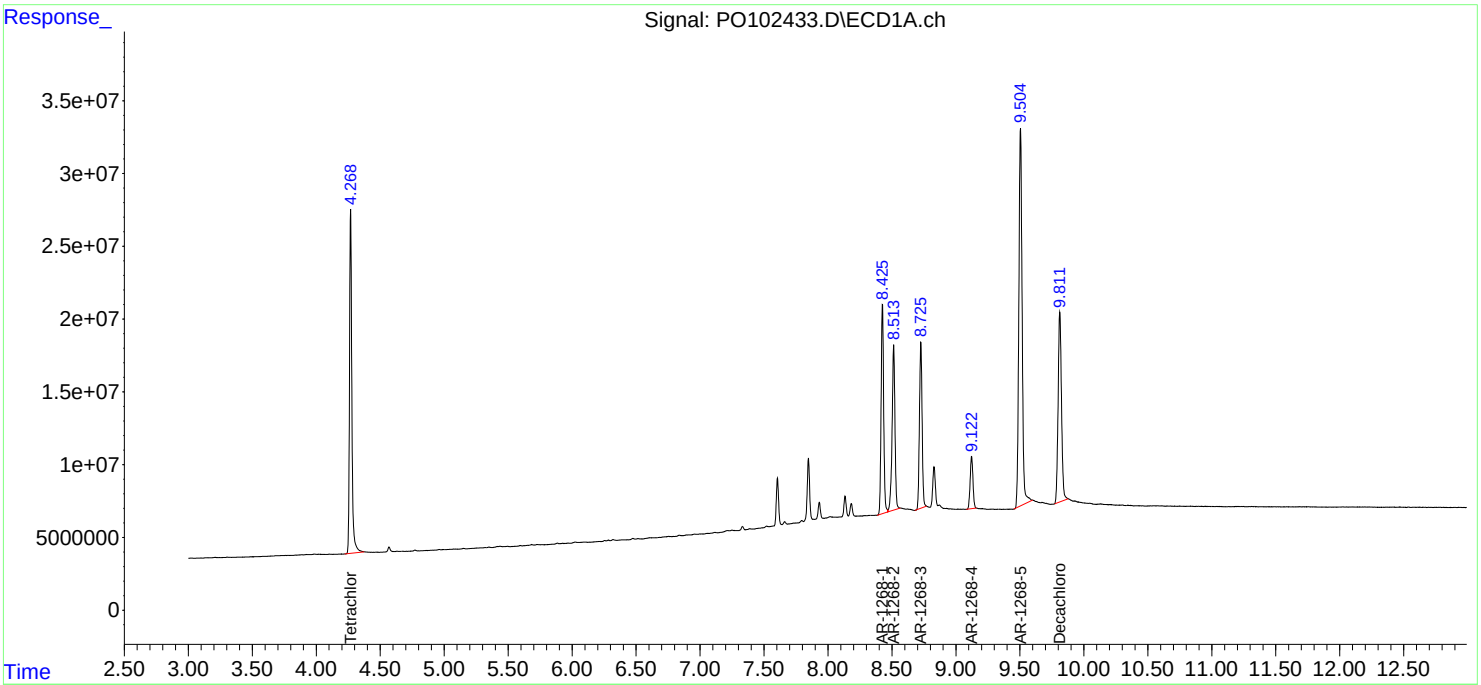
ICAL Form

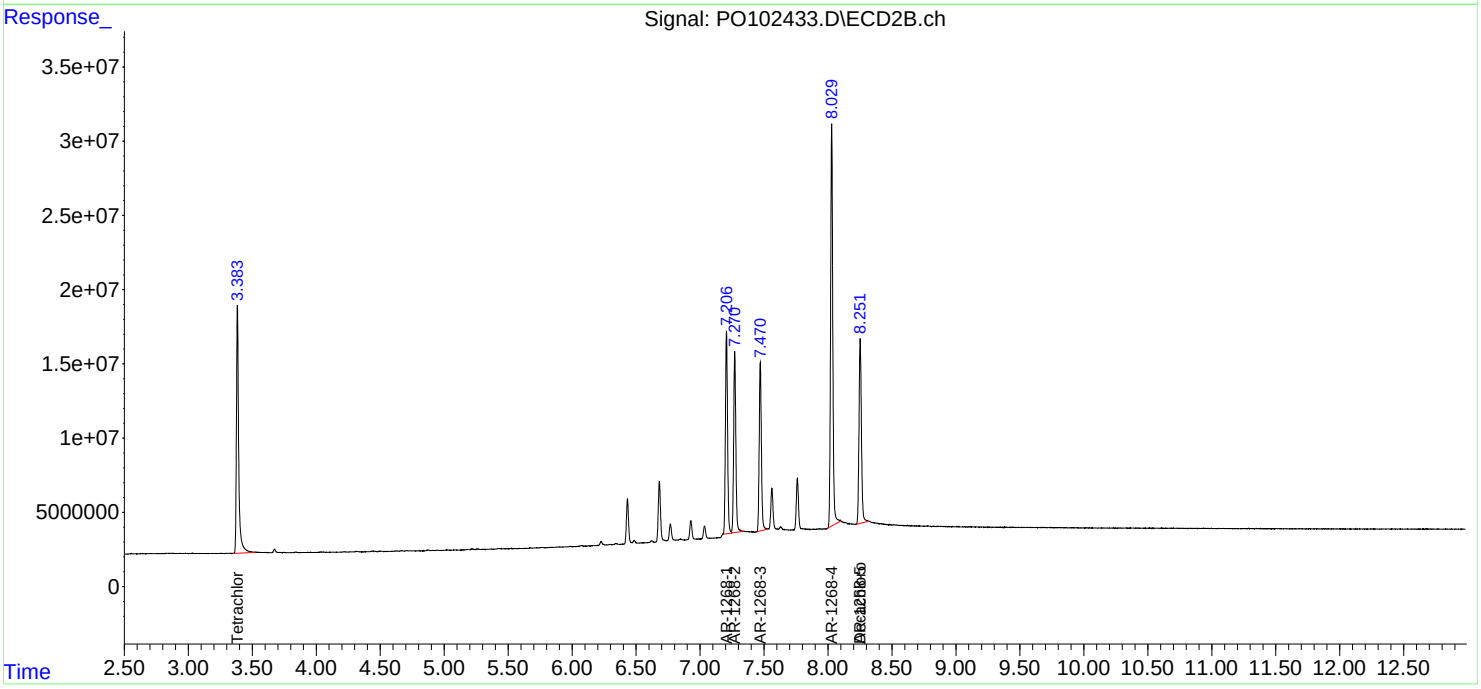
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102433.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 21:59
Operator : YP/AJ
Sample : AR1268ICC750
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:35:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:35:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102434.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:16
Operator : YP/AJ
Sample : AR1268ICC500
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:30:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:27:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.384 | 205.1E6 | 140.1E6 | 50.000 | 50.000 |
| 2) | SA Decachlor... | 9.814 | 8.252 | 166.8E6 | 112.8E6 | 50.000 | 50.000 |
| | Target Compounds | | | | | | |
| 41) | L9 AR-1268-1 | 8.426 | 7.207 | 137.1E6 | 109.6E6 | 500.000 | 500.000 |
| 42) | L9 AR-1268-2 | 8.512 | 7.271 | 121.9E6 | 99084459 | 500.000 | 500.000 |
| 43) | L9 AR-1268-3 | 8.724 | 7.472 | 113.6E6 | 92782216 | 500.000 | 500.000 |
| 44) | L9 AR-1268-4 | 9.123 | 8.029 | 37503805 | 222.0E6 | 500.000 | 500.000 |
| 45) | L9 AR-1268-5 | 9.504 | 8.252 | 319.3E6 | 112.8E6 | 500.000 | 500.000 |

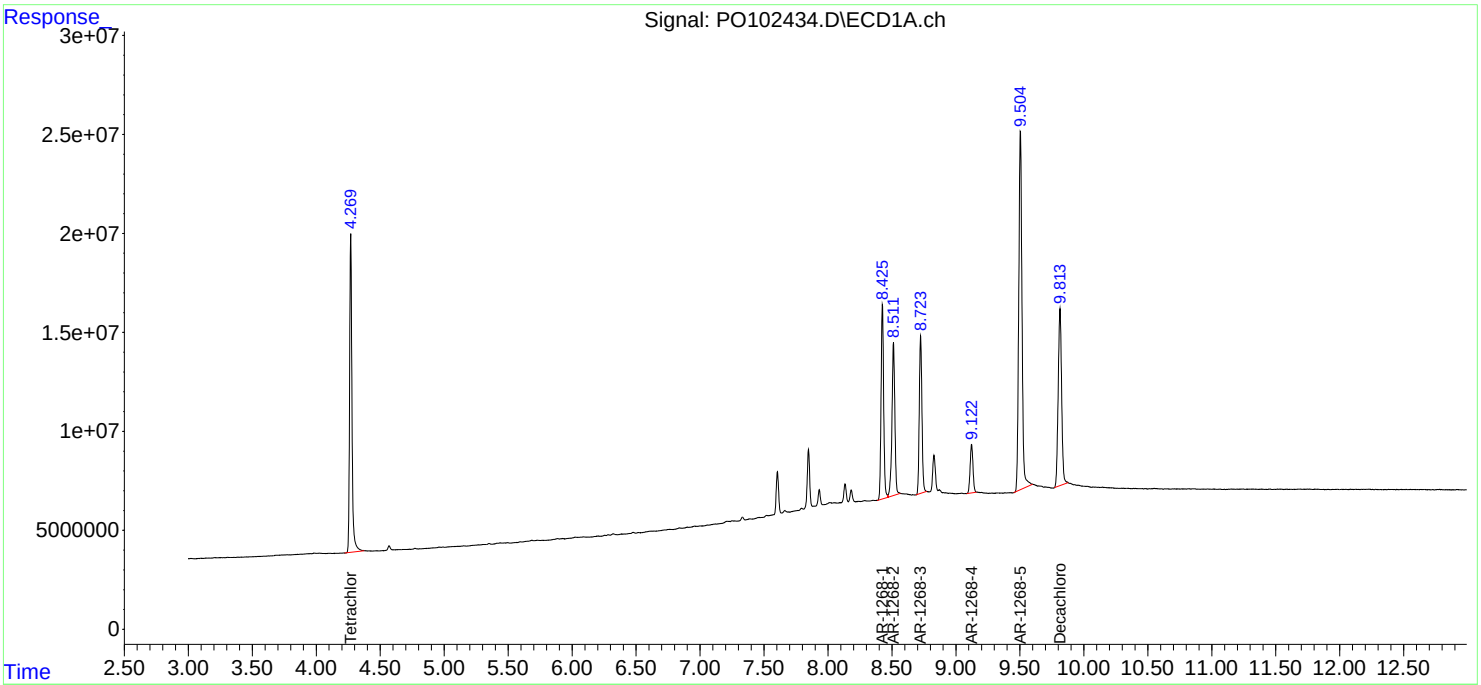
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

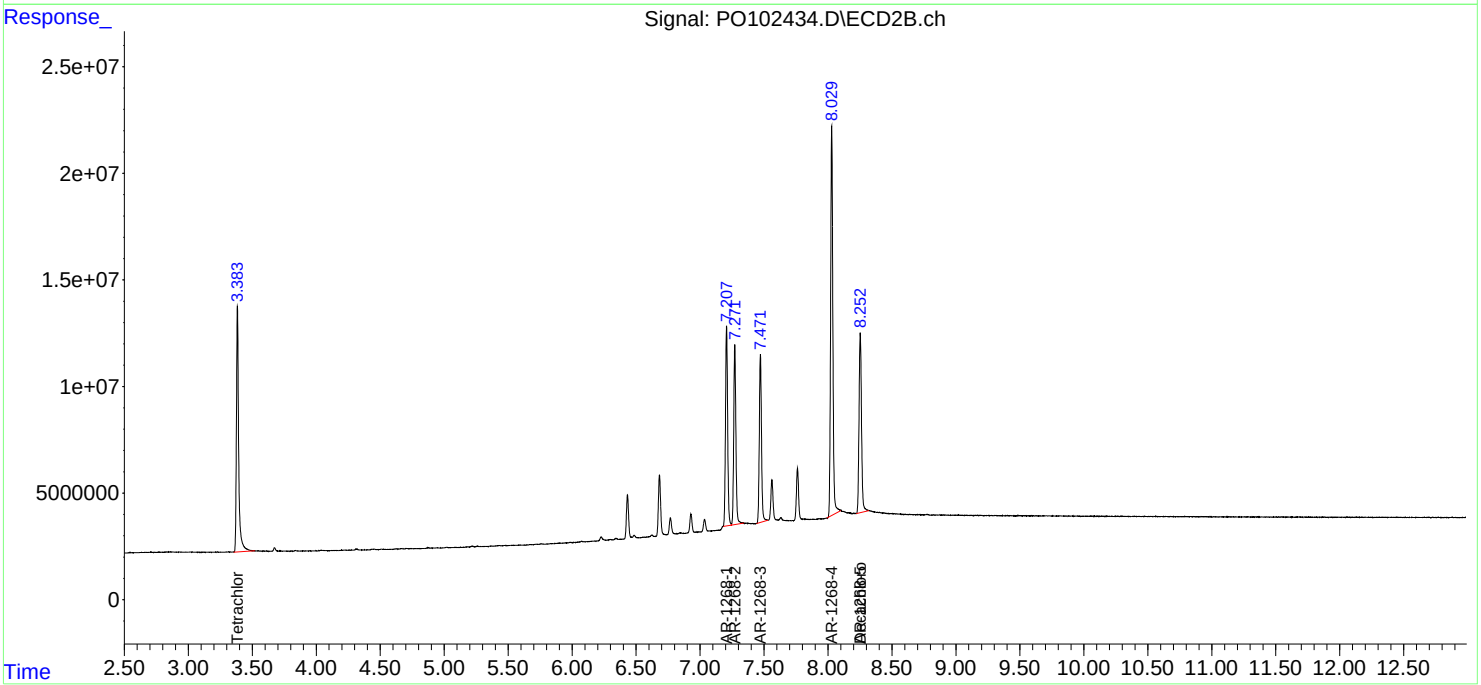
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102434.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:16
Operator : YP/AJ
Sample : AR1268ICC500
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:30:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:27:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102435.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:33
Operator : YP/AJ
Sample : AR1268ICC250
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:37:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:37:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 104.5E6 | 71579043 | 25.870 | 25.915 |
| 2) | SA Decachlor... | 9.812 | 8.251 | 84694156 | 56851961 | 25.867 | 25.742 |
| | Target Compounds | | | | | | |
| 41) | L9 AR-1268-1 | 8.425 | 7.206 | 69003553 | 55619850 | 257.166 | 257.899 |
| 42) | L9 AR-1268-2 | 8.514 | 7.271 | 62263087 | 49876630 | 259.771 | 256.246 |
| 43) | L9 AR-1268-3 | 8.724 | 7.471 | 57199430 | 46538904 | 257.531 | 255.661 |
| 44) | L9 AR-1268-4 | 9.122 | 8.027 | 18976717 | 110.5E6 | 257.742 | 252.682 |
| 45) | L9 AR-1268-5 | 9.503 | 8.251 | 159.1E6 | 56851961 | 253.702 | 257.421 |

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

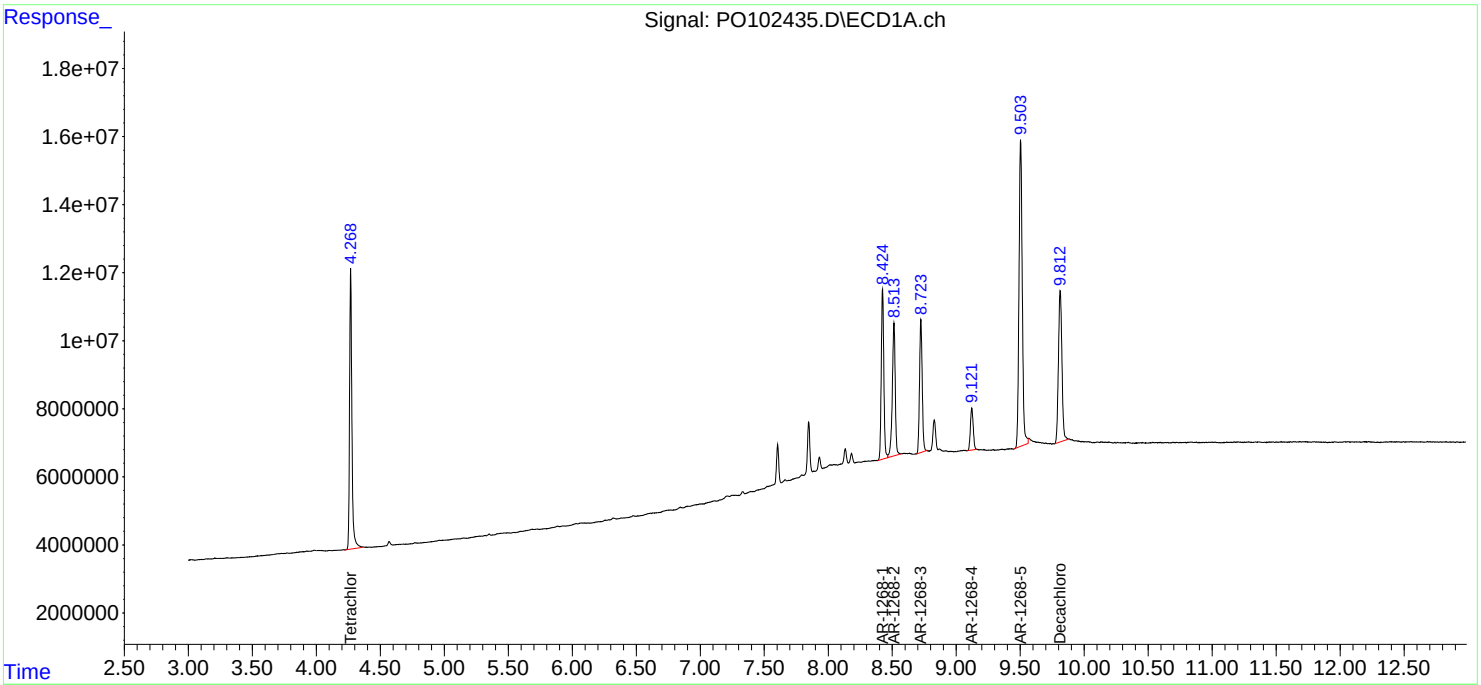
ICAL Form

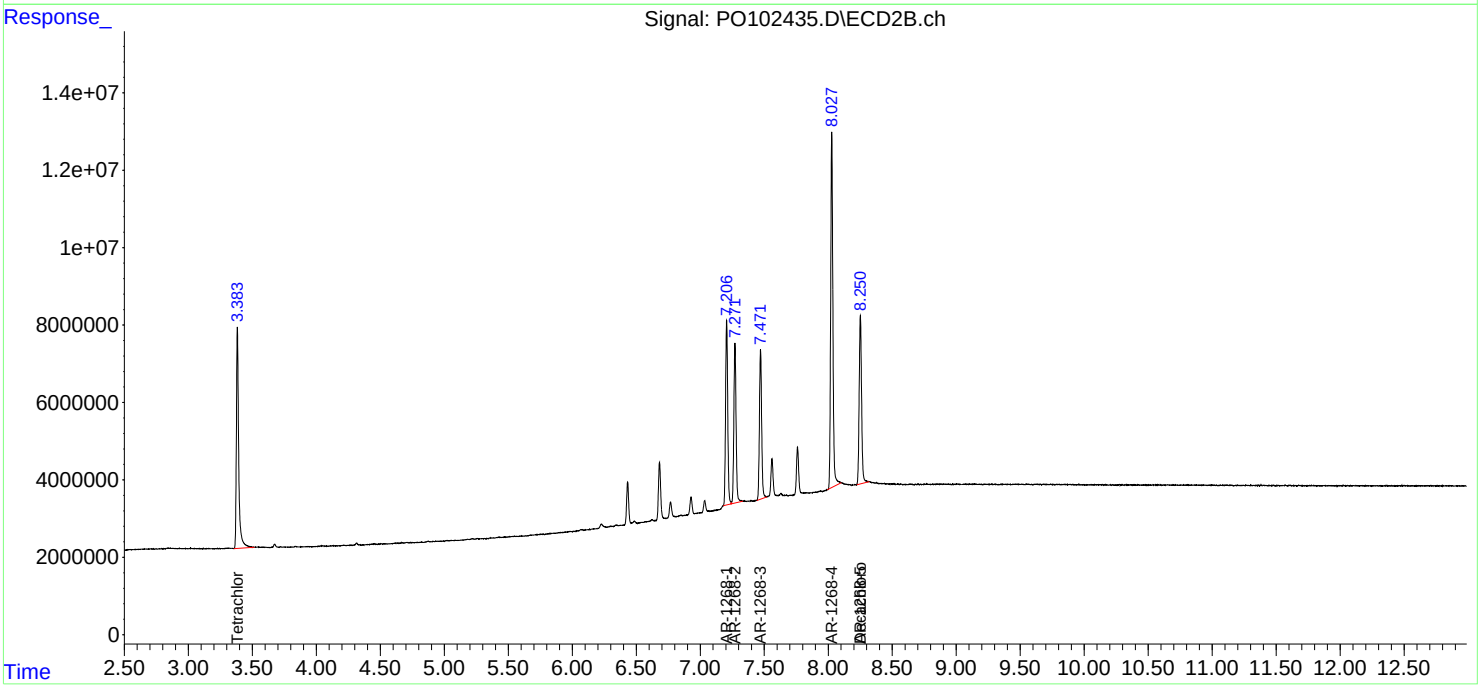
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102435.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:33
Operator : YP/AJ
Sample : AR1268ICC250
Misc :
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC250

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:37:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:37:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102436.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:50
Operator : YP/AJ
Sample : AR1268ICC050
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:40:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:40:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 18412166 | 12876653 | 4.640 | 4.726 |
| 2) | SA Decachlor... | 9.811 | 8.252 | 15657423 | 9956776 | 4.824 | 4.599 |
| | Target Compounds | | | | | | |
| 41) | L9 AR-1268-1 | 8.425 | 7.206 | 12250906 | 10350580 | 46.464 | 48.382 |
| 42) | L9 AR-1268-2 | 8.513 | 7.271 | 11180863 | 9146484 | 47.282 | 47.563 |
| 43) | L9 AR-1268-3 | 8.724 | 7.471 | 10279253 | 8404240 | 46.980 | 46.887 |
| 44) | L9 AR-1268-4 | 9.122 | 8.028 | 3456028 | 19561848 | 47.522 | 45.682 |
| 45) | L9 AR-1268-5 | 9.502 | 8.252 | 28116240 | 9956776 | 45.790 | 45.988 |

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

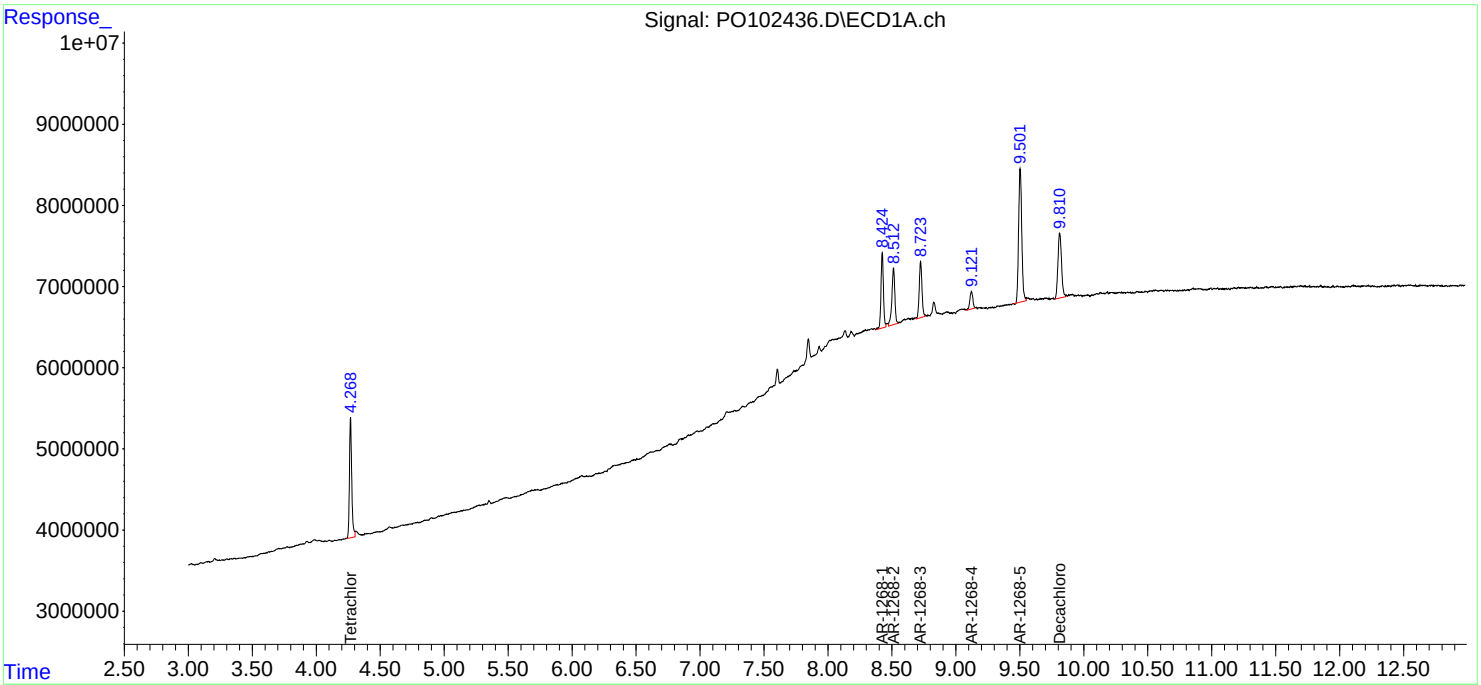
ICAL Form

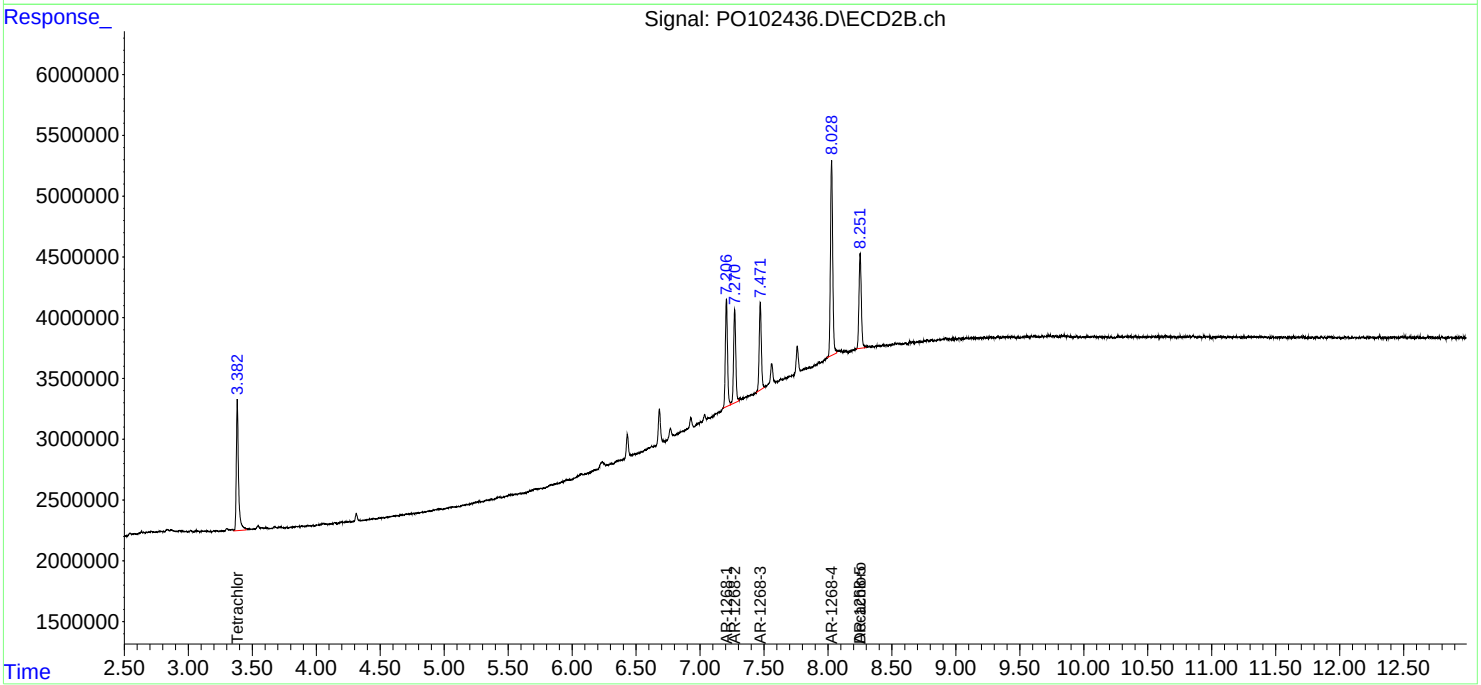
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102436.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 22:50
Operator : YP/AJ
Sample : AR1268ICC050
Misc :
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1268ICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:40:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:40:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102437.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:07
Operator : YP/AJ
Sample : PO031224ICV500
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:27:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:26:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.383 | 218.9E6 | 151.0E6 | 53.394 | 53.907 |
| 2) | SA Decachlor... | 9.811 | 8.251 | 104.1E6 | 70092222 | 54.841 | 56.855 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.413 | 4.435 | 54284343 | 34982913 | 543.352 | 558.284 |
| 4) | L1 AR-1016-2 | 5.435 | 4.452 | 78227520 | 47736073 | 539.368 | 550.296 |
| 5) | L1 AR-1016-3 | 5.496 | 4.625 | 50131940 | 27943364 | 536.488 | 556.025 |
| 6) | L1 AR-1016-4 | 5.593 | 4.665 | 41567120 | 26059107 | 549.484 | 553.790 |
| 7) | L1 AR-1016-5 | 5.884 | 4.874 | 44771980 | 31835846 | 547.174 | 553.727 |
| 31) | L7 AR-1260-1 | 6.994 | 5.886 | 74635020 | 58279693 | 544.935 | 555.338 |
| 32) | L7 AR-1260-2 | 7.249 | 6.073 | 73203242 | 61516417 | 555.613 | 562.661 |
| 33) | L7 AR-1260-3 | 7.604 | 6.223 | 57184378 | 60591880 | 560.883 | 537.284 |
| 34) | L7 AR-1260-4 | 7.828 | 6.687 | 63212722 | 46912954 | 546.567 | 549.896 |
| 35) | L7 AR-1260-5 | 8.133 | 6.929 | 104.5E6 | 90674269 | 537.453 | 559.921 |

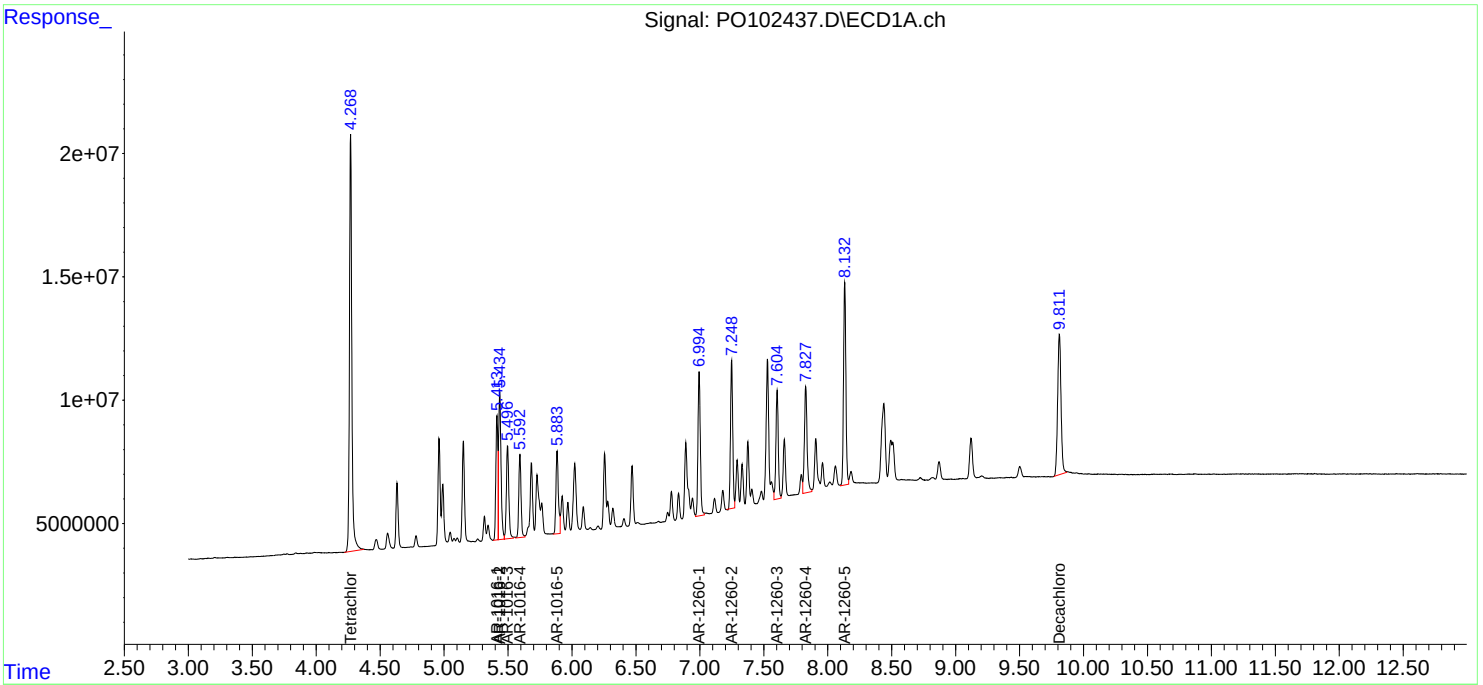
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

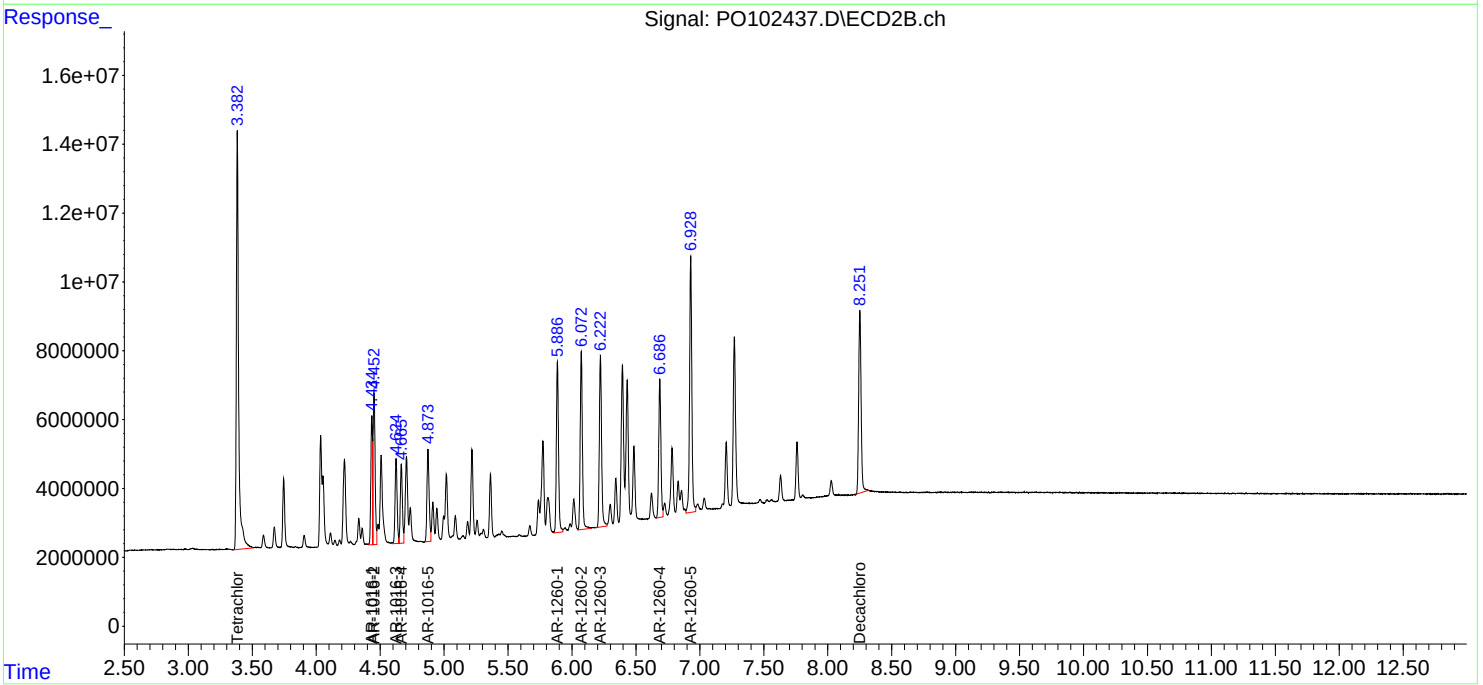
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102437.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:07
Operator : YP/AJ
Sample : PO031224ICV500
Misc :
ALS Vial : 31 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:27:16 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:26:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102438.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:25
Operator : YP/AJ
Sample : AR1242ICV500
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:35:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:32:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.384 | 207.0E6 | 139.1E6 | 53.532 | 52.033 |
| 2) | SA Decachlor... | 9.813 | 8.253 | 95698345 | 64932639 | 52.872 | 54.525 |
| | Target Compounds | | | | | | |
| 16) | L4 AR-1242-1 | 5.414 | 4.436 | 41941667 | 26220729 | 544.677 | 533.186 |
| 17) | L4 AR-1242-2 | 5.436 | 4.454 | 60051248 | 35565366 | 540.167 | 526.152 |
| 18) | L4 AR-1242-3 | 5.497 | 4.625 | 38694069 | 20619671 | 545.558 | 528.749 |
| 19) | L4 AR-1242-4 | 5.594 | 4.707 | 31677996 | 23851083 | 545.389 | 528.448 |
| 20) | L4 AR-1242-5 | 6.320 | 5.219 | 27159105 | 23022862 | 518.662 | 533.053 |

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

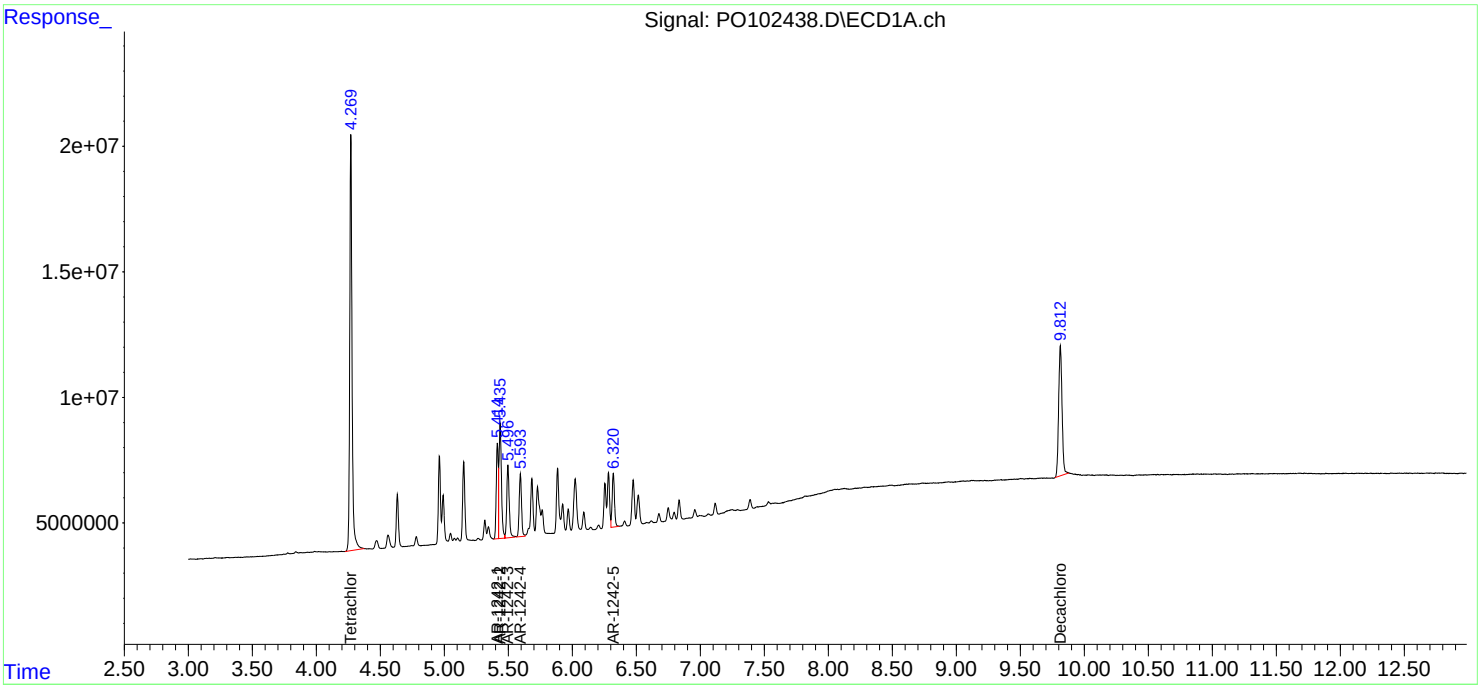
ICAL Form

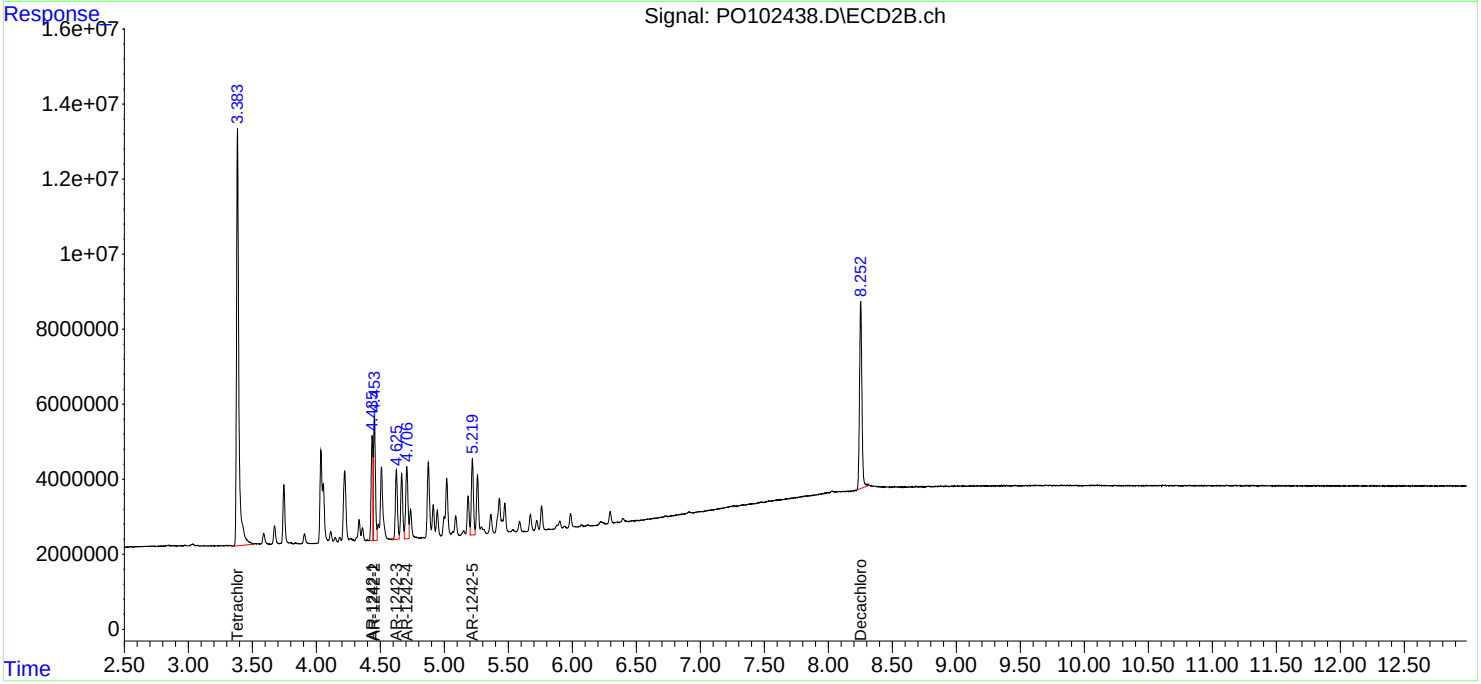
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102438.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:25
Operator : YP/AJ
Sample : AR1242ICV500
Misc :
ALS Vial : 32 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 01:35:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 01:32:40 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102439.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:42
Operator : YP/AJ
Sample : AR1248ICV500
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:04:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:00:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 202.2E6 | 136.5E6 | 53.080 | 52.174 |
| 2) | SA Decachlor... | 9.812 | 8.251 | 95118581 | 64278561 | 52.416 | 53.575 |
| | Target Compounds | | | | | | |
| 21) | L5 AR-1248-1 | 5.413 | 4.435 | 31318244 | 20288285 | 538.263 | 529.606 |
| 22) | L5 AR-1248-2 | 5.683 | 4.666 | 54073239 | 33701978 | 532.004 | 526.225 |
| 23) | L5 AR-1248-3 | 5.884 | 4.706 | 56002413 | 35069307 | 529.324 | 525.085 |
| 24) | L5 AR-1248-4 | 6.282 | 4.874 | 48415830 | 38845732 | 523.994 | 523.885 |
| 25) | L5 AR-1248-5 | 6.320 | 5.259 | 47163017 | 29045172 | 528.502 | 529.088 |

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

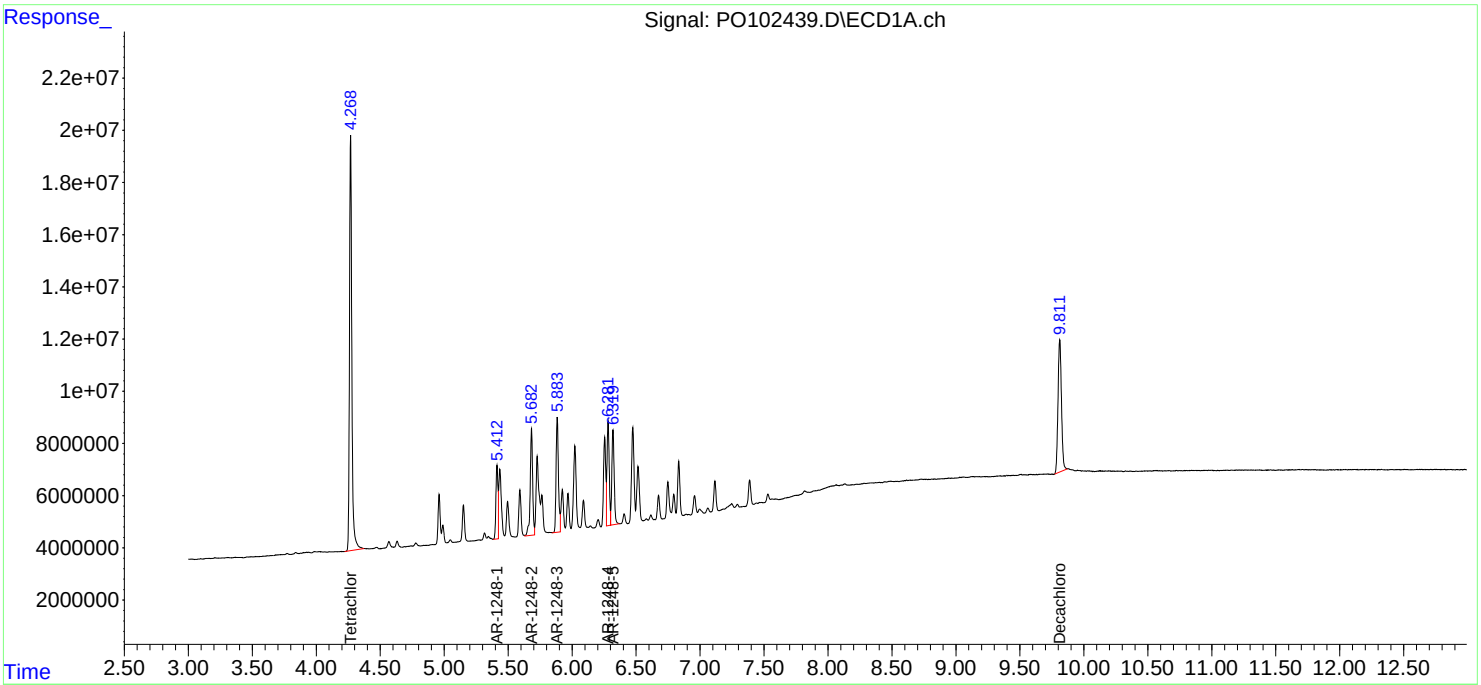
ICAL Form

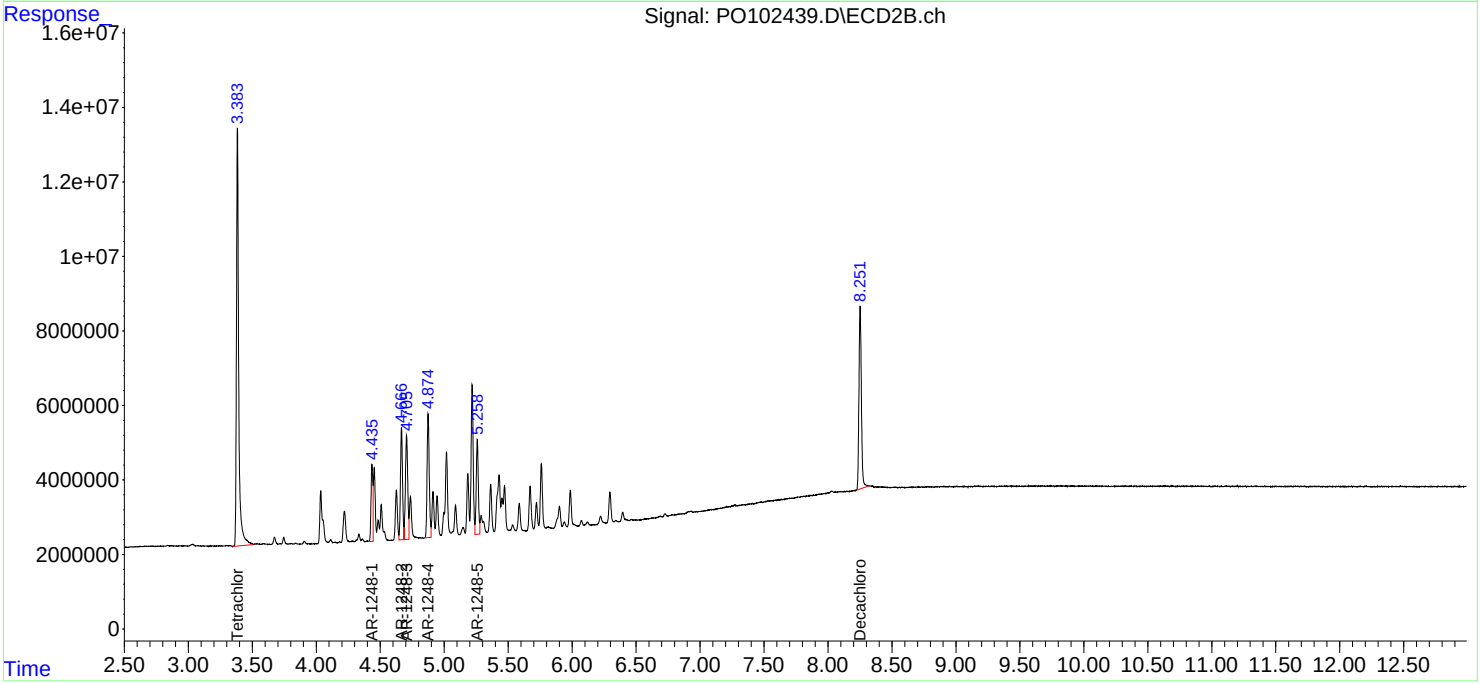
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102439.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:42
Operator : YP/AJ
Sample : AR1248ICV500
Misc :
ALS Vial : 33 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:04:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:00:50 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102440.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:59
Operator : YP/AJ
Sample : AR1254ICV500
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:24:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 204.4E6 | 138.3E6 | 51.711 | 50.873 |
| 2) | SA Decachlor... | 9.812 | 8.252 | 97558929 | 65671993 | 51.824 | 52.681 |
| | Target Compounds | | | | | | |
| 26) | L6 AR-1254-1 | 6.257 | 5.219 | 61585075 | 55695668 | 509.127 | 514.610 |
| 27) | L6 AR-1254-2 | 6.472 | 5.364 | 86563671 | 47870188 | 510.137 | 514.023 |
| 28) | L6 AR-1254-3 | 6.835 | 5.760 | 80869474 | 69722460 | 513.699 | 518.376 |
| 29) | L6 AR-1254-4 | 7.117 | 5.986 | 46819907 | 34514589 | 522.880 | 529.629 |
| 30) | L6 AR-1254-5 | 7.531 | 6.397 | 54893364 | 55330677 | 518.089 | 522.640 |

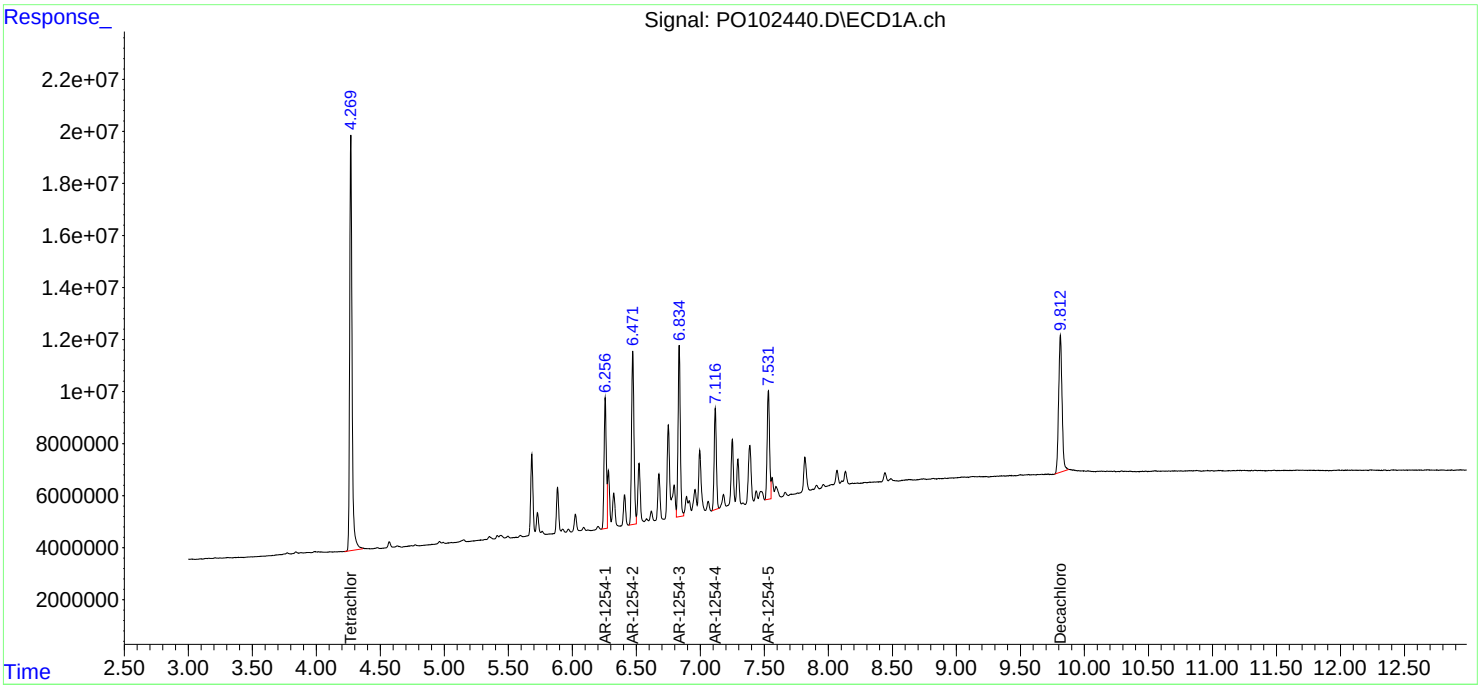
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

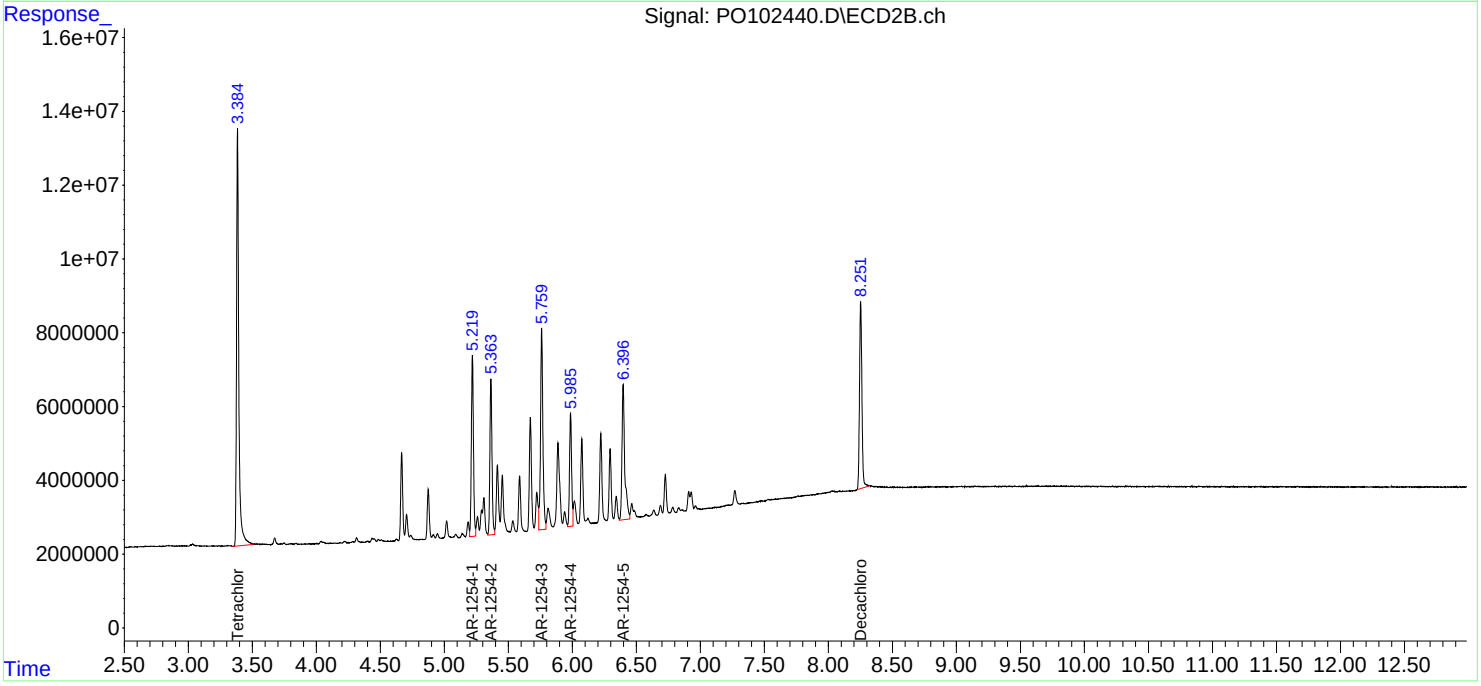
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102440.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 23:59
Operator : YP/AJ
Sample : AR1254ICV500
Misc :
ALS Vial : 34 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 02:24:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 02:21:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102441.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2024 00:16
Operator : YP/AJ
Sample : AR1268ICV500
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:31:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:27:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 206.6E6 | 141.7E6 | 50.358 | 50.572 |
| 2) | SA Decachlor... | 9.812 | 8.251 | 172.1E6 | 115.4E6 | 51.581 | 51.156 |
| | Target Compounds | | | | | | |
| 41) | L9 AR-1268-1 | 8.426 | 7.206 | 139.4E6 | 112.4E6 | 508.517 | 512.922 |
| 42) | L9 AR-1268-2 | 8.513 | 7.272 | 124.4E6 | 101.6E6 | 510.450 | 512.872 |
| 43) | L9 AR-1268-3 | 8.725 | 7.471 | 114.9E6 | 94962697 | 505.822 | 511.751 |
| 44) | L9 AR-1268-4 | 9.122 | 8.029 | 38796840 | 228.9E6 | 517.239 | 515.608 |
| 45) | L9 AR-1268-5 | 9.504 | 8.251 | 327.6E6 | 115.4E6 | 513.005 | 511.558 |

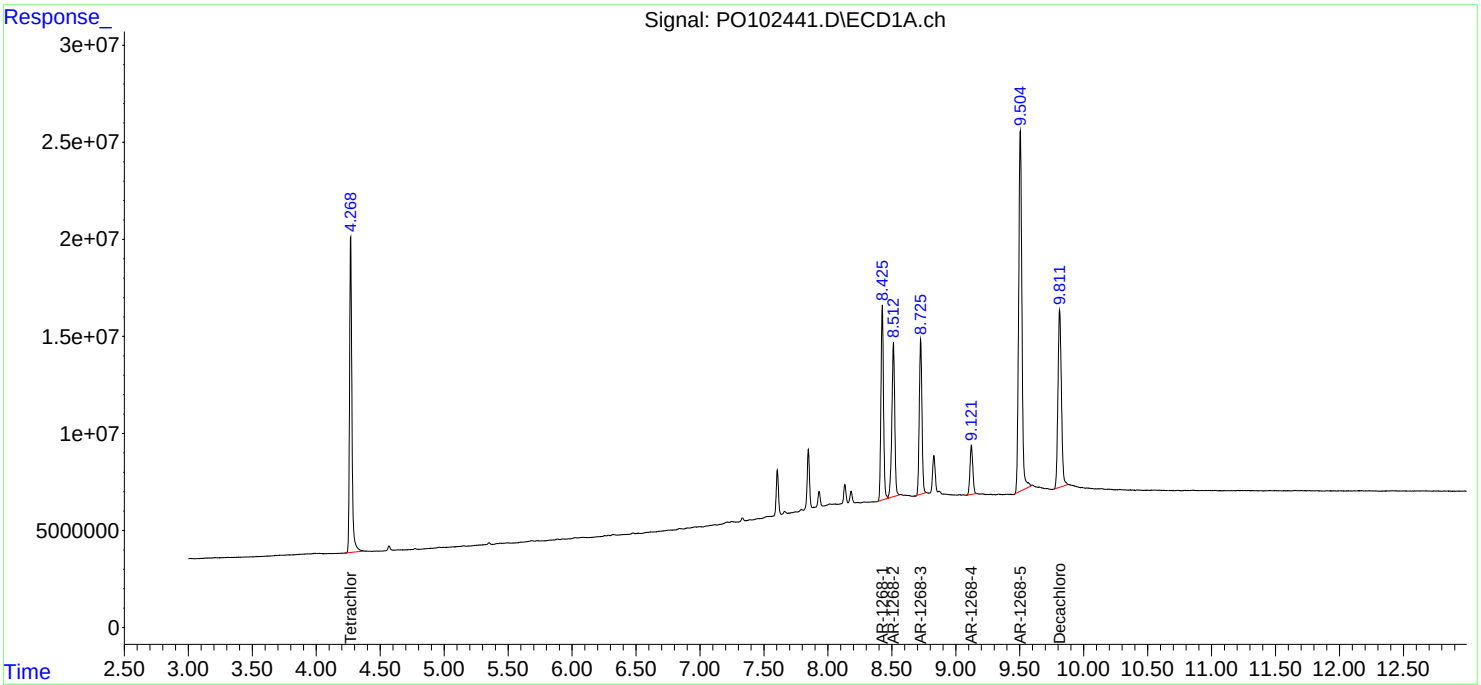
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

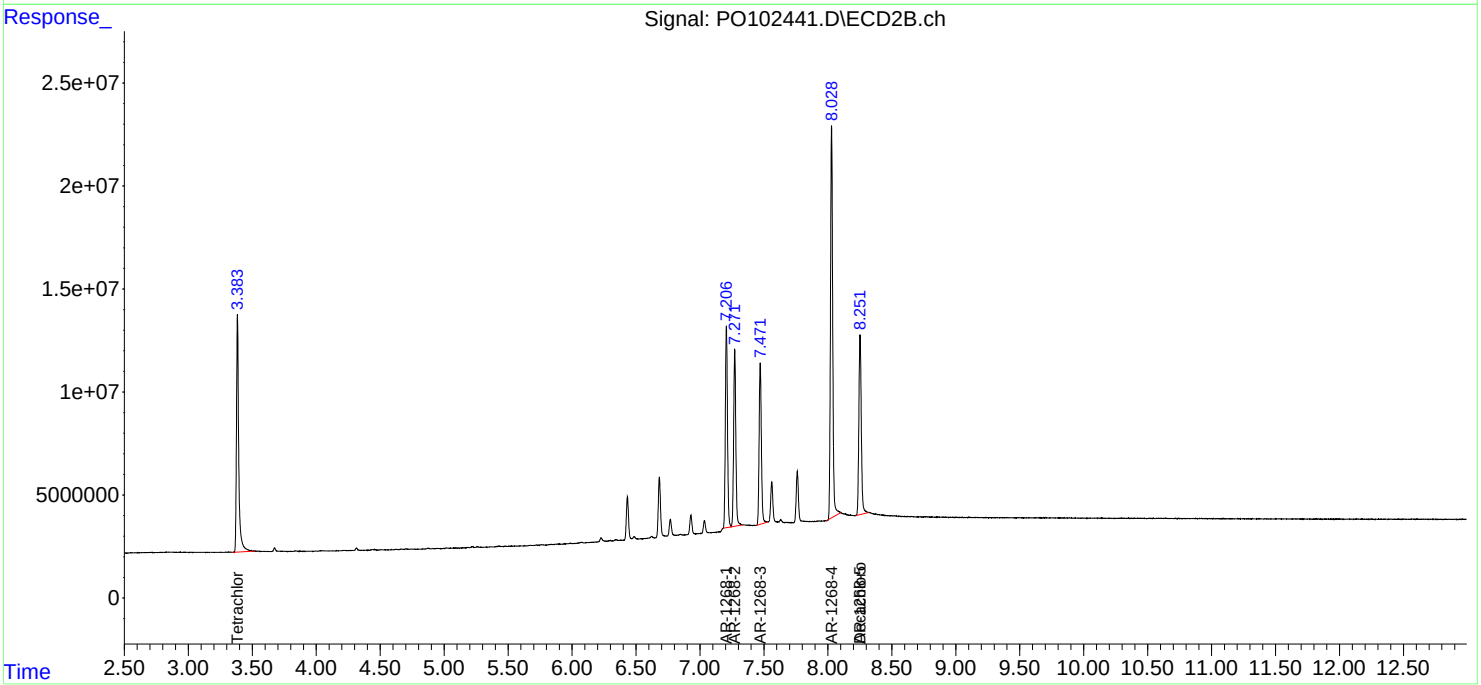
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102441.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Mar 2024 00:16
Operator : YP/AJ
Sample : AR1268ICV500
Misc :
ALS Vial : 35 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
ICVPO031224

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:31:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:27:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Raw Data: **PO102499.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Continuing Calib Date:** 03/14/2024 **Initial Calibration Date(s):** 03/12/2024 03/12/2024

**Continuing Calib Time:** 15:28 **Initial Calibration Time(s):** 15:06 22:50

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.41 | 5.42 | 5.32 | 5.52 | 0.01 |
| Aroclor-1016-2 | (2) | 5.44 | 5.44 | 5.34 | 5.54 | 0.01 |
| Aroclor-1016-3 | (3) | 5.50 | 5.50 | 5.40 | 5.60 | 0.00 |
| Aroclor-1016-4 | (4) | 5.59 | 5.60 | 5.50 | 5.70 | 0.01 |
| Aroclor-1016-5 | (5) | 5.88 | 5.89 | 5.79 | 5.99 | 0.01 |
| Aroclor-1260-1 | (1) | 6.99 | 7.00 | 6.90 | 7.10 | 0.01 |
| Aroclor-1260-2 | (2) | 7.25 | 7.25 | 7.15 | 7.35 | 0.00 |
| Aroclor-1260-3 | (3) | 7.60 | 7.61 | 7.51 | 7.71 | 0.01 |
| Aroclor-1260-4 | (4) | 7.83 | 7.83 | 7.73 | 7.93 | 0.00 |
| Aroclor-1260-5 | (5) | 8.13 | 8.14 | 8.04 | 8.24 | 0.01 |
| Tetrachloro-m-xylene | | 4.27 | 4.27 | 4.17 | 4.37 | 0.00 |
| Decachlorobiphenyl | | 9.81 | 9.81 | 9.71 | 9.91 | 0.00 |

Raw Data: **PO102499.D**

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Continuing Calib Date:** 03/14/2024 **Initial Calibration Date(s):** 03/12/2024 03/12/2024

**Continuing Calib Time:** 15:28 **Initial Calibration Time(s):** 15:06 22:50

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.44 | 4.44 | 4.34 | 4.54 | 0.01 |
| Aroclor-1016-2 | (2) | 4.45 | 4.45 | 4.35 | 4.55 | 0.00 |
| Aroclor-1016-3 | (3) | 4.62 | 4.63 | 4.53 | 4.73 | 0.01 |
| Aroclor-1016-4 | (4) | 4.67 | 4.67 | 4.57 | 4.77 | 0.01 |
| Aroclor-1016-5 | (5) | 4.87 | 4.88 | 4.78 | 4.98 | 0.01 |
| Aroclor-1260-1 | (1) | 5.89 | 5.89 | 5.79 | 5.99 | 0.00 |
| Aroclor-1260-2 | (2) | 6.07 | 6.08 | 5.98 | 6.18 | 0.01 |
| Aroclor-1260-3 | (3) | 6.22 | 6.23 | 6.13 | 6.33 | 0.01 |
| Aroclor-1260-4 | (4) | 6.69 | 6.69 | 6.59 | 6.79 | 0.00 |
| Aroclor-1260-5 | (5) | 6.93 | 6.93 | 6.83 | 7.03 | 0.00 |
| Tetrachloro-m-xylene | | 3.38 | 3.39 | 3.29 | 3.49 | 0.01 |
| Decachlorobiphenyl | | 8.25 | 8.25 | 8.15 | 8.35 | 0.00 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/12/2024 03/12/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 03/14/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO102499.D **Time Analyzed:** 15:28

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.413 | 5.315 | 5.515 | 479.370 | 500.000 | -4.1 |
| Aroclor-1016-2 | 5.435 | 5.338 | 5.538 | 479.540 | 500.000 | -4.1 |
| Aroclor-1016-3 | 5.496 | 5.399 | 5.599 | 484.480 | 500.000 | -3.1 |
| Aroclor-1016-4 | 5.593 | 5.496 | 5.696 | 487.030 | 500.000 | -2.6 |
| Aroclor-1016-5 | 5.883 | 5.786 | 5.986 | 485.050 | 500.000 | -3.0 |
| Aroclor-1260-1 | 6.994 | 6.897 | 7.097 | 477.170 | 500.000 | -4.6 |
| Aroclor-1260-2 | 7.248 | 7.151 | 7.351 | 505.010 | 500.000 | 1.0 |
| Aroclor-1260-3 | 7.603 | 7.506 | 7.706 | 503.610 | 500.000 | 0.7 |
| Aroclor-1260-4 | 7.827 | 7.730 | 7.930 | 494.910 | 500.000 | -1.0 |
| Aroclor-1260-5 | 8.132 | 8.035 | 8.235 | 506.240 | 500.000 | 1.2 |
| Decachlorobiphenyl | 9.808 | 9.714 | 9.914 | 53.420 | 50.000 | 6.8 |
| Tetrachloro-m-xylene | 4.269 | 4.171 | 4.371 | 42.760 | 50.000 | -14.5 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/12/2024 03/12/2024

**Client Sample No.:** CCAL01 **Date Analyzed:** 03/14/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO102499.D **Time Analyzed:** 15:28

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.435 | 4.337 | 4.537 | 490.100 | 500.000 | -2.0 |
| Aroclor-1016-2 | 4.453 | 4.354 | 4.554 | 498.980 | 500.000 | -0.2 |
| Aroclor-1016-3 | 4.624 | 4.526 | 4.726 | 486.500 | 500.000 | -2.7 |
| Aroclor-1016-4 | 4.665 | 4.567 | 4.767 | 473.850 | 500.000 | -5.2 |
| Aroclor-1016-5 | 4.874 | 4.775 | 4.975 | 492.130 | 500.000 | -1.6 |
| Aroclor-1260-1 | 5.886 | 5.788 | 5.988 | 492.380 | 500.000 | -1.5 |
| Aroclor-1260-2 | 6.072 | 5.975 | 6.175 | 523.830 | 500.000 | 4.8 |
| Aroclor-1260-3 | 6.222 | 6.125 | 6.325 | 489.760 | 500.000 | -2.0 |
| Aroclor-1260-4 | 6.686 | 6.589 | 6.789 | 513.100 | 500.000 | 2.6 |
| Aroclor-1260-5 | 6.928 | 6.830 | 7.030 | 536.280 | 500.000 | 7.3 |
| Decachlorobiphenyl | 8.249 | 8.154 | 8.354 | 55.010 | 50.000 | 10.0 |
| Tetrachloro-m-xylene | 3.384 | 3.285 | 3.485 | 42.910 | 50.000 | -14.2 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102499.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 15:28
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:19:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.269 | 3.384 | 175.3E6 | 120.2E6 | 42.763 | 42.907 |
| 2) | SA Decachlor... | 9.808 | 8.249 | 101.4E6 | 67813432 | 53.424 | 55.006 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.413 | 4.435 | 47892310 | 30710391 | 479.371 | 490.100 |
| 4) | L1 AR-1016-2 | 5.435 | 4.453 | 69549864 | 43284214 | 479.537 | 498.976 |
| 5) | L1 AR-1016-3 | 5.496 | 4.624 | 45271985 | 24449423 | 484.480 | 486.502 |
| 6) | L1 AR-1016-4 | 5.593 | 4.665 | 36842423 | 22297591 | 487.027 | 473.852 |
| 7) | L1 AR-1016-5 | 5.883 | 4.874 | 39688971 | 28294158 | 485.053 | 492.125 |
| 31) | L7 AR-1260-1 | 6.994 | 5.886 | 65354029 | 51672704 | 477.171 | 492.381 |
| 32) | L7 AR-1260-2 | 7.248 | 6.072 | 66535897 | 57270857 | 505.008 | 523.829 |
| 33) | L7 AR-1260-3 | 7.603 | 6.222 | 51345613 | 55232522 | 503.614 | 489.761 |
| 34) | L7 AR-1260-4 | 7.827 | 6.686 | 57237796 | 43773876 | 494.905 | 513.101 |
| 35) | L7 AR-1260-5 | 8.132 | 6.928 | 98416972 | 86845736 | 506.237 | 536.279 |

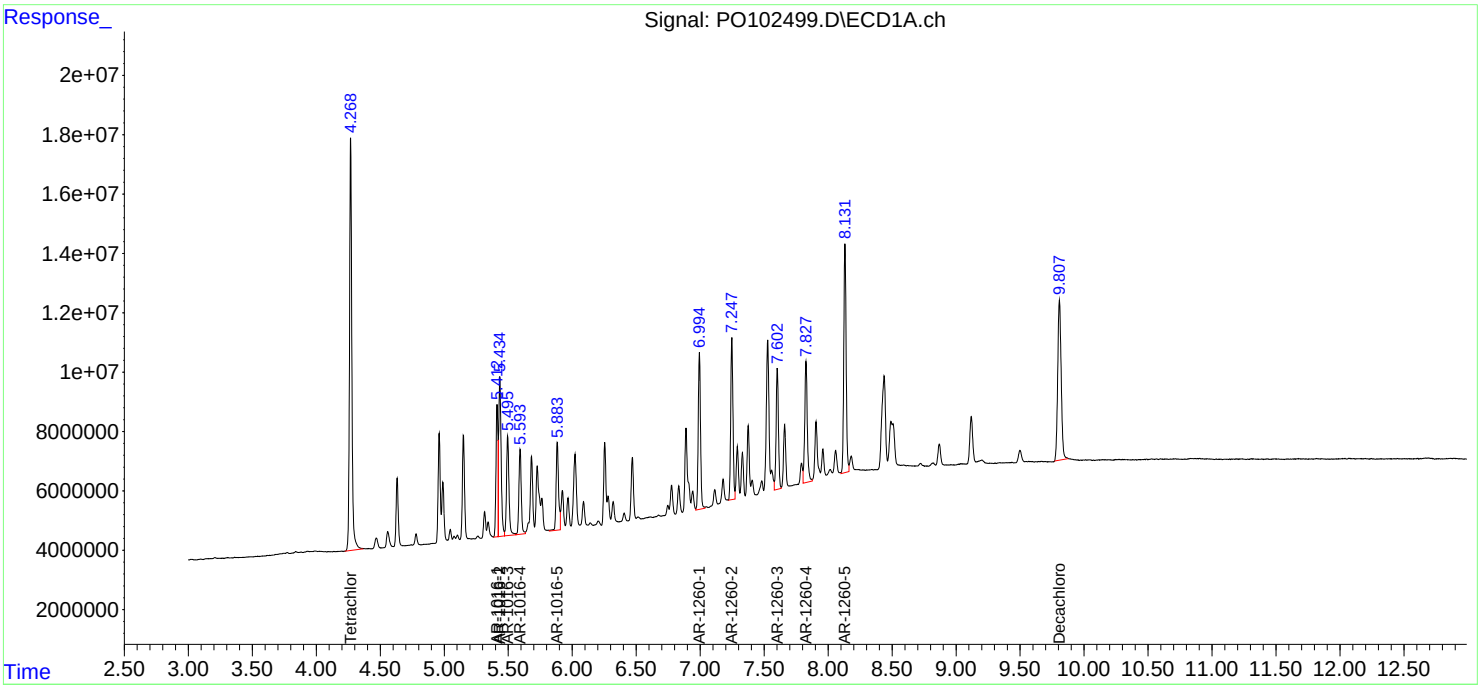
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

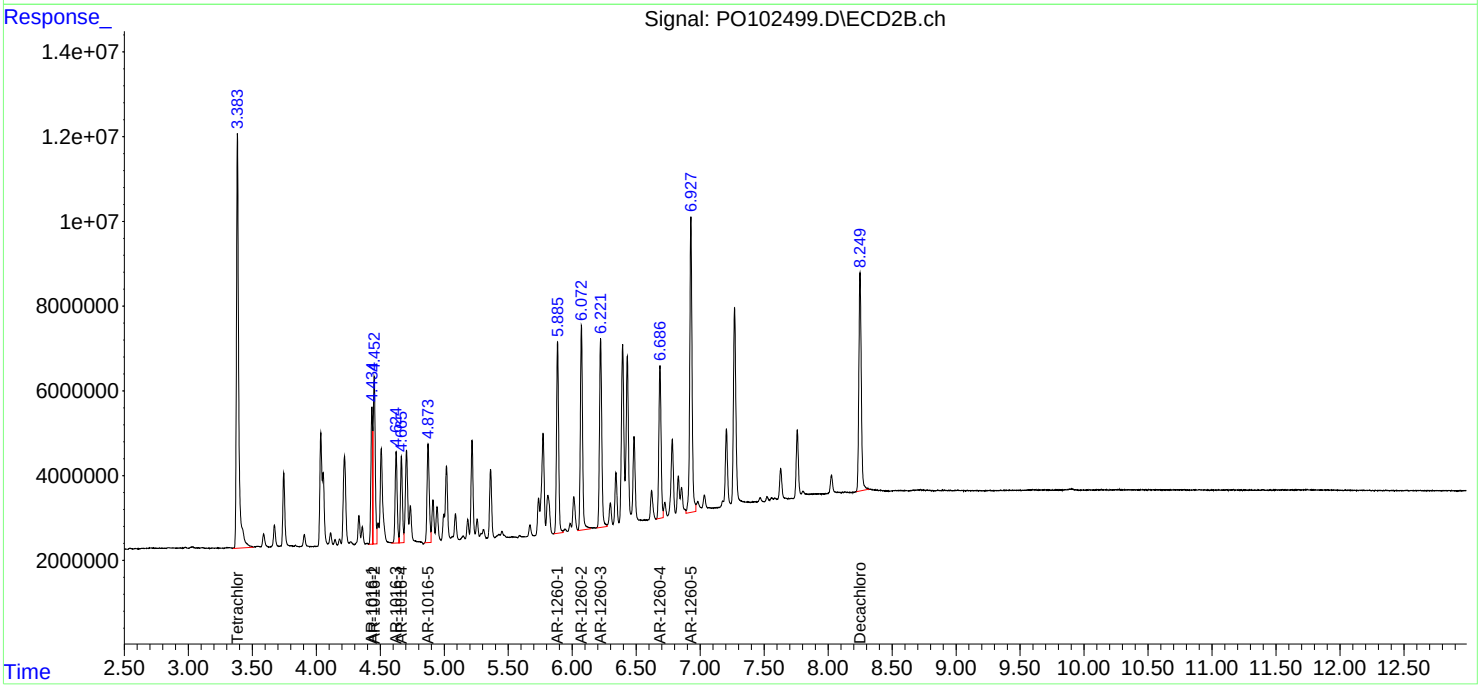
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102499.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 15:28
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:19:14 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Raw Data: **PO102519.D**

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Continuing Calib Date:** 03/14/2024 **Initial Calibration Date(s):** 03/12/2024 03/12/2024

**Continuing Calib Time:** 21:26 **Initial Calibration Time(s):** 15:06 22:50

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.41 | 5.42 | 5.32 | 5.52 | 0.01 |
| Aroclor-1016-2 | (2) | 5.43 | 5.44 | 5.34 | 5.54 | 0.01 |
| Aroclor-1016-3 | (3) | 5.49 | 5.50 | 5.40 | 5.60 | 0.01 |
| Aroclor-1016-4 | (4) | 5.59 | 5.60 | 5.50 | 5.70 | 0.01 |
| Aroclor-1016-5 | (5) | 5.88 | 5.89 | 5.79 | 5.99 | 0.01 |
| Aroclor-1260-1 | (1) | 6.99 | 7.00 | 6.90 | 7.10 | 0.01 |
| Aroclor-1260-2 | (2) | 7.25 | 7.25 | 7.15 | 7.35 | 0.00 |
| Aroclor-1260-3 | (3) | 7.60 | 7.61 | 7.51 | 7.71 | 0.01 |
| Aroclor-1260-4 | (4) | 7.83 | 7.83 | 7.73 | 7.93 | 0.01 |
| Aroclor-1260-5 | (5) | 8.13 | 8.14 | 8.04 | 8.24 | 0.01 |
| Tetrachloro-m-xylene | | 4.27 | 4.27 | 4.17 | 4.37 | 0.00 |
| Decachlorobiphenyl | | 9.81 | 9.81 | 9.71 | 9.91 | 0.00 |

Raw Data: **PO102519.D**

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Continuing Calib Date:** 03/14/2024 **Initial Calibration Date(s):** 03/12/2024 03/12/2024

**Continuing Calib Time:** 21:26 **Initial Calibration Time(s):** 15:06 22:50

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.43 | 4.44 | 4.34 | 4.54 | 0.01 |
| Aroclor-1016-2 | (2) | 4.45 | 4.45 | 4.35 | 4.55 | 0.00 |
| Aroclor-1016-3 | (3) | 4.62 | 4.63 | 4.53 | 4.73 | 0.01 |
| Aroclor-1016-4 | (4) | 4.66 | 4.67 | 4.57 | 4.77 | 0.01 |
| Aroclor-1016-5 | (5) | 4.87 | 4.88 | 4.78 | 4.98 | 0.01 |
| Aroclor-1260-1 | (1) | 5.88 | 5.89 | 5.79 | 5.99 | 0.01 |
| Aroclor-1260-2 | (2) | 6.07 | 6.08 | 5.98 | 6.18 | 0.01 |
| Aroclor-1260-3 | (3) | 6.22 | 6.23 | 6.13 | 6.33 | 0.01 |
| Aroclor-1260-4 | (4) | 6.69 | 6.69 | 6.59 | 6.79 | 0.01 |
| Aroclor-1260-5 | (5) | 6.93 | 6.93 | 6.83 | 7.03 | 0.00 |
| Tetrachloro-m-xylene | | 3.38 | 3.39 | 3.29 | 3.49 | 0.01 |
| Decachlorobiphenyl | | 8.25 | 8.25 | 8.15 | 8.35 | 0.00 |

Raw Data: **PO102519.D**

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/12/2024 03/12/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 03/14/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO102519.D **Time Analyzed:** 21:26

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.412 | 5.315 | 5.515 | 518.900 | 500.000 | 3.8 |
| Aroclor-1016-2 | 5.433 | 5.338 | 5.538 | 525.450 | 500.000 | 5.1 |
| Aroclor-1016-3 | 5.494 | 5.399 | 5.599 | 521.870 | 500.000 | 4.4 |
| Aroclor-1016-4 | 5.592 | 5.496 | 5.696 | 525.750 | 500.000 | 5.2 |
| Aroclor-1016-5 | 5.882 | 5.786 | 5.986 | 510.230 | 500.000 | 2.0 |
| Aroclor-1260-1 | 6.992 | 6.897 | 7.097 | 507.780 | 500.000 | 1.6 |
| Aroclor-1260-2 | 7.246 | 7.151 | 7.351 | 554.750 | 500.000 | 11.0 |
| Aroclor-1260-3 | 7.602 | 7.506 | 7.706 | 541.090 | 500.000 | 8.2 |
| Aroclor-1260-4 | 7.825 | 7.730 | 7.930 | 526.260 | 500.000 | 5.3 |
| Aroclor-1260-5 | 8.131 | 8.035 | 8.235 | 558.260 | 500.000 | 11.7 |
| Decachlorobiphenyl | 9.806 | 9.714 | 9.914 | 56.590 | 50.000 | 13.2 |
| Tetrachloro-m-xylene | 4.268 | 4.171 | 4.371 | 45.410 | 50.000 | -9.2 |

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/12/2024 03/12/2024

**Client Sample No.:** CCAL02 **Date Analyzed:** 03/14/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO102519.D **Time Analyzed:** 21:26

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.434 | 4.337 | 4.537 | 551.110 | 500.000 | 10.2 |
| Aroclor-1016-2 | 4.451 | 4.354 | 4.554 | 560.140 | 500.000 | 12.0 |
| Aroclor-1016-3 | 4.623 | 4.526 | 4.726 | 564.490 | 500.000 | 12.9 |
| Aroclor-1016-4 | 4.664 | 4.567 | 4.767 | 536.960 | 500.000 | 7.4 |
| Aroclor-1016-5 | 4.872 | 4.775 | 4.975 | 530.890 | 500.000 | 6.2 |
| Aroclor-1260-1 | 5.884 | 5.788 | 5.988 | 531.160 | 500.000 | 6.2 |
| Aroclor-1260-2 | 6.071 | 5.975 | 6.175 | 572.900 | 500.000 | 14.6 |
| Aroclor-1260-3 | 6.221 | 6.125 | 6.325 | 528.890 | 500.000 | 5.8 |
| Aroclor-1260-4 | 6.685 | 6.589 | 6.789 | 558.270 | 500.000 | 11.7 |
| Aroclor-1260-5 | 6.926 | 6.830 | 7.030 | 600.600 | 500.000 | 20.1 |
| Decachlorobiphenyl | 8.248 | 8.154 | 8.354 | 60.660 | 50.000 | 21.3 |
| Tetrachloro-m-xylene | 3.383 | 3.285 | 3.485 | 45.210 | 50.000 | -9.6 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102519.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 21:26
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 186.1E6 | 126.7E6 | 45.412 | 45.212 |
| 2) | SA Decachlor... | 9.806 | 8.248 | 107.5E6 | 74783777 | 56.590 | 60.660 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.412 | 4.434 | 51841910 | 34533603 | 518.904 | 551.114 |
| 4) | L1 AR-1016-2 | 5.433 | 4.451 | 76208249 | 48590005 | 525.445 | 560.140 |
| 5) | L1 AR-1016-3 | 5.494 | 4.623 | 48766116 | 28368757 | 521.872 | 564.490 |
| 6) | L1 AR-1016-4 | 5.592 | 4.664 | 39771944 | 25267409 | 525.753 | 536.965 |
| 7) | L1 AR-1016-5 | 5.882 | 4.872 | 41749399 | 30522738 | 510.234 | 530.887 |
| 31) | L7 AR-1260-1 | 6.992 | 5.884 | 69546294 | 55742831 | 507.780 | 531.165 |
| 32) | L7 AR-1260-2 | 7.246 | 6.071 | 73089855 | 62635515 | 554.753 | 572.897 |
| 33) | L7 AR-1260-3 | 7.602 | 6.221 | 55166724 | 59645157 | 541.093 | 528.889 |
| 34) | L7 AR-1260-4 | 7.825 | 6.685 | 60863998 | 47627129 | 526.259 | 558.268 |
| 35) | L7 AR-1260-5 | 8.131 | 6.926 | 108.5E6 | 97261529 | 558.263 | 600.598 |

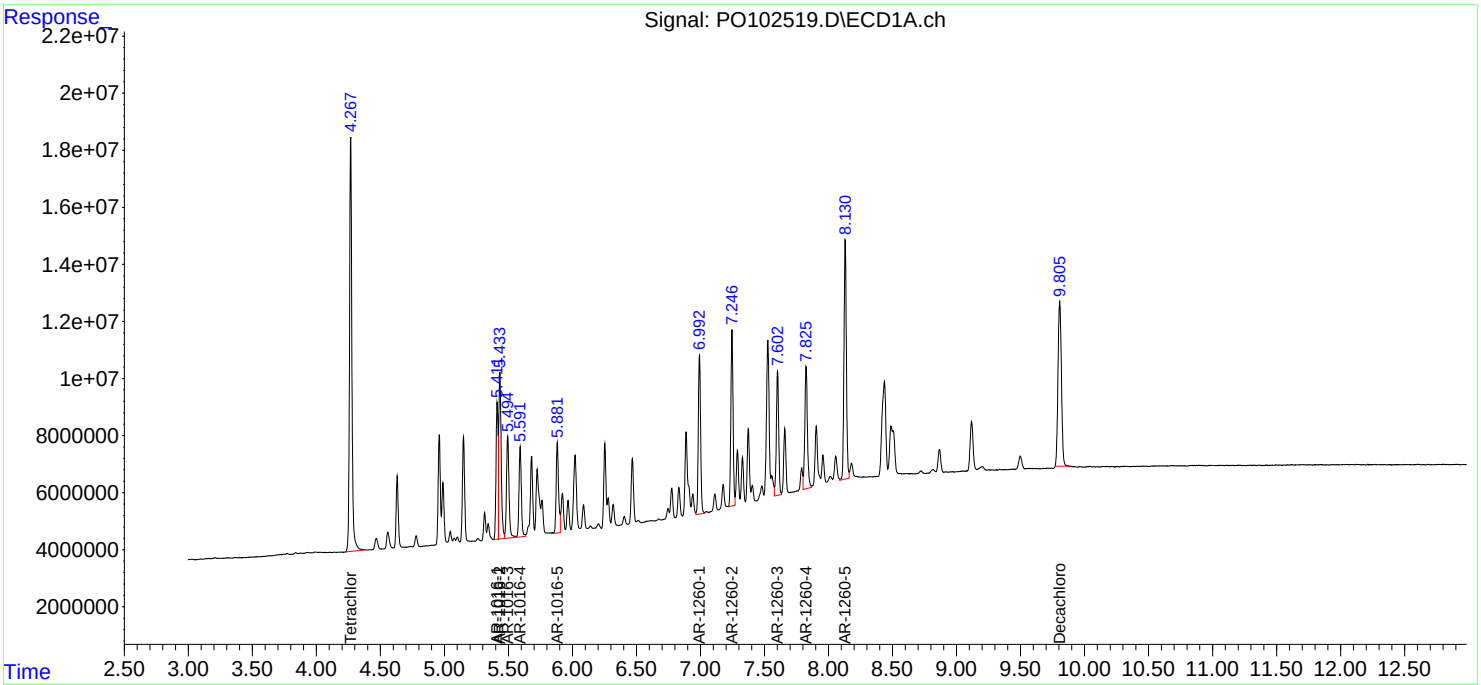
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

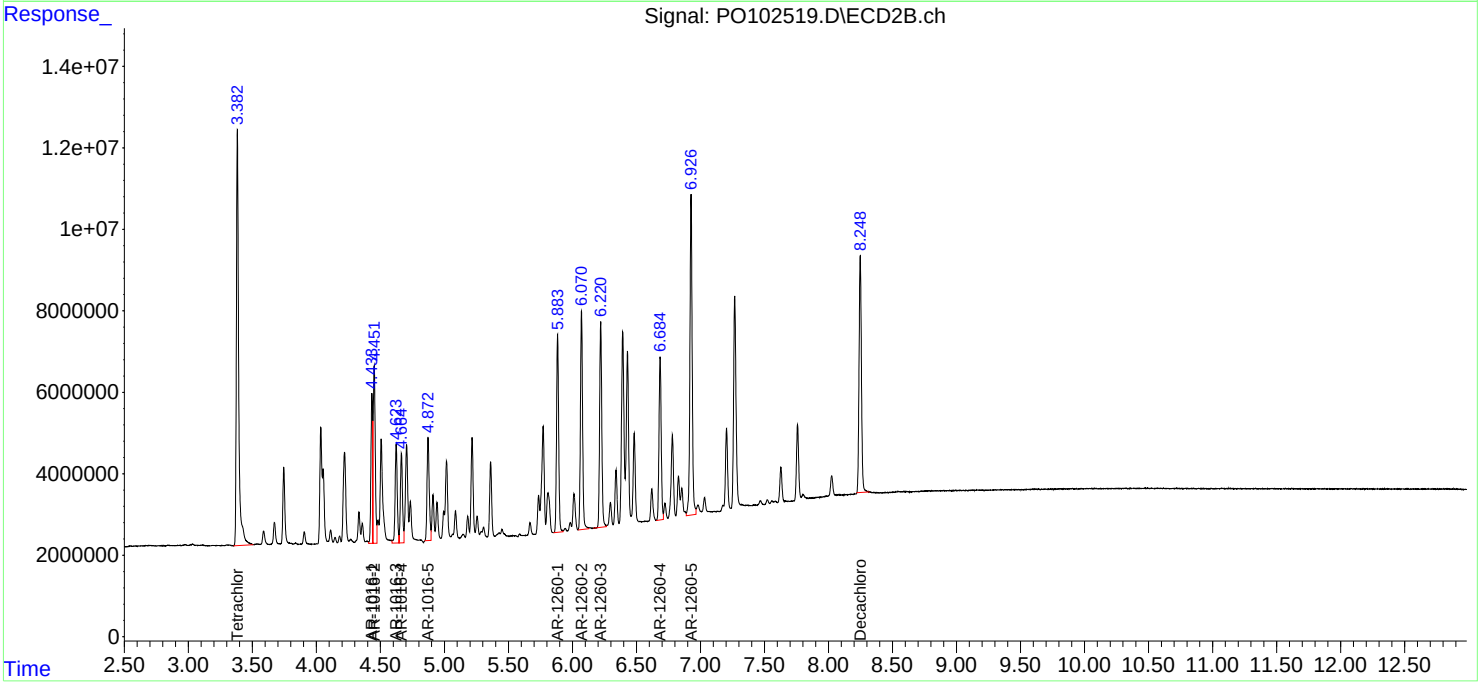
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102519.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 21:26
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660CCC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:30 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Raw Data: **PO102531.D**

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Continuing Calib Date:** 03/15/2024 **Initial Calibration Date(s):** 03/12/2024 03/12/2024

**Continuing Calib Time:** 01:49 **Initial Calibration Time(s):** 15:06 22:50

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 5.41 | 5.42 | 5.32 | 5.52 | 0.01 |
| Aroclor-1016-2 | (2) | 5.43 | 5.44 | 5.34 | 5.54 | 0.01 |
| Aroclor-1016-3 | (3) | 5.49 | 5.50 | 5.40 | 5.60 | 0.01 |
| Aroclor-1016-4 | (4) | 5.59 | 5.60 | 5.50 | 5.70 | 0.01 |
| Aroclor-1016-5 | (5) | 5.88 | 5.89 | 5.79 | 5.99 | 0.01 |
| Aroclor-1260-1 | (1) | 6.99 | 7.00 | 6.90 | 7.10 | 0.01 |
| Aroclor-1260-2 | (2) | 7.25 | 7.25 | 7.15 | 7.35 | 0.00 |
| Aroclor-1260-3 | (3) | 7.60 | 7.61 | 7.51 | 7.71 | 0.01 |
| Aroclor-1260-4 | (4) | 7.83 | 7.83 | 7.73 | 7.93 | 0.01 |
| Aroclor-1260-5 | (5) | 8.13 | 8.14 | 8.04 | 8.24 | 0.01 |
| Tetrachloro-m-xylene | | 4.27 | 4.27 | 4.17 | 4.37 | 0.00 |
| Decachlorobiphenyl | | 9.81 | 9.81 | 9.71 | 9.91 | 0.00 |

Raw Data: **PO102531.D**

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**Continuing Calib Date:** 03/15/2024 **Initial Calibration Date(s):** 03/12/2024 03/12/2024

**Continuing Calib Time:** 01:49 **Initial Calibration Time(s):** 15:06 22:50

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)**

| COMPOUND | | CCAL RT | AVG RT | RT WINDOW FROM | RT WINDOW TO | DIFF RT |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.43 | 4.44 | 4.34 | 4.54 | 0.01 |
| Aroclor-1016-2 | (2) | 4.45 | 4.45 | 4.35 | 4.55 | 0.00 |
| Aroclor-1016-3 | (3) | 4.62 | 4.63 | 4.53 | 4.73 | 0.01 |
| Aroclor-1016-4 | (4) | 4.66 | 4.67 | 4.57 | 4.77 | 0.01 |
| Aroclor-1016-5 | (5) | 4.87 | 4.88 | 4.78 | 4.98 | 0.01 |
| Aroclor-1260-1 | (1) | 5.88 | 5.89 | 5.79 | 5.99 | 0.01 |
| Aroclor-1260-2 | (2) | 6.07 | 6.08 | 5.98 | 6.18 | 0.01 |
| Aroclor-1260-3 | (3) | 6.22 | 6.23 | 6.13 | 6.33 | 0.01 |
| Aroclor-1260-4 | (4) | 6.69 | 6.69 | 6.59 | 6.79 | 0.01 |
| Aroclor-1260-5 | (5) | 6.93 | 6.93 | 6.83 | 7.03 | 0.00 |
| Tetrachloro-m-xylene | | 3.38 | 3.39 | 3.29 | 3.49 | 0.01 |
| Decachlorobiphenyl | | 8.25 | 8.25 | 8.15 | 8.35 | 0.00 |

Raw Data: **PO102531.D**

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**GC Column:** ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/12/2024 03/12/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 03/15/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO102531.D **Time Analyzed:** 01:49

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 5.412 | 5.315 | 5.515 | 559.530 | 500.000 | 11.9 |
| Aroclor-1016-2 | 5.433 | 5.338 | 5.538 | 555.310 | 500.000 | 11.1 |
| Aroclor-1016-3 | 5.494 | 5.399 | 5.599 | 565.210 | 500.000 | 13.0 |
| Aroclor-1016-4 | 5.592 | 5.496 | 5.696 | 561.400 | 500.000 | 12.3 |
| Aroclor-1016-5 | 5.882 | 5.786 | 5.986 | 540.280 | 500.000 | 8.1 |
| Aroclor-1260-1 | 6.993 | 6.897 | 7.097 | 527.230 | 500.000 | 5.4 |
| Aroclor-1260-2 | 7.246 | 7.151 | 7.351 | 567.320 | 500.000 | 13.5 |
| Aroclor-1260-3 | 7.602 | 7.506 | 7.706 | 535.710 | 500.000 | 7.1 |
| Aroclor-1260-4 | 7.825 | 7.730 | 7.930 | 408.210 | 500.000 | -18.4 |
| Aroclor-1260-5 | 8.129 | 8.035 | 8.235 | 564.010 | 500.000 | 12.8 |
| Decachlorobiphenyl | 9.806 | 9.714 | 9.914 | 57.440 | 50.000 | 14.9 |
| Tetrachloro-m-xylene | 4.267 | 4.171 | 4.371 | 47.380 | 50.000 | -5.2 |

Raw Data: **PO102531.D**

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## CALIBRATION VERIFICATION SUMMARY

**Contract:** LIRO01

**Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747 **SDG NO.:** P1747

**GC Column:** ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 03/12/2024 03/12/2024

**Client Sample No.:** CCAL03 **Date Analyzed:** 03/15/2024

**Lab Sample No.:** AR1660CCC500 **Data File :** PO102531.D **Time Analyzed:** 01:49

| COMPOUND | RT | RT WINDOW FROM | RT WINDOW TO | CALC AMOUNT(ng) | NOM AMOUNT(ng) | %D |
|---|---|---|---|---|---|---|
| Aroclor-1016-1 | 4.433 | 4.337 | 4.537 | 575.750 | 500.000 | 15.2 |
| Aroclor-1016-2 | 4.451 | 4.354 | 4.554 | 560.360 | 500.000 | 12.1 |
| Aroclor-1016-3 | 4.622 | 4.526 | 4.726 | 546.360 | 500.000 | 9.3 |
| Aroclor-1016-4 | 4.664 | 4.567 | 4.767 | 511.320 | 500.000 | 2.3 |
| Aroclor-1016-5 | 4.872 | 4.775 | 4.975 | 551.350 | 500.000 | 10.3 |
| Aroclor-1260-1 | 5.884 | 5.788 | 5.988 | 547.930 | 500.000 | 9.6 |
| Aroclor-1260-2 | 6.071 | 5.975 | 6.175 | 599.370 | 500.000 | 19.9 |
| Aroclor-1260-3 | 6.221 | 6.125 | 6.325 | 545.210 | 500.000 | 9.0 |
| Aroclor-1260-4 | 6.685 | 6.589 | 6.789 | 567.870 | 500.000 | 13.6 |
| Aroclor-1260-5 | 6.926 | 6.830 | 7.030 | 608.120 | 500.000 | 21.6 |
| Decachlorobiphenyl | 8.248 | 8.154 | 8.354 | 60.720 | 50.000 | 21.4 |
| Tetrachloro-m-xylene | 3.383 | 3.285 | 3.485 | 46.350 | 50.000 | -7.3 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102531.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 01:49
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
AR1660CCC500

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:41:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.267 | 3.383 | 194.2E6 | 129.9E6 | 47.375 | 46.347 |
| 2) | SA Decachlor... | 9.806 | 8.248 | 109.1E6 | 74862089 | 57.438 | 60.724 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.412 | 4.433 | 55900263 | 36077078 | 559.526 | 575.745m |
| 4) | L1 AR-1016-2 | 5.433 | 4.451 | 80539992 | 48609389 | 555.312 | 560.364m |
| 5) | L1 AR-1016-3 | 5.494 | 4.622 | 52815835 | 27457481 | 565.210 | 546.357m |
| 6) | L1 AR-1016-4 | 5.592 | 4.664 | 42468766 | 24060576 | 561.403 | 511.318m |
| 7) | L1 AR-1016-5 | 5.882 | 4.872 | 44207644 | 31698934 | 540.277 | 551.345 |
| 31) | L7 AR-1260-1 | 6.993 | 5.884 | 72210293 | 57502491 | 527.231 | 547.933 |
| 32) | L7 AR-1260-2 | 7.246 | 6.071 | 74746193 | 65529313 | 567.324m | 599.365 |
| 33) | L7 AR-1260-3 | 7.602 | 6.221 | 54618220 | 61485908 | 535.713m | 545.211 |
| 34) | L7 AR-1260-4 | 7.825 | 6.685 | 47211012 | 48446515 | 408.209m | 567.872 # |
| 35) | L7 AR-1260-5 | 8.129 | 6.926 | 109.6E6 | 98480242 | 564.012m | 608.123m |

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

Sample Results: **PO102531.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102531.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 01:49
Operator : YP/AJ
Sample : AR1660CCC500
Misc :
ALS Vial : 3 Sample Multiplier: 1

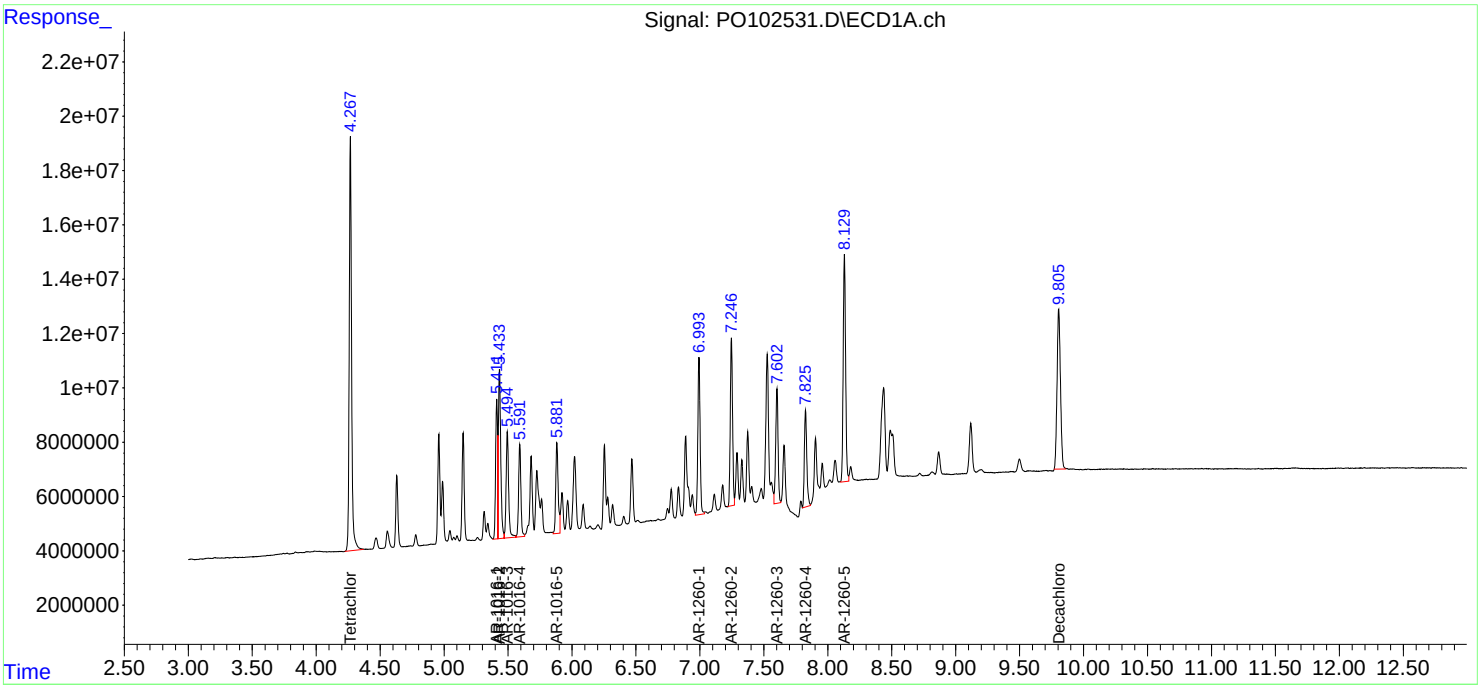
**Instrument :**
ECD_O
**ClientSampleId :**
AR1660CCC500

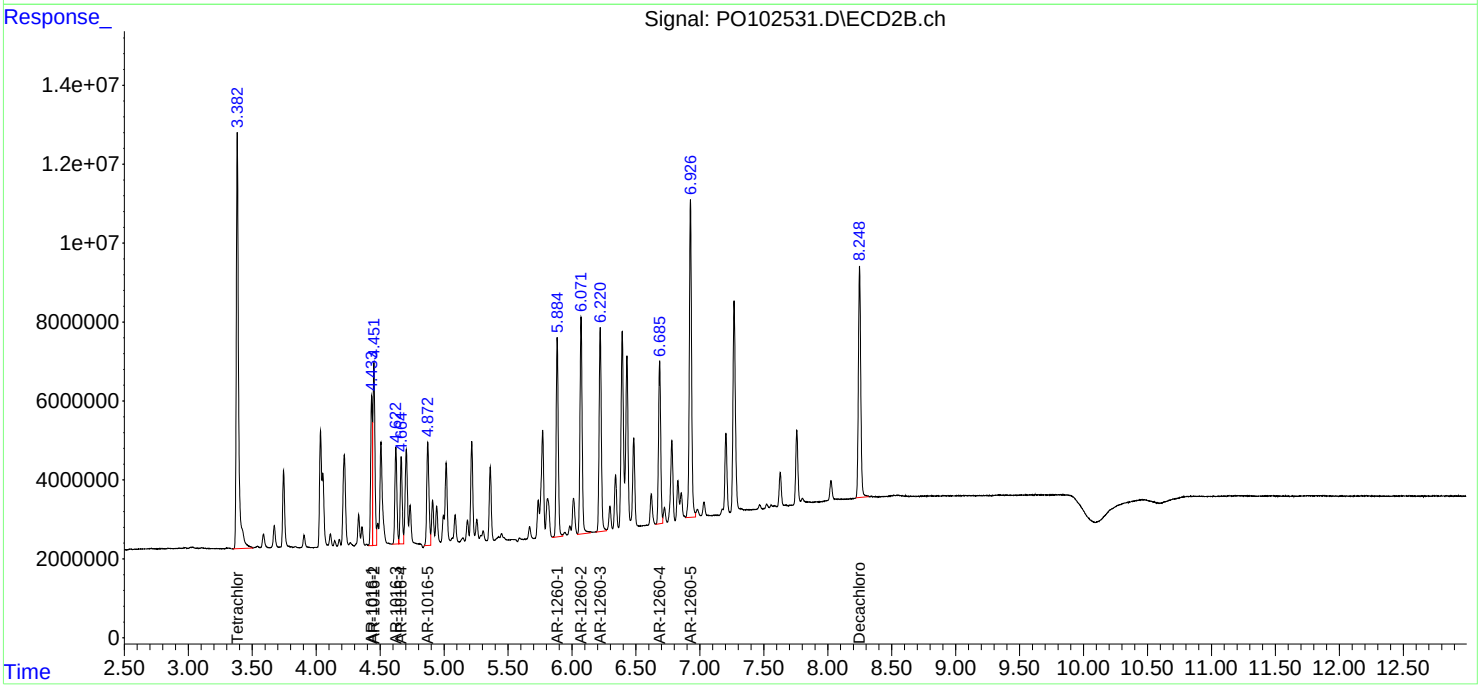
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:41:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



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# Analytical Sequence

**Client:** LiRo Engineers, Inc. **SDG No.:** P1747

**Project:** Walter Gladwin Recreation Center, Bronx, N **Instrument ID:** ECD_O

**GC Column:** ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/12/2024 03/12/2024

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 03/12/2024 | 14:49 | PO102408.D | 9.81 | 4.27 |
| AR1660ICC1000 | AR1660ICC1000 | 03/12/2024 | 15:06 | PO102409.D | 9.82 | 4.27 |
| AR1660ICC750 | AR1660ICC750 | 03/12/2024 | 15:23 | PO102410.D | 9.81 | 4.27 |
| AR1660ICC500 | AR1660ICC500 | 03/12/2024 | 15:41 | PO102411.D | 9.81 | 4.27 |
| AR1660ICC250 | AR1660ICC250 | 03/12/2024 | 15:58 | PO102412.D | 9.82 | 4.27 |
| AR1660ICC050 | AR1660ICC050 | 03/12/2024 | 16:15 | PO102413.D | 9.82 | 4.27 |
| AR1221ICC500 | AR1221ICC500 | 03/12/2024 | 16:32 | PO102414.D | 9.82 | 4.27 |
| AR1232ICC500 | AR1232ICC500 | 03/12/2024 | 16:49 | PO102415.D | 9.82 | 4.27 |
| AR1242ICC1000 | AR1242ICC1000 | 03/12/2024 | 17:07 | PO102416.D | 9.82 | 4.27 |
| AR1242ICC750 | AR1242ICC750 | 03/12/2024 | 17:24 | PO102417.D | 9.82 | 4.27 |
| AR1242ICC500 | AR1242ICC500 | 03/12/2024 | 17:41 | PO102418.D | 9.82 | 4.27 |
| AR1242ICC250 | AR1242ICC250 | 03/12/2024 | 17:58 | PO102419.D | 9.81 | 4.27 |
| AR1242ICC050 | AR1242ICC050 | 03/12/2024 | 18:16 | PO102420.D | 9.81 | 4.27 |
| AR1248ICC1000 | AR1248ICC1000 | 03/12/2024 | 18:33 | PO102421.D | 9.81 | 4.27 |
| AR1248ICC750 | AR1248ICC750 | 03/12/2024 | 18:50 | PO102422.D | 9.84 | 4.29 |
| AR1248ICC500 | AR1248ICC500 | 03/12/2024 | 19:07 | PO102423.D | 9.81 | 4.27 |
| AR1248ICC250 | AR1248ICC250 | 03/12/2024 | 19:24 | PO102424.D | 9.82 | 4.27 |
| AR1248ICC050 | AR1248ICC050 | 03/12/2024 | 19:42 | PO102425.D | 9.82 | 4.27 |
| AR1254ICC1000 | AR1254ICC1000 | 03/12/2024 | 19:59 | PO102426.D | 9.81 | 4.27 |
| AR1254ICC750 | AR1254ICC750 | 03/12/2024 | 20:16 | PO102427.D | 9.81 | 4.27 |
| AR1254ICC500 | AR1254ICC500 | 03/12/2024 | 20:33 | PO102428.D | 9.81 | 4.27 |
| AR1254ICC250 | AR1254ICC250 | 03/12/2024 | 20:50 | PO102429.D | 9.81 | 4.27 |
| AR1254ICC050 | AR1254ICC050 | 03/12/2024 | 21:07 | PO102430.D | 9.81 | 4.27 |
| AR1262ICC500 | AR1262ICC500 | 03/12/2024 | 21:25 | PO102431.D | 9.81 | 4.27 |
| AR1268ICC1000 | AR1268ICC1000 | 03/12/2024 | 21:42 | PO102432.D | 9.81 | 4.27 |
| AR1268ICC750 | AR1268ICC750 | 03/12/2024 | 21:59 | PO102433.D | 9.81 | 4.27 |
| AR1268ICC500 | AR1268ICC500 | 03/12/2024 | 22:16 | PO102434.D | 9.81 | 4.27 |
| AR1268ICC250 | AR1268ICC250 | 03/12/2024 | 22:33 | PO102435.D | 9.81 | 4.27 |
| AR1268ICC050 | AR1268ICC050 | 03/12/2024 | 22:50 | PO102436.D | 9.81 | 4.27 |
| AR1660CCC500 | AR1660CCC500 | 03/14/2024 | 15:28 | PO102499.D | 9.81 | 4.27 |
| I.BLK | I.BLK | 03/14/2024 | 15:46 | PO102500.D | 9.81 | 4.27 |
| PB159587BL | PB159587BL | 03/14/2024 | 19:12 | PO102512.D | 9.81 | 4.27 |
| PB159587BS | PB159587BS | 03/14/2024 | 19:29 | PO102513.D | 9.81 | 4.27 |
| PB159587BSD | PB159587BSD | 03/14/2024 | 19:46 | PO102514.D | 9.81 | 4.27 |
| MW-01 | P1747-01 | 03/14/2024 | 20:04 | PO102515.D | 9.81 | 4.27 |
| MW-01-DUP | P1747-02 | 03/14/2024 | 20:21 | PO102516.D | 9.81 | 4.27 |
| MW-02 | P1747-04 | 03/14/2024 | 20:38 | PO102517.D | 9.81 | 4.27 |
| TWP-04 | P1747-05 | 03/14/2024 | 20:55 | PO102518.D | 9.81 | 4.27 |
| AR1660CCC500 | AR1660CCC500 | 03/14/2024 | 21:26 | PO102519.D | 9.81 | 4.27 |
| I.BLK | I.BLK | 03/14/2024 | 21:43 | PO102520.D | 9.81 | 4.27 |
| PB159600BS | PB159600BS | 03/15/2024 | 00:12 | PO102527.D | 9.81 | 4.27 |
| PB159600BSD | PB159600BSD | 03/15/2024 | 00:29 | PO102528.D | 9.81 | 4.27 |
| PB159600BL | PB159600BL | 03/15/2024 | 00:46 | PO102529.D | 9.81 | 4.27 |
| MW-01 | P1747-03 | 03/15/2024 | 01:03 | PO102530.D | 9.81 | 4.27 |
| AR1660CCC500 | AR1660CCC500 | 03/15/2024 | 01:49 | PO102531.D | 9.81 | 4.27 |

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## Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 03/15/2024 | 02:06 | PO102532.D | 9.81 | 4.27 |

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# Analytical Sequence

**Client:** LiRo Engineers, Inc. **SDG No.:** P1747

**Project:** Walter Gladwin Recreation Center, Bronx, N **Instrument ID:** ECD_O

**GC Column:** ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 03/12/2024 03/12/2024

**THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:**

| EPA SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED | TIME ANALYZED | DATAFILE | DCB RT # | TCX RT # |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 03/12/2024 | 14:49 | PO102408.D | 8.25 | 3.38 |
| AR1660ICC1000 | AR1660ICC1000 | 03/12/2024 | 15:06 | PO102409.D | 8.26 | 3.39 |
| AR1660ICC750 | AR1660ICC750 | 03/12/2024 | 15:23 | PO102410.D | 8.25 | 3.39 |
| AR1660ICC500 | AR1660ICC500 | 03/12/2024 | 15:41 | PO102411.D | 8.25 | 3.39 |
| AR1660ICC250 | AR1660ICC250 | 03/12/2024 | 15:58 | PO102412.D | 8.26 | 3.39 |
| AR1660ICC050 | AR1660ICC050 | 03/12/2024 | 16:15 | PO102413.D | 8.25 | 3.38 |
| AR1221ICC500 | AR1221ICC500 | 03/12/2024 | 16:32 | PO102414.D | 8.25 | 3.38 |
| AR1232ICC500 | AR1232ICC500 | 03/12/2024 | 16:49 | PO102415.D | 8.25 | 3.39 |
| AR1242ICC1000 | AR1242ICC1000 | 03/12/2024 | 17:07 | PO102416.D | 8.25 | 3.39 |
| AR1242ICC750 | AR1242ICC750 | 03/12/2024 | 17:24 | PO102417.D | 8.25 | 3.39 |
| AR1242ICC500 | AR1242ICC500 | 03/12/2024 | 17:41 | PO102418.D | 8.25 | 3.39 |
| AR1242ICC250 | AR1242ICC250 | 03/12/2024 | 17:58 | PO102419.D | 8.25 | 3.38 |
| AR1242ICC050 | AR1242ICC050 | 03/12/2024 | 18:16 | PO102420.D | 8.25 | 3.38 |
| AR1248ICC1000 | AR1248ICC1000 | 03/12/2024 | 18:33 | PO102421.D | 8.25 | 3.39 |
| AR1248ICC750 | AR1248ICC750 | 03/12/2024 | 18:50 | PO102422.D | 8.25 | 3.38 |
| AR1248ICC500 | AR1248ICC500 | 03/12/2024 | 19:07 | PO102423.D | 8.25 | 3.38 |
| AR1248ICC250 | AR1248ICC250 | 03/12/2024 | 19:24 | PO102424.D | 8.25 | 3.38 |
| AR1248ICC050 | AR1248ICC050 | 03/12/2024 | 19:42 | PO102425.D | 8.25 | 3.38 |
| AR1254ICC1000 | AR1254ICC1000 | 03/12/2024 | 19:59 | PO102426.D | 8.25 | 3.38 |
| AR1254ICC750 | AR1254ICC750 | 03/12/2024 | 20:16 | PO102427.D | 8.25 | 3.38 |
| AR1254ICC500 | AR1254ICC500 | 03/12/2024 | 20:33 | PO102428.D | 8.25 | 3.38 |
| AR1254ICC250 | AR1254ICC250 | 03/12/2024 | 20:50 | PO102429.D | 8.25 | 3.38 |
| AR1254ICC050 | AR1254ICC050 | 03/12/2024 | 21:07 | PO102430.D | 8.25 | 3.38 |
| AR1262ICC500 | AR1262ICC500 | 03/12/2024 | 21:25 | PO102431.D | 8.25 | 3.38 |
| AR1268ICC1000 | AR1268ICC1000 | 03/12/2024 | 21:42 | PO102432.D | 8.25 | 3.38 |
| AR1268ICC750 | AR1268ICC750 | 03/12/2024 | 21:59 | PO102433.D | 8.25 | 3.38 |
| AR1268ICC500 | AR1268ICC500 | 03/12/2024 | 22:16 | PO102434.D | 8.25 | 3.38 |
| AR1268ICC250 | AR1268ICC250 | 03/12/2024 | 22:33 | PO102435.D | 8.25 | 3.38 |
| AR1268ICC050 | AR1268ICC050 | 03/12/2024 | 22:50 | PO102436.D | 8.25 | 3.38 |
| AR1660CCC500 | AR1660CCC500 | 03/14/2024 | 15:28 | PO102499.D | 8.25 | 3.38 |
| I.BLK | I.BLK | 03/14/2024 | 15:46 | PO102500.D | 8.25 | 3.38 |
| PB159587BL | PB159587BL | 03/14/2024 | 19:12 | PO102512.D | 8.25 | 3.38 |
| PB159587BS | PB159587BS | 03/14/2024 | 19:29 | PO102513.D | 8.25 | 3.38 |
| PB159587BSD | PB159587BSD | 03/14/2024 | 19:46 | PO102514.D | 8.25 | 3.38 |
| MW-01 | P1747-01 | 03/14/2024 | 20:04 | PO102515.D | 8.25 | 3.38 |
| MW-01-DUP | P1747-02 | 03/14/2024 | 20:21 | PO102516.D | 8.25 | 3.38 |
| MW-02 | P1747-04 | 03/14/2024 | 20:38 | PO102517.D | 8.25 | 3.38 |
| TWP-04 | P1747-05 | 03/14/2024 | 20:55 | PO102518.D | 8.25 | 3.38 |
| AR1660CCC500 | AR1660CCC500 | 03/14/2024 | 21:26 | PO102519.D | 8.25 | 3.38 |
| I.BLK | I.BLK | 03/14/2024 | 21:43 | PO102520.D | 8.25 | 3.38 |
| PB159600BS | PB159600BS | 03/15/2024 | 00:12 | PO102527.D | 8.25 | 3.38 |
| PB159600BSD | PB159600BSD | 03/15/2024 | 00:29 | PO102528.D | 8.25 | 3.38 |
| PB159600BL | PB159600BL | 03/15/2024 | 00:46 | PO102529.D | 8.25 | 3.38 |
| MW-01 | P1747-03 | 03/15/2024 | 01:03 | PO102530.D | 8.25 | 3.38 |
| AR1660CCC500 | AR1660CCC500 | 03/15/2024 | 01:49 | PO102531.D | 8.25 | 3.38 |

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## Analytical Sequence

| | | | | | | |
|---|---|---|---|---|---|---|
| I.BLK | I.BLK | 03/15/2024 | 02:06 | PO102532.D | 8.25 | 3.38 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: PB159587BS

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159587BS Date(s) Analyzed: 03/14/2024 03/14/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO102513.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.412 | 5.362 | 5.462 | 5.31 | | |
| | 2 | 5.434 | 5.384 | 5.484 | 5.35 | | |
| | 3 | 5.495 | 5.445 | 5.545 | 5.37 | | |
| COLUMN 1 | 4 | 5.592 | 5.542 | 5.642 | 5.31 | | |
| | 5 | 5.882 | 5.832 | 5.932 | 5.02 | 5.30 | |
| | 1 | 4.434 | 4.384 | 4.484 | 5.33 | | |
| | 2 | 4.452 | 4.402 | 4.502 | 5.48 | | |
| | 3 | 4.624 | 4.574 | 4.674 | 5.28 | | |
| | 4 | 4.665 | 4.615 | 4.715 | 5.12 | | |
| COLUMN 2 | 5 | 4.873 | 4.823 | 4.923 | 5.04 | 5.20 | 1.9 |
| Aroclor-1260 | 1 | 6.992 | 6.942 | 7.042 | 4.99 | | |
| | 2 | 7.247 | 7.197 | 7.297 | 5.51 | | |
| | 3 | 7.603 | 7.553 | 7.653 | 4.62 | | |
| COLUMN 1 | 4 | 7.825 | 7.775 | 7.875 | 4.90 | | |
| | 5 | 8.131 | 8.081 | 8.181 | 5.12 | 5.00 | |
| | 1 | 5.885 | 5.835 | 5.935 | 5.13 | | |
| | 2 | 6.071 | 6.021 | 6.121 | 5.60 | | |
| | 3 | 6.22 | 6.17 | 6.27 | 5.17 | | |
| | 4 | 6.685 | 6.635 | 6.735 | 4.83 | | |
| COLUMN 2 | 5 | 6.926 | 6.876 | 6.976 | 5.45 | 5.20 | 3.92 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: PB159587BSD

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159587BSD Date(s) Analyzed: 03/14/2024 03/14/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO102514.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.412 | 5.362 | 5.462 | 5.17 | | |
| | 2 | 5.434 | 5.384 | 5.484 | 5.20 | | |
| | 3 | 5.495 | 5.445 | 5.545 | 5.18 | | |
| COLUMN 1 | 4 | 5.592 | 5.542 | 5.642 | 5.16 | | |
| | 5 | 5.882 | 5.832 | 5.932 | 4.94 | 5.10 | |
| | 1 | 4.434 | 4.384 | 4.484 | 5.24 | | |
| | 2 | 4.452 | 4.402 | 4.502 | 5.39 | | |
| | 3 | 4.623 | 4.573 | 4.673 | 5.23 | | |
| | 4 | 4.665 | 4.615 | 4.715 | 5.08 | | |
| COLUMN 2 | 5 | 4.872 | 4.822 | 4.922 | 4.99 | 5.20 | 1.94 |
| Aroclor-1260 | 1 | 6.993 | 6.943 | 7.043 | 4.96 | | |
| | 2 | 7.247 | 7.197 | 7.297 | 5.45 | | |
| | 3 | 7.602 | 7.552 | 7.652 | 4.62 | | |
| COLUMN 1 | 4 | 7.826 | 7.776 | 7.876 | 4.86 | | |
| | 5 | 8.131 | 8.081 | 8.181 | 5.04 | 5.00 | |
| | 1 | 5.884 | 5.834 | 5.934 | 5.08 | | |
| | 2 | 6.071 | 6.021 | 6.121 | 5.55 | | |
| | 3 | 6.221 | 6.171 | 6.271 | 5.12 | | |
| | 4 | 6.685 | 6.635 | 6.735 | 4.78 | | |
| COLUMN 2 | 5 | 6.926 | 6.876 | 6.976 | 5.38 | 5.20 | 3.92 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: PB159600BS

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159600BS Date(s) Analyzed: 03/15/2024 03/15/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO102527.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.411 | 5.361 | 5.461 | 0.059 | | |
| | 2 | 5.434 | 5.384 | 5.484 | 0.055 | | |
| | 3 | 5.494 | 5.444 | 5.544 | 0.052 | | |
| COLUMN 1 | 4 | 5.591 | 5.541 | 5.641 | 0.052 | | |
| | 5 | 5.882 | 5.832 | 5.932 | 0.047 | 0.053 | |
| | 1 | 4.433 | 4.383 | 4.483 | 0.066 | | |
| | 2 | 4.451 | 4.401 | 4.501 | 0.061 | | |
| | 3 | 4.623 | 4.573 | 4.673 | 0.060 | | |
| | 4 | 4.665 | 4.615 | 4.715 | 0.057 | | |
| COLUMN 2 | 5 | 4.873 | 4.823 | 4.923 | 0.054 | 0.060 | 12.22 |
| Aroclor-1260 | 1 | 6.992 | 6.942 | 7.042 | 0.052 | | |
| | 2 | 7.247 | 7.197 | 7.297 | 0.055 | | |
| | 3 | 7.602 | 7.552 | 7.652 | 0.042 | | |
| COLUMN 1 | 4 | 7.826 | 7.776 | 7.876 | 0.052 | | |
| | 5 | 8.13 | 8.08 | 8.18 | 0.047 | 0.050 | |
| | 1 | 5.884 | 5.834 | 5.934 | 0.058 | | |
| | 2 | 6.071 | 6.021 | 6.121 | 0.067 | | |
| | 3 | 6.221 | 6.171 | 6.271 | 0.068 | | |
| | 4 | 6.685 | 6.635 | 6.735 | 0.052 | | |
| COLUMN 2 | 5 | 6.926 | 6.876 | 6.976 | 0.057 | 0.060 | 19.67 |

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# IDENTIFICATION SUMMARY
## FOR MULTICOMPONENT ANALYTES

SAMPLE NO.: PB159600BSD

Contract: LIRO01

Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG NO.: P1747

Lab Sample ID: PB159600BSD Date(s) Analyzed: 03/15/2024 03/15/2024

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PO102528.D

| ANALYTE | COL | RT | RT WINDOW FROM | RT WINDOW TO | CONCENTRATION | MEAN CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|---|
| Aroclor-1016 | 1 | 5.41 | 5.36 | 5.46 | 0.057 | | |
| | 2 | 5.433 | 5.383 | 5.483 | 0.058 | | |
| | 3 | 5.494 | 5.444 | 5.544 | 0.056 | | |
| COLUMN 1 | 4 | 5.591 | 5.541 | 5.641 | 0.052 | | |
| | 5 | 5.882 | 5.832 | 5.932 | 0.050 | 0.055 | |
| | 1 | 4.433 | 4.383 | 4.483 | 0.062 | | |
| | 2 | 4.451 | 4.401 | 4.501 | 0.059 | | |
| | 3 | 4.623 | 4.573 | 4.673 | 0.058 | | |
| | 4 | 4.664 | 4.614 | 4.714 | 0.057 | | |
| COLUMN 2 | 5 | 4.872 | 4.822 | 4.922 | 0.054 | 0.058 | 6.22 |
| Aroclor-1260 | 1 | 6.993 | 6.943 | 7.043 | 0.055 | | |
| | 2 | 7.246 | 7.196 | 7.296 | 0.055 | | |
| | 3 | 7.602 | 7.552 | 7.652 | 0.044 | | |
| COLUMN 1 | 4 | 7.826 | 7.776 | 7.876 | 0.053 | | |
| | 5 | 8.13 | 8.08 | 8.18 | 0.050 | 0.051 | |
| | 1 | 5.884 | 5.834 | 5.934 | 0.057 | | |
| | 2 | 6.071 | 6.021 | 6.121 | 0.064 | | |
| | 3 | 6.22 | 6.17 | 6.27 | 0.073 | | |
| | 4 | 6.684 | 6.634 | 6.734 | 0.050 | | |
| COLUMN 2 | 5 | 6.926 | 6.876 | 6.976 | 0.056 | 0.060 | 16.16 |

CHEMTECH

# QC SAMPLE DATA

Raw Data: **PO102512.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | |
| Client Sample ID: | PB159587BL | SDG No.: | P1747 |
| Lab Sample ID: | PB159587BL | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102512.D | 1 | 03/14/24 10:51 | 03/14/24 19:12 | PB159587 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.1 | | 21 - 155 | 96% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 25.0 | | 10 - 173 | 125% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102512.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:12
Operator : YP/AJ
Sample : PB159587BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159587BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:27:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 78419573 | 52772363 | 19.132 | 18.834 |
| 2) | SA Decachlor... | 9.807 | 8.249 | 44927589 | 30817463 | 23.660 | 24.997 |
| | Target Compounds | | | | | | |

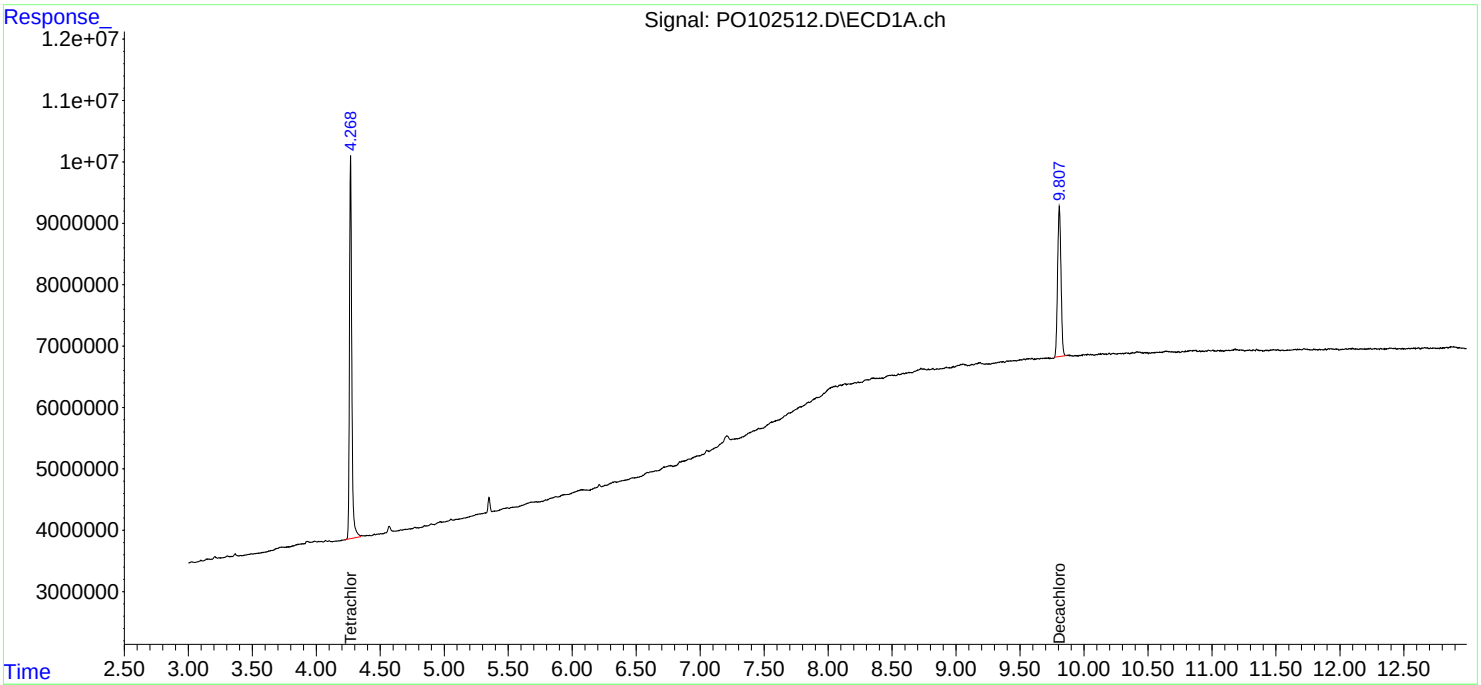
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

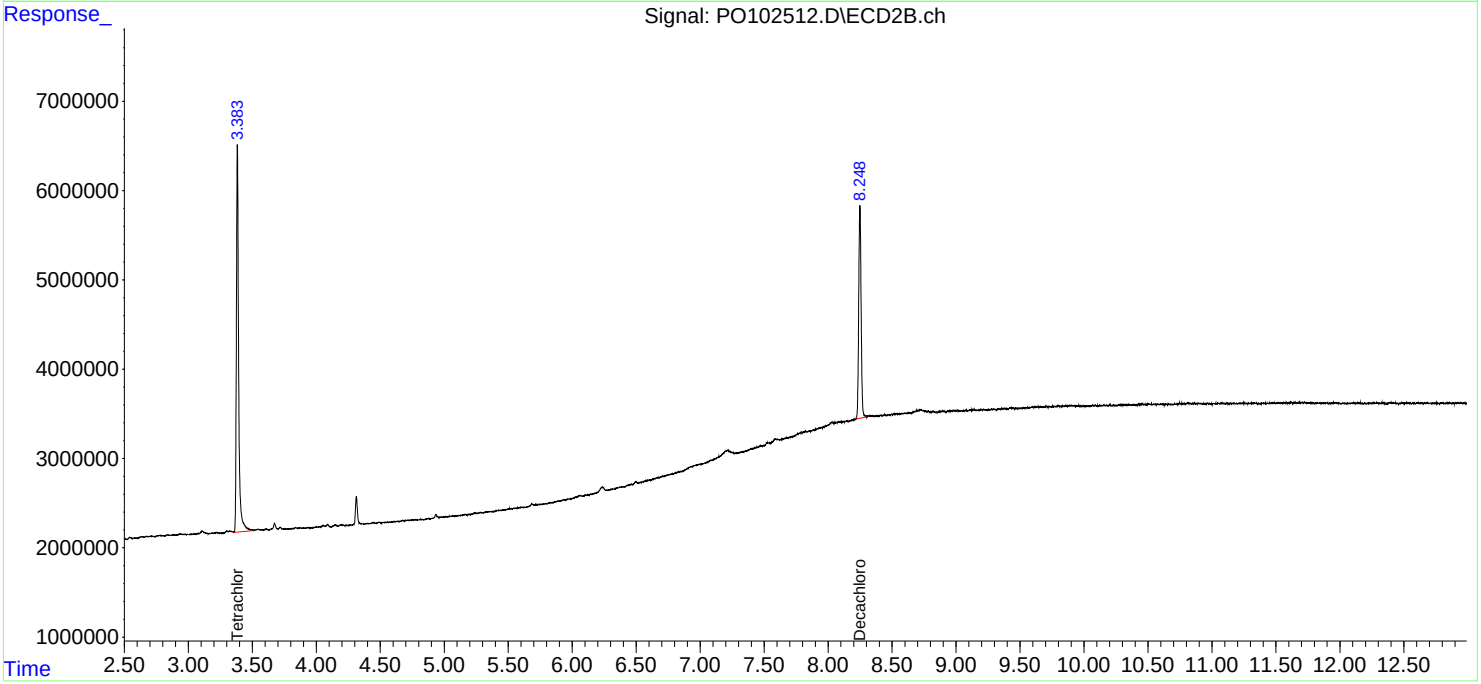
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102512.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:12
Operator : YP/AJ
Sample : PB159587BL
Misc :
ALS Vial : 26 Sample Multiplier: 1

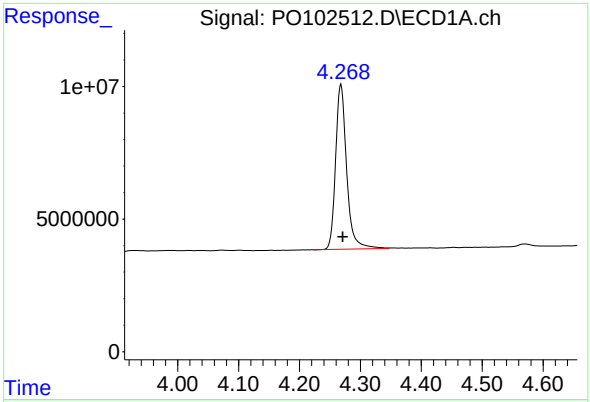
**Instrument :**
ECD_O
**ClientSampleId :**
PB159587BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:27:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



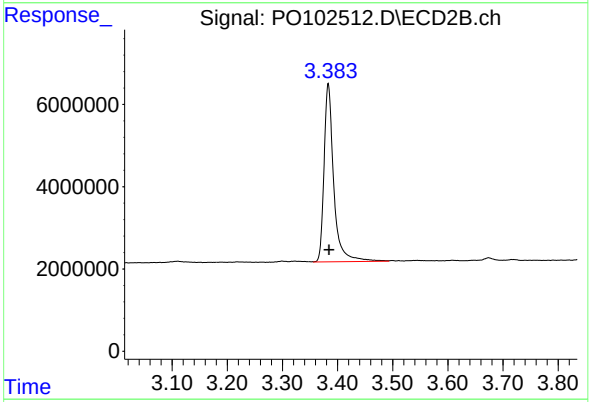






#1 Tetrachloro-m-xylene

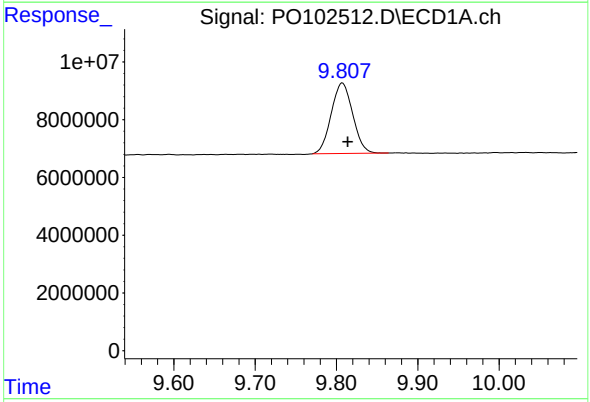
R.T.: 4.268 min
Delta R.T.: -0.003 min
Response: 78419573
Conc: 19.13 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PB159587BL



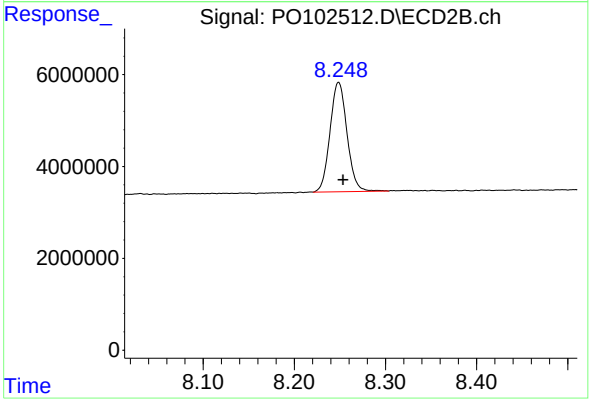

#1 Tetrachloro-m-xylene

R.T.: 3.383 min
Delta R.T.: -0.002 min
Response: 52772363
Conc: 18.83 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.807 min
Delta R.T.: -0.007 min
Response: 44927589
Conc: 23.66 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.249 min
Delta R.T.: -0.005 min
Response: 30817463
Conc: 25.00 ng/ml

Raw Data: **PO102529.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | |
| Client Sample ID: | PB159600BL | SDG No.: | P1747 |
| Lab Sample ID: | PB159600BL | Matrix: | WATER |
| Analytical Method: | 608.3 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102529.D | 1 | 03/14/24 10:05 | 03/15/24 00:46 | PB159600 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.015 | U | 0.015 | 0.050 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.023 | U | 0.023 | 0.050 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.037 | U | 0.037 | 0.050 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.016 | U | 0.016 | 0.050 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.012 | U | 0.012 | 0.050 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.011 | U | 0.011 | 0.050 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.015 | U | 0.015 | 0.050 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 15.6 | | 60 - 140 | 78% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 20.6 | | 60 - 140 | 103% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Sample Results: **PO102529.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102529.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:46
Operator : YP/AJ
Sample : PB159600BL
Misc :
ALS Vial : 41 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159600BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.267 | 3.383 | 64461771 | 43609373 | 15.727 | 15.564 |
| 2) | SA Decachlor... | 9.808 | 8.247 | 39168640 | 27297752 | 20.627 | 22.142 |
| | Target Compounds | | | | | | |

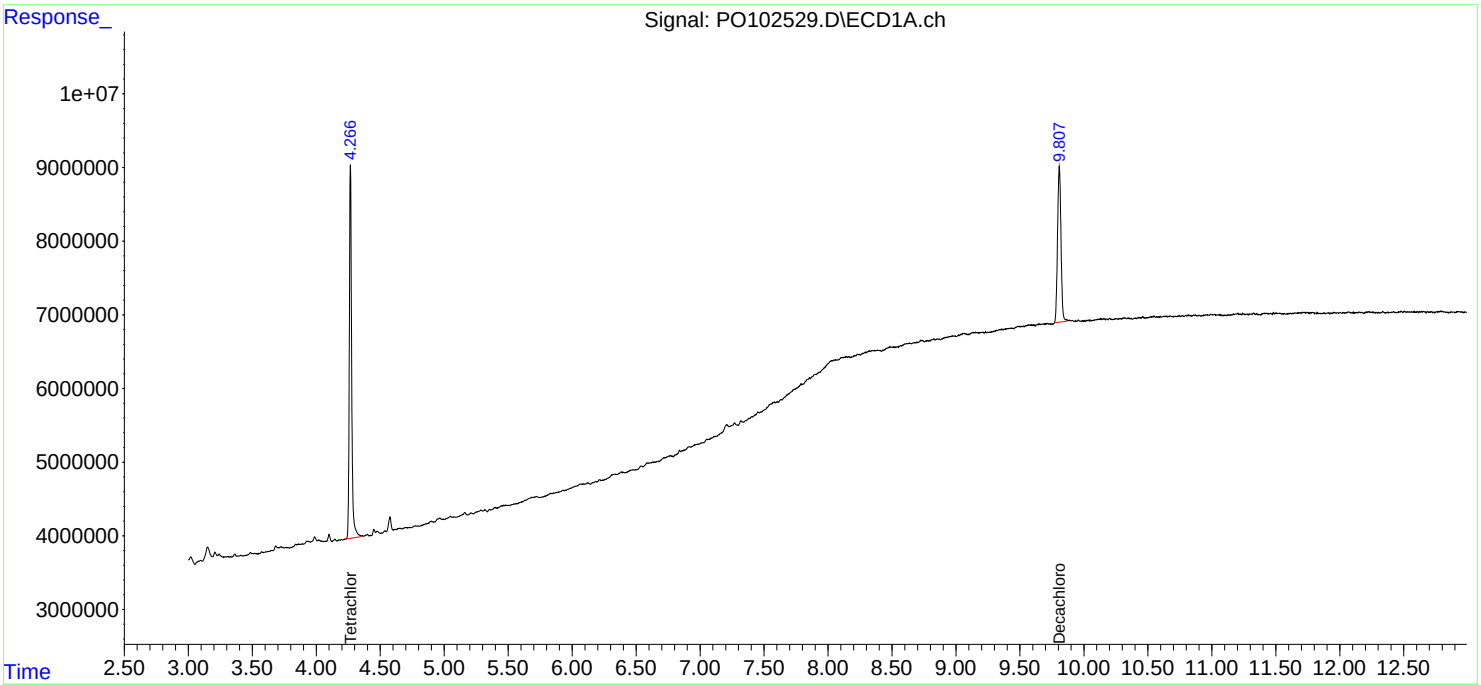
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

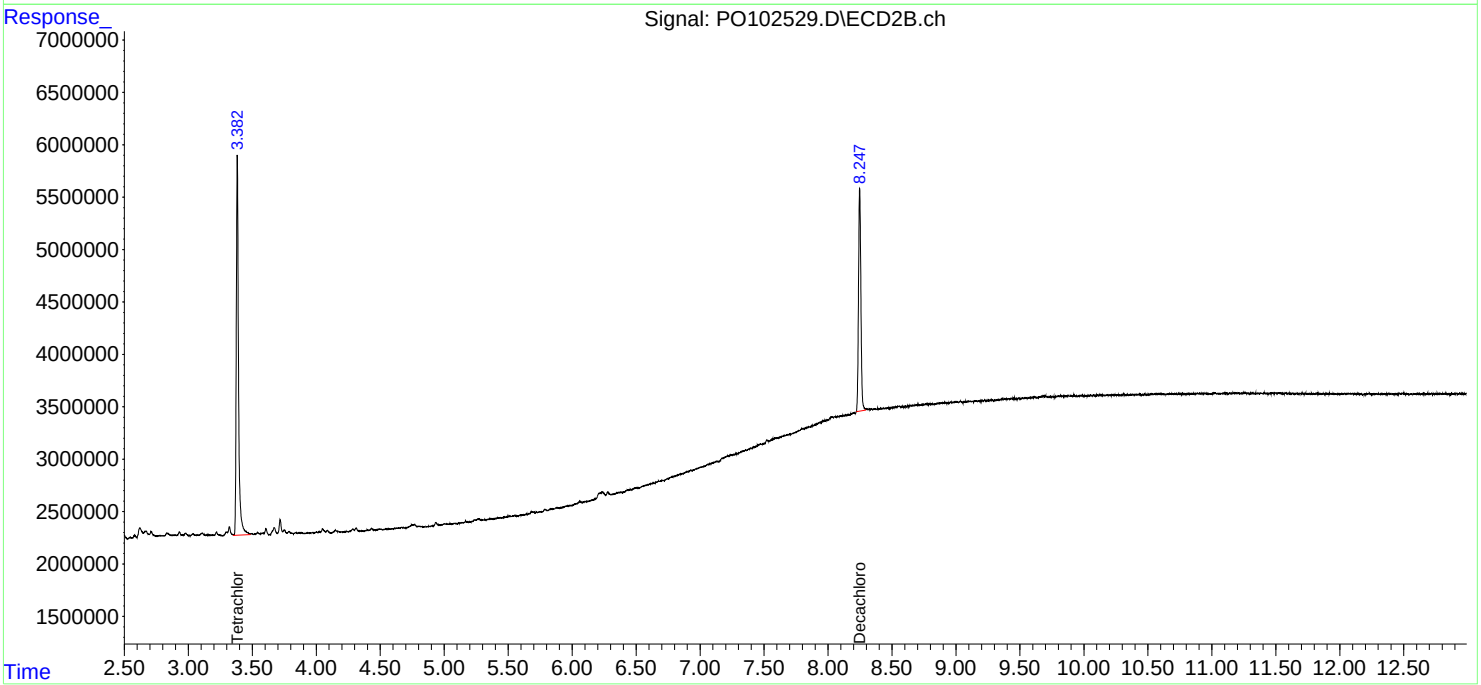
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102529.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:46
Operator : YP/AJ
Sample : PB159600BL
Misc :
ALS Vial : 41 Sample Multiplier: 1

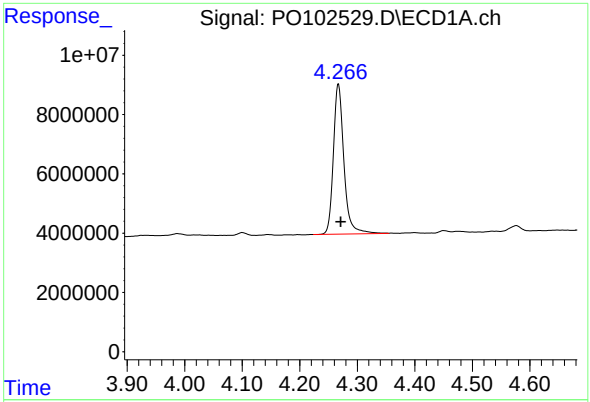
**Instrument :**
ECD_O
**ClientSampleId :**
PB159600BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:28 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



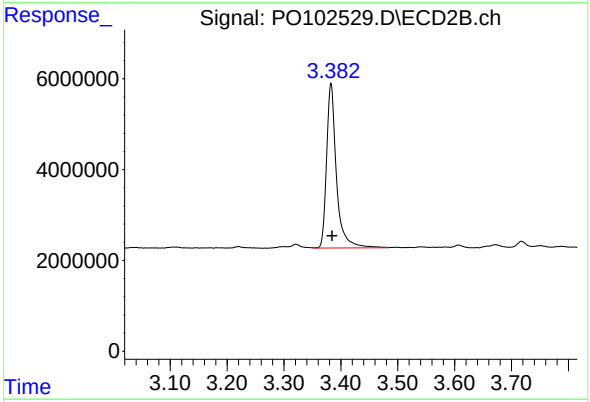






#1 Tetrachloro-m-xylene

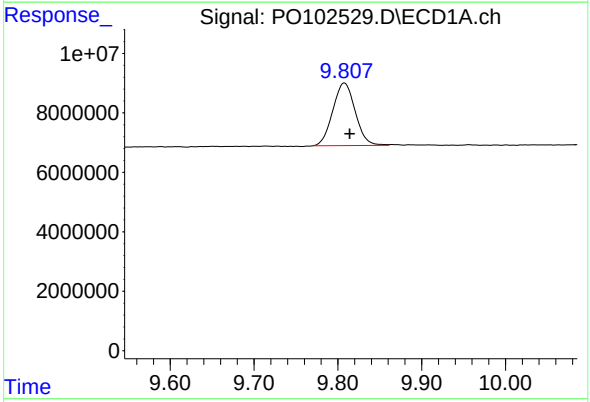
R.T.: 4.267 min
Delta R.T.: -0.004 min
Response: 64461771
Conc: 15.73 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
PB159600BL



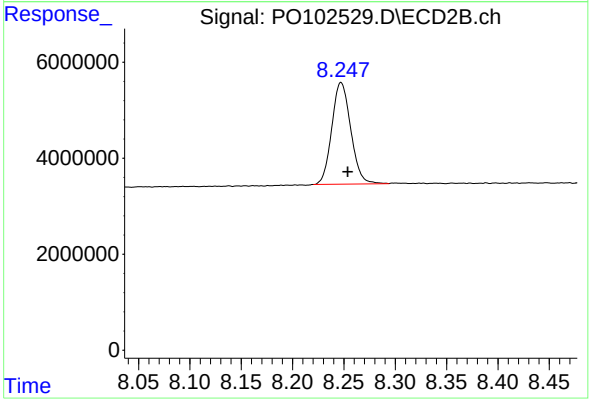

#1 Tetrachloro-m-xylene

R.T.: 3.383 min
Delta R.T.: -0.002 min
Response: 43609373
Conc: 15.56 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.808 min
Delta R.T.: -0.006 min
Response: 39168640
Conc: 20.63 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.247 min
Delta R.T.: -0.006 min
Response: 27297752
Conc: 22.14 ng/ml

Raw Data: **PO102408.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/12/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/12/24 |
| Client Sample ID: | PIBLK-PO102408.D | SDG No.: | P1747 |
| Lab Sample ID: | I.BLK-PO102408.D | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102408.D | 1 | | 03/12/24 | po031224 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 17.6 | | 60 - 140 | 88% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 18.3 | | 60 - 140 | 92% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 14:49
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:53:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.270 | 3.384 | 73428161 | 49309318 | 17.914 | 17.598 |
| 2) | SA Decachlor... | 9.814 | 8.254 | 34950650 | 22578257 | 18.406 | 18.314 |
| | Target Compounds | | | | | | |

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

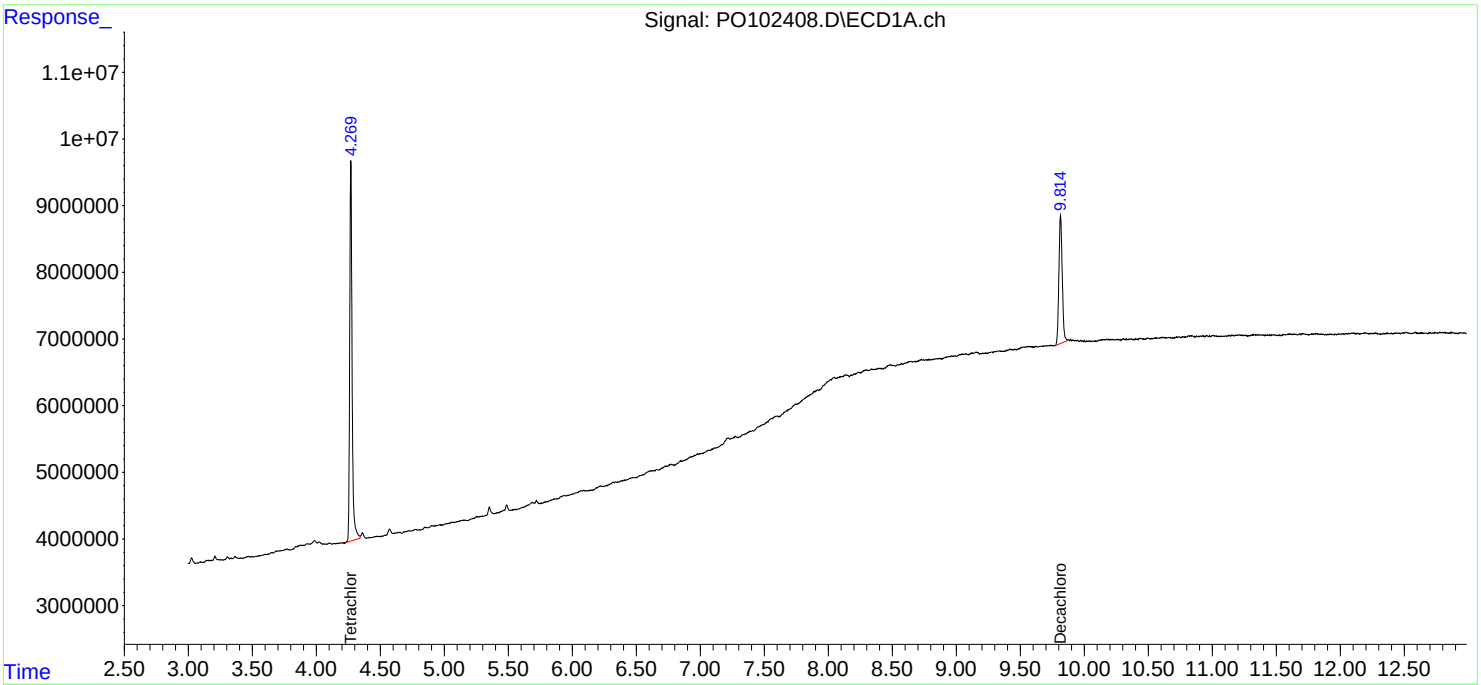
Sample Results: **PO102408.D**

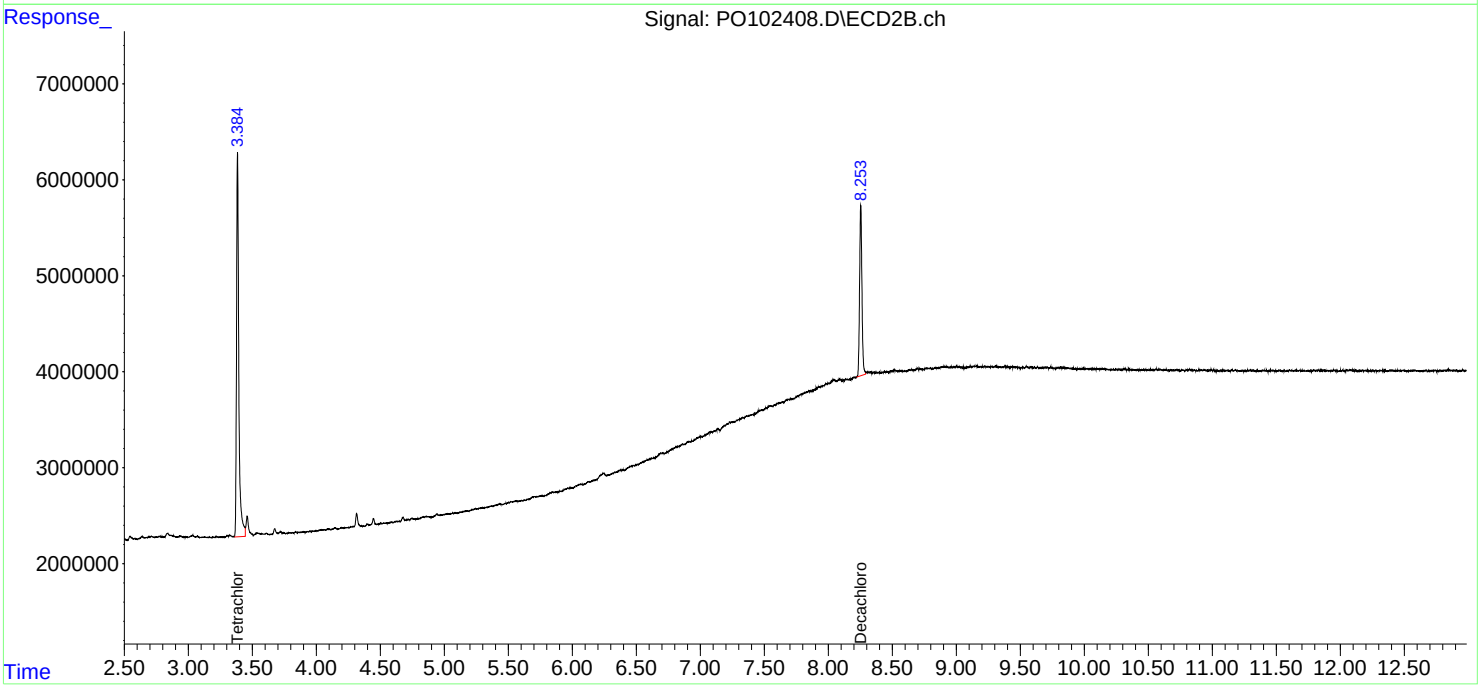
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031224\
Data File : PO102408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 Mar 2024 14:49
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

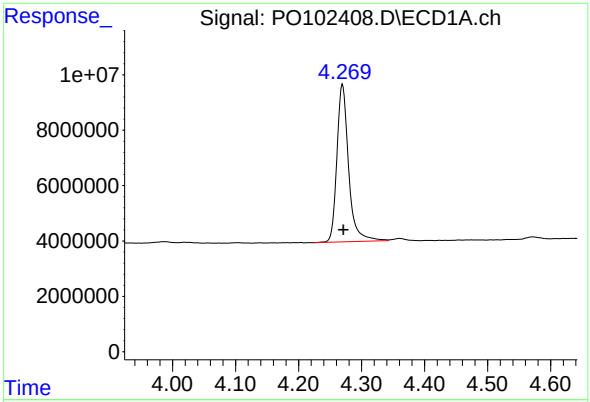
**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 13 04:53:35 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



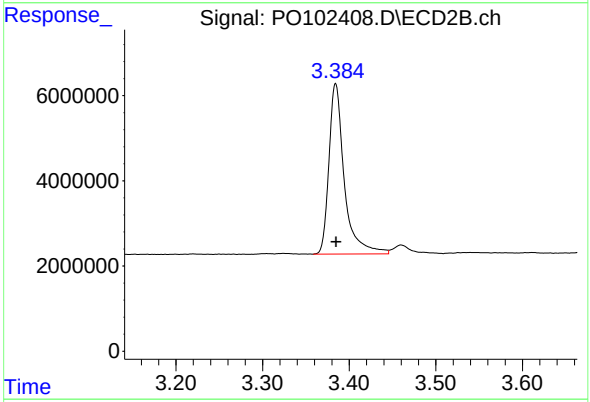






#1 Tetrachloro-m-xylene

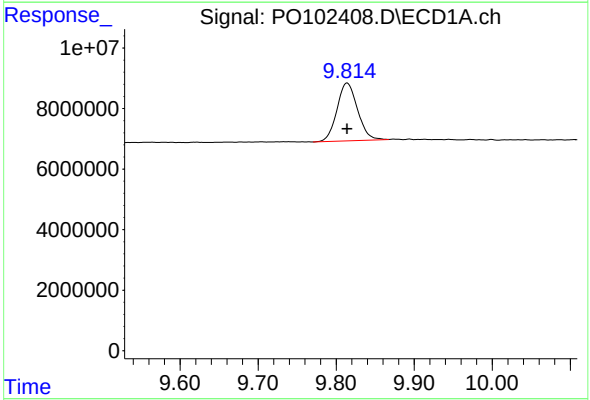
R.T.: 4.270 min
Delta R.T.: -0.001 min
Response: 73428161
Conc: 17.91 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK



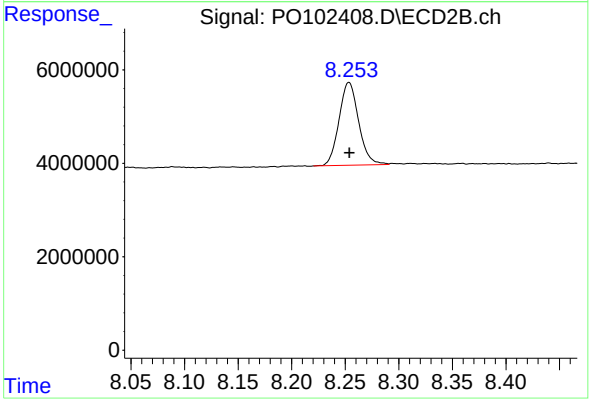

#1 Tetrachloro-m-xylene

R.T.: 3.384 min
Delta R.T.: 0.000 min
Response: 49309318
Conc: 17.60 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.814 min
Delta R.T.: 0.000 min
Response: 34950650
Conc: 18.41 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.254 min
Delta R.T.: 0.000 min
Response: 22578257
Conc: 18.31 ng/ml

Raw Data: **PO102500.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/14/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/14/24 |
| Client Sample ID: | PIBLK-PO102500.D | SDG No.: | P1747 |
| Lab Sample ID: | I.BLK-PO102500.D | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102500.D | 1 | | 03/14/24 | PO031424 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.9 | | 60 - 140 | 100% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 26.1 | | 60 - 140 | 131% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102500.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 15:46
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:19:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 81830359 | 55857241 | 19.964 | 19.935 |
| 2) | SA Decachlor... | 9.809 | 8.250 | 49664851 | 33857869 | 26.155 | 27.463 |
| | Target Compounds | | | | | | |

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

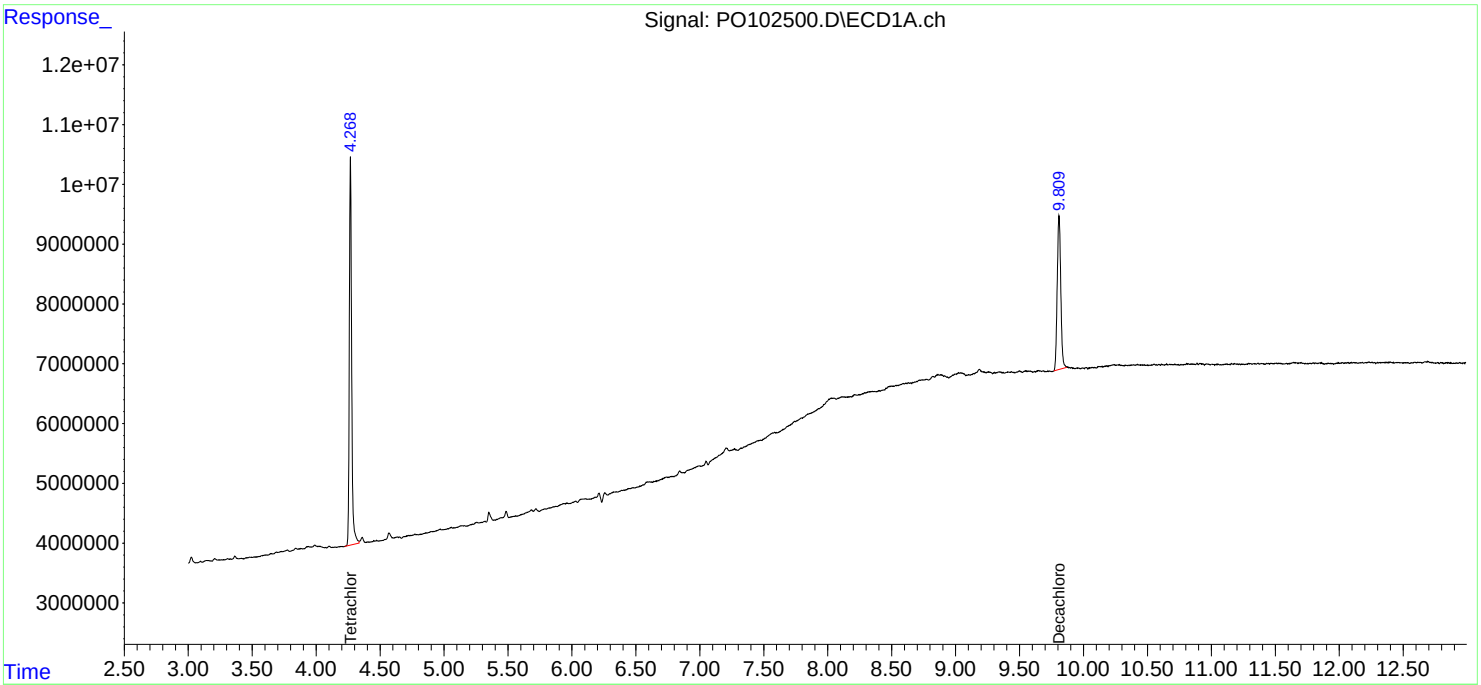
Sample Results: **PO102500.D**

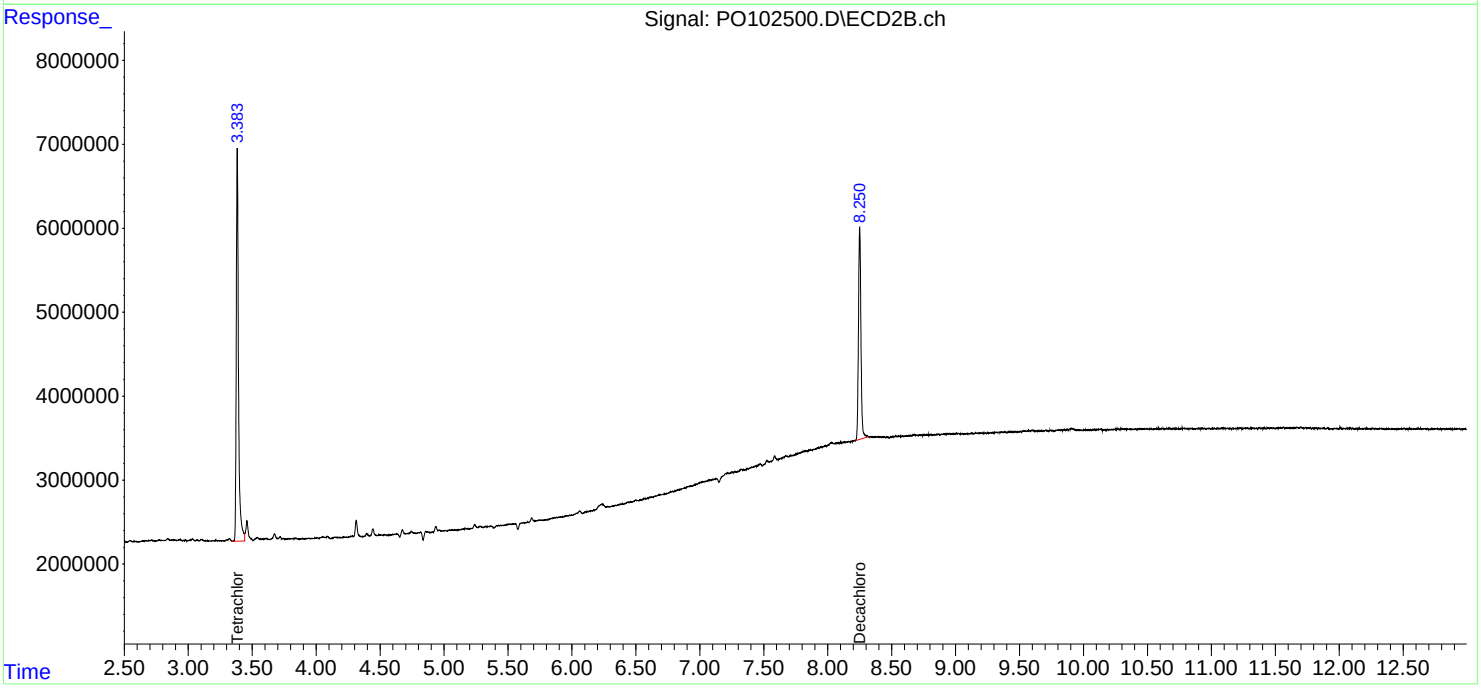
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102500.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 15:46
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

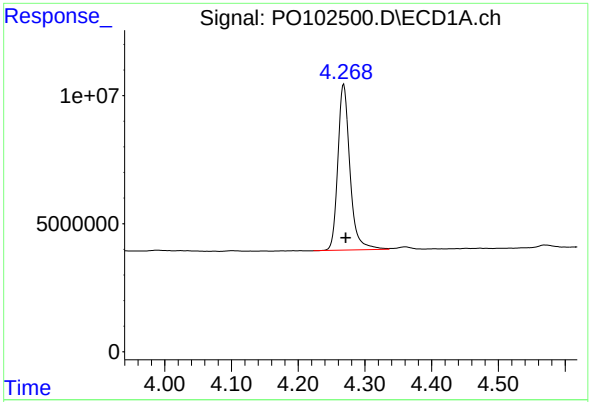
**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:19:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



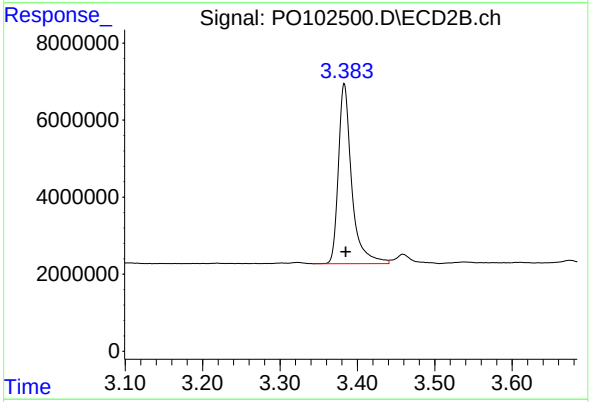






#1 Tetrachloro-m-xylene

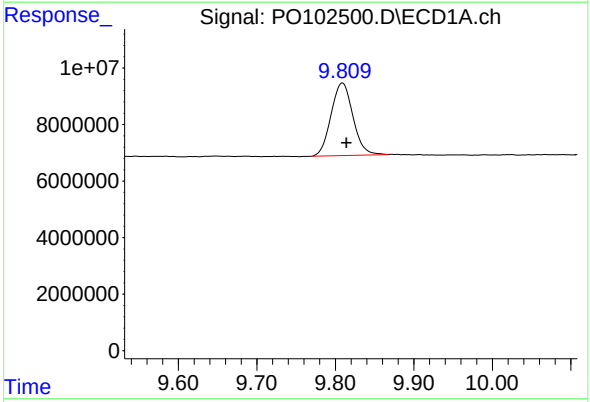
R.T.: 4.268 min
Delta R.T.: -0.003 min
Response: 81830359
Conc: 19.96 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK



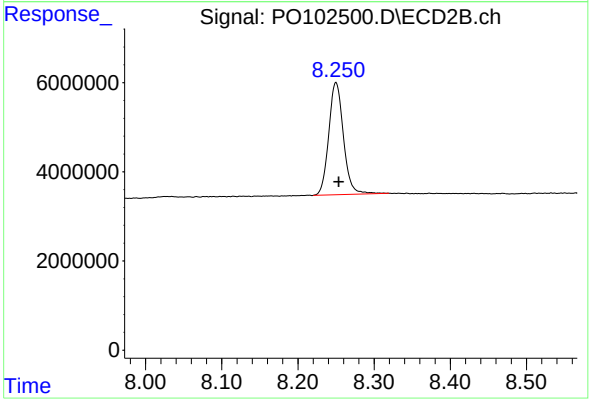

#1 Tetrachloro-m-xylene

R.T.: 3.383 min
Delta R.T.: -0.002 min
Response: 55857241
Conc: 19.93 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.809 min
Delta R.T.: -0.005 min
Response: 49664851
Conc: 26.15 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.250 min
Delta R.T.: -0.004 min
Response: 33857869
Conc: 27.46 ng/ml

Raw Data: **PO102520.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/14/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/14/24 |
| Client Sample ID: | PIBLK-PO102520.D | SDG No.: | P1747 |
| Lab Sample ID: | I.BLK-PO102520.D | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102520.D | 1 | | 03/14/24 | PO031424 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.7 | | 60 - 140 | 104% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 27.7 | | 60 - 140 | 138% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102520.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 21:43
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.267 | 3.382 | 84847196 | 58556921 | 20.700 | 20.898 |
| 2) | SA Decachlor... | 9.806 | 8.248 | 52518862 | 36646649 | 27.658 | 29.726 |
| | Target Compounds | | | | | | |

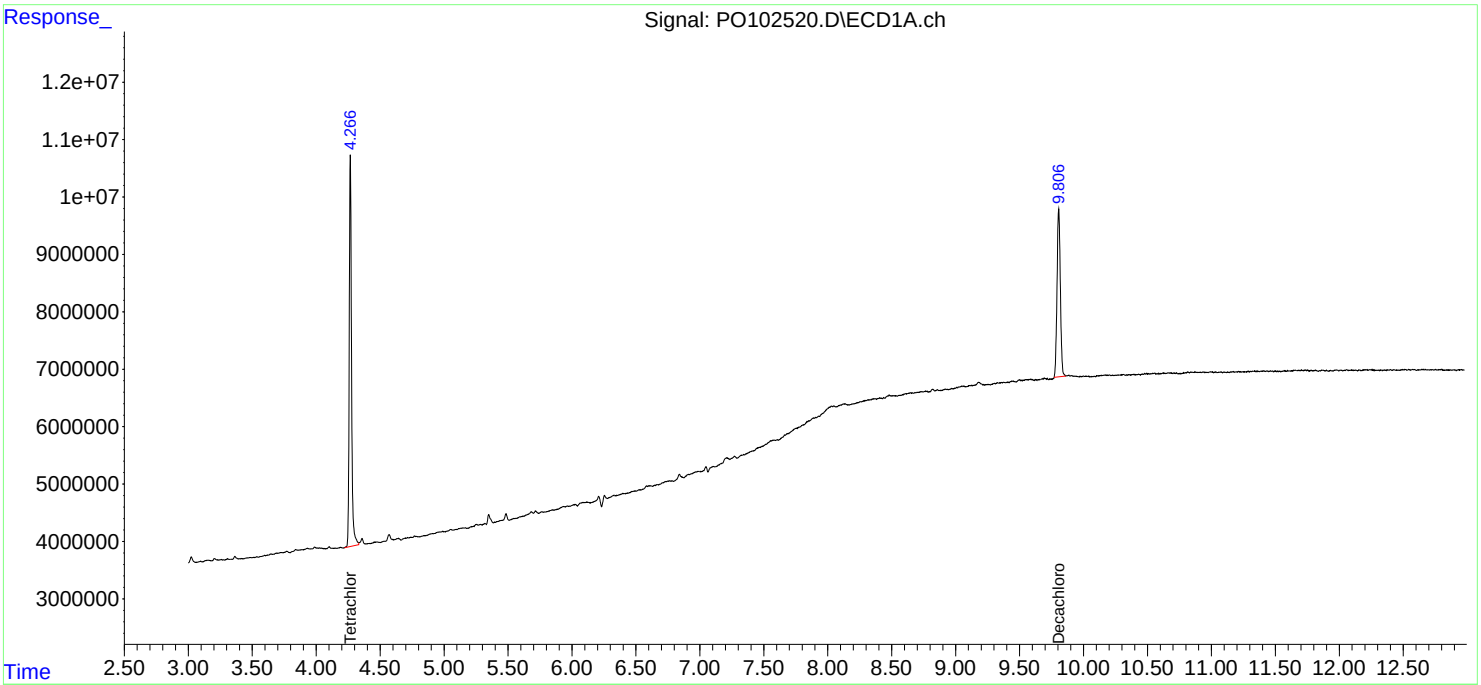
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

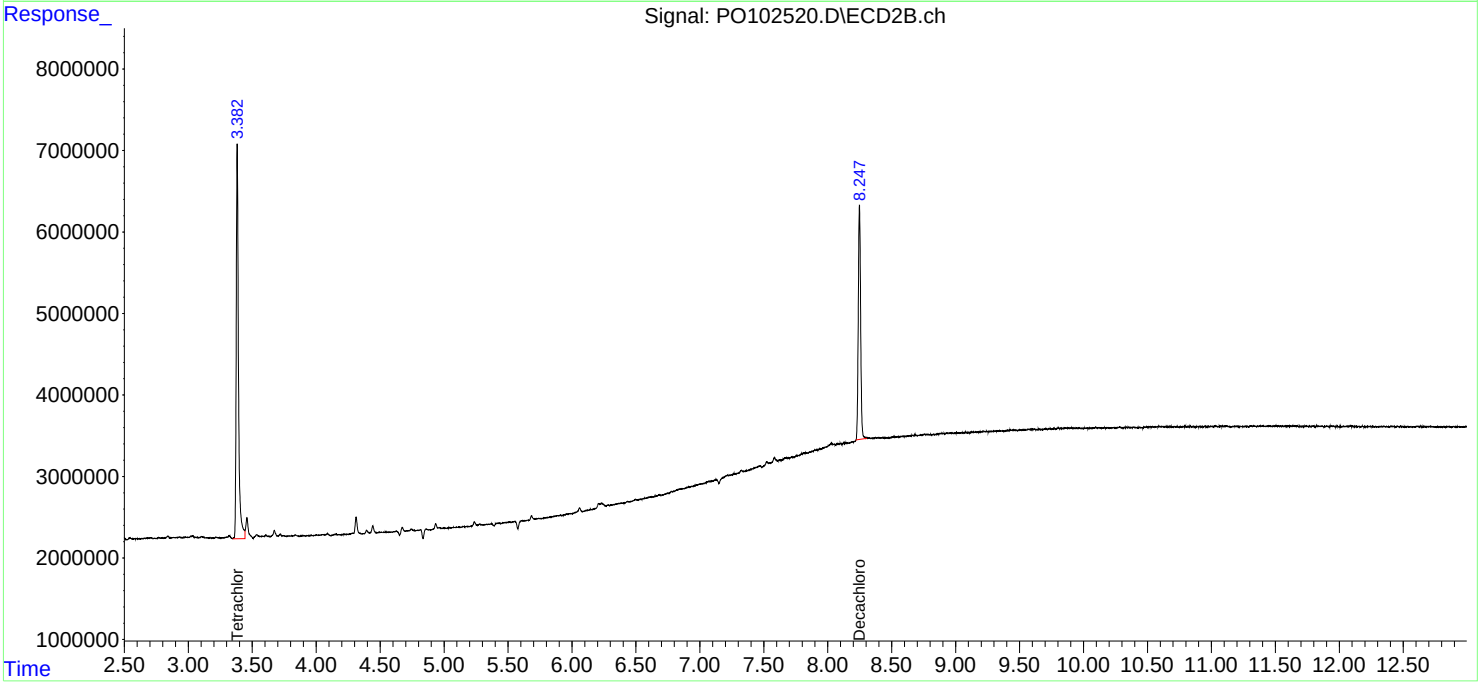
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102520.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 21:43
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

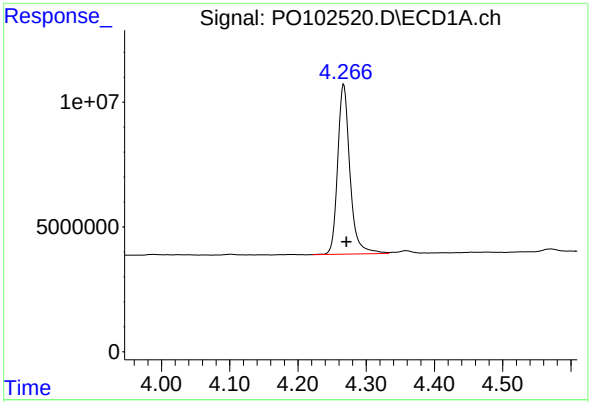
**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 00:27:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



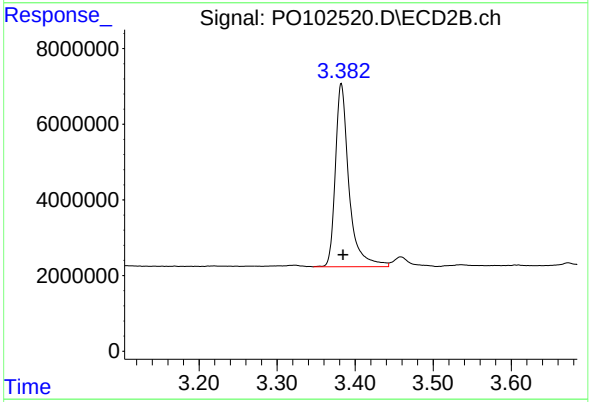






#1 Tetrachloro-m-xylene

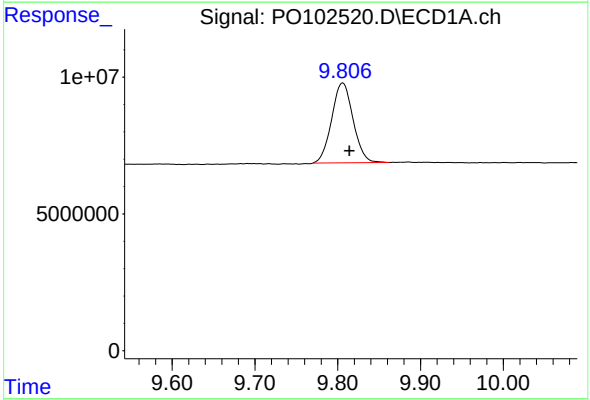
R.T.: 4.267 min
Delta R.T.: -0.004 min
Response: 84847196
Conc: 20.70 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK



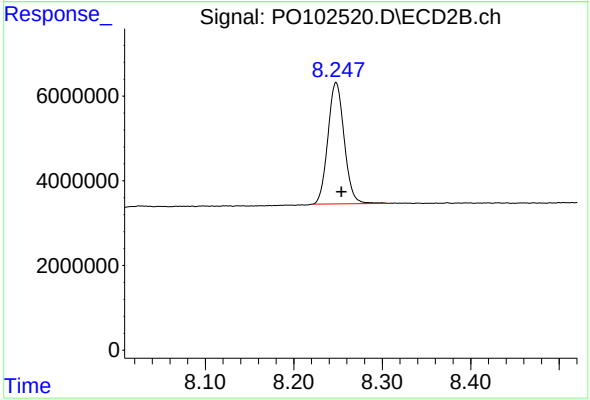

#1 Tetrachloro-m-xylene

R.T.: 3.382 min
Delta R.T.: -0.002 min
Response: 58556921
Conc: 20.90 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 52518862
Conc: 27.66 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.248 min
Delta R.T.: -0.006 min
Response: 36646649
Conc: 29.73 ng/ml

Raw Data: **PO102532.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | 03/15/24 |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | 03/15/24 |
| Client Sample ID: | PIBLK-PO102532.D | SDG No.: | P1747 |
| Lab Sample ID: | I.BLK-PO102532.D | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102532.D | 1 | | 03/15/24 | PO031424 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.15 | U | 0.15 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 21.2 | | 60 - 140 | 106% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 28.0 | | 60 - 140 | 140% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Sample Results: **PO102532.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102532.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 02:06
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.266 | 3.382 | 86933549 | 59476177 | 21.209 | 21.226 |
| 2) | SA Decachlor... | 9.806 | 8.247 | 53134597 | 36627686 | 27.982 | 29.710 |
| | Target Compounds | | | | | | |

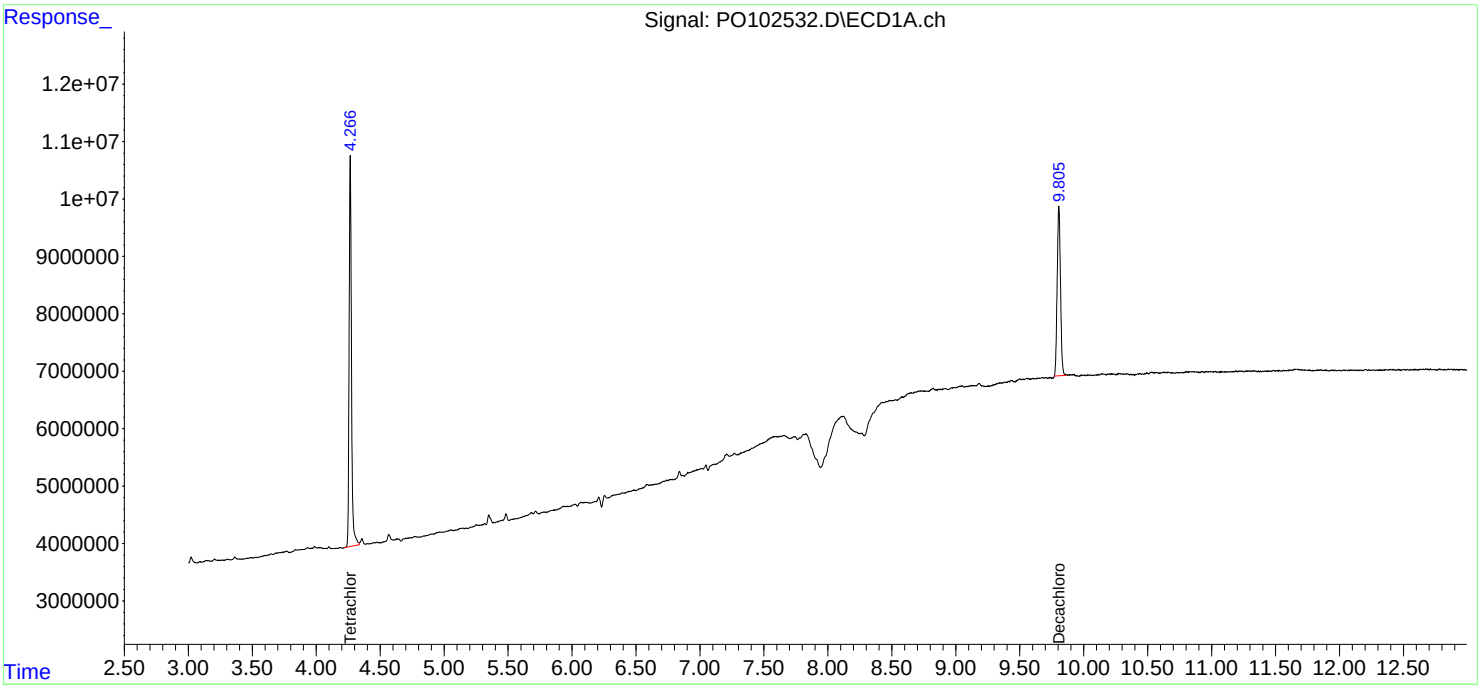
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

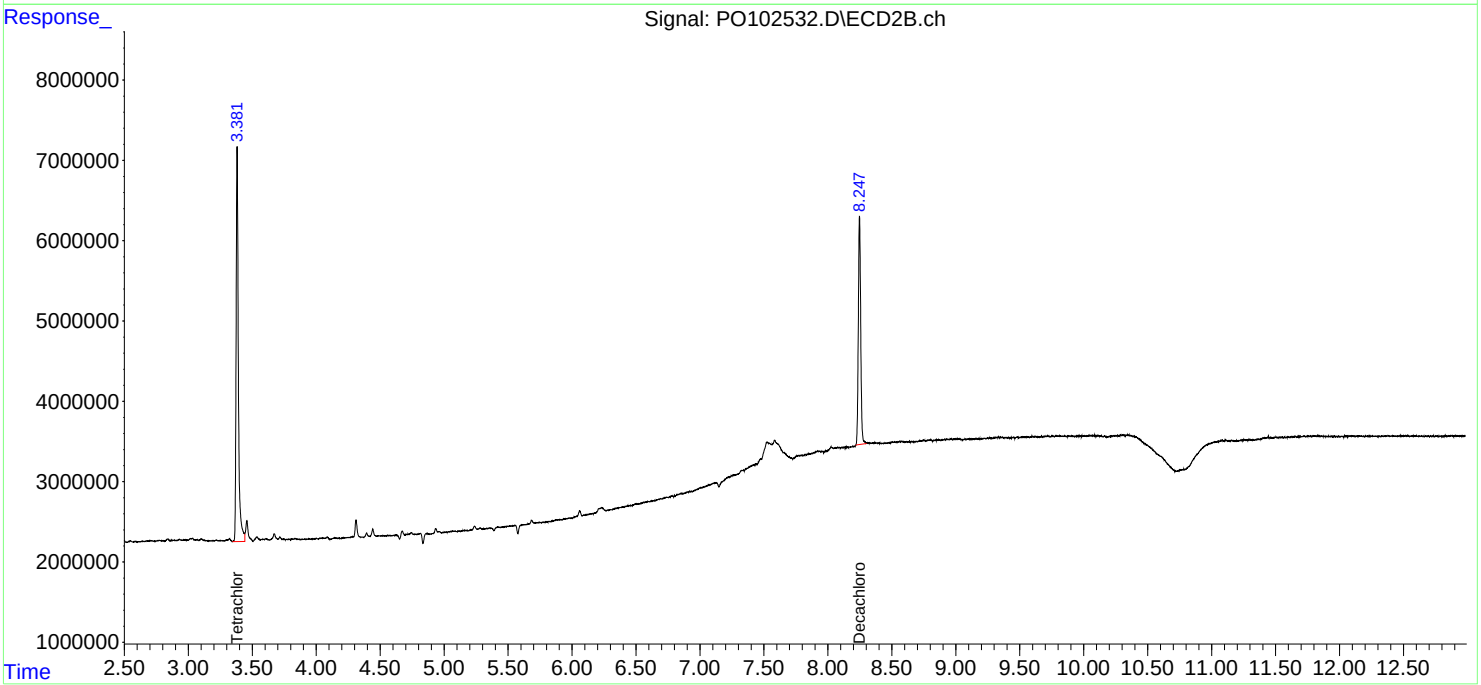
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102532.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 02:06
Operator : YP/AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

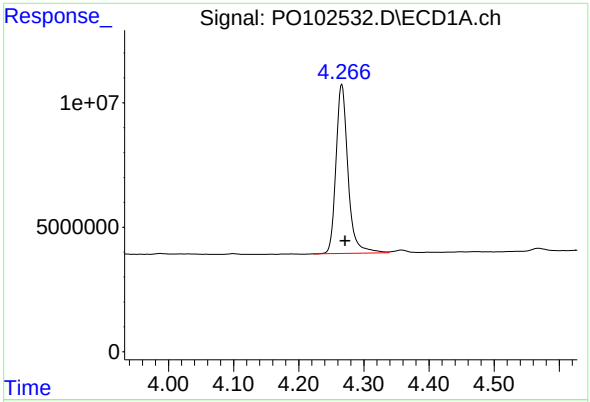
**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:41:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



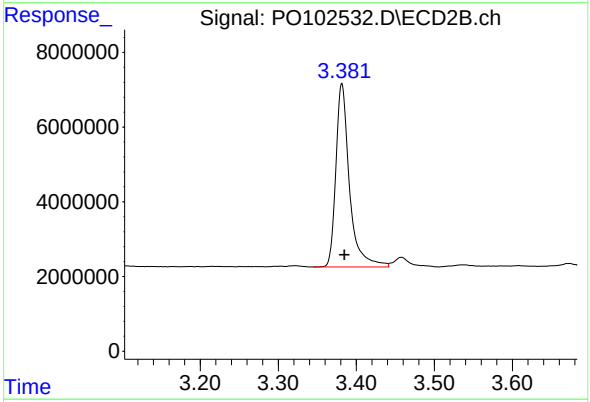






#1 Tetrachloro-m-xylene

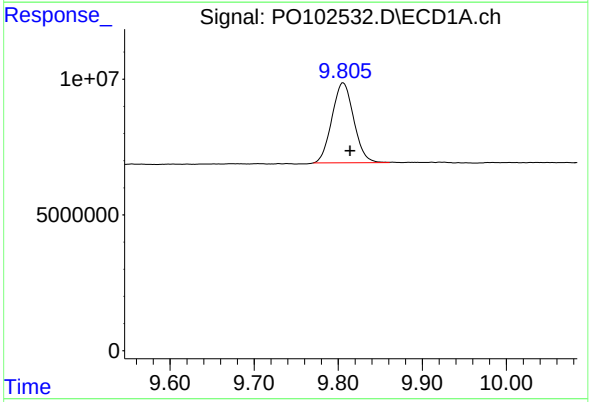
R.T.: 4.266 min
Delta R.T.: -0.005 min
Response: 86933549
Conc: 21.21 ng/ml

**Instrument :**
ECD_O
**ClientSampleId :**
I.BLK



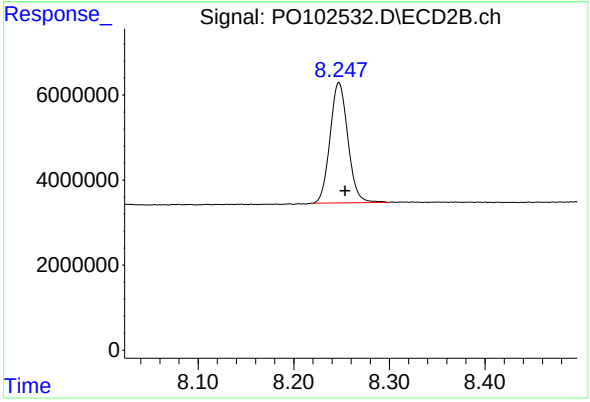

#1 Tetrachloro-m-xylene

R.T.: 3.382 min
Delta R.T.: -0.003 min
Response: 59476177
Conc: 21.23 ng/ml




#2 Decachlorobiphenyl

R.T.: 9.806 min
Delta R.T.: -0.008 min
Response: 53134597
Conc: 27.98 ng/ml




#2 Decachlorobiphenyl

R.T.: 8.247 min
Delta R.T.: -0.006 min
Response: 36627686
Conc: 29.71 ng/ml

Raw Data: **PO102513.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | |
| Client Sample ID: | PB159587BS | SDG No.: | P1747 |
| Lab Sample ID: | PB159587BS | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102513.D | 1 | 03/14/24 10:51 | 03/14/24 19:29 | PB159587 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 5.30 | | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 5.20 | | 0.15 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 20.0 | | 21 - 155 | 100% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 25.7 | | 10 - 173 | 128% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102513.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:29
Operator : YP/AJ
Sample : PB159587BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159587BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:28:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | | |
| 1) | SA | Tetrachlo... | 4.268 | 3.383 | 82054408 | 49595068 | 20.019 | 17.700 |
| 2) | SA | Decachlor... | 9.806 | 8.248 | 45875129 | 31632105 | 24.159 | 25.658 |
| | Target Compounds | | | | | | | |
| 3) | L1 | AR-1016-1 | 5.412 | 4.434 | 53072985 | 33414917 | 531.227 | 533.261 |
| 4) | L1 | AR-1016-2 | 5.434 | 4.452 | 77643677 | 47513827 | 535.342 | 547.734 |
| 5) | L1 | AR-1016-3 | 5.495 | 4.624 | 50133125 | 26548917 | 536.501 | 528.278 |
| 6) | L1 | AR-1016-4 | 5.592 | 4.665 | 40154621 | 24084225 | 530.812 | 511.821 |
| 7) | L1 | AR-1016-5 | 5.882 | 4.873 | 41073659 | 28953615 | 501.975 | 503.595 |
| 31) | L7 | AR-1260-1 | 6.992 | 5.885 | 68288328 | 53800422 | 498.595 | 512.656 |
| 32) | L7 | AR-1260-2 | 7.247 | 6.071 | 72654671 | 61238326 | 551.450 | 560.118 |
| 33) | L7 | AR-1260-3 | 7.603 | 6.220 | 47053457 | 58279204 | 461.516 | 516.777 |
| 34) | L7 | AR-1260-4 | 7.825 | 6.685 | 56705261 | 41227901 | 490.301 | 483.258 |
| 35) | L7 | AR-1260-5 | 8.131 | 6.926 | 99453482 | 88244516 | 511.569 | 544.917 |

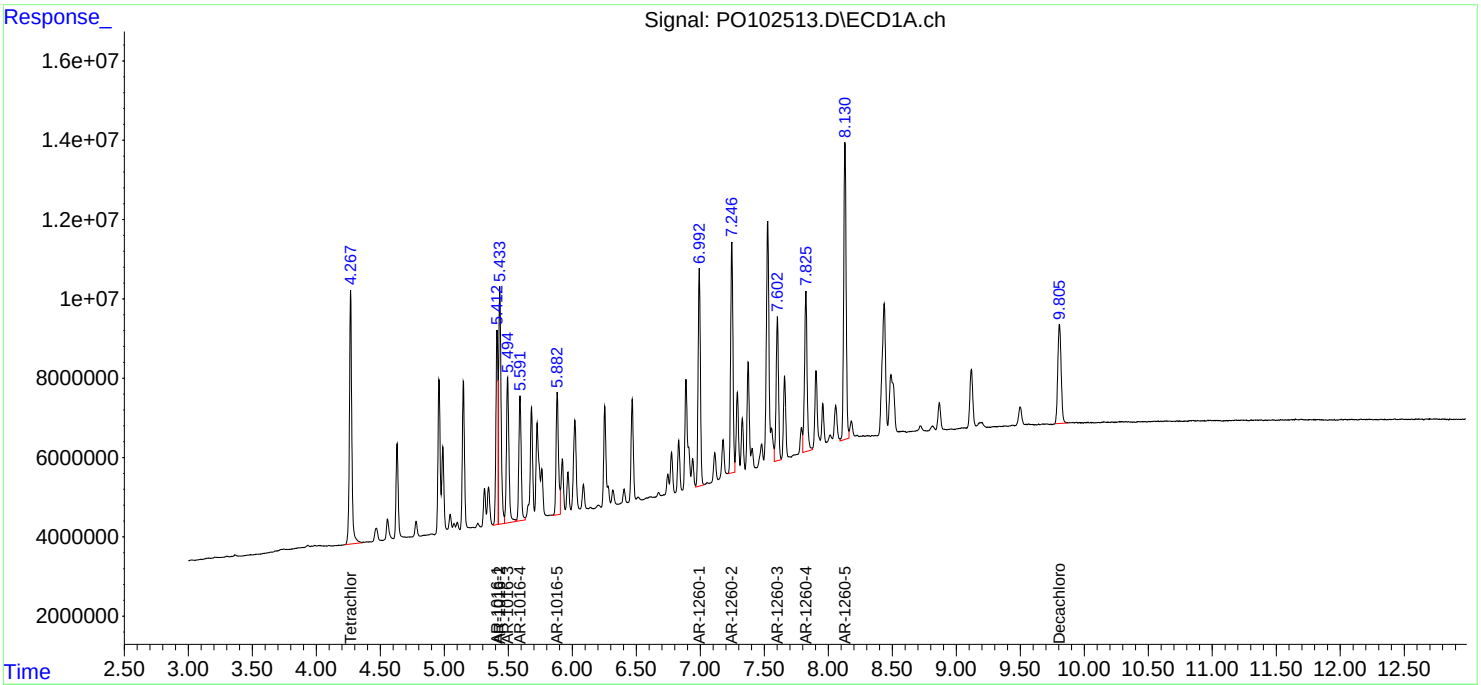
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

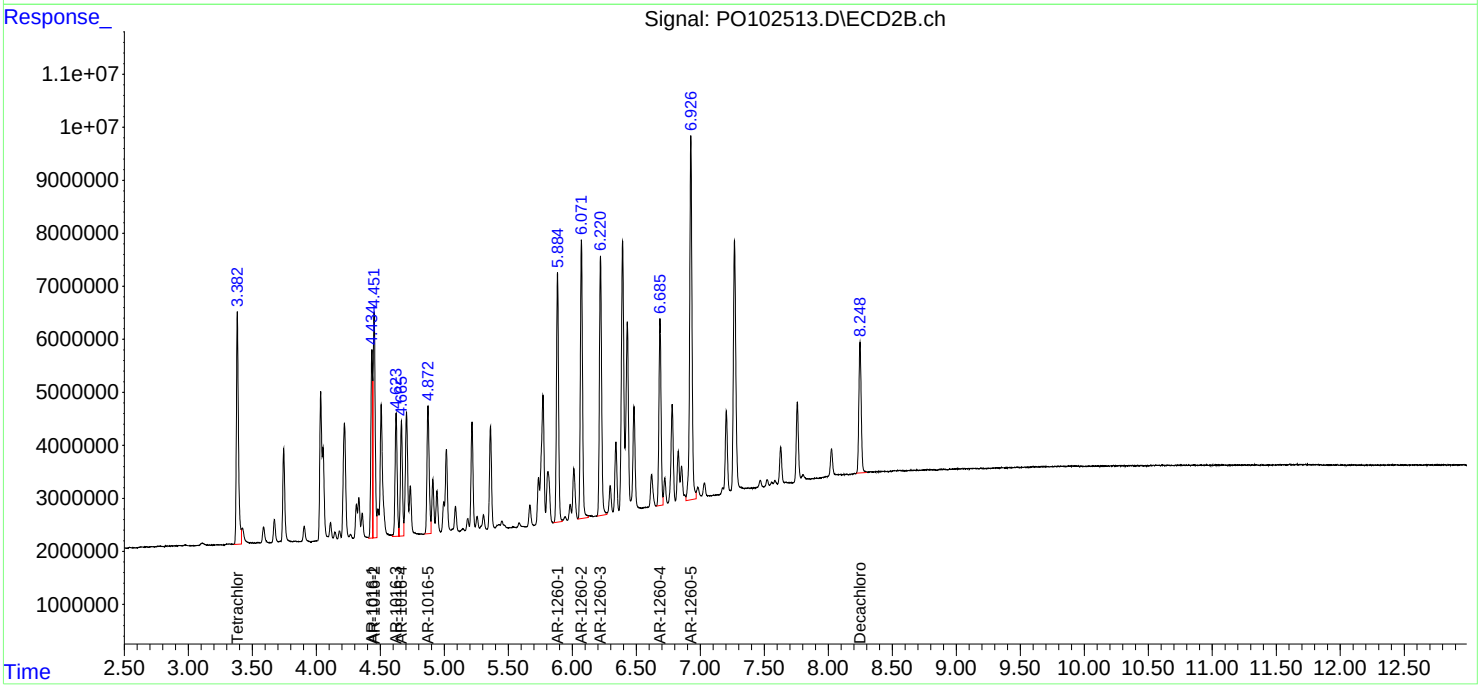
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102513.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:29
Operator : YP/AJ
Sample : PB159587BS
Misc :
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159587BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:28:31 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Raw Data: **PO102527.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | |
| Client Sample ID: | PB159600BS | SDG No.: | P1747 |
| Lab Sample ID: | PB159600BS | Matrix: | WATER |
| Analytical Method: | 608.3 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102527.D | 1 | 03/14/24 10:05 | 03/15/24 00:12 | PB159600 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.053 | | 0.015 | 0.050 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.023 | U | 0.023 | 0.050 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.037 | U | 0.037 | 0.050 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.016 | U | 0.016 | 0.050 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.012 | U | 0.012 | 0.050 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.011 | U | 0.011 | 0.050 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.050 | J | 0.015 | 0.050 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 15.7 | | 60 - 140 | 79% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 20.7 | | 60 - 140 | 103% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Sample Results: **PO102527.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102527.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:12
Operator : YP/AJ
Sample : PB159600BS
Misc :
ALS Vial : 39 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159600BS

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:39:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 64380422 | 44110181 | 15.707 | 15.742 |
| 2) | SA Decachlor... | 9.807 | 8.249 | 39237328 | 27262464 | 20.663 | 22.114 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.411 | 4.433 | 5862975 | 4155492 | 58.685m | 66.317m |
| 4) | L1 AR-1016-2 | 5.434 | 4.451 | 8012888 | 5310933 | 55.248m | 61.224m |
| 5) | L1 AR-1016-3 | 5.494 | 4.623 | 4897047 | 3022210 | 52.406m | 60.137m |
| 6) | L1 AR-1016-4 | 5.591 | 4.665 | 3912402 | 2701274 | 51.719m | 57.406m |
| 7) | L1 AR-1016-5 | 5.882 | 4.873 | 3859417 | 3115855 | 47.167m | 54.195m |
| 31) | L7 AR-1260-1 | 6.992 | 5.884 | 7144974 | 6112652 | 52.168m | 58.247m |
| 32) | L7 AR-1260-2 | 7.247 | 6.071 | 7301245 | 7331796 | 55.417 | 67.060m |
| 33) | L7 AR-1260-3 | 7.602 | 6.221 | 4246549 | 7642069 | 41.652m | 67.764m# |
| 34) | L7 AR-1260-4 | 7.826 | 6.685 | 5956422 | 4415769 | 51.502 | 51.760 |
| 35) | L7 AR-1260-5 | 8.130 | 6.926 | 9136112 | 9204604 | 46.994m | 56.839 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102527.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:12
Operator : YP/AJ
Sample : PB159600BS
Misc :
ALS Vial : 39 Sample Multiplier: 1

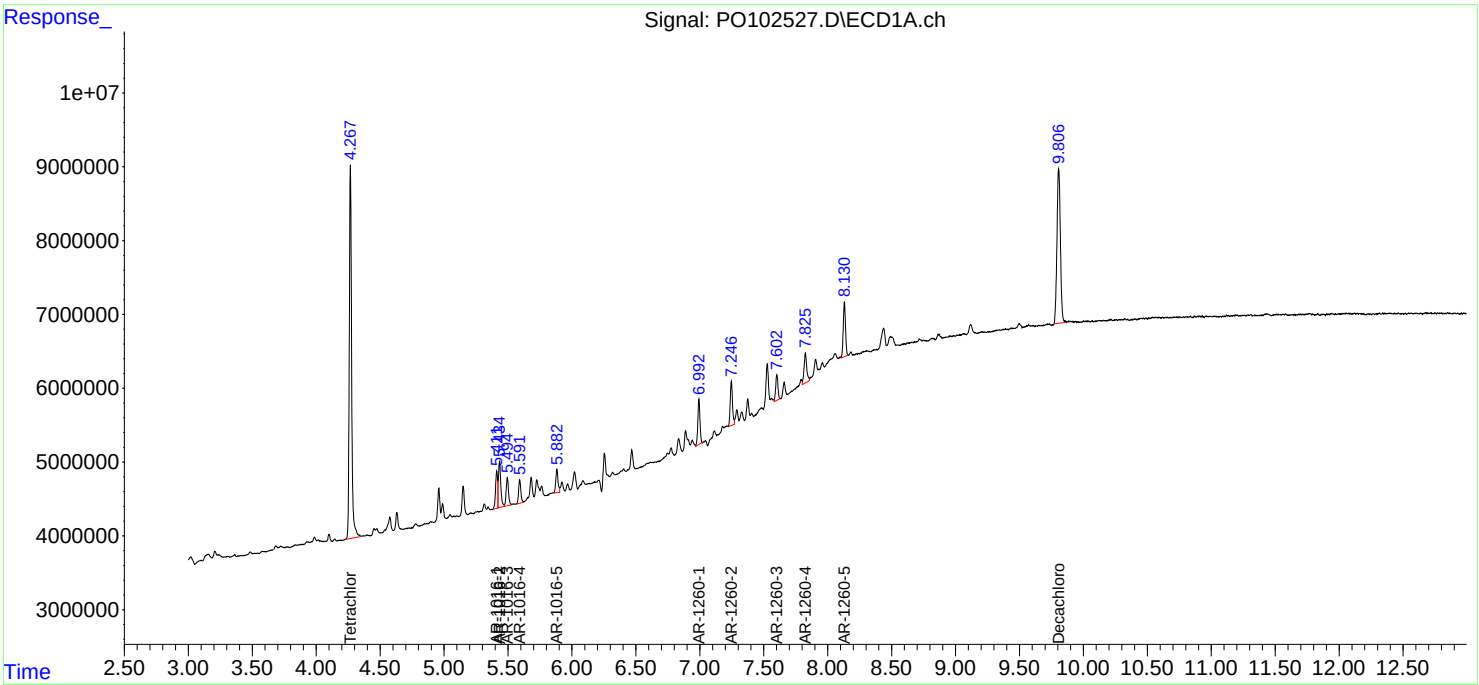
**Instrument :**
ECD_O
**ClientSampleId :**
PB159600BS

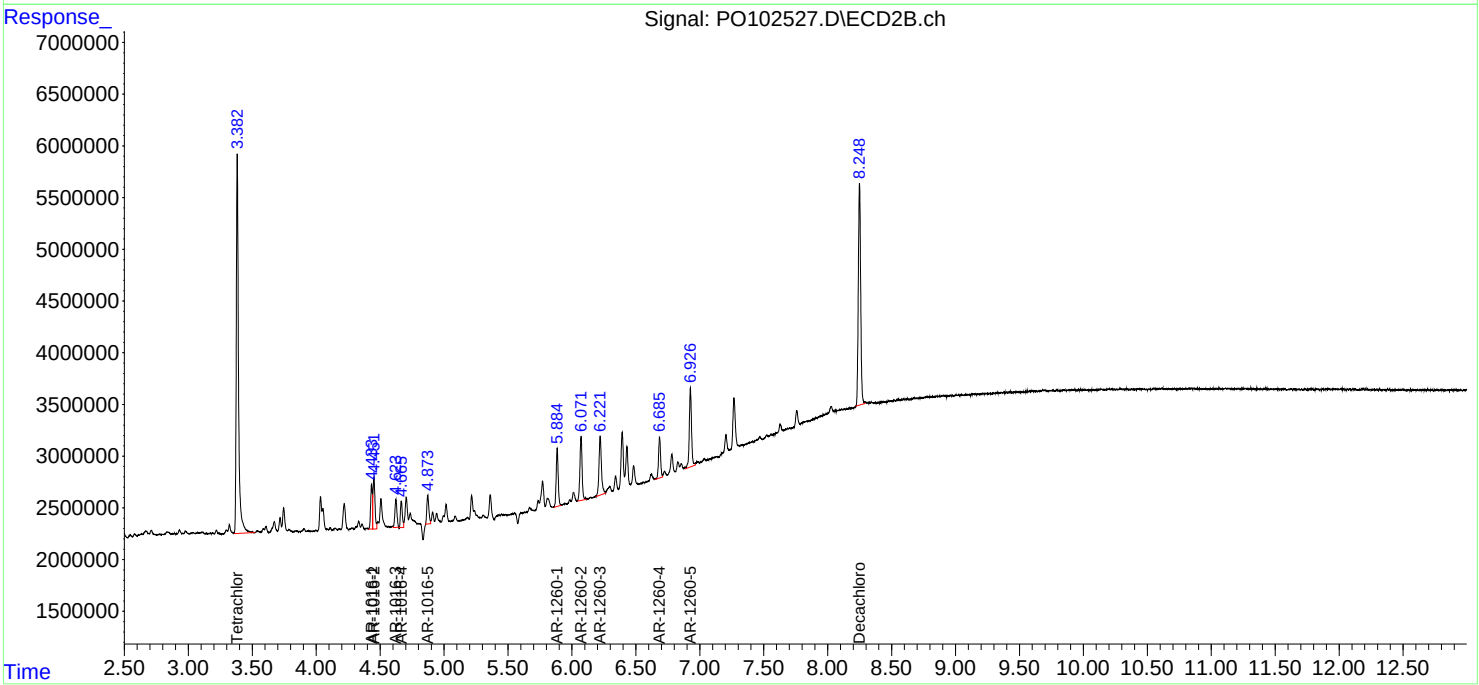
**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel 03/15/2024
Supervised By :Ankita Jodhani 03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:39:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Raw Data: **PO102514.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | |
| Client Sample ID: | PB159587BSD | SDG No.: | P1747 |
| Lab Sample ID: | PB159587BSD | Matrix: | WATER |
| Analytical Method: | SW8082A | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 10000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 3510C | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102514.D | 1 | 03/14/24 10:51 | 03/14/24 19:46 | PB159587 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 5.20 | | 0.15 | 0.50 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.23 | U | 0.23 | 0.50 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.37 | U | 0.37 | 0.50 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.16 | U | 0.16 | 0.50 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.11 | U | 0.11 | 0.50 | ug/L |
| 37324-23-5 | Aroclor-1262 | 0.14 | U | 0.14 | 0.50 | ug/L |
| 11100-14-4 | Aroclor-1268 | 0.12 | U | 0.12 | 0.50 | ug/L |
| 11096-82-5 | Aroclor-1260 | 5.20 | | 0.15 | 0.50 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 19.5 | | 21 - 155 | 97% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 25.1 | | 10 - 173 | 126% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102514.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:46
Operator : YP/AJ
Sample : PB159587BSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159587BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:29:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 79792094 | 49136647 | 19.467 | 17.536 |
| 2) | SA Decachlor... | 9.806 | 8.248 | 45053053 | 31002084 | 23.726 | 25.147 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.412 | 4.434 | 51659845 | 32836941 | 517.082 | 524.037 |
| 4) | L1 AR-1016-2 | 5.434 | 4.452 | 75408448 | 46757618 | 519.931 | 539.017 |
| 5) | L1 AR-1016-3 | 5.495 | 4.623 | 48370116 | 26267766 | 517.634 | 522.684 |
| 6) | L1 AR-1016-4 | 5.592 | 4.665 | 39059657 | 23920438 | 516.337 | 508.340 |
| 7) | L1 AR-1016-5 | 5.882 | 4.872 | 40415106 | 28689440 | 493.927 | 499.001 |
| 31) | L7 AR-1260-1 | 6.993 | 5.884 | 67899341 | 53309118 | 495.755 | 507.975 |
| 32) | L7 AR-1260-2 | 7.247 | 6.071 | 71855792 | 60648285 | 545.386 | 554.721 |
| 33) | L7 AR-1260-3 | 7.602 | 6.221 | 47073583 | 57785471 | 461.713 | 512.399 |
| 34) | L7 AR-1260-4 | 7.826 | 6.685 | 56228125 | 40761241 | 486.175 | 477.788 |
| 35) | L7 AR-1260-5 | 8.131 | 6.926 | 97938618 | 87150042 | 503.777 | 538.158 |

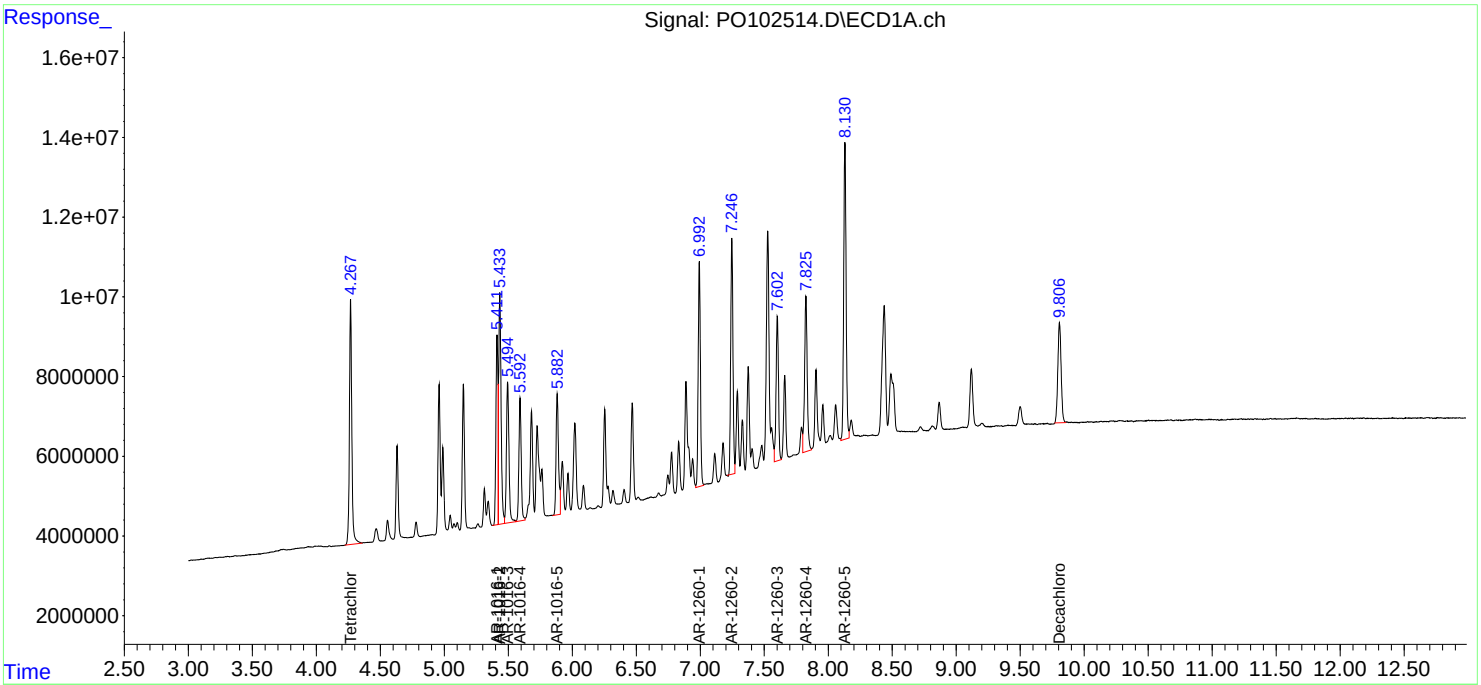
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

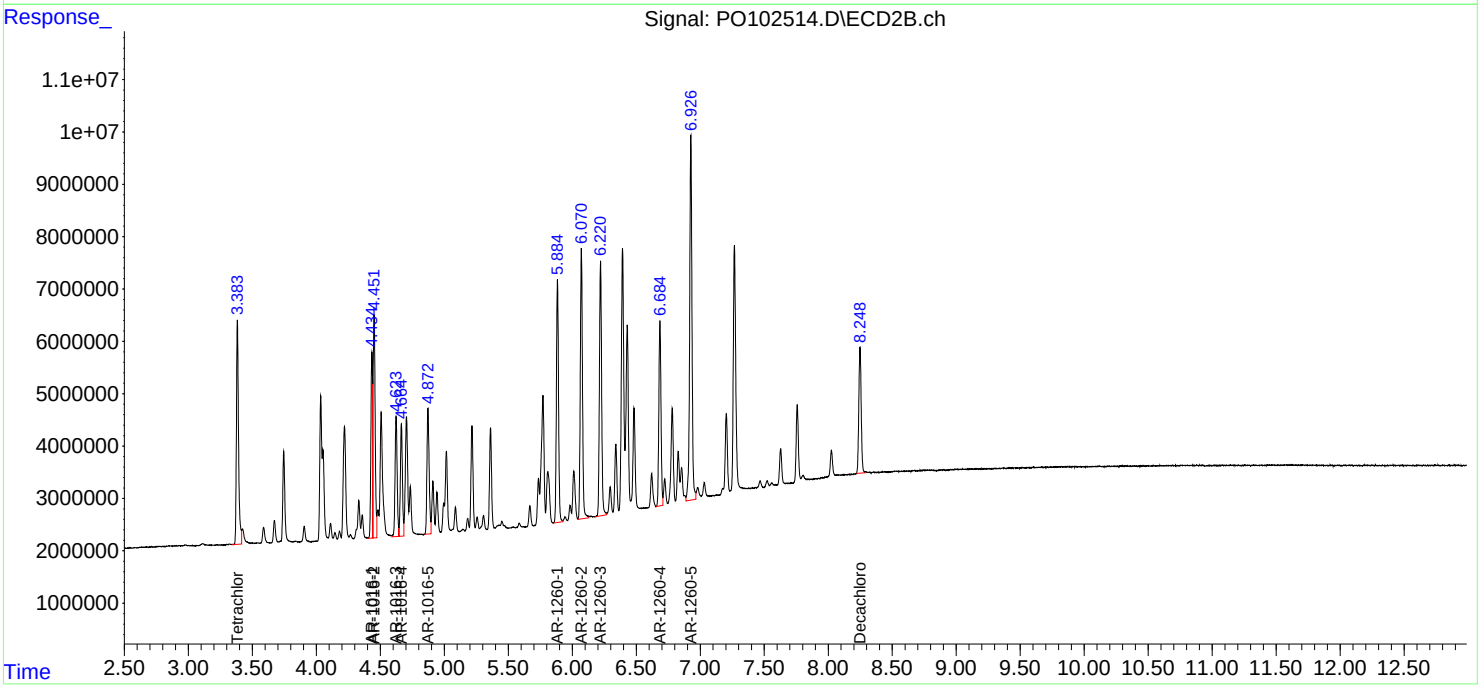
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102514.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Mar 2024 19:46
Operator : YP/AJ
Sample : PB159587BSD
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159587BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 14 20:29:10 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



Raw Data: **PO102528.D**

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | LiRo Engineers, Inc. | Date Collected: | |
| Project: | Walter Gladwin Recreation Center, Bronx, NY | Date Received: | |
| Client Sample ID: | PB159600BSD | SDG No.: | P1747 |
| Lab Sample ID: | PB159600BSD | Matrix: | WATER |
| Analytical Method: | 608.3 | % Solid: | 0 Decanted: |
| Sample Wt/Vol: | 1000 Units: mL | Final Vol: | 1000 uL |
| Soil Aliquot Vol: | uL | Test: | PCB |
| Extraction Type: | | Injection Volume : | |
| GPC Factor : | 1.0 PH : | | |
| Prep Method : | 5030 | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| PO102528.D | 1 | 03/14/24 10:05 | 03/15/24 00:29 | PB159600 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 12674-11-2 | Aroclor-1016 | 0.055 | | 0.015 | 0.050 | ug/L |
| 11104-28-2 | Aroclor-1221 | 0.023 | U | 0.023 | 0.050 | ug/L |
| 11141-16-5 | Aroclor-1232 | 0.037 | U | 0.037 | 0.050 | ug/L |
| 53469-21-9 | Aroclor-1242 | 0.016 | U | 0.016 | 0.050 | ug/L |
| 12672-29-6 | Aroclor-1248 | 0.012 | U | 0.012 | 0.050 | ug/L |
| 11097-69-1 | Aroclor-1254 | 0.011 | U | 0.011 | 0.050 | ug/L |
| 11096-82-5 | Aroclor-1260 | 0.051 | | 0.015 | 0.050 | ug/L |
| **SURROGATES** | | | | | | |
| 877-09-8 | Tetrachloro-m-xylene | 15.4 | | 60 - 140 | 77% | SPK: 20 |
| 2051-24-3 | Decachlorobiphenyl | 20.5 | | 60 - 140 | 103% | SPK: 20 |

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Sample Results: **PO102528.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102528.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:29
Operator : YP/AJ
Sample : PB159600BSD
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159600BSD

**Manual Integrations APPROVED**

Reviewed By :Yogesh Patel
03/15/2024
Supervised By :Ankita Jodhani
03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|---|---|---|---|---|---|---|---|
| | System Monitoring Compounds | | | | | | |
| 1) | SA Tetrachlo... | 4.268 | 3.383 | 66675692 | 43245786 | 16.267 | 15.434 |
| 2) | SA Decachlor... | 9.806 | 8.249 | 38975362 | 27430505 | 20.525 | 22.250 |
| | Target Compounds | | | | | | |
| 3) | L1 AR-1016-1 | 5.410 | 4.433 | 5662600 | 3906383 | 56.679m | 62.341 |
| 4) | L1 AR-1016-2 | 5.433 | 4.451 | 8345731 | 5147858 | 57.543 | 59.344 |
| 5) | L1 AR-1016-3 | 5.494 | 4.623 | 5206190 | 2895099 | 55.714 | 57.608 |
| 6) | L1 AR-1016-4 | 5.591 | 4.664 | 3945661 | 2684057 | 52.158 | 57.040 |
| 7) | L1 AR-1016-5 | 5.882 | 4.872 | 4105267 | 3078955 | 50.172 | 53.553 |
| 31) | L7 AR-1260-1 | 6.993 | 5.884 | 7484942 | 6022293 | 54.650 | 57.386 |
| 32) | L7 AR-1260-2 | 7.246 | 6.071 | 7209302 | 6977507 | 54.719 | 63.820 |
| 33) | L7 AR-1260-3 | 7.602 | 6.220 | 4455949 | 8269663 | 43.705 | 73.329 # |
| 34) | L7 AR-1260-4 | 7.826 | 6.684 | 6139546 | 4285528 | 53.085 | 50.233 |
| 35) | L7 AR-1260-5 | 8.130 | 6.926 | 9655515 | 9091189 | 49.666m | 56.139 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_O\Data\PO031424\
Data File : PO102528.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Mar 2024 00:29
Operator : YP/AJ
Sample : PB159600BSD
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :**
ECD_O
**ClientSampleId :**
PB159600BSD

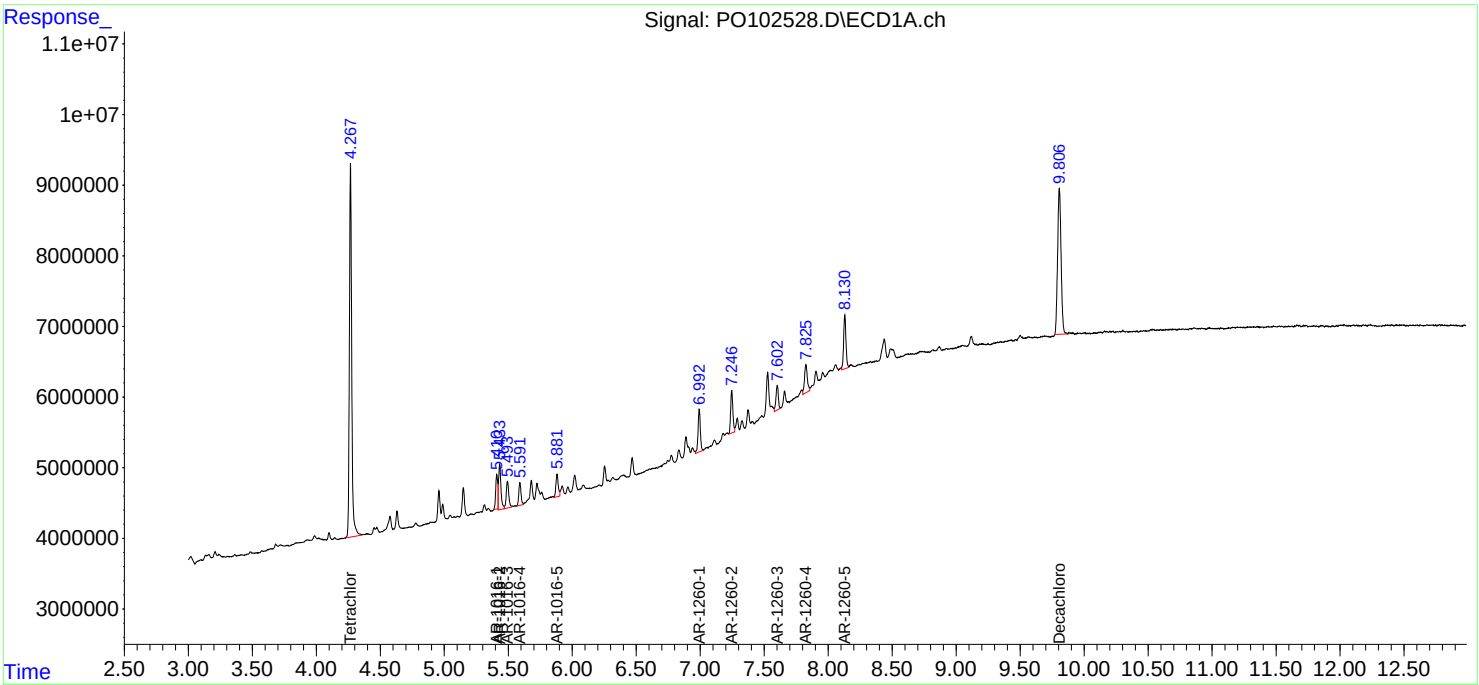
**Manual Integrations APPROVED**

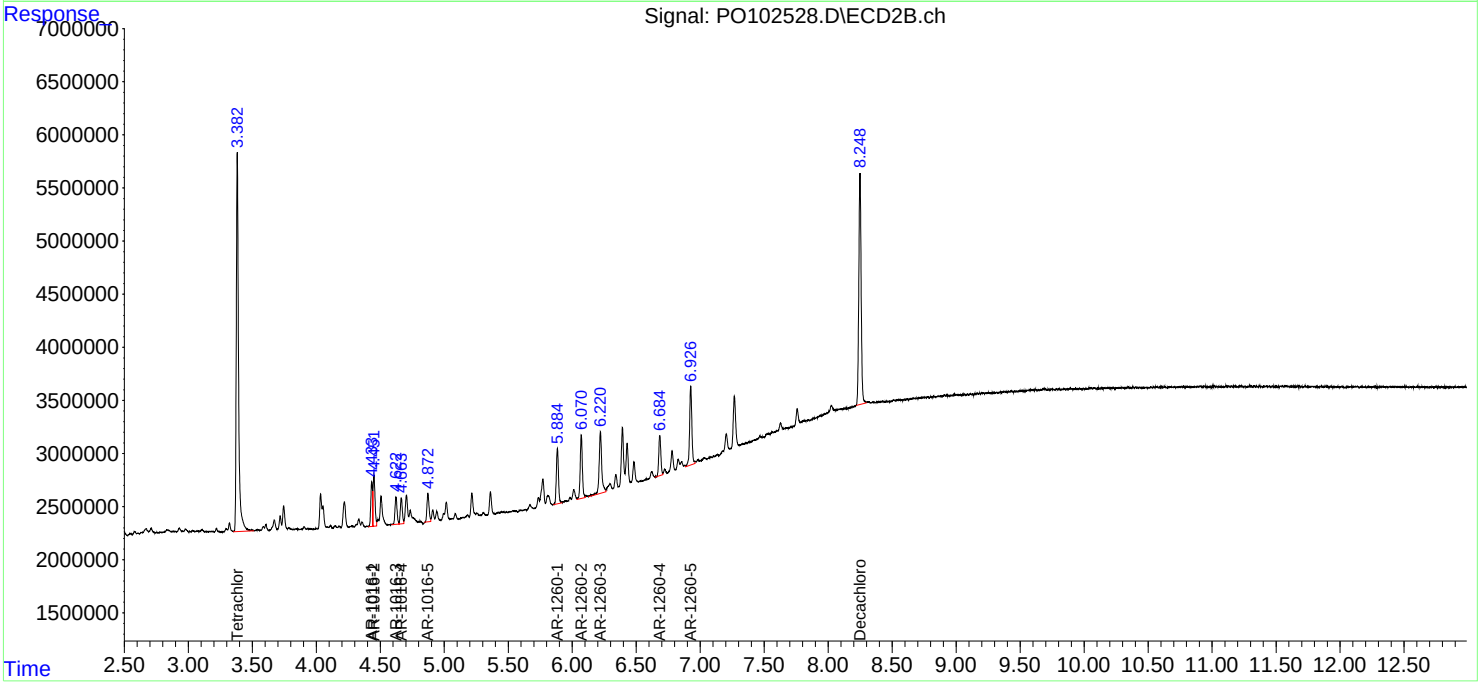
Reviewed By :Yogesh Patel
03/15/2024

Supervised By :Ankita Jodhani
03/15/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 15 04:40:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_O\methods\PO031224.M
Quant Title : GC EXTRACTABLES
QLast Update : Wed Mar 13 04:51:15 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30Mx0.32mmx 0.50µ Signal #2 Info : 30M x 0.32mm x 0.25µm



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# Manual Integration Report

| Sequence: | po031224 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660ICC050 | PO102413.D | AR-1016-3 #2 | yogesh | 3/13/2024 8:17:29 AM | Ankita | 3/13/2024 9:40:28 | Peak Integrated by Software incorrectly |
| AR1248ICC050 | PO102425.D | AR-1248-2 | yogesh | 3/13/2024 8:17:31 AM | Ankita | 3/13/2024 9:40:30 | Peak Integrated by Software incorrectly |

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# Manual Integration Report

| Sequence: | PO031424 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PO102486.D | AR-1016-5 | yogesh | 3/15/2024 7:53:23 AM | Ankita | 3/15/2024 10:14:00 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-1 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-1 #2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-2 #2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-3 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-3 #2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-4 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-4 #2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-5 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1016-5 #2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1260-1 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1260-1 #2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |

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# Manual Integration Report

| Sequence: | PO031424 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| PB159600BS | PO102527.D | AR-1260-2 #2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1260-3 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1260-3 #2 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BS | PO102527.D | AR-1260-5 | yogesh | 3/15/2024 7:53:38 AM | Ankita | 3/15/2024 10:14:13 | Peak Integrated by Software incorrectly |
| PB159600BSD | PO102528.D | AR-1016-1 | yogesh | 3/15/2024 7:53:40 AM | Ankita | 3/15/2024 10:14:15 | Peak Integrated by Software incorrectly |
| PB159600BSD | PO102528.D | AR-1260-5 | yogesh | 3/15/2024 7:53:40 AM | Ankita | 3/15/2024 10:14:15 | Peak Integrated by Software incorrectly |
| P1747-03 | PO102530.D | Decachlorobiphenyl #2 | yogesh | 3/15/2024 7:53:41 AM | Ankita | 3/15/2024 10:14:16 | Peak Integrated by Software incorrectly |
| P1747-03 | PO102530.D | Tetrachloro-m-xylene | yogesh | 3/15/2024 7:53:41 AM | Ankita | 3/15/2024 10:14:16 | Peak Integrated by Software incorrectly |
| P1747-03 | PO102530.D | Tetrachloro-m-xylene #2 | yogesh | 3/15/2024 7:53:41 AM | Ankita | 3/15/2024 10:14:16 | Peak Integrated by Software incorrectly |
| AR1660CCC500 | PO102531.D | AR-1016-1 #2 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |
| AR1660CCC500 | PO102531.D | AR-1016-2 #2 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |
| AR1660CCC500 | PO102531.D | AR-1016-3 #2 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |
| AR1660CCC500 | PO102531.D | AR-1016-4 #2 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |

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# Manual Integration Report

| Sequence: | PO031424 | Instrument | ECD_o |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| AR1660CCC500 | PO102531.D | AR-1260-2 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |
| AR1660CCC500 | PO102531.D | AR-1260-3 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |
| AR1660CCC500 | PO102531.D | AR-1260-4 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |
| AR1660CCC500 | PO102531.D | AR-1260-5 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |
| AR1660CCC500 | PO102531.D | AR-1260-5 #2 | yogesh | 3/15/2024 7:53:43 AM | Ankita | 3/15/2024 10:14:18 | Peak Integrated by Software incorrectly |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/13/2024 8:17:40 AM | | |
| Supervise By | Ankita | Supervise On | 3/13/2024 9:40:36 AM | | |
| SubDirectory | PO031224 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PO102407.D | 12 Mar 2024 14:32 | YP/AJ | Ok |
| 2 | I.BLK | PO102408.D | 12 Mar 2024 14:49 | YP/AJ | Ok |
| 3 | AR1660ICC1000 | PO102409.D | 12 Mar 2024 15:06 | YP/AJ | Ok |
| 4 | AR1660ICC750 | PO102410.D | 12 Mar 2024 15:23 | YP/AJ | Ok |
| 5 | AR1660ICC500 | PO102411.D | 12 Mar 2024 15:41 | YP/AJ | Ok |
| 6 | AR1660ICC250 | PO102412.D | 12 Mar 2024 15:58 | YP/AJ | Ok |
| 7 | AR1660ICC050 | PO102413.D | 12 Mar 2024 16:15 | YP/AJ | Ok,M |
| 8 | AR1221ICC500 | PO102414.D | 12 Mar 2024 16:32 | YP/AJ | Ok |
| 9 | AR1232ICC500 | PO102415.D | 12 Mar 2024 16:49 | YP/AJ | Ok |
| 10 | AR1242ICC1000 | PO102416.D | 12 Mar 2024 17:07 | YP/AJ | Ok |
| 11 | AR1242ICC750 | PO102417.D | 12 Mar 2024 17:24 | YP/AJ | Ok |
| 12 | AR1242ICC500 | PO102418.D | 12 Mar 2024 17:41 | YP/AJ | Ok |
| 13 | AR1242ICC250 | PO102419.D | 12 Mar 2024 17:58 | YP/AJ | Ok |
| 14 | AR1242ICC050 | PO102420.D | 12 Mar 2024 18:16 | YP/AJ | Ok |
| 15 | AR1248ICC1000 | PO102421.D | 12 Mar 2024 18:33 | YP/AJ | Ok |
| 16 | AR1248ICC750 | PO102422.D | 12 Mar 2024 18:50 | YP/AJ | Ok |
| 17 | AR1248ICC500 | PO102423.D | 12 Mar 2024 19:07 | YP/AJ | Ok |
| 18 | AR1248ICC250 | PO102424.D | 12 Mar 2024 19:24 | YP/AJ | Ok |
| 19 | AR1248ICC050 | PO102425.D | 12 Mar 2024 19:42 | YP/AJ | Ok,M |
| 20 | AR1254ICC1000 | PO102426.D | 12 Mar 2024 19:59 | YP/AJ | Ok |
| 21 | AR1254ICC750 | PO102427.D | 12 Mar 2024 20:16 | YP/AJ | Ok |
| 22 | AR1254ICC500 | PO102428.D | 12 Mar 2024 20:33 | YP/AJ | Ok |
| 23 | AR1254ICC250 | PO102429.D | 12 Mar 2024 20:50 | YP/AJ | Ok |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/13/2024 8:17:40 AM | | |
| Supervise By | Ankita | Supervise On | 3/13/2024 9:40:36 AM | | |
| SubDirectory | PO031224 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 24 | AR1254ICC050 | PO102430.D | 12 Mar 2024 21:07 | YP/AJ | Ok |
| 25 | AR1262ICC500 | PO102431.D | 12 Mar 2024 21:25 | YP/AJ | Ok |
| 26 | AR1268ICC1000 | PO102432.D | 12 Mar 2024 21:42 | YP/AJ | Ok |
| 27 | AR1268ICC750 | PO102433.D | 12 Mar 2024 21:59 | YP/AJ | Ok |
| 28 | AR1268ICC500 | PO102434.D | 12 Mar 2024 22:16 | YP/AJ | Ok |
| 29 | AR1268ICC250 | PO102435.D | 12 Mar 2024 22:33 | YP/AJ | Ok |
| 30 | AR1268ICC050 | PO102436.D | 12 Mar 2024 22:50 | YP/AJ | Ok |
| 31 | PO031224ICV500 | PO102437.D | 12 Mar 2024 23:07 | YP/AJ | Ok |
| 32 | AR1242ICV500 | PO102438.D | 12 Mar 2024 23:25 | YP/AJ | Ok |
| 33 | AR1248ICV500 | PO102439.D | 12 Mar 2024 23:42 | YP/AJ | Ok |
| 34 | AR1254ICV500 | PO102440.D | 12 Mar 2024 23:59 | YP/AJ | Ok |
| 35 | AR1268ICV500 | PO102441.D | 13 Mar 2024 00:16 | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/15/2024 7:54:00 AM | | |
| Supervise By | Ankita | Supervise On | 3/15/2024 10:14:38 AM | | |
| SubDirectory | PO031424 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | HEXANE | PO102485.D | 14 Mar 2024 09:06 | YP/AJ | Ok |
| 2 | AR1660CCC500 | PO102486.D | 14 Mar 2024 09:23 | YP/AJ | Ok,M |
| 3 | AR1242CCC500 | PO102487.D | 14 Mar 2024 09:40 | YP/AJ | Ok |
| 4 | AR1248CCC500 | PO102488.D | 14 Mar 2024 09:57 | YP/AJ | Ok |
| 5 | AR1254CCC500 | PO102489.D | 14 Mar 2024 10:15 | YP/AJ | Ok |
| 6 | I.BLK | PO102490.D | 14 Mar 2024 10:32 | YP/AJ | Ok |
| 7 | PB159582BL | PO102491.D | 14 Mar 2024 13:11 | YP/AJ | Ok |
| 8 | PB159582BS | PO102492.D | 14 Mar 2024 13:28 | YP/AJ | Ok |
| 9 | P1744-01 | PO102493.D | 14 Mar 2024 13:45 | YP/AJ | Ok,M |
| 10 | P1744-01MS | PO102494.D | 14 Mar 2024 14:02 | YP/AJ | Ok,M |
| 11 | P1744-01MSD | PO102495.D | 14 Mar 2024 14:20 | YP/AJ | Ok,M |
| 12 | P1746-01 | PO102496.D | 14 Mar 2024 14:37 | YP/AJ | Ok |
| 13 | P1746-02 | PO102497.D | 14 Mar 2024 14:54 | YP/AJ | Not Ok |
| 14 | P1746-03 | PO102498.D | 14 Mar 2024 15:11 | YP/AJ | Not Ok |
| 15 | AR1660CCC500 | PO102499.D | 14 Mar 2024 15:28 | YP/AJ | Ok |
| 16 | I.BLK | PO102500.D | 14 Mar 2024 15:46 | YP/AJ | Ok |
| 17 | P1746-04 | PO102501.D | 14 Mar 2024 16:03 | YP/AJ | Ok |
| 18 | P1746-06 | PO102502.D | 14 Mar 2024 16:20 | YP/AJ | Ok |
| 19 | P1746-08 | PO102503.D | 14 Mar 2024 16:37 | YP/AJ | Ok,M |
| 20 | P1746-09 | PO102504.D | 14 Mar 2024 16:54 | YP/AJ | Ok |
| 21 | P1746-11 | PO102505.D | 14 Mar 2024 17:12 | YP/AJ | Ok |
| 22 | P1746-12 | PO102506.D | 14 Mar 2024 17:29 | YP/AJ | Ok |
| 23 | P1746-13 | PO102507.D | 14 Mar 2024 17:46 | YP/AJ | Ok |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/15/2024 7:54:00 AM | | |
| Supervise By | Ankita | Supervise On | 3/15/2024 10:14:38 AM | | |
| SubDirectory | PO031424 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 24 | P1746-15 | PO102508.D | 14 Mar 2024 18:03 | YP/AJ | Ok |
| 25 | P1746-16 | PO102509.D | 14 Mar 2024 18:20 | YP/AJ | Ok |
| 26 | P1746-17 | PO102510.D | 14 Mar 2024 18:38 | YP/AJ | Ok |
| 27 | P1746-19 | PO102511.D | 14 Mar 2024 18:55 | YP/AJ | Ok |
| 28 | PB159587BL | PO102512.D | 14 Mar 2024 19:12 | YP/AJ | Ok |
| 29 | PB159587BS | PO102513.D | 14 Mar 2024 19:29 | YP/AJ | Ok |
| 30 | PB159587BSD | PO102514.D | 14 Mar 2024 19:46 | YP/AJ | Ok |
| 31 | P1747-01 | PO102515.D | 14 Mar 2024 20:04 | YP/AJ | Ok |
| 32 | P1747-02 | PO102516.D | 14 Mar 2024 20:21 | YP/AJ | Ok |
| 33 | P1747-04 | PO102517.D | 14 Mar 2024 20:38 | YP/AJ | Ok |
| 34 | P1747-05 | PO102518.D | 14 Mar 2024 20:55 | YP/AJ | Ok |
| 35 | AR1660CCC500 | PO102519.D | 14 Mar 2024 21:26 | YP/AJ | Ok |
| 36 | I.BLK | PO102520.D | 14 Mar 2024 21:43 | YP/AJ | Ok |
| 37 | PB159599BL | PO102521.D | 14 Mar 2024 22:01 | YP/AJ | Ok |
| 38 | PB159599BS | PO102522.D | 14 Mar 2024 22:18 | YP/AJ | Ok |
| 39 | P1758-01 | PO102523.D | 14 Mar 2024 22:35 | YP/AJ | Ok |
| 40 | P1758-02 | PO102524.D | 14 Mar 2024 22:52 | YP/AJ | Ok,M |
| 41 | P1758-03 | PO102525.D | 14 Mar 2024 23:09 | YP/AJ | Ok |
| 42 | P1758-04 | PO102526.D | 14 Mar 2024 23:26 | YP/AJ | Ok,M |
| 43 | PB159600BS | PO102527.D | 15 Mar 2024 00:12 | YP/AJ | Ok,M |
| 44 | PB159600BSD | PO102528.D | 15 Mar 2024 00:29 | YP/AJ | Ok,M |
| 45 | PB159600BL | PO102529.D | 15 Mar 2024 00:46 | YP/AJ | Ok |
| 46 | P1747-03 | PO102530.D | 15 Mar 2024 01:03 | YP/AJ | Ok,M |
| 47 | AR1660CCC500 | PO102531.D | 15 Mar 2024 01:49 | YP/AJ | Ok,M |
| 48 | I.BLK | PO102532.D | 15 Mar 2024 02:06 | YP/AJ | Ok |

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**Instrument ID: ECD_O**

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/15/2024 7:54:00 AM | | |
| Supervise By | Ankita | Supervise On | 3/15/2024 10:14:38 AM | | |
| SubDirectory | PO031424 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

M : Manual Integration

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/13/2024 8:17:40 AM | | |
| Supervise By | Ankita | Supervise On | 3/13/2024 9:40:36 AM | | |
| SubDirectory | PO031224 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PO102407.D | 12 Mar 2024 14:32 | | YP/AJ | Ok |
| 2 | I.BLK | I.BLK | PO102408.D | 12 Mar 2024 14:49 | | YP/AJ | Ok |
| 3 | AR1660ICC1000 | AR1660ICC1000 | PO102409.D | 12 Mar 2024 15:06 | | YP/AJ | Ok |
| 4 | AR1660ICC750 | AR1660ICC750 | PO102410.D | 12 Mar 2024 15:23 | | YP/AJ | Ok |
| 5 | AR1660ICC500 | AR1660ICC500 | PO102411.D | 12 Mar 2024 15:41 | | YP/AJ | Ok |
| 6 | AR1660ICC250 | AR1660ICC250 | PO102412.D | 12 Mar 2024 15:58 | | YP/AJ | Ok |
| 7 | AR1660ICC050 | AR1660ICC050 | PO102413.D | 12 Mar 2024 16:15 | | YP/AJ | Ok,M |
| 8 | AR1221ICC500 | AR1221ICC500 | PO102414.D | 12 Mar 2024 16:32 | | YP/AJ | Ok |
| 9 | AR1232ICC500 | AR1232ICC500 | PO102415.D | 12 Mar 2024 16:49 | | YP/AJ | Ok |
| 10 | AR1242ICC1000 | AR1242ICC1000 | PO102416.D | 12 Mar 2024 17:07 | | YP/AJ | Ok |
| 11 | AR1242ICC750 | AR1242ICC750 | PO102417.D | 12 Mar 2024 17:24 | | YP/AJ | Ok |
| 12 | AR1242ICC500 | AR1242ICC500 | PO102418.D | 12 Mar 2024 17:41 | | YP/AJ | Ok |
| 13 | AR1242ICC250 | AR1242ICC250 | PO102419.D | 12 Mar 2024 17:58 | | YP/AJ | Ok |
| 14 | AR1242ICC050 | AR1242ICC050 | PO102420.D | 12 Mar 2024 18:16 | | YP/AJ | Ok |
| 15 | AR1248ICC1000 | AR1248ICC1000 | PO102421.D | 12 Mar 2024 18:33 | | YP/AJ | Ok |
| 16 | AR1248ICC750 | AR1248ICC750 | PO102422.D | 12 Mar 2024 18:50 | | YP/AJ | Ok |
| 17 | AR1248ICC500 | AR1248ICC500 | PO102423.D | 12 Mar 2024 19:07 | | YP/AJ | Ok |
| 18 | AR1248ICC250 | AR1248ICC250 | PO102424.D | 12 Mar 2024 19:24 | | YP/AJ | Ok |
| 19 | AR1248ICC050 | AR1248ICC050 | PO102425.D | 12 Mar 2024 19:42 | | YP/AJ | Ok,M |

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031224

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/13/2024 8:17:40 AM | | |
| Supervise By | Ankita | Supervise On | 3/13/2024 9:40:36 AM | | |
| SubDirectory | PO031224 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 20 | AR1254ICC1000 | AR1254ICC1000 | PO102426.D | 12 Mar 2024 19:59 | | YP/AJ | Ok |
| 21 | AR1254ICC750 | AR1254ICC750 | PO102427.D | 12 Mar 2024 20:16 | | YP/AJ | Ok |
| 22 | AR1254ICC500 | AR1254ICC500 | PO102428.D | 12 Mar 2024 20:33 | | YP/AJ | Ok |
| 23 | AR1254ICC250 | AR1254ICC250 | PO102429.D | 12 Mar 2024 20:50 | | YP/AJ | Ok |
| 24 | AR1254ICC050 | AR1254ICC050 | PO102430.D | 12 Mar 2024 21:07 | | YP/AJ | Ok |
| 25 | AR1262ICC500 | AR1262ICC500 | PO102431.D | 12 Mar 2024 21:25 | | YP/AJ | Ok |
| 26 | AR1268ICC1000 | AR1268ICC1000 | PO102432.D | 12 Mar 2024 21:42 | | YP/AJ | Ok |
| 27 | AR1268ICC750 | AR1268ICC750 | PO102433.D | 12 Mar 2024 21:59 | | YP/AJ | Ok |
| 28 | AR1268ICC500 | AR1268ICC500 | PO102434.D | 12 Mar 2024 22:16 | | YP/AJ | Ok |
| 29 | AR1268ICC250 | AR1268ICC250 | PO102435.D | 12 Mar 2024 22:33 | | YP/AJ | Ok |
| 30 | AR1268ICC050 | AR1268ICC050 | PO102436.D | 12 Mar 2024 22:50 | | YP/AJ | Ok |
| 31 | PO031224ICV500 | ICVPO031224 | PO102437.D | 12 Mar 2024 23:07 | | YP/AJ | Ok |
| 32 | AR1242ICV500 | ICVPO031224 | PO102438.D | 12 Mar 2024 23:25 | | YP/AJ | Ok |
| 33 | AR1248ICV500 | ICVPO031224 | PO102439.D | 12 Mar 2024 23:42 | | YP/AJ | Ok |
| 34 | AR1254ICV500 | ICVPO031224 | PO102440.D | 12 Mar 2024 23:59 | | YP/AJ | Ok |
| 35 | AR1268ICV500 | ICVPO031224 | PO102441.D | 13 Mar 2024 00:16 | | YP/AJ | Ok |

M : Manual Integration

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/15/2024 7:54:00 AM | | |
| Supervise By | Ankita | Supervise On | 3/15/2024 10:14:38 AM | | |
| SubDirectory | PO031424 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | HEXANE | HEXANE | PO102485.D | 14 Mar 2024 09:06 | | YP/AJ | Ok |
| 2 | AR1660CCC500 | AR1660CCC500 | PO102486.D | 14 Mar 2024 09:23 | | YP/AJ | Ok,M |
| 3 | AR1242CCC500 | AR1242CCC500 | PO102487.D | 14 Mar 2024 09:40 | | YP/AJ | Ok |
| 4 | AR1248CCC500 | AR1248CCC500 | PO102488.D | 14 Mar 2024 09:57 | | YP/AJ | Ok |
| 5 | AR1254CCC500 | AR1254CCC500 | PO102489.D | 14 Mar 2024 10:15 | | YP/AJ | Ok |
| 6 | I.BLK | I.BLK | PO102490.D | 14 Mar 2024 10:32 | | YP/AJ | Ok |
| 7 | PB159582BL | PB159582BL | PO102491.D | 14 Mar 2024 13:11 | | YP/AJ | Ok |
| 8 | PB159582BS | PB159582BS | PO102492.D | 14 Mar 2024 13:28 | | YP/AJ | Ok |
| 9 | P1744-01 | RT-3488 | PO102493.D | 14 Mar 2024 13:45 | | YP/AJ | Ok,M |
| 10 | P1744-01MS | RT-3488MS | PO102494.D | 14 Mar 2024 14:02 | | YP/AJ | Ok,M |
| 11 | P1744-01MSD | RT-3488MSD | PO102495.D | 14 Mar 2024 14:20 | | YP/AJ | Ok,M |
| 12 | P1746-01 | SB-01-0-2.0 | PO102496.D | 14 Mar 2024 14:37 | | YP/AJ | Ok |
| 13 | P1746-02 | SB-01-4.0-6.0 | PO102497.D | 14 Mar 2024 14:54 | need cleanup | YP/AJ | Not Ok |
| 14 | P1746-03 | SB-01-4.0-6.0-DUP | PO102498.D | 14 Mar 2024 15:11 | Not Present on login | YP/AJ | Not Ok |
| 15 | AR1660CCC500 | AR1660CCC500 | PO102499.D | 14 Mar 2024 15:28 | | YP/AJ | Ok |
| 16 | I.BLK | I.BLK | PO102500.D | 14 Mar 2024 15:46 | | YP/AJ | Ok |
| 17 | P1746-04 | SB-01-7.0-9.5 | PO102501.D | 14 Mar 2024 16:03 | | YP/AJ | Ok |
| 18 | P1746-06 | SB-02-0-2.0 | PO102502.D | 14 Mar 2024 16:20 | | YP/AJ | Ok |
| 19 | P1746-08 | SB-03-0-2.0 | PO102503.D | 14 Mar 2024 16:37 | | YP/AJ | Ok,M |

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/15/2024 7:54:00 AM | | |
| Supervise By | Ankita | Supervise On | 3/15/2024 10:14:38 AM | | |
| SubDirectory | PO031424 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 20 | P1746-09 | SB-03-2.0-3.0 | PO102504.D | 14 Mar 2024 16:54 | | YP/AJ | Ok |
| 21 | P1746-11 | SB-04-0-2.0 | PO102505.D | 14 Mar 2024 17:12 | | YP/AJ | Ok |
| 22 | P1746-12 | SB-04-2.0-4.0 | PO102506.D | 14 Mar 2024 17:29 | | YP/AJ | Ok |
| 23 | P1746-13 | SB-04-4.0-6.0 | PO102507.D | 14 Mar 2024 17:46 | | YP/AJ | Ok |
| 24 | P1746-15 | SB-05-0-2.0 | PO102508.D | 14 Mar 2024 18:03 | | YP/AJ | Ok |
| 25 | P1746-16 | SB-05-0-2.0-DUP | PO102509.D | 14 Mar 2024 18:20 | | YP/AJ | Ok |
| 26 | P1746-17 | SB-05-2.0-4.5 | PO102510.D | 14 Mar 2024 18:38 | | YP/AJ | Ok |
| 27 | P1746-19 | SB-06-0-2.0 | PO102511.D | 14 Mar 2024 18:55 | | YP/AJ | Ok |
| 28 | PB159587BL | PB159587BL | PO102512.D | 14 Mar 2024 19:12 | | YP/AJ | Ok |
| 29 | PB159587BS | PB159587BS | PO102513.D | 14 Mar 2024 19:29 | | YP/AJ | Ok |
| 30 | PB159587BSD | PB159587BSD | PO102514.D | 14 Mar 2024 19:46 | | YP/AJ | Ok |
| 31 | P1747-01 | MW-01 | PO102515.D | 14 Mar 2024 20:04 | | YP/AJ | Ok |
| 32 | P1747-02 | MW-01-DUP | PO102516.D | 14 Mar 2024 20:21 | | YP/AJ | Ok |
| 33 | P1747-04 | MW-02 | PO102517.D | 14 Mar 2024 20:38 | | YP/AJ | Ok |
| 34 | P1747-05 | TWP-04 | PO102518.D | 14 Mar 2024 20:55 | | YP/AJ | Ok |
| 35 | AR1660CCC500 | AR1660CCC500 | PO102519.D | 14 Mar 2024 21:26 | AR1260-5 & DCB HIGH in second column | YP/AJ | Ok |
| 36 | I.BLK | I.BLK | PO102520.D | 14 Mar 2024 21:43 | DCB HIGH in second column | YP/AJ | Ok |
| 37 | PB159599BL | PB159599BL | PO102521.D | 14 Mar 2024 22:01 | | YP/AJ | Ok |
| 38 | PB159599BS | PB159599BS | PO102522.D | 14 Mar 2024 22:18 | | YP/AJ | Ok |
| 39 | P1758-01 | PCB031224RB01 | PO102523.D | 14 Mar 2024 22:35 | | YP/AJ | Ok |

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**Instrument ID:** ECD_O

## Daily Analysis Runlog For Sequence/QCBatch ID # PO031424

| | | | | | |
|---|---|---|---|---|---|
| Review By | yogesh | Review On | 3/15/2024 7:54:00 AM | | |
| Supervise By | Ankita | Supervise On | 3/15/2024 10:14:38 AM | | |
| SubDirectory | PO031424 | HP Acquire Method | | HP Processing Method | PO031224 |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | |
| Initial Calibration Stds | PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP 22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822 |
| CCC | PP22781,PP22789,PP22794,PP22799,PP22804,PP22809,PP22814,PP22819 |
| Internal Standard/PEM | |
| ICV/I.BLK | PP22823,PP22825,PP22827,PP22829,PP22831,PP22833,PP22835,PP22837 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 40 | P1758-02 | PCB031224RB02 | PO102524.D | 14 Mar 2024 22:52 | | YP/AJ | Ok,M |
| 41 | P1758-03 | PCB031224RB03 | PO102525.D | 14 Mar 2024 23:09 | | YP/AJ | Ok |
| 42 | P1758-04 | PCB031224RB04 | PO102526.D | 14 Mar 2024 23:26 | | YP/AJ | Ok,M |
| 43 | PB159600BS | PB159600BS | PO102527.D | 15 Mar 2024 00:12 | | YP/AJ | Ok,M |
| 44 | PB159600BSD | PB159600BSD | PO102528.D | 15 Mar 2024 00:29 | | YP/AJ | Ok,M |
| 45 | PB159600BL | PB159600BL | PO102529.D | 15 Mar 2024 00:46 | | YP/AJ | Ok |
| 46 | P1747-03 | MW-01 | PO102530.D | 15 Mar 2024 01:03 | TCMX low in first column | YP/AJ | Ok,M |
| 47 | AR1660CCC500 | AR1660CCC500 | PO102531.D | 15 Mar 2024 01:49 | AR1260-5 & DCB HIGH in second column | YP/AJ | Ok,M |
| 48 | I.BLK | I.BLK | PO102532.D | 15 Mar 2024 02:06 | DCB HIGH in second column | YP/AJ | Ok |

M : Manual Integration

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**EXTRACTION LOGPAGE**

PB159587

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M3510C,3580A-Extraction PCB-14 | | | | |
| **Clean Up SOP #:** | Acid Cleanup | | | **Extraction Start Date :** | 03/14/2024 |
| **Matrix :** | Water | | | **Extraction Start Time :** | 10:51 |
| **Weigh By:** | N/A | **Extraction By:** | RS | **Extraction End Date :** | 03/14/2024 |
| **Balance check:** | N/A | **Filter By:** | RP | **Extraction End Time :** | 15:45 |
| **Balance ID:** | N/A | **pH Meter ID:** | N/A | **Concentration By:** | RS |
| **pH Strip Lot#:** | E3574 | **Hood ID:** | 4,5,6,7 | **Supervisor By :** | rajesh |

**Extraction Method:** [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 5000 PPB | PP23071 |
| Surrogate | 1.0ML | 200 PPB | PP23117 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3707 |
| Baked Na2SO4 | N/A | EP2458 |
| Hexane | N/A | E3709 |
| H2SO4 1:1 | N/A | EP2416 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

40 ML Vial lot# 03-40 BTS721.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | WATER BATH-1,2 | **Envap ID:** | NE VAP-02 |
| **KD Bath Temperature:** | 60 °C | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 03/14/24 | RP (Extn. Lab) | AJ (GC-ST PCB Lab) |
| 15:50 | **Preparation Group** | **Analysis Group** |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB159587**

**Analytical Method:** M3510C,3580A-Extraction PCB-14 **Concentration Date:** 03/14/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB159587BL | ABLK587 | PCB | 1000 | 6 | ritesh | rajesh | 10 | | | SEP-10 |
| PB159587BS | ALCS587 | PCB | 1000 | 6 | ritesh | rajesh | 10 | | | 11 |
| PB159587BSD | ALCSD587 | PCB | 1000 | 6 | ritesh | rajesh | 10 | | | 12 |
| P1747-01 | MW-01 | PCB | 980 | 6 | ritesh | rajesh | 10 | D | | 13 |
| P1747-02 | MW-01-DUP | PCB | 970 | 6 | ritesh | rajesh | 10 | D | | 14 |
| P1747-04 | MW-02 | PCB | 990 | 6 | ritesh | rajesh | 10 | D | | 15 |
| P1747-05 | MW-04 | PCB | 980 | 6 | ritesh | rajesh | 10 | D | | 16 |

* **Extracts relinquished on the same date as received.**

3/14/24

0451
PCB
159587

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P1747 **WorkList ID :** 178575 **Department :** Extraction **Date :** 03-14-2024 10:08:57

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P1747-01 | MW-01 | Water | PCB | Cool 4 deg C | LIRO01 | I21 | 03/12/2024 | 8082A |
| P1747-01 | MW-01 | Water | Pesticide-TCL | Cool 4 deg C | LIRO01 | I21 | 03/12/2024 | 8081B |
| P1747-02 | MW-01-DUP | Water | PCB | Cool 4 deg C | LIRO01 | I21 | 03/12/2024 | 8082A |
| P1747-02 | MW-01-DUP | Water | Pesticide-TCL | Cool 4 deg C | LIRO01 | I21 | 03/12/2024 | 8081B |
| P1747-04 | MW-02 | Water | PCB | Cool 4 deg C | LIRO01 | I21 | 03/12/2024 | 8082A |
| P1747-04 | MW-02 | Water | Pesticide-TCL | Cool 4 deg C | LIRO01 | I21 | 03/12/2024 | 8081B |
| P1747-05 | MW-04 | Water | PCB | Cool 4 deg C | LIRO01 | I21 | 03/12/2024 | 8082A |
| P1747-05 | MW-04 | Water | Pesticide-TCL | Cool 4 deg C | LIRO01 | I21 | 03/12/2024 | 8081B |

**Date/Time** 03/14/24
**Raw Sample Received by:** RP (Set 1ch)
**Raw Sample Relinquished by:** RM SM



**Date/Time** 03/14/24
**Raw Sample Received by:** RM SM
**Raw Sample Relinquished by:** RP (Set 2ch)

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**EXTRACTION LOGPAGE**

PB159600

| | | | | | |
|---|---|---|---|---|---|
| **SOP ID:** | M608.3-Pesticide PCB-17 | | | | |
| **Clean Up SOP #:** | N/A | | | **Extraction Start Date :** | 03/14/2024 |
| **Matrix :** | Water | | | **Extraction Start Time :** | 10:05 |
| **Weigh By:** | N/A | **Extraction By:** | RP | **Extraction End Date :** | 03/14/2024 |
| **Balance check:** | N/A | **Filter By:** | RP | **Extraction End Time :** | 15:00 |
| **Balance ID:** | N/A | **pH Meter ID:** | N/A | **Concentration By:** | RS |
| **pH Strip Lot#:** | E3574 | **Hood ID:** | 4,6,7. | **Supervisor By :** | rajesh |

**Extraction Method:** [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

| Standared Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---|---|---|---|
| Spike Sol 1 | 1.0ML | 50 PPB | PP22983 |
| Surrogate | 1.0ML | 20 PPB | PP22985 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| Methylene Chloride | N/A | E3707 |
| Baked Na2SO4 | N/A | EP2458 |
| Hexane | N/A | E3709 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

1.5 ML Vial lot#2210673.

| | | | |
|---|---|---|---|
| **KD Bath ID:** | WATER BATH-1 | **Envap ID:** | NE VAP-02 |
| **KD Bath Temperature:** | 60 °C | **Envap Temperature:** | 40 °C |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 03/14/24 | RP (Ext. Lab) | AJ / IC-ST PCB Lab |
| 15:05 | **Preparation Group** | **Analysis Group** |

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**EXTRACTION LOGPAGE**

**PrepBatch ID : PB159600**

**Analytical Method:** M608.3-Pesticide PCB-17 **Concentration Date:** 03/14/2024

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/Spike By: | | Final Vol. (mL) | JarID | Comments | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB159600BL | ABLK600 | PCB | 1000 | 6 | ritesh | rajesh | 1 | | | SEP-13 |
| PB159600BS | ALCS600 | PCB | 1000 | 6 | ritesh | rajesh | 1 | | | 14 |
| PB159600BSD | ALCSD600 | PCB | 1000 | 6 | ritesh | rajesh | 1 | | | 15 |
| P1747-03 | MW-01 | PCB | 980 | 6 | ritesh | rajesh | 1 | M | | 16 |

* **Extracts relinguished on the same date as received.**

3/14/24

178600
P1747P
MW-01

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P1747P **WorkList ID :** 178600 **Department :** Extraction **Date :** 03-14-2024 09:54:01

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P1747-03 | MW-01 | Water | PCB | Cool 4 deg C | LIRO01 | I31 | 03/13/2024 | 608.3 |

**Date/Time** 03/14/24 9:57
**Raw Sample Received by:** RP (Ent Inv)
**Raw Sample Relinquished by:** JT (SM)



**Date/Time** 03/14/24 10:10
**Raw Sample Received by:** JT (SM)
**Raw Sample Relinquished by:** RP (Ent Inv)

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# Prep Standard - Chemical Standard Summary

**Order ID :** P1747

**Test :** PCB

**Prepbatch ID :** PB159587,PB159600,

**Sequence ID/Qc Batch ID:** PO031424,

**Standard ID :**

EP2416,EP2458,PP22777,PP22778,PP22779,PP22780,PP22781,PP22782,PP22783,PP22787,PP22788,PP22789,PP22790,PP22791,PP22792,PP22793,PP22794,PP22795,PP22796,PP22797,PP22798,PP22799,PP22800,PP22801,PP22802,PP22803,PP22804,PP22805,PP22806,PP22807,PP22808,PP22809,PP22810,PP22811,PP22812,PP22813,PP22814,PP22815,PP22816,PP22817,PP22818,PP22819,PP22820,PP22821,PP22822,PP22823,PP22824,PP22825,PP22826,PP22827,PP22828,PP22829,PP22830,PP22831,PP22832,PP22833,PP22834,PP22835,PP22836,PP22837,PP22946,PP22983,PP22985,PP23071,PP23117,

**Chemical ID :**

E3551,E3661,E3662,E3672,E3674,E3699,E3707,E3709,M5673,P10481,P10498,P11050,P11055,P11495,P11505,P11510,P11517,P11519,P11579,P11585,P11588,P11595,P11745,P11746,P11748,P12206,P12207,P12696,P12701,W2606,

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## Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 314 | 1.1 H2SO4 SOLN | EP2416 | 11/29/2023 | 05/29/2024 | Rajesh Parikh | None | None | RUPESHKUMAR SHAH 11/29/2023 |

**FROM** 1000.00000ml of M5673 + 1000.00000ml of W2606 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3923 | Baked Sodium Sulfate | EP2458 | 03/08/2024 | 07/03/2024 | Rajesh Parikh | Extraction_SCALE_2 (EX-SC-2) | None | RUPESHKUMAR SHAH 03/08/2024 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 84 | Pest/PCB Surrogate Stock 20 PPM | PP22777 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P11745 + 9.00000ml of E3662 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 404 | AR1660 100 PPM Stock Solution 2nd Source | PP22778 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P12206 + 9.00000ml of E3661 = Final Quantity: 10.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 202 | AR1660 1000/100 ppb working solution 1st source | PP22779 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.10000ml of P10481 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 203 | AR1660 750 PPB STD | PP22780 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.25000ml of E3662 + 0.75000ml of PP22779 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 204 | AR1660 500 PPB STD | PP22781 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22779 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 205 | AR1660 250 PPB STD | PP22782 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.75000ml of E3662 + 0.25000ml of PP22779 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 206 | AR1660 50 PPB STD | PP22783 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.90000ml of E3662 + 0.10000ml of PP22781 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 213 | AR1221 1000 PPB WORKING SOLUTION | PP22787 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.10000ml of P11579 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1079 | AR1221 750 PPB STD | PP22788 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.25000ml of E3662 + 0.75000ml of PP22787 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 222 | AR1221 500 PPB STD | PP22789 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22787 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1080 | AR1221 250 PPB STD | PP22790 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.75000ml of E3662 + 0.25000ml of PP22787 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1081 | AR1221 50 PPB STD | PP22791 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.90000ml of E3662 + 0.10000ml of PP22789 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 214 | AR1232 1000 PPB WORKING SOLUTION | PP22792 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.10000ml of P11585 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1063 | AR1232 750 PPB STD | PP22793 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.25000ml of E3662 + 0.75000ml of PP22792 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 223 | AR1232 500 PPB STD | PP22794 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22792 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1064 | AR1232 250 PPB STD | PP22795 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.75000ml of E3662 + 0.25000ml of PP22792 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1065 | AR1232 50 PPB STD | PP22796 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.90000ml of E3662 + 0.10000ml of PP22794 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 215 | AR1242 1000 PPB WORKING STD | PP22797 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.10000ml of P11050 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1067 | AR1242 750 PPB STD | PP22798 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.25000ml of E3662 + 0.75000ml of PP22797 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 224 | AR1242 500 PPB STD | PP22799 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22797 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1068 | AR1242 250 PPB STD | PP22800 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.75000ml of E3662 + 0.25000ml of PP22797 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1069 | AR1242 50 PPB STD | PP22801 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.90000ml of E3662 + 0.10000ml of PP22799 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 216 | AR1248 1000 PPB WORKING STD | PP22802 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.10000ml of P11055 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1075 | AR1248 750 PPB STD | PP22803 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.25000ml of E3662 + 0.75000ml of PP22802 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 225 | AR1248 500 PPB STD | PP22804 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22802 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1076 | AR1248 250 PPB STD | PP22805 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.75000ml of E3662 + 0.25000ml of PP22802 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1077 | AR1248 50 PPB STD | PP22806 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.90000ml of E3662 + 0.10000ml of PP22804 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 217 | AR1254 1000 PPB WORKING STD | PP22807 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.10000ml of P11588 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1071 | AR1254 750 PPB STD | PP22808 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.25000ml of E3662 + 0.75000ml of PP22807 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 226 | AR1254 500 PPB STD | PP22809 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22807 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1072 | AR1254 250 PPB STD | PP22810 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.75000ml of E3662 + 0.25000ml of PP22807 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1073 | AR1254 50 PPB STD | PP22811 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.90000ml of E3662 + 0.10000ml of PP22809 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1529 | AR1262 1000 PPB Working Solution | PP22812 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.10000ml of P10498 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3753 | AR1262 750 PPB STD | PP22813 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.25000ml of E3662 + 0.75000ml of PP22812 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1530 | AR1262 500 PPB STD | PP22814 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22812 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3754 | AR1262 250 PPB STD | PP22815 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.75000ml of E3662 + 0.25000ml of PP22812 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3755 | AR1262 50 PPB STD | PP22816 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.90000ml of E3662 + 0.10000ml of PP22814 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1532 | AR1268 1000 PPB Working Solution | PP22817 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.10000ml of P11595 + 99.40000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3820 | AR1268 750 PPB STD | PP22818 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.25000ml of E3662 + 0.75000ml of PP22817 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1533 | AR1268 500 PPB STD | PP22819 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22817 = Final Quantity: 1.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3821 | AR1268 250 PPB STD | PP22820 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.75000ml of E3662 + 0.25000ml of PP22817 = Final Quantity: 1.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3822 | AR1268 50 PPB STD | PP22821 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.90000ml of E3662 + 0.10000ml of PP22819 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 405 | AR1660 1000/100 PPB ICV STD | PP22822 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 98.50000ml of E3662 + 0.50000ml of PP22777 + 1.00000ml of PP22778 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 406 | AR1660 500 PPB ICV | PP22823 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22822 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3789 | AR1221 1000 PPB WORKING SOL.2ND SOURCE(AGILENT) | PP22824 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P11495 + 98.50000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3790 | AR1221 500 PPB ICV(AGILENT) | PP22825 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22824 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1887 | AR1232 1000 PPB Working Sol. 2nd Source | PP22826 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P12696 + 98.50000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1888 | AR1232 500 PPB ICV | PP22827 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22826 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1889 | AR1242 1000 PPB Working Sol. 2nd Source | PP22828 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P11505 + 98.50000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1891 | AR1242 500 PPB ICV | PP22829 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22828 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1890 | AR1248 1000 PPB Working Sol. 2nd Source | PP22830 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P11510 + 98.50000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1892 | AR1248 500 PPB ICV | PP22831 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22830 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1893 | AR1254 1000 PPB Working Sol. 2nd Source | PP22832 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P11517 + 98.50000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1894 | AR1254 500 PPB ICV | PP22833 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22832 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3757 | AR1262 1000 PPB Working Solution second source | PP22834 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P12701 + 98.50000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3758 | AR1262 500 PPB STD ICV | PP22835 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22834 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3817 | AR1268 1000 ppb Working Soln. 2nd source | PP22836 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 1.00000ml of P11519 + 98.50000ml of E3662 + 0.50000ml of PP22777 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3823 | AR1268 500 PPB STD ICV | PP22837 | 12/08/2023 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 12/08/2023 |

**FROM** 0.50000ml of E3662 + 0.50000ml of PP22836 = Final Quantity: 1.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 84 | Pest/PCB Surrogate Stock 20 PPM | PP22946 | 12/28/2023 | 06/23/2024 | Abdul Mirza | None | None | Ankita Jodhani 12/28/2023 |

**FROM** 1.00000ml of P11746 + 9.00000ml of E3672 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1517 | 50 PPB 608 PCB Spike | PP22983 | 01/03/2024 | 06/08/2024 | Ankita Jodhani | None | None | Yogesh Patel 01/03/2024 |

**FROM** 99.95000ml of E3661 + 0.05000ml of PP22778 = Final Quantity: 100.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1638 | 20 PPB Pest/PCB Surg Spike | PP22985 | 01/03/2024 | 06/23/2024 | Ankita Jodhani | None | None | Yogesh Patel 01/03/2024 |

**FROM** 199.80000ml of E3661 + 0.20000ml of PP22946 = Final Quantity: 200.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3857 | 5000 PPB PCB SPIKE SOLUTION 2ND SOURCE | PP23071 | 02/06/2024 | 07/03/2024 | Ankita Jodhani | None | None | Sohil Jodhani 02/07/2024 |

**FROM** 0.50000ml of P12207 + 99.50000ml of E3674 = Final Quantity: 100.000 ml

# CHEMTECH

**284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900**

## Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 465 | 200 PPB Pest/PCB Surrogate Spike | PP23117 | 02/29/2024 | 08/21/2024 | Abdul Mirza | None | None | Ankita Jodhani 03/01/2024 |

**FROM** 1.00000ml of P11748 + 999.00000ml of E3699 = Final Quantity: 1000.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 07/03/2024 | 01/03/2024 / Rajesh | 07/20/2023 / Rajesh | E3551 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H1462005 | 06/23/2024 | 12/08/2023 / Rajesh | 12/06/2023 / Rajesh | E3661 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 23G1262009 | 06/08/2024 | 12/08/2023 / Rajesh | 12/06/2023 / Rajesh | E3662 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 23G1262009 | 06/23/2024 | 12/23/2023 / Rajesh | 12/21/2023 / Rajesh | E3672 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H1462005 | 07/03/2024 | 01/03/2024 / Rajesh | 01/03/2024 / Rajesh | E3674 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H14626005 | 08/21/2024 | 02/21/2024 / RUPESH | 02/14/2024 / RUPESH | E3699 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24A1562007 | 08/28/2024 | 02/28/2024 / Rajesh | 02/19/2024 / Rajesh | E3707 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 23G1262009 | 09/01/2024 | 03/01/2024 / Rajesh | 03/01/2024 / Rajesh | E3709 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 23D2462010 | 03/20/2028 | 09/21/2023 / mohan | 09/05/2023 / mohan | M5673 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32039 / PCB Mix, Aroclor 1016/1260, 1000ug/mL, hexane, 1mL/ampul | A0163157 | 06/08/2024 | 12/08/2023 / Ankita | 03/19/2021 / Abdul | P10481 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane | A0167722 | 06/08/2024 | 12/08/2023 / Ankita | 03/19/2021 / Ankita | P10498 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32009 / PCB Mix, Aroclor 1242, 1000ug/mL, Hexane, 1mL/ampul | A0167551 | 06/08/2024 | 12/08/2023 / Ankita | 09/03/2021 / Abdul | P11050 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul | A0162497 | 06/08/2024 | 12/08/2023 / Ankita | 09/03/2021 / Abdul | P11055 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Agilent Technologies | PP-292-1 / Aroclor 1221 | 0006535333 | 06/08/2024 | 12/08/2023 / Ankita | 02/21/2022 / Ankita | P11495 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Agilent Technologies | PP-312-1 / Aroclor 1242 | 0006665550 | 06/08/2024 | 12/08/2023 / Ankita | 02/21/2022 / Ankita | P11505 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Agilent Technologies | PP-342-1 / Aroclor 1248 | 0006626997 | 06/08/2024 | 12/08/2023 / Ankita | 02/21/2022 / Ankita | P11510 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Agilent Technologies | PP-352-1 / Aroclor 1254 | CS-2321 | 06/08/2024 | 12/08/2023 / Ankita | 02/21/2022 / Ankita | P11517 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Agilent Technologies | PP-382-1 / Aroclor 1268 | 0006587800 | 06/08/2024 | 12/08/2023 / Ankita | 02/21/2022 / Ankita | P11519 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32007 / PCB Mix, Aroclor 1221, 1000ug/mL, Hexane, 1mL/ampul | A0175456 | 06/08/2024 | 12/08/2023 / Ankita | 03/18/2022 / Abdul | P11579 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32008 / PCB Mix, Aroclor 1232, 1000ug/mL, Hexane, 1mL/ampul | A0173309 | 06/08/2024 | 12/08/2023 / Ankita | 03/18/2022 / Abdul | P11585 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul | A0175403 | 06/08/2024 | 12/08/2023 / Ankita | 03/18/2022 / Abdul | P11588 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane | A0181782 | 06/08/2024 | 12/08/2023 / Ankita | 03/18/2022 / Abdul | P11595 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0179404 | 06/08/2024 | 12/08/2023 / Ankita | 05/27/2022 / Sohil | P11745 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0179404 | 06/28/2024 | 12/28/2023 / Abdul | 05/27/2022 / Sohil | P11746 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0179404 | 08/29/2024 | 02/29/2024 / Abdul | 05/27/2022 / Sohil | P11748 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 20064 / Aroclor 1016/1260 | 033121 | 06/08/2024 | 12/08/2023 / Ankita | 11/16/2022 / Ankita | P12206 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 20064 / Aroclor 1016/1260 | 033121 | 08/06/2024 | 02/06/2024 / Ankita | 11/16/2022 / Ankita | P12207 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards,Inc | 91867 / Aroclor 1232 100 ug/mL | 020823 | 06/08/2024 | 12/08/2023 / Ankita | 08/07/2023 / Ankita | P12696 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards,Inc | x9166 / Aroclor 1262 100 ug/mL | 060523 | 06/08/2024 | 12/08/2023 / Ankita | 08/07/2023 / Ankita | P12701 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 10/24/2024 | 10/24/2019 / apatel | 10/24/2019 / apatel | W2606 |

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| PRODUCT : | SODIUM SULFATE CRYSTALS ANHYDROUS | | |
| QUALITY : | ACS (CODE RMB3375) | FORMULA : | $Na_2SO_4$ |
| SPECIFICATION NUMBER : | 6399 | RELEASE DATE: | ABR/21/2023 |
| LOT NUMBER : | 313201 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|---|---|---|
| Assay ($Na_2SO_4$) | Min. 99.0% | 99.7 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 6.1 |
| Insoluble matter | Max. 0.01% | 0.005 % |
| Loss on ignition | Max. 0.5% | 0.1 % |
| Chloride (Cl) | Max. 0.001% | <0.001 % |
| Nitrogen compounds (as N) | Max. 5 ppm | <5 ppm |
| Phosphate ($PO_4$) | Max. 0.001% | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001% | <0.001 % |
| Calcium (Ca) | Max. 0.01% | 0.002 % |
| Magnesium (Mg) | Max. 0.005% | 0.001 % |
| Potassium (K) | Max. 0.008% | 0.003 % |
| Extraction-concentration suitability | Passes test | Passes test |
| Appearance | Passes test | Passes test |
| Identification | Passes test | Passes test |
| Solubility and foreing matter | Passes test | Passes test |
| Retained on US Standard No. 10 sieve | Max. 1% | 0.1 % |
| Retained on US Standard No. 60 sieve | Min. 94% | 97.3 % |
| Through US Standard No. 60 sieve | Max. 5% | 2.5 % |
| Through US Standard No. 100 sieve | Max. 10% | 0.1 % |

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected for water) | ≥ 99.4 % | 99.7 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.1 |
| Titrable Base (µeq/g) | ≤ 0.6 | < 0.1 |
| Water ($H_2O$) | ≤ 0.5 % | 0.3 % |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 12/6/23

E 3661

Ken Koehnlein
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 23G1262009
Manufactured Date: 2023-06-01
Expiration Date: 2024-08-30
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| Assay (Total Saturated $C_6$ Isomers) (by GC, corrected for water) | ≥ 99.5 % | 99.6 % |
| Assay (as n-Hexane) (by GC, corrected for water) | ≥ 95 % | 98 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Substances Darkened by $H_2SO_4$ | Passes Test | Passes Test |
| Water (by KF, coulometric) | ≤ 0.05 % | 0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 12/6/23

E 3662

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected for water) | ≥ 99.4 % | 99.7 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.1 |
| Titrable Base (µeq/g) | ≤ 0.6 | < 0.1 |
| Water ($H_2O$) | ≤ 0.5 % | 0.3 % |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/3/24

E367H

Ken Koehnlein
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($(CH_3)_2CO$) (by GC, corrected for water) | ≥ 99.4 % | 99.7 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.1 |
| Titrable Base (µeq/g) | ≤ 0.6 | < 0.1 |
| Water ($H_2O$) | ≤ 0.5 % | 0.3 % |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

RS
2/14.

E3699

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24A1562007
Manufactured Date: 2023-12-14
Expiration Date: 2025-03-14
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | < 1 |
| Assay ($CH_2Cl_2$) (by GC, exclusive of preservative, corrected for water) | ≥ 99.8 % | 100.0 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.1 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | < 0.1 |
| Chloride (Cl) | ≤ 10 ppm | < 5 ppm |
| Water (by KF, coulometric) | ≤ 0.02 % | < 0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG23L14152

E 3707

Ken Koehnlein
Sr. Manager, Quality Assurance

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 23G1262009
Manufactured Date: 2023-06-01
Expiration Date: 2024-08-30
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| Assay (Total Saturated $C_6$ Isomers) (by GC, corrected for water) | ≥ 99.5 % | 99.6 % |
| Assay (as n-Hexane) (by GC, corrected for water) | ≥ 95 % | 98 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Substances Darkened by $H_2SO_4$ | Passes Test | Passes Test |
| Water (by KF, coulometric) | ≤ 0.05 % | 0.01 % |

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 03/01/24

E 3709

Ken Koehnlein
Sr. Manager, Quality Assurance

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS – Assay ($H_2SO_4$) | 95.0 – 98.0 % | 96.1 % |
| Appearance | Passes Test | Passes Test |
| ACS – Color (APHA) | ≤ 10 | 5 |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS – Substances Reducing Permanganate (as SO2) | ≤ 2 ppm | < 2 ppm |
| Ammonium ($NH_4$) | ≤ 1 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm |
| Nitrate ($NO_3$) | ≤ 0.2 ppm | < 0.1 ppm |
| Phosphate ($PO_4$) | ≤ 0.5 ppm | < 0.1 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 30.0 ppb | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb |
| Trace Impurities – Boron (B) | ≤ 10.0 ppb | 8.5 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gold (Au) | ≤ 10.0 ppb | 0.5 ppb |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb |
| Trace Impurities – Iron (Fe) | ≤ 50.0 ppb | 1.3 ppb |
| Trace Impurities – Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 7.0 ppb | 0.8 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 2.0 ppb | 0.3 ppb |
| Trace Impurities – Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se) | ≤ 50.0 ppb | < 0.1 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | 31.5 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Sodium (Na) | ≤ 500.0 ppb | 5.4 ppb |
| Trace Impurities - Strontium (Sr) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities - Tin (Sn) | ≤ 5.0 ppb | < 0.8 ppb |
| Trace Impurities - Zinc (Zn) | ≤ 5.0 ppb | 0.4 ppb |

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32039 **Lot No.:** A0163157

**Description :** Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 25°C nominal

**Handling:** This product contains PCBs. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | Aroclor 1016 | 1,007.0 µg/mL | +/- 5.8683 | µg/mL | Gravimetric |
| | **CAS #** 12674-11-2 (Lot 04) | | +/- 31.9082 | µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.6868 | µg/mL | Stressed |
| 2 | Aroclor 1260 | 1,008.0 µg/mL | +/- 5.8741 | µg/mL | Gravimetric |
| | **CAS #** 11096-82-5 (Lot 07) | | +/- 31.9399 | µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.7282 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P10476
&
P10480

AR
02/19/21

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

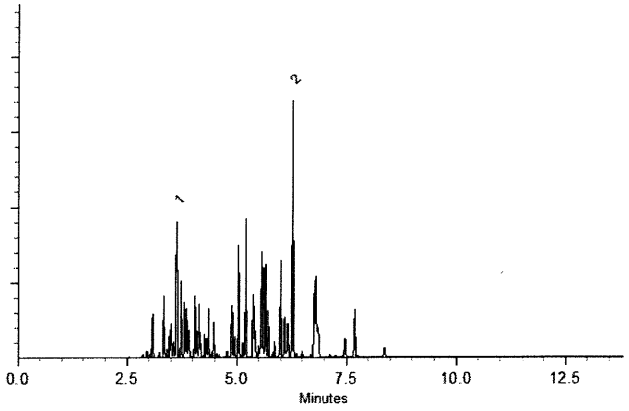
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 03-Aug-2020 **Balance:** B442140311

Justine Albertson - Operations Tech-ARM QC

**Date Passed:** 05-Aug-2020

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32409 **Lot No.:** A0167722

**Description :** Aroclor® 1262 Standard

Aroclor® 1262 Standard 1,000 µg/mL, 1mL/ampul, Hexane

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2027 **Storage:** 25°C nominal

**Handling:** This product contains PCBs. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | Aroclor 1262 | 1,004.0 µg/mL | +/- 5.9635 | µg/mL | Gravimetric |
| | **CAS #** 37324-23-5 (Lot 10849100) | | +/- 31.8340 | µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.5787 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P10496
J
P10500

AJ
09/19/21

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

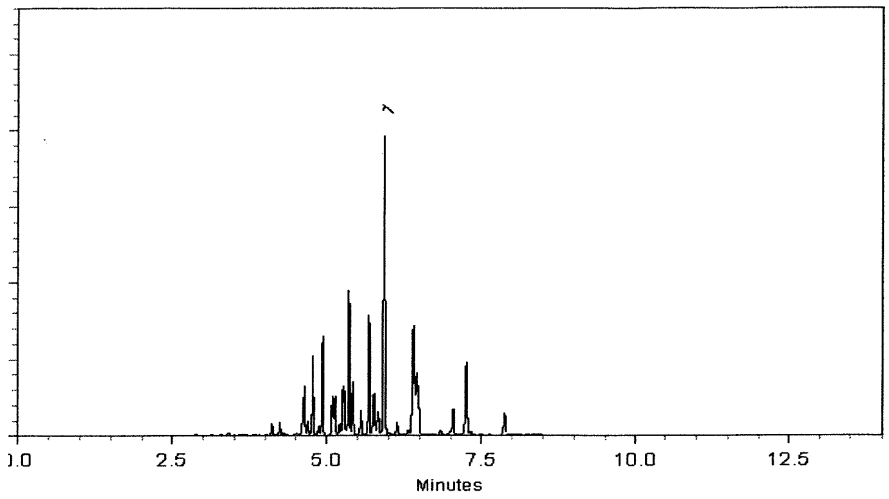
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 03-Jan-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

**Date Passed:** 05-Jan-2021

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

P11046 To P11050
AR 09/9/2021

**Catalog No. :** 32009 **Lot No.:** A0167551

**Description :** Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2027 **Storage:** 25°C nominal

**Handling:** This product contains PCBs. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | Aroclor 1242 | 1,006.0 µg/mL | +/- 5.9753 | µg/mL | Gravimetric |
| | **CAS #** 53469-21-9 (Lot 01141-A) | | +/- 31.8975 | µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.6615 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

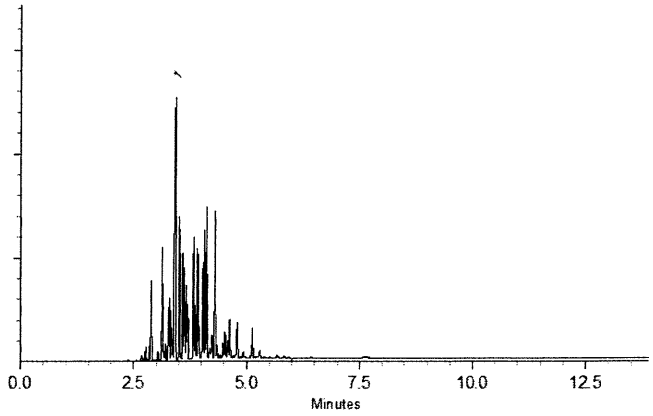
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 28-Dec-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

**Date Passed:** 30-Dec-2020

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

P11046
↓
P11056

AR
09/9/2021

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32010 **Lot No.:** A0162497

**Description :** Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** October 31, 2026 **Storage:** 25°C nominal

**Handling:** This product contains PCBs.

P11051 to P11055
AR
09/9/2021

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | Aroclor 1248 | 1,006.0 µg/mL | +/- 5.9753 | µg/mL | Gravimetric |
| | **CAS #** 12672-29-6 (Lot 9303900) | | +/- 31.8975 | µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.6615 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

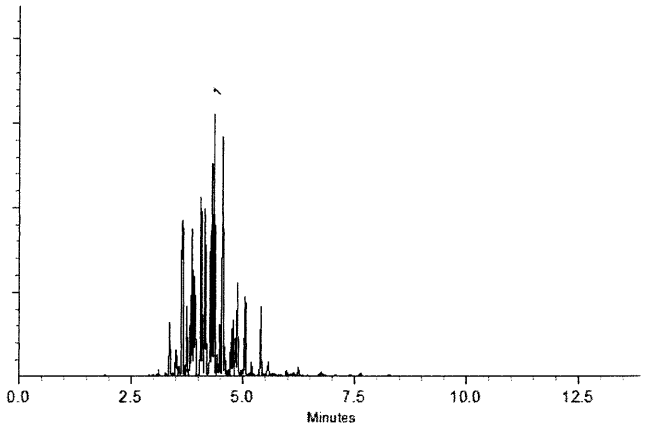
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kylie Struble - Operations Technician I

**Date Mixed:** 13-Jul-2020 **Balance:** 1128360905

Justine Albertson - Operations Tech-ARM QC

**Date Passed:** 16-Jul-2020

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

P11051
↓
P11055

AR 9/9/2021

AJ
02/21/22

P11493
↓
P11497

Agilent

# Certificate of Analysis

**Product Name:** Aroclor 1221 Standard

**Product Number:** PP-292-1 **Lot Issue Date:** 28-Apr-2020

**Lot Number:** 0006535333 **Expiration Date:** 31-May-2024

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|---|---|---|---|
| Aroclor 1221 | 011104-28-2 | RM04278 | 100.2 ± 0.5 µg/mL |

**Matrix:** isooctane (2,2,4-trimethylpentane)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026



www.agilent.com/quality/
CSD-QA-015.1

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ISO 17034

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# Reference Material Certificate

| | | | |
|---|---|---|---|
| **Product Name:** | Aroclor 1242 Standard | **Lot Number:** | 0006665550 |
| **Product Number:** | PP-312-1 | **Lot Issue Date:** | 08-Feb-2022 |
| **Storage Conditions:** | Store at Room Temperature (15° to 30°C). | **Expiration Date:** | 31-Jan-2027 |

| | CERTIFIED VALUES | | | |
|---|---|---|---|---|
| Component Name | Concentration | Expanded Uncertainty | CAS# | Analyte Lot |
| Aroclor 1242 | 100.4 | ± 0.5 µg/mL | 053469-21-9 | NT01020 |

**Matrix:** isooctane (2,2,4-trimethylpentane)

**Description:**
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

**Traceability:**
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Safety:**
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

**Intended Use:**
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Expiration of Certification:**
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P11533 + P11537

AJ 02/21/22

**Maintenance of Certification:**
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**

Monica Bourgeois
QMS Representative

ISO 17034

Agilent
Trusted Answers

# Reference Material Certificate

| | | | |
|---|---|---|---|
| **Product Name:** | Aroclor 1248 Standard | **Lot Number:** | 0006626997 |
| **Product Number:** | PP-342-1 | **Lot Issue Date:** | 17-Aug-2021 |
| **Storage Conditions:** | Store at Room Temperature (15° to 30°C). | **Expiration Date:** | 30-Sep-2025 |

| | CERTIFIED VALUES | | | | |
|---|---|---|---|---|---|
| Component Name | Concentration | | Expanded Uncertainty | CAS# | Analyte Lot |
| Aroclor 1248 | 100.3 | ± | 0.5 µg/mL | 012672-29-6 | NT01582 |

**Matrix:** isooctane (2,2,4-trimethylpentane)

**Description:**
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

**Traceability:**
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Safety:**
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

**Intended Use:**
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Expiration of Certification:**
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P11508 ↓ P11512 AJ 12/21/22

**Maintenance of Certification:**
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**

Monica Bourgeois
QMS Representative

# Certificate of Analysis

Agilent

## Aroclor 1254 Solution

**Product Number:** PP-352 **Page:** 1 of 1

**Lot Number:** CS-2321 **Lot Issue Date:** 04-May-2018 **Expiration Date:** 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | True Value |
|---|---|---|---|
| Aroclor 1254 | 011097-69-1 | RM00922 | 100.4 ± 0.5 µg/mL |

**Matrix:** isooctane (2,2,4-trimethylpentane)

**Storage:** Store at Room Temperature (15° to 30°C).

P11513
↓
P11517

AJ
02/21/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

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ISO 9001
Registered
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P11518 ↓ P11522 AJ 02/21/22

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# Certificate of Analysis

**Product Name:** Aroclor 1268 Standard

**Product Number:** PP-382-1 **Lot Issue Date:** 09-Feb-2021

**Lot Number:** 0006587800 **Expiration Date:** 31-Mar-2029

**Description:**
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

| Analyte | CAS# | Analyte Lot | Concentration ± Uncertainty |
|---|---|---|---|
| Aroclor 1268 | 011100-14-4 | RM00937 | 100.0 ± 0.5 µg/mL |

**Matrix:** isooctane (2,2,4-trimethylpentane)

**Storage Conditions:** Store at Room Temperature (15° to 30°C).

**Traceability:**
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

**Expiration of Certification:**
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026



www.agilent.com/quality/
CSD-QA-015.1

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ISO 17025 Cert No. AT-1937

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32007 **Lot No.:** A0175456

**Description :** Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2027 **Storage:** 25°C nominal

**Handling:** This product contains PCBs. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | Aroclor 1221 | 1,002.0 µg/mL | +/- 5.9516 | µg/mL | Gravimetric |
| | **CAS #** 11104-28-2 (Lot 10210500) | | +/- 31.7706 | µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.4958 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P 11578 ↓ P 11582 (S)

AR 04/30/22

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

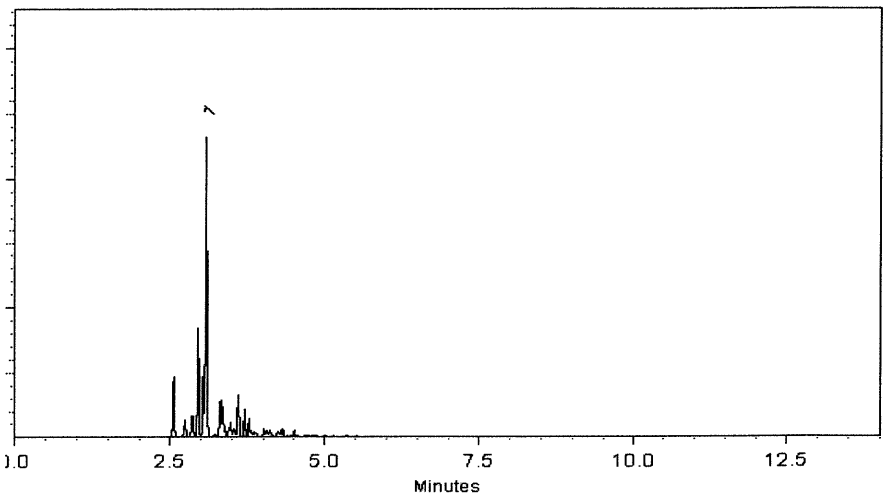
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 16-Aug-2021 **Balance:** B442140311

Marlina Cowan - Operations Tech I

**Date Passed:** 18-Aug-2021

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

P11578 ↓ P11582 (5)

AR 04/30/22

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32008 **Lot No.:** A0173309

**Description :** Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2027 **Storage:** 25°C nominal

**Handling:** This product contains PCBs. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Aroclor 1232 | 1,001.0 µg/mL | +/- 5.9456 µg/mL | Gravimetric |
| | **CAS #** 11141-16-5 (Lot 15665-01) | | +/- 31.7389 µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.4544 µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P11583 ↓ P11597 (S)

AR 04/30/22

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

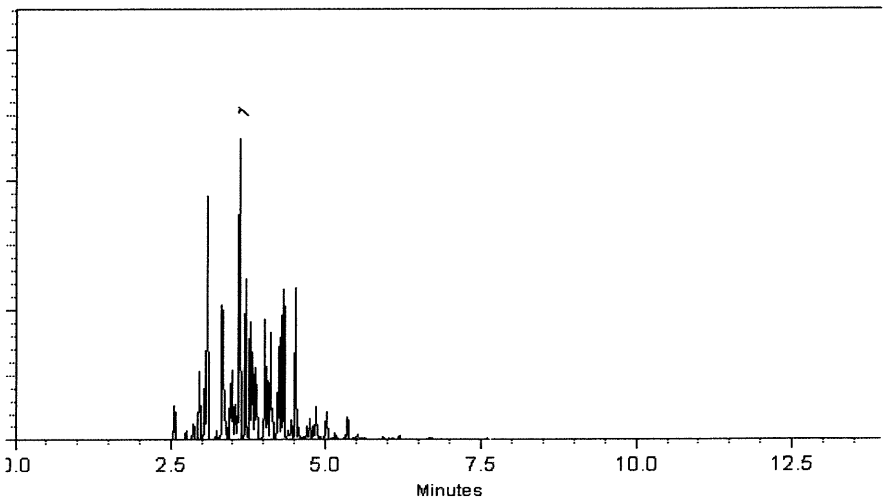
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 13-Jun-2021 **Balance:** B442140311

Alexis Shelow - Operations Tech I

**Date Passed:** 16-Jun-2021

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

P11583 ↓ P11587 | (5)

AR 04/30/22

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32011 **Lot No.:** A0175403

**Description :** Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2027 **Storage:** 25°C nominal

**Handling:** This product contains PCBs. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | Aroclor 1254 | 1,000.7 µg/mL | +/- 5.9437 µg/mL | Gravimetric |
| | **CAS #** 11097-69-1 (Lot 124-191-B) | | +/- 31.7284 µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.4406 µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P11588 ↓ P11592 | 5

AR 04/30/2022

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

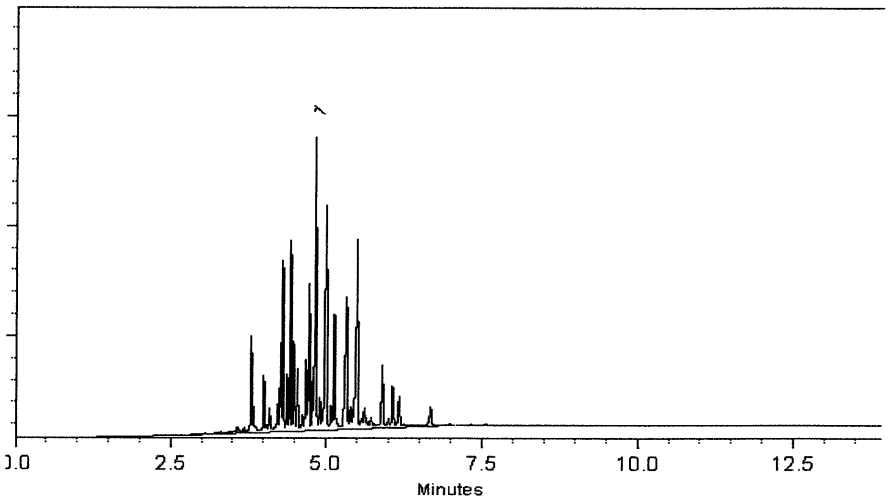
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

**Date Mixed:** 15-Aug-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

**Date Passed:** 17-Aug-2021

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

P11588 | (5)
1
P11592

AR
04/30/22

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32410 **Lot No.:** A0181782

**Description :** Aroclor® 1268 Standard

Aroclor® 1268 Standard 1,000 µg/mL, 1mL/ampul, Hexane

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2028 **Storage:** 25°C nominal

**Handling:** This product contains PCBs. **Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | Aroclor 1268 | 1,001.4 µg/mL | +/- 5.9480 | µg/mL | Gravimetric |
| | **CAS #** 11100-14-4 (Lot 10947000) | | +/- 31.7516 | µg/mL | Unstressed |
| | **Purity** ----% | | +/- 41.4710 | µg/mL | Stressed |

**Solvent:** Hexane
**CAS #** 110-54-3
**Purity** 99%

P 11593 (5)
↓
P 11597

AR 04/30/2022

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

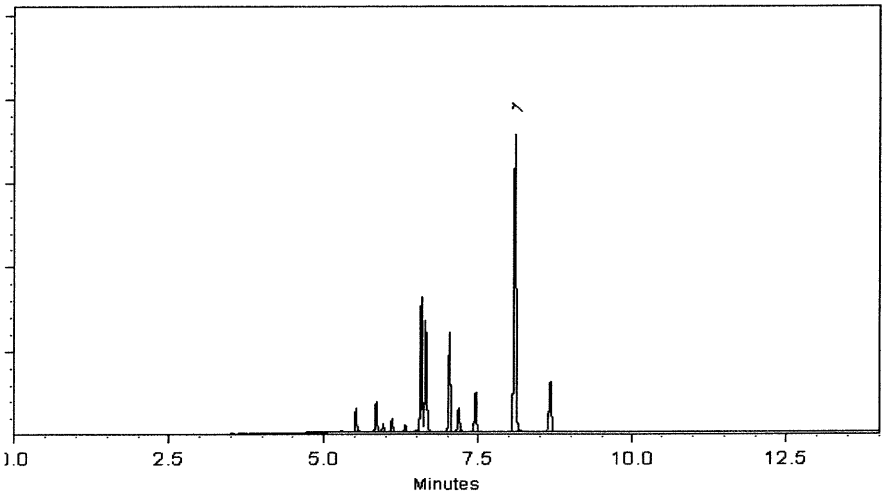
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

**Date Mixed:** 14-Feb-2022 **Balance:** 1128360905

Clara Windle - Operations Technician I

**Date Passed:** 17-Feb-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

P 11593 (5)
↓
P 11597
04/30/2022

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## Certificate of Analysis

P11739 to P11748

Received by SJ 5/27/2022

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32000 **Lot No.:** A0179404

**Description :** Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 200.7 µg/mL | +/- 1.1840 | µg/mL | Gravimetric |
| | **CAS #** 877-09-8 (Lot 0052481) | | +/- 6.3622 | µg/mL | Unstressed |
| | **Purity** 98% | | +/- 8.3106 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 200.8 µg/mL | +/- 1.1845 | µg/mL | Gravimetric |
| | **CAS #** 2051-24-3 (Lot 30679) | | +/- 6.3653 | µg/mL | Unstressed |
| | **Purity** 99% | | +/- 8.3146 | µg/mL | Stressed |

**Solvent:** Acetone
**CAS #** 67-64-1
**Purity** 99%

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

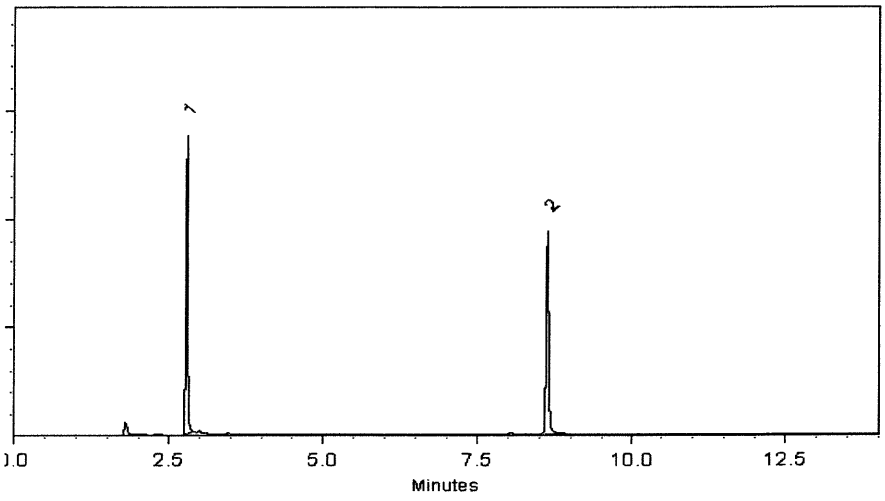
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

**Date Mixed:** 09-Dec-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

**Date Passed:** 14-Dec-2021

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Certificate #3222.02

## Certificate of Analysis

P11739 to P11748

Received by SJ 5/27/2022

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32000 **Lot No.:** A0179404

**Description :** Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 200.7 µg/mL | +/- 1.1840 | µg/mL | Gravimetric |
| | **CAS #** 877-09-8 (Lot 0052481) | | +/- 6.3622 | µg/mL | Unstressed |
| | **Purity** 98% | | +/- 8.3106 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 200.8 µg/mL | +/- 1.1845 | µg/mL | Gravimetric |
| | **CAS #** 2051-24-3 (Lot 30679) | | +/- 6.3653 | µg/mL | Unstressed |
| | **Purity** 99% | | +/- 8.3146 | µg/mL | Stressed |

**Solvent:** Acetone
**CAS #** 67-64-1
**Purity** 99%

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

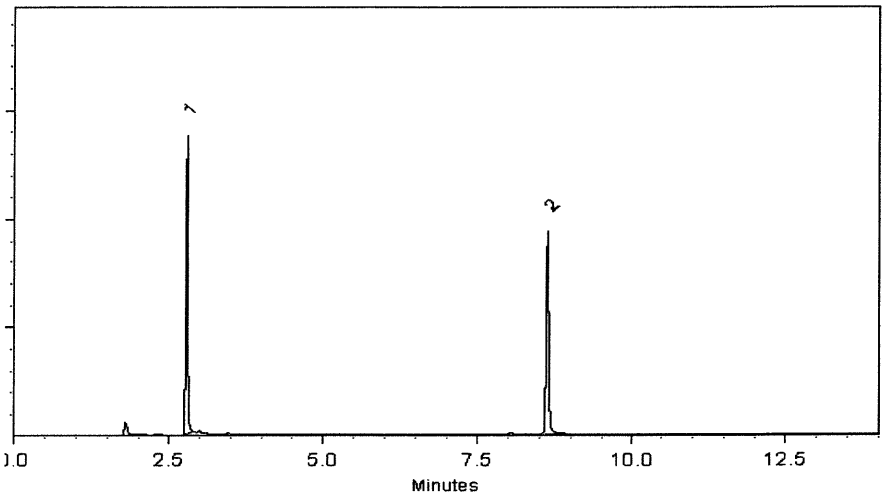
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

**Date Mixed:** 09-Dec-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

**Date Passed:** 14-Dec-2021

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

## Certificate of Analysis

P11739 to P11748

Received by SJ 5/27/2022

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 32000 **Lot No.:** A0179404

**Description :** Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---|---|---|---|---|---|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 200.7 µg/mL | +/- 1.1840 | µg/mL | Gravimetric |
| | **CAS #** 877-09-8 (Lot 0052481) | | +/- 6.3622 | µg/mL | Unstressed |
| | **Purity** 98% | | +/- 8.3106 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 200.8 µg/mL | +/- 1.1845 | µg/mL | Gravimetric |
| | **CAS #** 2051-24-3 (Lot 30679) | | +/- 6.3653 | µg/mL | Unstressed |
| | **Purity** 99% | | +/- 8.3146 | µg/mL | Stressed |

**Solvent:** Acetone
**CAS #** 67-64-1
**Purity** 99%

**Column:**
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

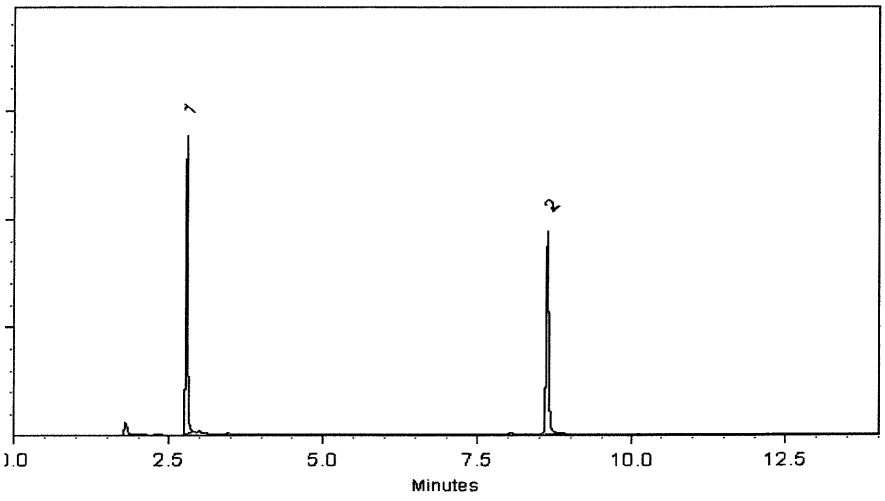
**Carrier Gas:**
helium-constant pressure 20 psi.

**Temp. Program:**
200°C to 300°C
@ 25°C/min. ( hold 10 min.)

**Inj. Temp:**
250°C

**Det. Temp:**
300°C

**Det. Type:**
ECD




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

**Date Mixed:** 09-Dec-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

**Date Passed:** 14-Dec-2021

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 20064
**Lot Number:** 033121
**Description:** CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260
**Expiration Date:** 033131
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test ID#:** 6UTB

| Solvent(s): | Lot# |
|---|---|
| Hexane | 233256 |

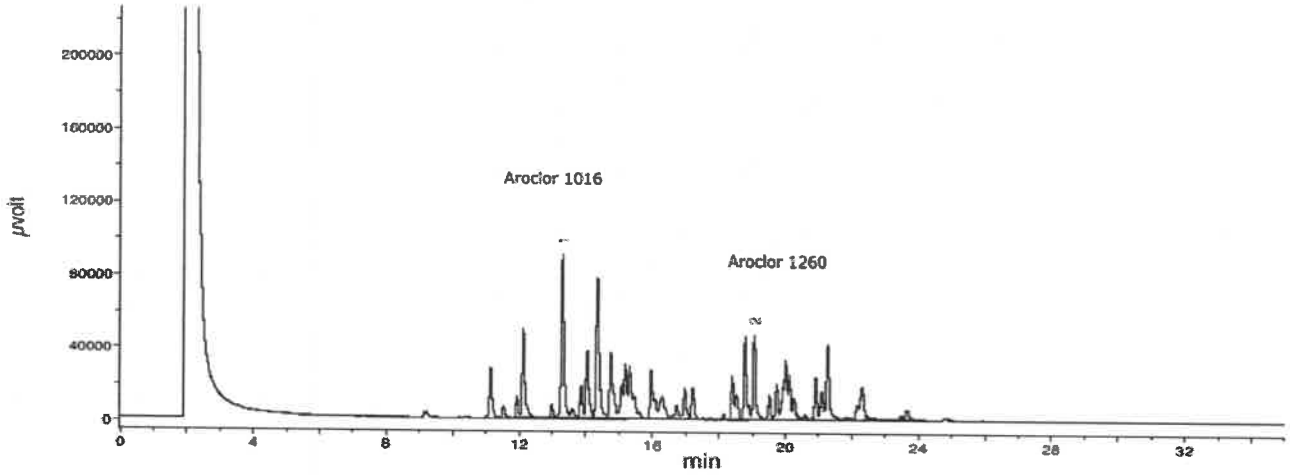
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.1 0.058 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | 033121 | |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | 033121 | |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Aroclor 1016 | 15 | 020491JC | 1000 | 100 | 0.2 | 0.20007 | 0.20025 | 1000.9 | 4.1 | 12674-11-2 | N/A | N/A |
| 2. Aroclor 1260 | 21 | 020491JC | 1000 | 100 | 0.2 | 0.20007 | 0.20035 | 1001.4 | 4.1 | 11096-82-5 | 0.5mg/m3 | orl-rat 1315mg/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Comments**
GC3-M1 Analysis by Melissa Stonier
Column ID SPB-608 30 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Edaq Channel 1
Standard injection =1.5µL, Range=3

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**Absolute Standards, Inc.**
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***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 20064
**Lot Number:** 033121
**Description:** CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260
**Expiration Date:** 033131
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test ID#:** 6UTB

| Solvent(s): | Lot# |
|---|---|
| Hexane | 233256 |

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.1 0.058 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | 033121 | |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | 033121 | |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Aroclor 1016 | 15 | 020491JC | 1000 | 100 | 0.2 | 0.20007 | 0.20025 | 1000.9 | 4.1 | 12674-11-2 | N/A | N/A |
| 2. Aroclor 1260 | 21 | 020491JC | 1000 | 100 | 0.2 | 0.20007 | 0.20035 | 1001.4 | 4.1 | 11096-82-5 | 0.5mg/m3 | orl-rat 1315mg/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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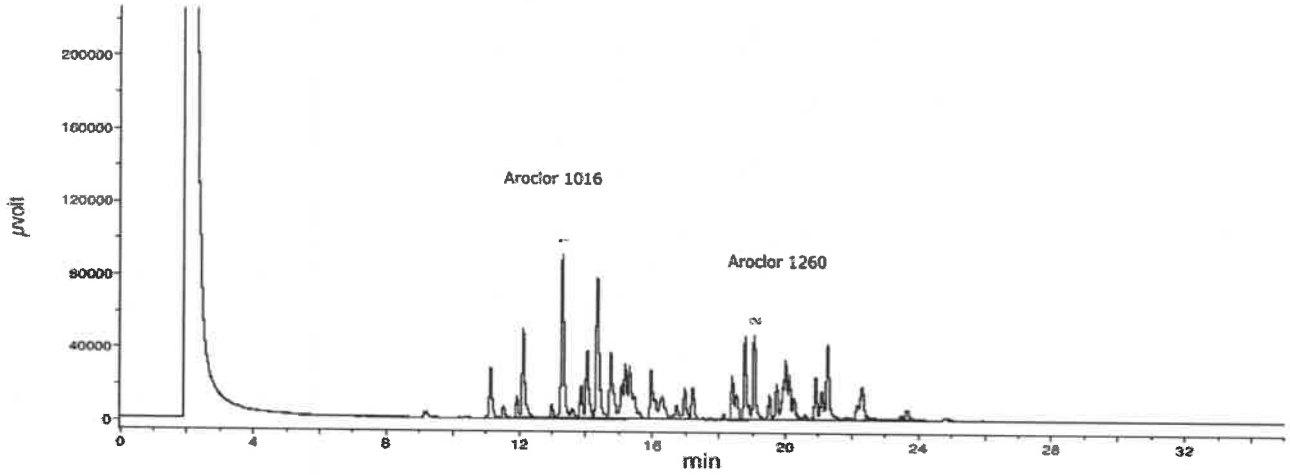
**Comments**
GC3-M1 Analysis by Melissa Stonier
Column ID SPB-608 30 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Edaq Channel 1
Standard injection =1.5µL, Range=3

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11/16/22

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www.absolutestandards.com

*Certified Refere*

CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 91867 |
| Lot Number: | 020823 |
| Description: | WP 037 - Aroclor 1232 PCB Technical Mixture |
| Expiration Date: | 020833 |
| Recommended Storage: | Ambient (20 °C) |
| Nominal Concentration (µg/mL): | 100 |
| NIST Test ID#: | 6UTB |

**Solvent(**
Aceton

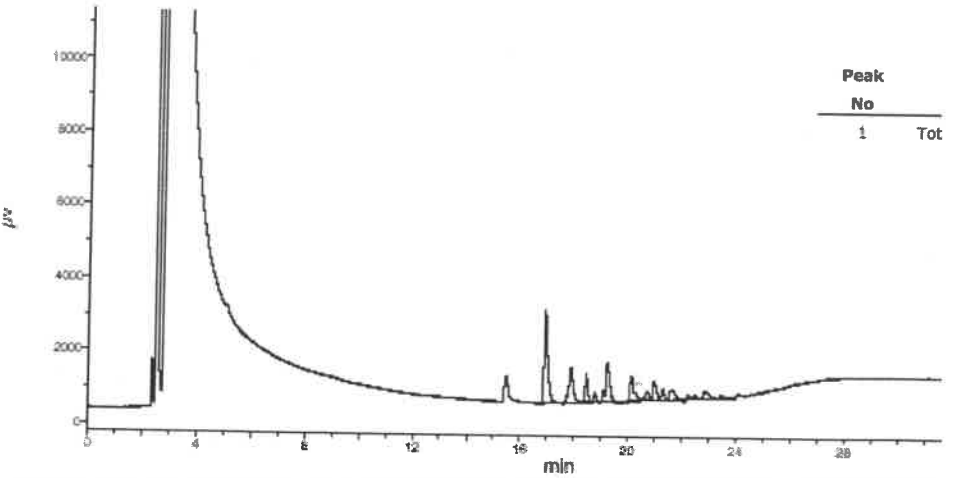
5E-05 Balance Uncertainty
0.057 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g |
|---|---|---|---|---|---|---|
| 1. Aroclor 1232 | 17 | 45-6A | 100 | 100 | 0.5 | 0.01000 |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measure Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Comments**
GC3-M1 Analysis by Melissa Stonier
Column ID SPB-608 30 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Edaq Channel 1
Standard injection =1.5µL, Range=3



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www.absolutestandards.com

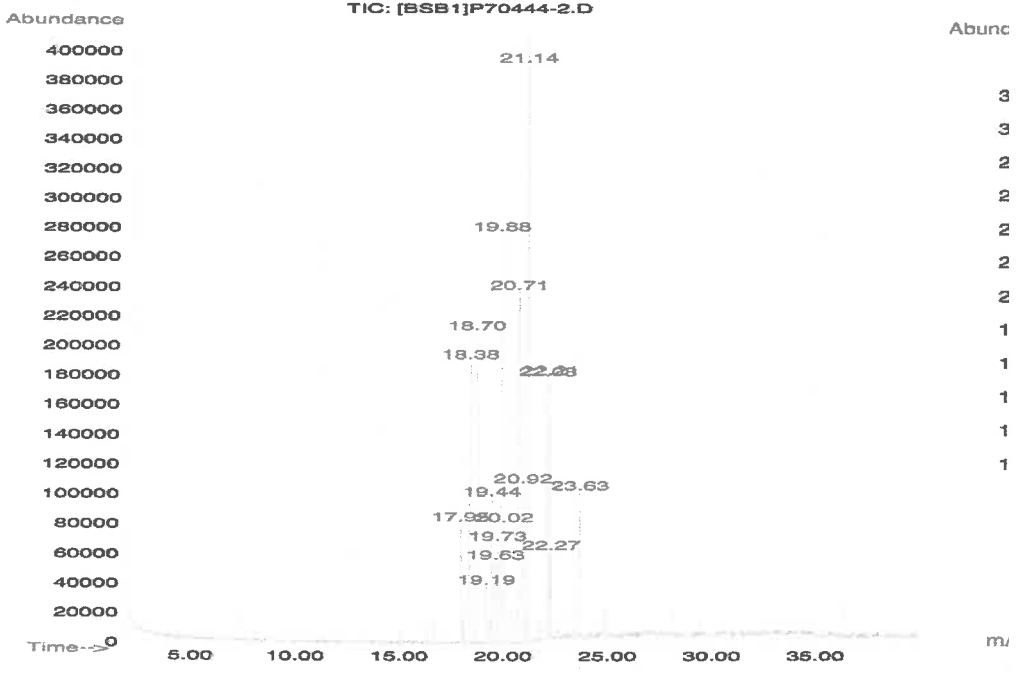
*Certified Referen*

## CERTIFIED WEIGHT REPORT

| | | | |
|---|---|---|---|
| **Part Number:** | X9166 | **Solvent(s):** | |
| **Lot Number:** | 060523 | Methanol | E |
| **Description:** | Aroclor 1262<br>Appendix IX Compound | | |
| **Expiration Date:** | 060533 | | |
| **Recommended Storage:** | Ambient (20 °C) | | |
| **Nominal Concentration (µg/mL):** | 100 | | |
| **NIST Test ID#:** | 6UTB | 5E-05 | Balance Uncertainty |
| Volume(s) shown below were combined and diluted to (mL): | 20.0 | 0.002 | Flask Uncertainty |

| Compound | Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Co |
|---|---|---|---|---|---|---|
| 1. Aroclor 1262 | 70444 | 080322 | 0.10 | 2.00 | 0.017 | |

**Method GC7MSD-7.M:** Column:(30m X 0.25mm ID X 0.25µm film thickn
min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C.




- The certified value is the concentration calculated from gravimetric and volumetric me
- Standards are prepared gravimetrically using balances that are calibrated with weight
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appro
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

CHEMTECH

# SHIPPING DOCUMENTS

# CHEMTECH
## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. P1747
COC Number 2043853

### CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LiRo Engineers, Inc.
ADDRESS: 703 Fourimer street
CITY Brooklyn STATE: NY ZIP: 11211
ATTENTION: Steve Frank / Amy Hewson
PHONE: 716 882-5476 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: Walter Gladwin Park Rec. Center
PROJECT NO.: 19-294-0265.01 LOCATION: Bronx, NY
PROJECT MANAGER: Steve Frank
e-mail: franks@liro-hill.com
PHONE: 716 882-5476 FAX:

### CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

### DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: 5 day TAT DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☐ EDD FORMAT

### ANALYSIS

1 TCL VOCs
2 SVOCs
3 PCBs
4 Pesticides
5 TAL metals*
6
7 NYCDEP Sanitary or Combined Sewer Discharge Parameters
8
9

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | A | D | B | → | → | → | ~ | ~ | | ← Specify Preservatives |
| 1. | MW-01 | GW | | X | 3/12/24 | 0800 | 7 | X | X | X | X | X | | | | | A-HCl D-NaOH |
| 2. | MW-01 DUP | GW | | X | ↓ | 0830 | 7 | X | X | X | X | X | | | | | B-HN03 E-ICE |
| 3. | MW-01 | GW | | X | 3/13/24 | 1000 | 14 | | | | | | | X | X | | C-H2SO4 F-OTHER |
| 4. | MW-02 | GW | | X | 3/12/24 | 1200 | 7 | X | X | X | X | X | | | | | |
| 5. | TWP-04 | GW | | X | ↓ | 1100 | 7 | X | X | X | X | X | | | | | |
| 6. | Trip Blank #1 | DI Water | | X | — | — | 2 | X | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

### SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. Eva Hu | 3/13/24 1220 | 1. 3-13-24 |
| 2. | | 2. |
| 3. | 3-13-24 1630 | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.4 °C
Comments: * TAL Metals (Filtered & Unfiltered)

Page 1 of 1
CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☒ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO


WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0649 |
| | |
| DOD ELAP (L-A-B) | L2219 |
| | |
| Maine | 2022022 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255423 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | P330-21-00137 |
| | |
| Texas | T104704488-23-16 |

CHEMTECH

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P1747 LIRO01
**Client Name :** LiRo Engineers, Inc.
**Client Contact :** Steve Frank
**Invoice Name :** LiRo Engineers, Inc.
**Invoice Contact :** Steve Frank

**Order Date :** 3/13/2024 12:28:00 PM
**Project Name :** Walter Gladwin Recreation
**Receive DateTime :** 3/13/2024 ~~12:00:00 AM~~ 16:30
**Purchase Order :**

**Project Mgr :**
**Report Type :** NYS ASP A
**EDD Type :** NYSDEC EDD V-3
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| P1747-01 | MW-01 | Water | 03/12/2024 | 08:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 5 Bus. Days |
| P1747-02 | MW-01-DUP | Water | 03/12/2024 | 08:30 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 5 Bus. Days |
| P1747-03 | MW-01 | Water | 03/13/2024 | 10:00 | | | | | |
| | | | | | VOC-NYCD | NYCDischarge | 624.1 | | 5 Bus. Days |
| P1747-04 | MW-02 | Water | 03/12/2024 | 12:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 5 Bus. Days |
| P1747-05 | MW-04 | Water | 03/12/2024 | 11:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 5 Bus. Days |
| P1747-06 | TRIP-BLANK | Water | 03/12/2024 | 00:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 5 Bus. Days |

**Relinguished By :**
**Date / Time :** 3-14-24 0903

**Received By :**
**Date / Time :** 3/14/24 09:03

**Storage Area :** **VOA Refridgerator Room**

Ref #4
Ref #5