

## Cover Page

**Order ID :** P3845

**Project ID :** NJ Waste Water PT

**Client :** Chemtech Consulting Group

### Lab Sample Number

P3845-01  
P3845-02  
P3845-03  
P3845-04  
P3845-05  
P3845-06  
P3845-07  
P3845-08  
P3845-09  
P3845-10  
P3845-11  
P3845-12  
P3845-13  
P3845-14  
P3845-15  
P3845-16  
P3845-17  
P3845-18  
P3845-19  
P3845-20  
P3845-21  
P3845-22

### Client Sample Number

PT-VOA-WP  
PT-VOA-WP  
PT-BN-WP  
PT-BN-WP  
PT-BN-WP  
PT-ACIDS-WP  
PT-ACIDS-WP  
PT-ACIDS-WP  
PT-PEST-WP  
PT-PEST-WP  
PT-CHLR-WP  
PT-CHLR-WP  
PT-TXP-WP  
PT-TXP-WP  
PT-PCBW-WP  
PT-PCBW-WP  
PT-HERB-WP  
RR-GAS-WP  
RR-DIES-WP  
RR-8011-WP  
RR-PAH-WP  
RR-TRIAZINE-WP

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: 10/24/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

## **CASE NARRATIVE**

### **Chemtech Consulting Group**

**Project Name: NJ Waste Water PT**

**Project # N/A**

**Chemtech Project # P3845**

**Test Name: PESTICIDE Group2**

### **A. Number of Samples and Date of Receipt:**

22 Water samples were received on 09/05/2024.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and VOCMS Group1. This data package contains results for PESTICIDE Group2.

### **C. Analytical Techniques:**

The analysis was performed on instrument ECD\_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of PESTICIDE Group2s was based on method 608.3,8081B 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 PT-CHLR-WP [Tetrachloro-m-xylene(2) - 146%]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 Blank Spike 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 met the requirements .

### **E. Additional Comments:**

### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



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Signature\_\_\_\_\_

## 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 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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**GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY**

CHEMTECH PROJECT NUMBER: P3845

MATRIX: Water

METHOD: 608.3,8081B/3510

|                                                                                                                                                                                                                                 | NA | NO | YES |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified.                                                                                                                                                                                  |    |    | ✓   |
| 2. Standard Summary Submitted.                                                                                                                                                                                                  |    |    | ✓   |
| 3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD.                                   |    |    | ✓   |
| The Initial Calibration met the requirements .                                                                                                                                                                                  |    |    |     |
| The Continuous Calibration met the requirements .                                                                                                                                                                               |    |    |     |
| 4. Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                               |    | ✓  |     |
| 5. Surrogate Recoveries Meet Criteria                                                                                                                                                                                           |    | ✓  |     |
| If not met, list those compounds and their recoveries which fall outside the acceptable ranges.                                                                                                                                 |    |    |     |
| The Surrogate recoveries met the acceptable criteria except for PT-CHLR-WP [Tetrachloro-m-xylene(2) - 146%]AS per method one surrogate allowed to fail to meet the criteria per column, No further corrective action was taken. |    |    |     |
| 6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria                                                                                                                                                                 |    |    | ✓   |
| If not met, list those compounds and their recoveries which fall outside the acceptable range.                                                                                                                                  |    |    |     |
| The Blank Spike met requirements for all samples .                                                                                                                                                                              |    |    |     |
| 7. Retention Time Shift Meet Criteria (if applicable)                                                                                                                                                                           |    |    | ✓   |
| Comments:                                                                                                                                                                                                                       |    |    |     |
| 8. Extraction Holding Time Met                                                                                                                                                                                                  |    |    | ✓   |
| If not met, list number of days exceeded for each sample:                                                                                                                                                                       |    |    |     |
| 9. Analysis Holding Time Met                                                                                                                                                                                                    |    |    | ✓   |
| If not met, list those compounds and their recoveries which fall outside the acceptable range.                                                                                                                                  |    |    |     |



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**GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)**

NA NO YES

ADDITIONAL COMMENTS:

\_\_\_\_\_  
QA REVIEW

\_\_\_\_\_  
Date

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: P3845

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

✓

QA Review Signature: SOHIL JODHANI

Date: 10/24/2024

## LAB CHRONICLE

|                 |                           |                   |                     |
|-----------------|---------------------------|-------------------|---------------------|
| <b>OrderID:</b> | P3845                     | <b>OrderDate:</b> | 9/5/2024 2:19:00 PM |
| <b>Client:</b>  | Chemtech Consulting Group | <b>Project:</b>   | NJ Waste Water PT   |
| <b>Contact:</b> | QA Officer                | <b>Location:</b>  | QA Office, VOA Lab  |

| LabID                   | ClientID             | Matrix       | Test                    | Method | Sample Date     | Prep Date | Anal Date | Received        |
|-------------------------|----------------------|--------------|-------------------------|--------|-----------------|-----------|-----------|-----------------|
| <b>P3845-09</b>         | <b>PT-PEST-WP</b>    | <b>WATER</b> | PESTICIDE Group1        | 8081B  | <b>09/03/24</b> | 09/09/24  | 09/24/24  | <b>09/05/24</b> |
| <b>P3845-09DL</b>       | <b>PT-PEST-WPDL</b>  | <b>WATER</b> | PESTICIDE Group1        | 8081B  | <b>09/03/24</b> | 09/09/24  | 09/24/24  | <b>09/05/24</b> |
| <b>P3845-09DL<br/>2</b> | <b>PT-PEST-WPDL2</b> | <b>WATER</b> | PESTICIDE Group1        | 8081B  | <b>09/03/24</b> | 09/09/24  | 09/24/24  | <b>09/05/24</b> |
| <b>P3845-11</b>         | <b>PT-CHLR-WP</b>    | <b>WATER</b> | PESTICIDE Group2        | 8081B  | <b>09/03/24</b> | 09/09/24  | 09/24/24  | <b>09/05/24</b> |
| <b>P3845-13</b>         | <b>PT-TXP-WP</b>     | <b>WATER</b> | PESTICIDE Group3        | 8081B  | <b>09/03/24</b> | 09/09/24  | 09/24/24  | <b>09/05/24</b> |
| <b>P3845-13DL</b>       | <b>PT-TXP-WPDL</b>   | <b>WATER</b> | PESTICIDE Group3        | 8081B  | <b>09/03/24</b> | 09/09/24  | 09/24/24  | <b>09/05/24</b> |
| <b>P3845-15</b>         | <b>PT-PCBW-WP</b>    | <b>WATER</b> | PCB                     | 8082A  | <b>09/03/24</b> | 09/09/24  | 09/10/24  | <b>09/05/24</b> |
| <b>P3845-17</b>         | <b>PT-HERB-WP</b>    | <b>WATER</b> | Herbicide group1        | 8151A  | <b>09/03/24</b> | 09/10/24  | 09/13/24  | <b>09/05/24</b> |
| <b>P3845-18</b>         | <b>RR-GAS-WP</b>     | <b>Water</b> | Gasoline Range Organics | 8015D  | <b>09/03/24</b> |           | 09/09/24  | <b>09/05/24</b> |
| <b>P3845-18RE</b>       | <b>RR-GAS-WP</b>     | <b>Water</b> | Gasoline Range Organics | 8015D  | <b>09/03/24</b> |           | 09/09/24  | <b>09/05/24</b> |
| <b>P3845-19</b>         | <b>RR-DIES-WP</b>    | <b>Water</b> | Diesel Range Organics   | 8015D  | <b>09/03/24</b> | 09/09/24  | 09/10/24  | <b>09/05/24</b> |

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## LAB CHRONICLE

|                   |                     |              |               |      |                 |          |                 |
|-------------------|---------------------|--------------|---------------|------|-----------------|----------|-----------------|
| <b>P3845-20</b>   | <b>RR-8011-WP</b>   | <b>WATER</b> |               |      | <b>09/03/24</b> |          | <b>09/05/24</b> |
|                   |                     |              | VOCGC Group 1 | 8011 |                 | 09/11/24 | 09/11/24        |
| <b>P3845-20DL</b> | <b>RR-8011-WPDL</b> | <b>WATER</b> |               |      | <b>09/03/24</b> |          | <b>09/05/24</b> |
|                   |                     |              | VOCGC Group 1 | 8011 |                 | 09/11/24 | 09/11/24        |

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**Hit Summary Sheet**  
**SW-846**

**SDG No.:** P3845

**Order ID:** P3845

**Client:** Chemtech Consulting Group

**Project ID:** NJ Waste Water PT

| Sample ID               | Client ID                | Parameter       | Concentration | C     | MDL  | RDL  | Units |
|-------------------------|--------------------------|-----------------|---------------|-------|------|------|-------|
| Client ID :<br>P3845-11 | PT-CHLR-WP<br>PT-CHLR-WP | WATER Chlordane | 9.00          | 0.082 | 0.50 | ug/L |       |
| Total Concentration:    |                          |                 | 9.000         |       |      |      |       |



# QC SUMMARY

### Surrogate Summary

SDG No.: **P3845**

Client: **Chemtech Consulting Group**

Analytical Method: **8081B**

| Lab Sample ID    | Client ID        | Parameter            | Column | Spike | Result | Rec | Qual | Limits |      |
|------------------|------------------|----------------------|--------|-------|--------|-----|------|--------|------|
|                  |                  |                      |        |       |        |     |      | Low    | High |
| I.BLK-PL091568.D | PIBLK-PL091568.D | Decachlorobiphenyl   | 1      | 20    | 26.7   | 133 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 24.2   | 121 |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 26.2   | 131 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 24.3   | 121 |      | 77     | 126  |
| I.BLK-PL091604.D | PIBLK-PL091604.D | Decachlorobiphenyl   | 1      | 20    | 18.4   | 92  |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 19.0   | 95  |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 17.3   | 87  |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 18.5   | 93  |      | 77     | 126  |
| PB163230BL       | PB163230BL       | Decachlorobiphenyl   | 1      | 20    | 20.2   | 101 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 20.2   | 101 |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 22.5   | 113 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 20.6   | 103 |      | 77     | 126  |
| I.BLK-PL091623.D | PIBLK-PL091623.D | Decachlorobiphenyl   | 1      | 20    | 20.3   | 102 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 19.6   | 98  |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 20.0   | 100 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 17.9   | 90  |      | 77     | 126  |
| I.BLK-PL091777.D | PIBLK-PL091777.D | Decachlorobiphenyl   | 1      | 20    | 22.9   | 115 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 22.3   | 111 |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 22.1   | 110 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 20.0   | 100 |      | 77     | 126  |
| PB163230BS       | PB163230BS       | Decachlorobiphenyl   | 1      | 20    | 22.6   | 113 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 20.7   | 104 |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 21.8   | 109 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 23.6   | 118 |      | 77     | 126  |
| I.BLK-PL091784.D | PIBLK-PL091784.D | Decachlorobiphenyl   | 1      | 20    | 23.6   | 118 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 24.0   | 120 |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 24.3   | 122 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 21.4   | 107 |      | 77     | 126  |
| I.BLK-PL091953.D | PIBLK-PL091953.D | Decachlorobiphenyl   | 1      | 20    | 19.6   | 98  |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 19.0   | 95  |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 18.7   | 94  |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 18.3   | 92  |      | 77     | 126  |
| I.BLK-PL091991.D | PIBLK-PL091991.D | Decachlorobiphenyl   | 1      | 20    | 20.7   | 104 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 20.3   | 101 |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 19.5   | 98  |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 19.6   | 98  |      | 77     | 126  |
| P3845-11         | PT-CHLR-WP       | Decachlorobiphenyl   | 1      | 20    | 23.4   | 117 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 1      | 20    | 22.6   | 113 |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 23.4   | 117 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 29.2   | 146 | *    | 77     | 126  |
| I.BLK-PL092002.D | PIBLK-PL092002.D | Decachlorobiphenyl   | 1      | 20    | 20.9   | 104 |      | 43     | 140  |



### Surrogate Summary

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8081B

| Lab Sample ID    | Client ID        | Parameter            | Column | Spike | Result | Rec | Qual | Limits |      |
|------------------|------------------|----------------------|--------|-------|--------|-----|------|--------|------|
|                  |                  |                      |        |       |        |     |      | Low    | High |
| I.BLK-PL092002.D | PIBLK-PL092002.D | Tetrachloro-m-xylene | 1      | 20    | 20.0   | 100 |      | 77     | 126  |
|                  |                  | Decachlorobiphenyl   | 2      | 20    | 20.4   | 102 |      | 43     | 140  |
|                  |                  | Tetrachloro-m-xylene | 2      | 20    | 19.5   | 97  |      | 77     | 126  |



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### Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: **8081B** Datafile : PL091781.D

| Lab Sample ID | Parameter | Spike | Result | Units | Rec | RPD | Qual | RPD  |     | Limits |  | RPD |
|---------------|-----------|-------|--------|-------|-----|-----|------|------|-----|--------|--|-----|
|               |           |       |        |       |     |     |      | Qual | Low | High   |  |     |
| PB163230BS    | Chlordane | 2     | 2.10   | ug/L  | 105 |     |      |      | 80  | 120    |  |     |

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163230BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P3845

SAS No.: P3845 SDG NO.: P3845

Lab Sample ID: PB163230BL

Lab File ID: PL091615.D

Matrix: (soil/water) WATER

Extraction: (Type) \_\_\_\_\_

Sulfur Cleanup: (Y/N) N

Date Extracted: 09/09/2024

Date Analyzed (1): 09/10/2024

Date Analyzed (2): 09/10/2024

Time Analyzed (1): 13:52

Time Analyzed (2): 13:52

Instrument ID (1): ECD\_L

Instrument ID (2): ECD\_L

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

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

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED 1 | DATE<br>ANALYZED 2 |
|-------------------|------------------|----------------|--------------------|--------------------|
| PB163230BS        | PB163230BS       | PL091781.D     | 09/17/2024         | 09/17/2024         |
| PT-CHLR-WP        | P3845-11         | PL091997.D     | 09/24/2024         | 09/24/2024         |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_



# SAMPLE DATA

## Report of Analysis

|                    |                           |           |                    |                  |           |
|--------------------|---------------------------|-----------|--------------------|------------------|-----------|
| Client:            | Chemtech Consulting Group |           | Date Collected:    | 09/03/24         |           |
| Project:           | NJ Waste Water PT         |           | Date Received:     | 09/05/24         |           |
| Client Sample ID:  | PT-CHLR-WP                |           | SDG No.:           | P3845            |           |
| Lab Sample ID:     | P3845-11                  |           | Matrix:            | WATER            |           |
| Analytical Method: | SW8081                    |           | % Solid:           | 0                | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: mL | Final Vol:         | 10000            | uL        |
| Soil Aliquot Vol:  |                           | uL        | Test:              | PESTICIDE Group2 |           |
| Extraction Type:   |                           |           | Injection Volume : |                  |           |
| GPC Factor :       | 1.0                       | PH :      |                    |                  |           |
| Prep Method :      | 3510C                     |           |                    |                  |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL091997.D        | 1         | 09/09/24 10:00 | 09/24/24 12:49 | PB163230      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 9.00  |           | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 23.4  |           | 43 - 140 | 117%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 29.2  | *         | 77 - 126 | 146%       | 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\_L\Data\PL092424\  
 Data File : PL091997.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 24 Sep 2024 12:49  
 Operator : AR\AJ  
 Sample : P3845-11  
 Misc : CH/PT  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PT-CHLR-WP

**Manual Integrations**  
**APPROVED**

Reviewed By :Abdul Mirza 09/25/2024  
 Supervised By :Ankita Jodhani 09/25/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 25 01:17:40 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 16:44:57 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

|                             | Compound        | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml    | ng/ml    |
|-----------------------------|-----------------|-------|-------|----------|----------|----------|----------|
| -----                       |                 |       |       |          |          |          |          |
| System Monitoring Compounds |                 |       |       |          |          |          |          |
| 1)                          | SA Tetrachlo... | 3.544 | 2.782 | 50253973 | 73190020 | 22.590   | 29.182 # |
| 28)                         | SA Decachlor... | 9.060 | 7.923 | 38299723 | 58615110 | 23.379   | 23.428   |
|                             |                 |       |       |          |          |          |          |
| Target Compounds            |                 |       |       |          |          |          |          |
| 23)                         | Chlordane-1     | 4.705 | 3.781 | 88451622 | 96969980 | 862.989m | 969.886  |
| 24)                         | Chlordane-2     | 5.236 | 4.358 | 89476995 | 99265513 | 834.311  | 884.515  |
| 25)                         | Chlordane-3     | 5.946 | 4.988 | 275.9E6  | 301.7E6  | 736.433  | 910.947  |
| 26)                         | Chlordane-4     | 6.027 | 5.051 | 327.8E6  | 286.0E6  | 723.933  | 901.317  |
| 27)                         | Chlordane-5     | 6.876 | 5.947 | 71792822 | 92154249 | 823.171  | 849.744  |
| -----                       |                 |       |       |          |          |          |          |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092424\  
Data File : PL091997.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 24 Sep 2024 12:49  
Operator : AR\AJ  
Sample : P3845-11  
Misc : CH/PT  
ALS Vial : 8 Sample Multiplier: 1

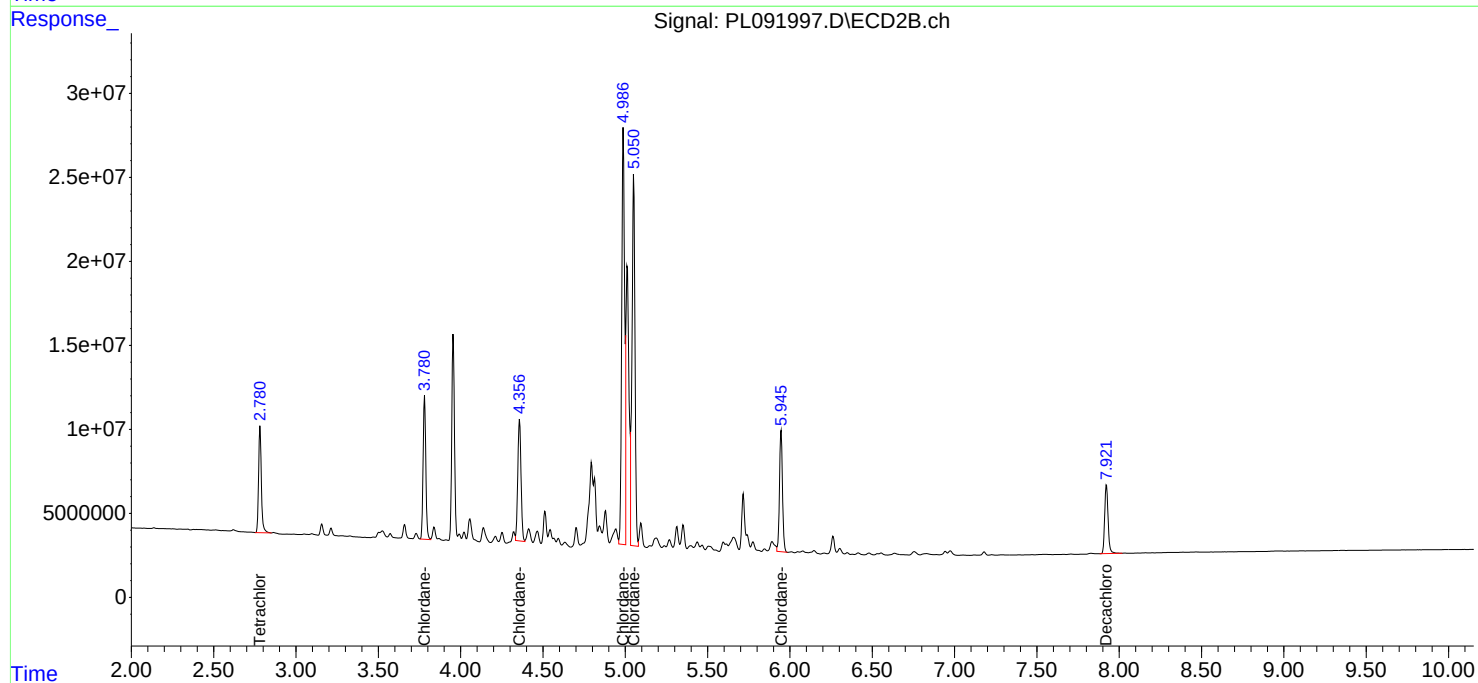
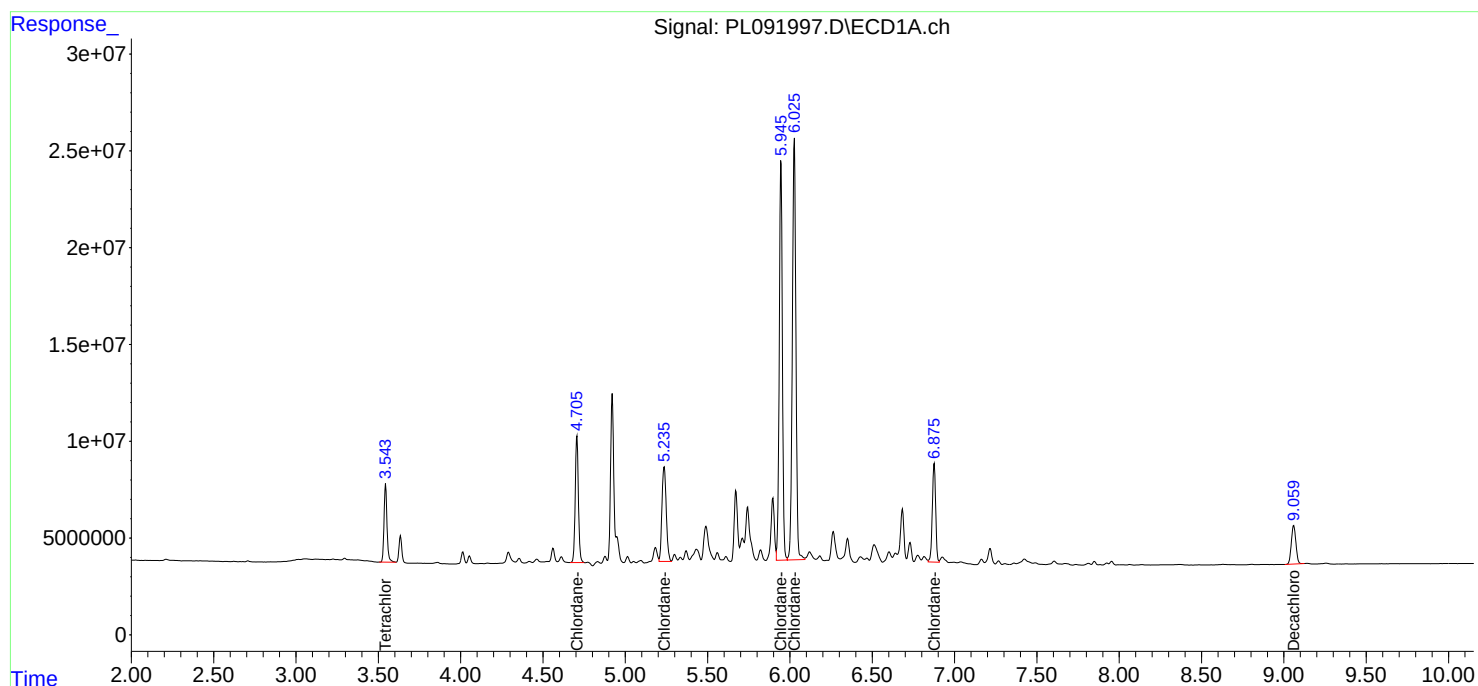
Instrument :  
ECD\_L  
ClientSampleId :  
PT-CHLR-WP

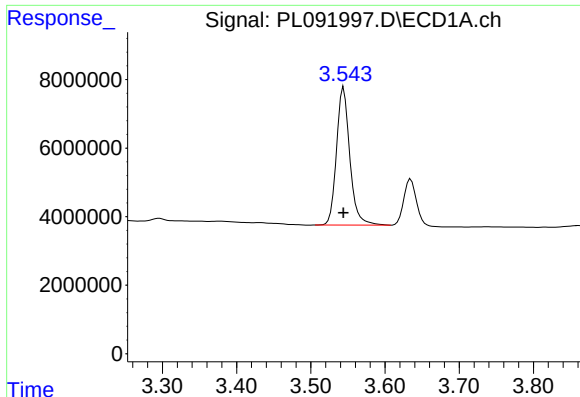
Manual Integrations  
APPROVED

Reviewed By : Abdul Mirza 09/25/2024  
Supervised By : Ankita Jodhani 09/25/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 25 01:17:40 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 16:44:57 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





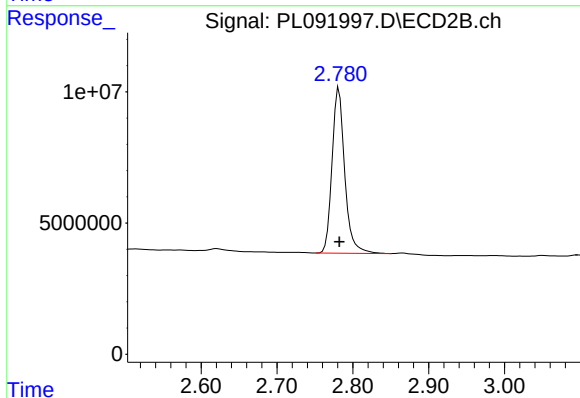
## #1 Tetrachloro-m-xylene

R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 50253973  
Conc: 22.59 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PT-CHLR-WP

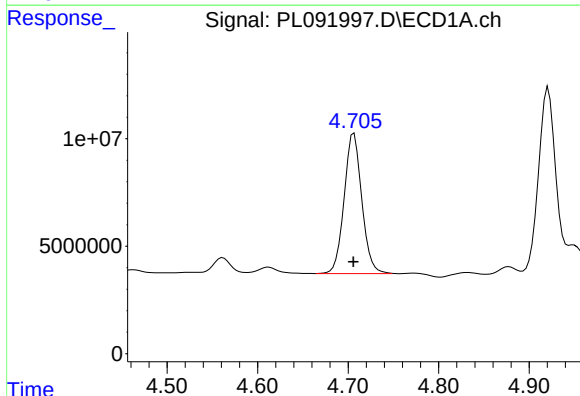
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/25/2024  
Supervised By :Ankita Jodhani 09/25/2024



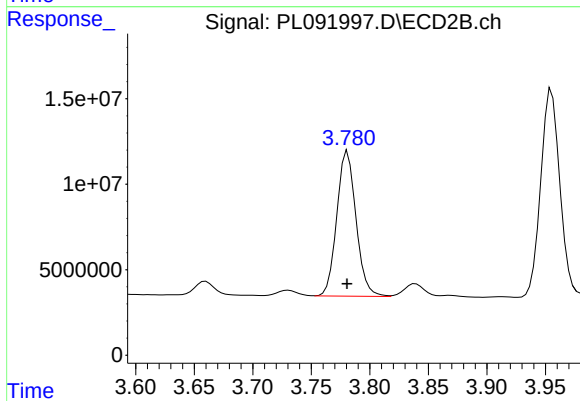
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 73190020  
Conc: 29.18 ng/ml



## #23 Chlordane-1

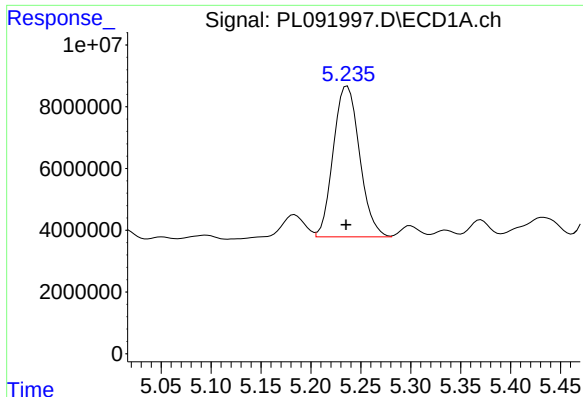
R.T.: 4.705 min  
Delta R.T.: 0.000 min  
Response: 88451622  
Conc: 862.99 ng/ml m



## #23 Chlordane-1

R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 96969980  
Conc: 969.89 ng/ml





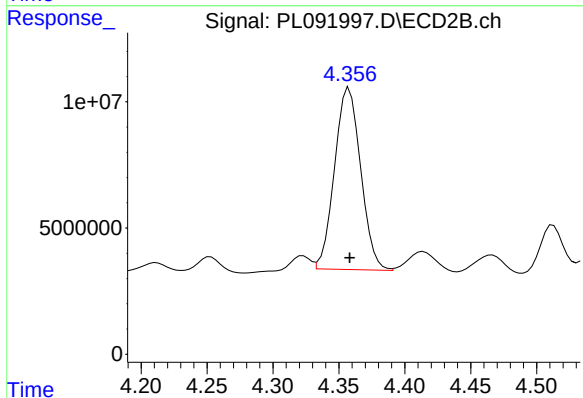
#24 Chlordane-2

R.T.: 5.236 min  
Delta R.T.: 0.001 min  
Response: 89476995  
Conc: 834.31 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PT-CHLR-WP

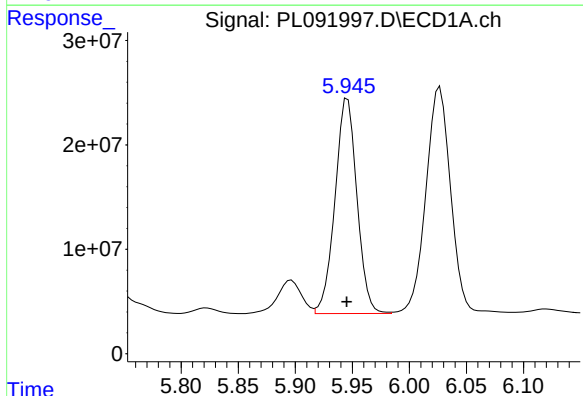
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/25/2024  
Supervised By :Ankita Jodhani 09/25/2024



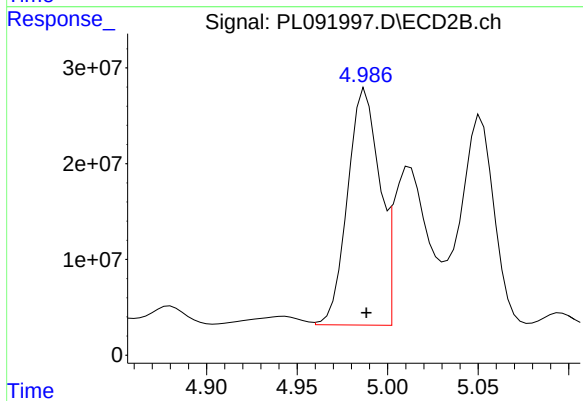
#24 Chlordane-2

R.T.: 4.358 min  
Delta R.T.: 0.000 min  
Response: 99265513  
Conc: 884.51 ng/ml



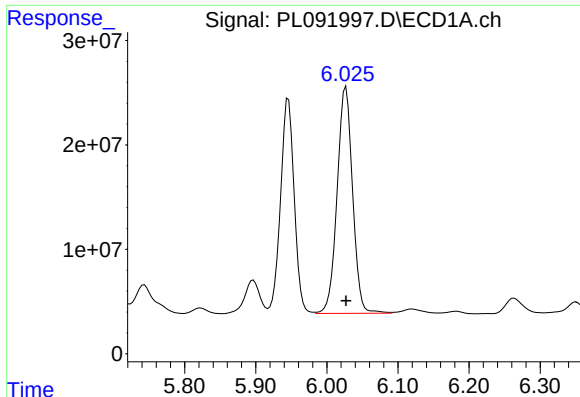
#25 Chlordane-3

R.T.: 5.946 min  
Delta R.T.: 0.000 min  
Response: 275850737  
Conc: 736.43 ng/ml



#25 Chlordane-3

R.T.: 4.988 min  
Delta R.T.: 0.000 min  
Response: 301731588  
Conc: 910.95 ng/ml



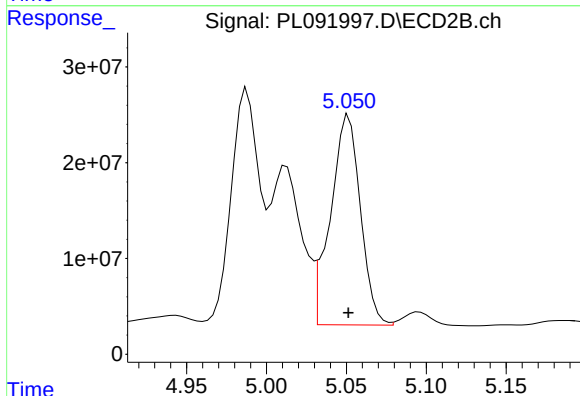
#26 Chlordane-4

R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 327830598  
Conc: 723.93 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PT-CHLR-WP

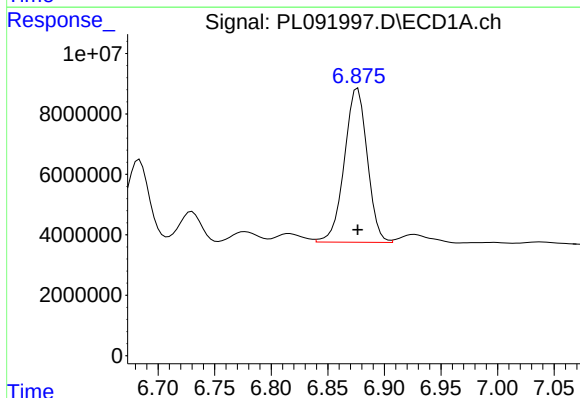
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/25/2024  
Supervised By :Ankita Jodhani 09/25/2024



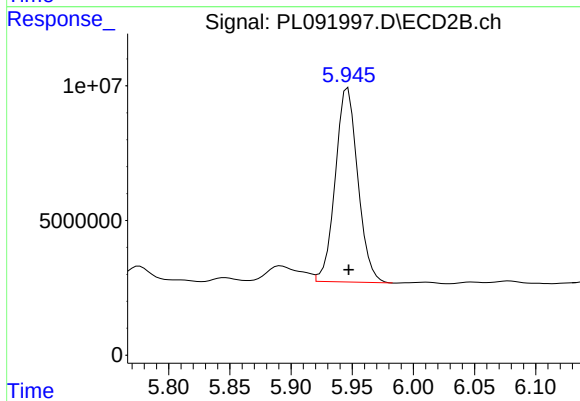
#26 Chlordane-4

R.T.: 5.051 min  
Delta R.T.: 0.000 min  
Response: 285971708  
Conc: 901.32 ng/ml



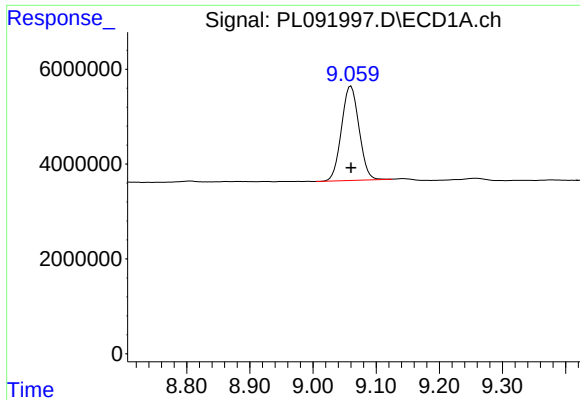
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 71792822  
Conc: 823.17 ng/ml



#27 Chlordane-5

R.T.: 5.947 min  
Delta R.T.: 0.000 min  
Response: 92154249  
Conc: 849.74 ng/ml



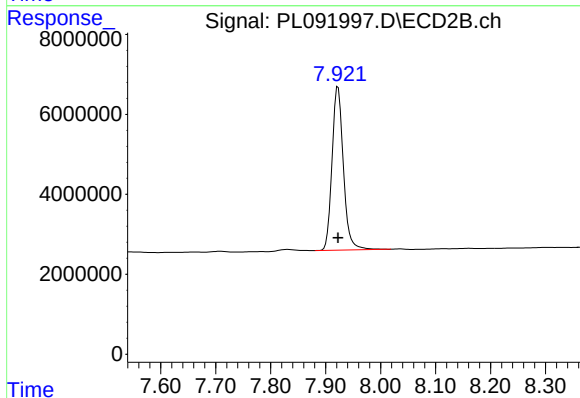
#28 Decachlorobiphenyl

R.T.: 9.060 min  
Delta R.T.: 0.000 min  
Response: 38299723  
Conc: 23.38 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PT-CHLR-WP

Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/25/2024  
Supervised By :Ankita Jodhani 09/25/2024



#28 Decachlorobiphenyl

R.T.: 7.923 min  
Delta R.T.: 0.000 min  
Response: 58615110  
Conc: 23.43 ng/ml



# CALIBRATION SUMMARY

[illegible]

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

[illegible]



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Instrument ID: ECD\_L

Calibration Date(s): 09/09/2024 09/09/2024

Calibration Times: 16:39 17:33

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

| LAB FILE ID:                |     |                            |           |                            |           |           |           |       |
|-----------------------------|-----|----------------------------|-----------|----------------------------|-----------|-----------|-----------|-------|
| CF 1000 = <u>PL091576.D</u> |     | CF 750 = <u>PL091577.D</u> |           |                            |           |           |           |       |
| CF 500 = <u>PL091578.D</u>  |     | CF 250 = <u>PL091579.D</u> |           | CF 050 = <u>PL091580.D</u> |           |           |           |       |
| COMPOUND                    |     | CF 1000                    | CF 750    | CF 500                     | CF 250    | CF 050    | CF        | % RSD |
| Chlordane-1                 | (1) | 60104000                   | 60282100  | 61426000                   | 63324800  | 66243900  | 62276200  | 4     |
| Chlordane-2                 | (2) | 67677500                   | 68166200  | 73682000                   | 80245900  | 94639200  | 76882200  | 15    |
| Chlordane-3                 | (3) | 243077000                  | 239434000 | 245076000                  | 253078000 | 303831000 | 256899000 | 10    |
| Chlordane-4                 | (4) | 291651000                  | 287540000 | 293225000                  | 291517000 | 316849000 | 296156000 | 4     |
| Chlordane-5                 | (5) | 54634300                   | 54679700  | 56324700                   | 57073100  | 62674500  | 57077200  | 6     |
| Decachlorobiphenyl          |     | 110886000                  | 110532000 | 116162000                  | 123872000 | 141200000 | 120531000 | 11    |
| Tetrachloro-m-xylene        |     | 145376000                  | 144397000 | 145937000                  | 151539000 | 172342000 | 151918000 | 8     |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Instrument ID: ECD\_L

Calibration Date(s): 09/09/2024 09/09/2024

Calibration Times: 16:39 17:33

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

| LAB FILE ID:         |     |                   |           |           |                   |           | CF 1000 = | <u>PL091576.D</u> | CF 750 = | <u>PL091577.D</u> |
|----------------------|-----|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|----------|-------------------|
| CF 500 =             |     | <u>PL091578.D</u> | CF 250 =  |           | <u>PL091579.D</u> | CF 050 =  |           | <u>PL091580.D</u> |          |                   |
| COMPOUND             |     | CF 1000           | CF 750    | CF 500    | CF 250            | CF 050    | CF        | %<br>RSD          |          |                   |
| Chlordane-1          | (1) | 67613300          | 66665300  | 67090600  | 68976700          | 77478000  | 69564800  | 6                 |          |                   |
| Chlordane-2          | (2) | 72258000          | 71755500  | 72881600  | 75728600          | 82134300  | 74951600  | 6                 |          |                   |
| Chlordane-3          | (3) | 230321000         | 228005000 | 223015000 | 223493000         | 260872000 | 233141000 | 7                 |          |                   |
| Chlordane-4          | (4) | 214746000         | 203770000 | 208539000 | 208160000         | 207449000 | 208533000 | 2                 |          |                   |
| Chlordane-5          | (5) | 73932200          | 71770200  | 70854800  | 69693300          | 72052400  | 71660600  | 2                 |          |                   |
| Decachlorobiphenyl   |     | 179514000         | 178103000 | 182353000 | 190238000         | 208559000 | 187753000 | 7                 |          |                   |
| Tetrachloro-m-xylene |     | 226151000         | 223942000 | 222367000 | 222724000         | 213776000 | 221792000 | 2                 |          |                   |



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
 Data File : PL091576.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 09 Sep 2024 16:39  
 Operator : AR\AJ  
 Sample : PCHLORICC1000  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC1000

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 09 17:21:57 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 17:19:08 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

|                             | Compound        | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml    |
|-----------------------------|-----------------|-------|-------|----------|----------|---------|----------|
| -----                       |                 |       |       |          |          |         |          |
| System Monitoring Compounds |                 |       |       |          |          |         |          |
| 1)                          | SA Tetrachlo... | 3.545 | 2.783 | 145.4E6  | 226.2E6  | 99.807  | 100.844  |
| 28)                         | SA Decachlor... | 9.060 | 7.925 | 110.9E6  | 179.5E6  | 97.676  | 99.215   |
|                             |                 |       |       |          |          |         |          |
| Target Compounds            |                 |       |       |          |          |         |          |
| 23)                         | Chlordane-1     | 4.706 | 3.782 | 60104002 | 67613308 | 989.122 | 1003.881 |
| 24)                         | Chlordane-2     | 5.237 | 4.359 | 67677534 | 72257952 | 957.523 | 995.703  |
| 25)                         | Chlordane-3     | 5.946 | 4.990 | 243.1E6  | 230.3E6  | 995.905 | 1016.117 |
| 26)                         | Chlordane-4     | 6.028 | 5.052 | 291.7E6  | 214.7E6  | 997.309 | 1014.664 |
| 27)                         | Chlordane-5     | 6.877 | 5.949 | 54634339 | 73932244 | 984.766 | 1021.255 |
| -----                       |                 |       |       |          |          |         |          |

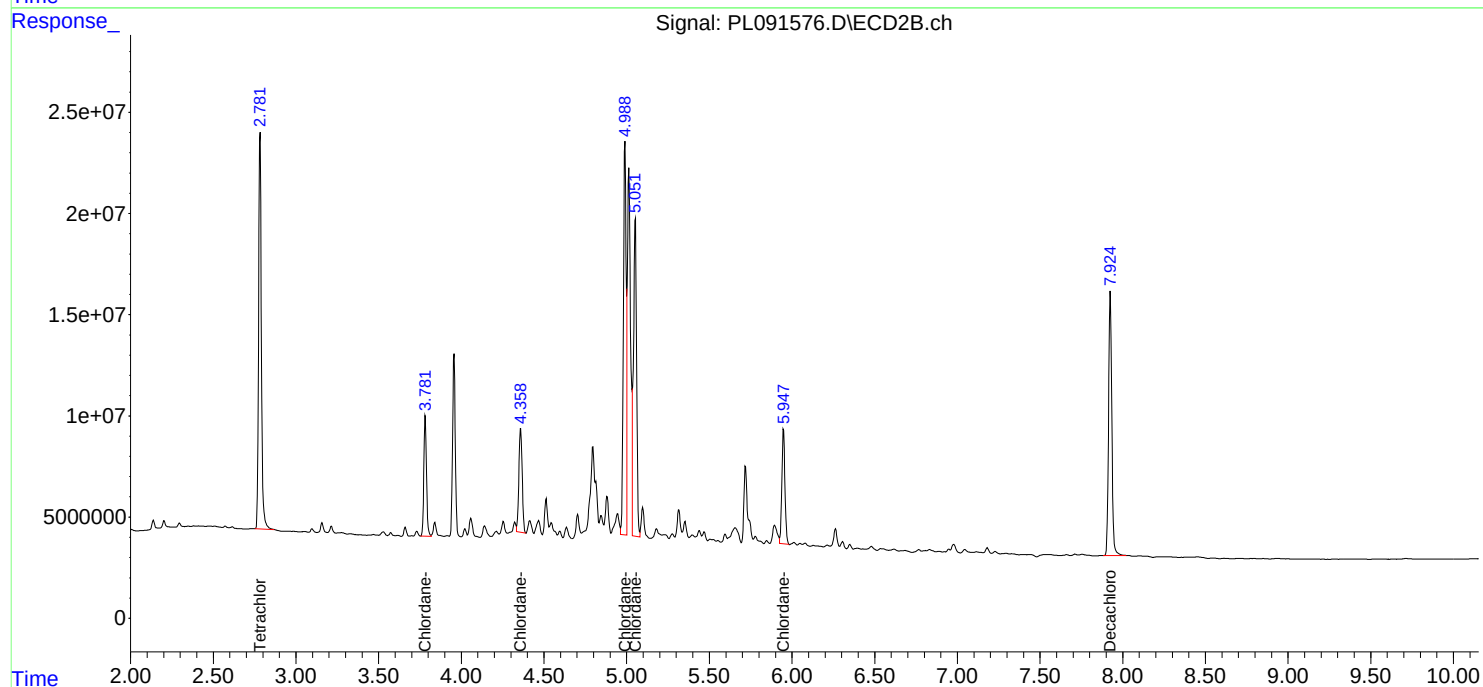
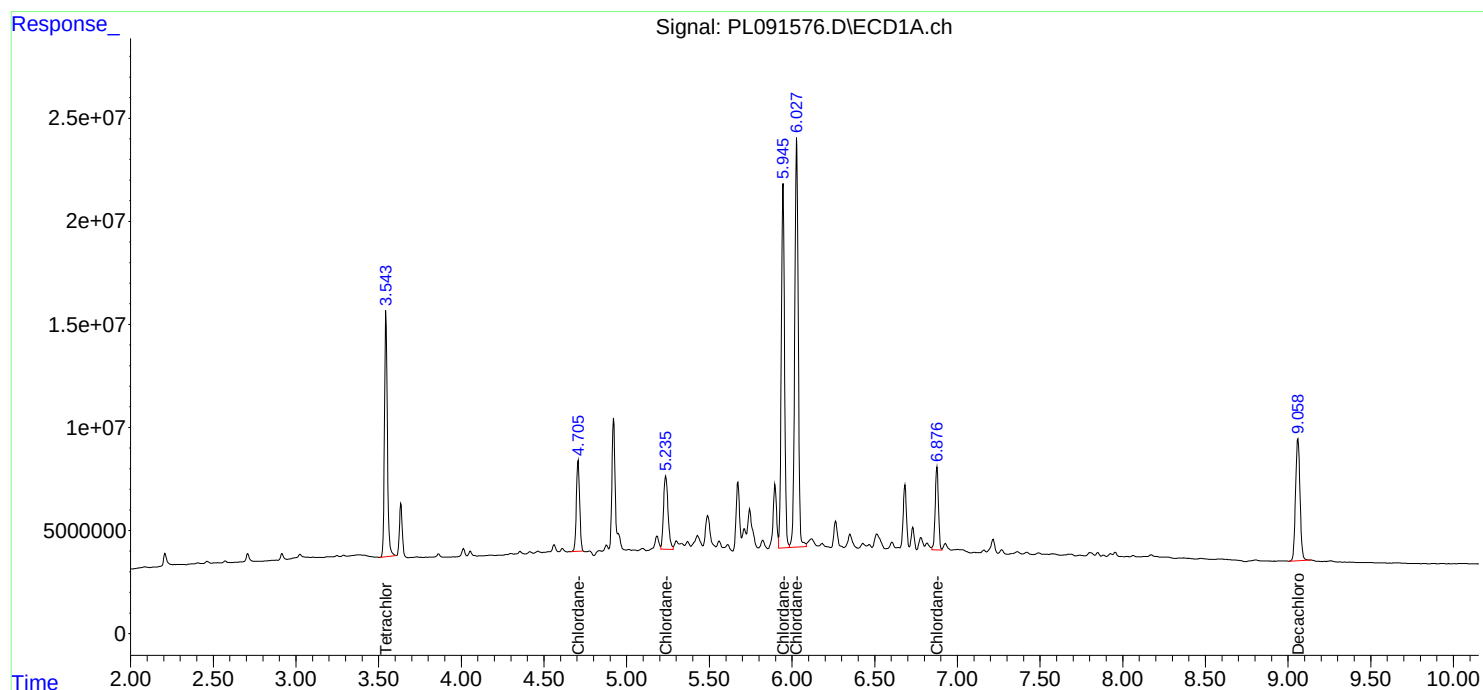
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

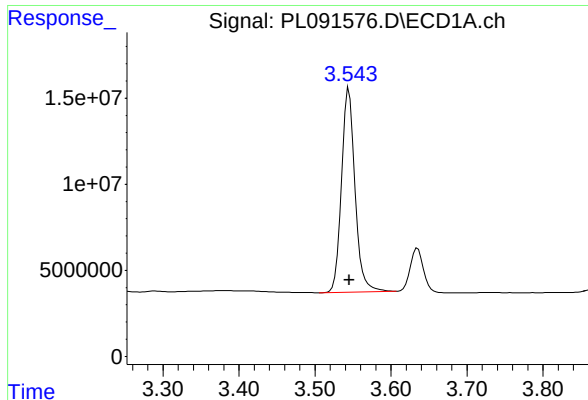
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
Data File : PL091576.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 09 Sep 2024 16:39  
Operator : AR\AJ  
Sample : PCHLORICC1000  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 09 17:21:57 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 17:19:08 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

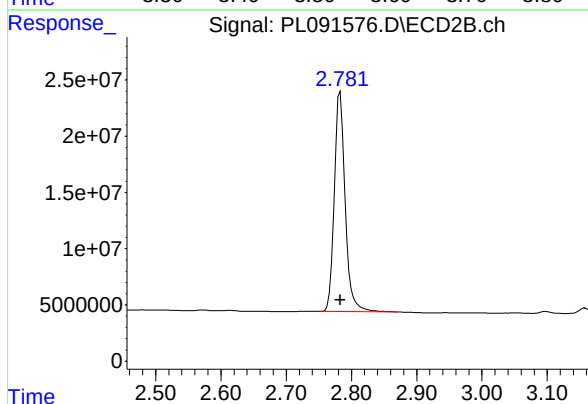




## #1 Tetrachloro-m-xylene

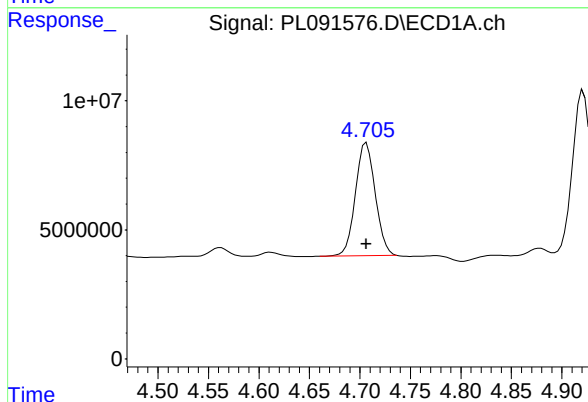
R.T.: 3.545 min  
Delta R.T.: 0.000 min  
Response: 145375578  
Conc: 99.81 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000



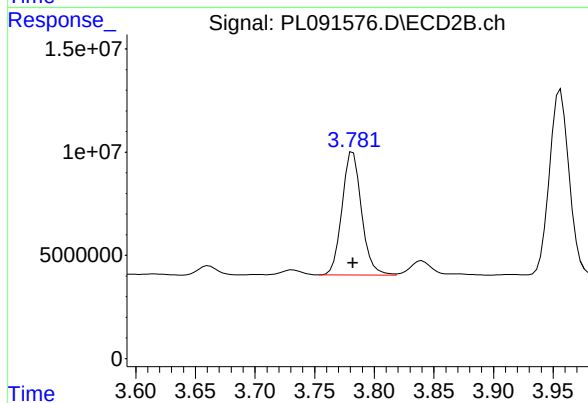
## #1 Tetrachloro-m-xylene

R.T.: 2.783 min  
Delta R.T.: 0.000 min  
Response: 226151413  
Conc: 100.84 ng/ml



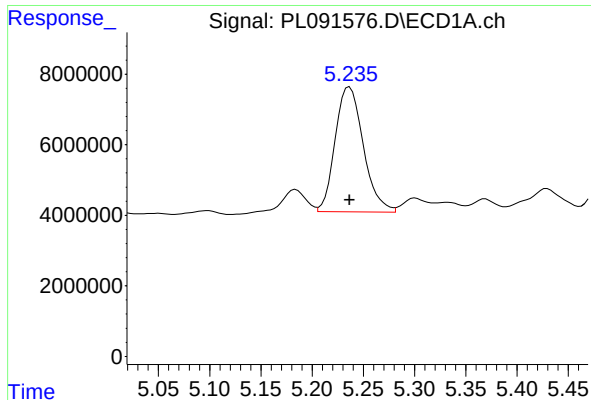
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 60104002  
Conc: 989.12 ng/ml



## #23 Chlordane-1

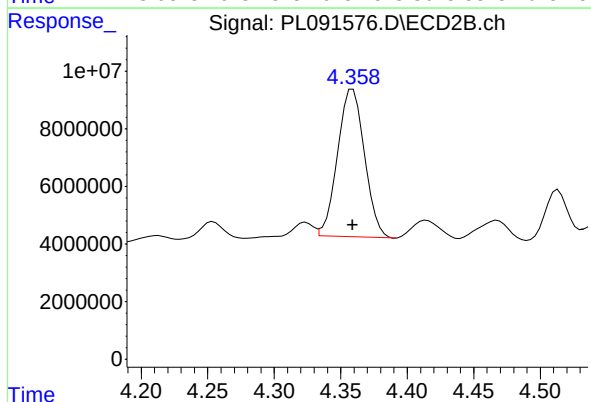
R.T.: 3.782 min  
Delta R.T.: 0.000 min  
Response: 67613308  
Conc: 1003.88 ng/ml



#24 Chlordane-2

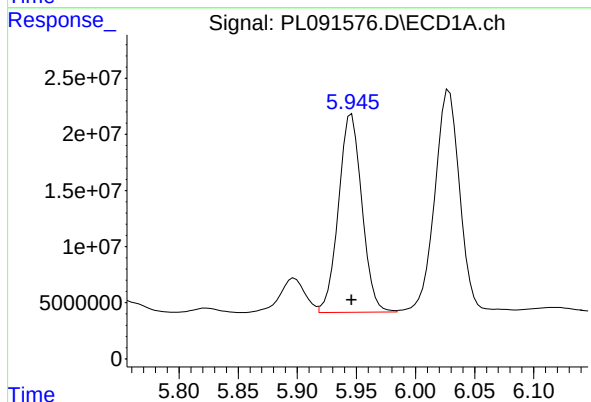
R.T.: 5.237 min  
Delta R.T.: 0.000 min  
Response: 67677534  
Conc: 957.52 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000



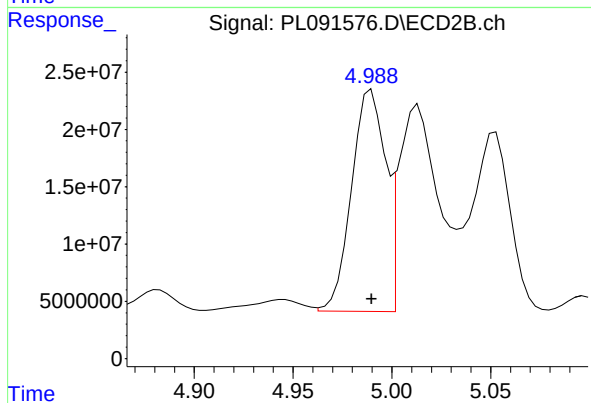
#24 Chlordane-2

R.T.: 4.359 min  
Delta R.T.: 0.000 min  
Response: 72257952  
Conc: 995.70 ng/ml



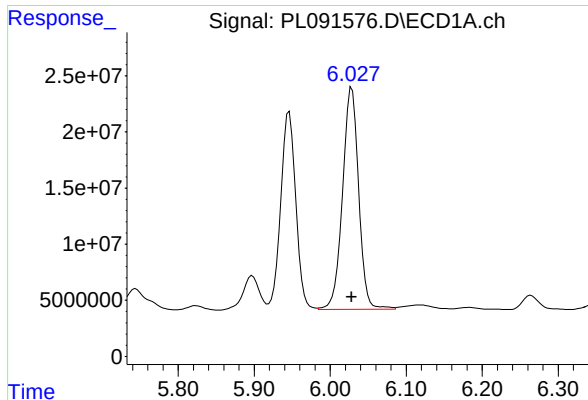
#25 Chlordane-3

R.T.: 5.946 min  
Delta R.T.: 0.000 min  
Response: 243077143  
Conc: 995.90 ng/ml



#25 Chlordane-3

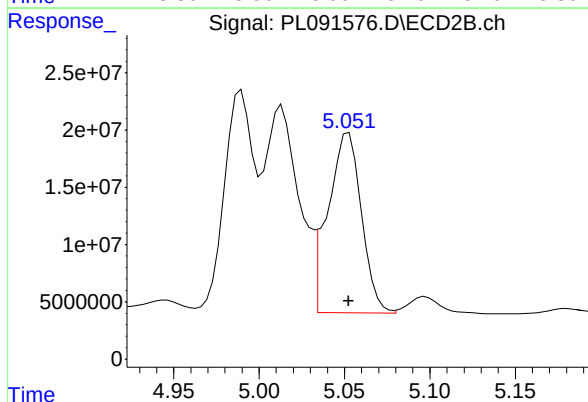
R.T.: 4.990 min  
Delta R.T.: 0.000 min  
Response: 230321459  
Conc: 1016.12 ng/ml



#26 Chlordane-4

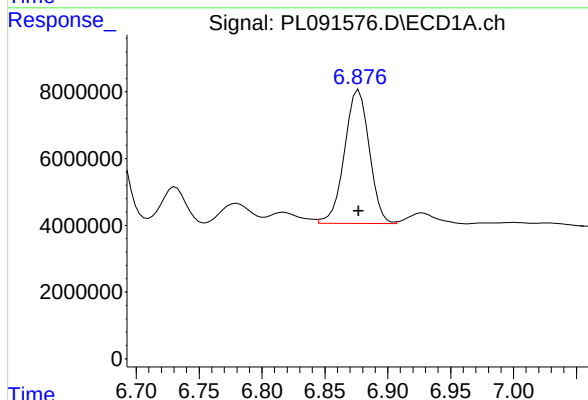
R.T.: 6.028 min  
Delta R.T.: 0.000 min  
Response: 291650819  
Conc: 997.31 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000



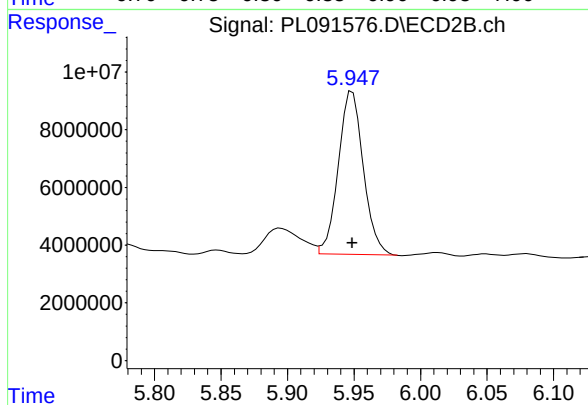
#26 Chlordane-4

R.T.: 5.052 min  
Delta R.T.: 0.000 min  
Response: 214746368  
Conc: 1014.66 ng/ml



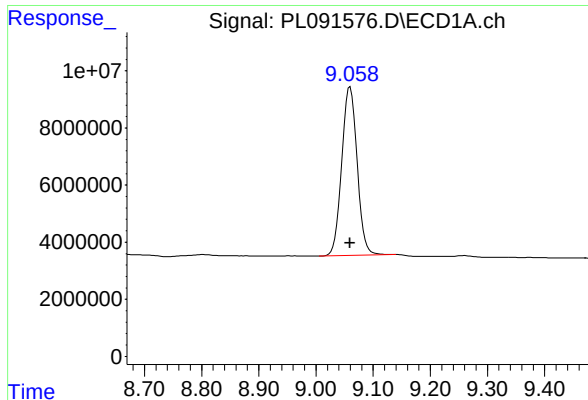
#27 Chlordane-5

R.T.: 6.877 min  
Delta R.T.: 0.000 min  
Response: 54634339  
Conc: 984.77 ng/ml



#27 Chlordane-5

R.T.: 5.949 min  
Delta R.T.: 0.000 min  
Response: 73932244  
Conc: 1021.26 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min

Delta R.T.: 0.000 min

Response: 110886375

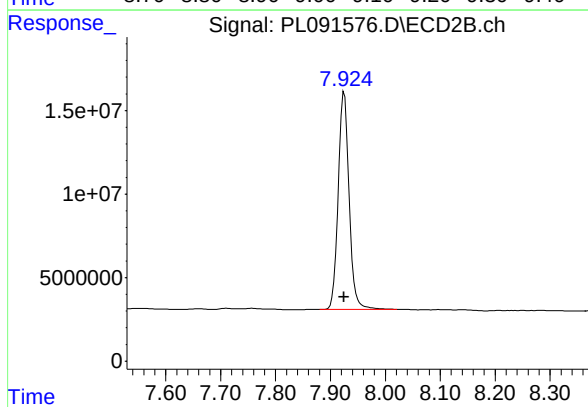
Conc: 97.68 ng/ml

Instrument :

ECD\_L

ClientSampleId :

PCHLORICC1000



#28 Decachlorobiphenyl

R.T.: 7.925 min

Delta R.T.: 0.000 min

Response: 179513714

Conc: 99.22 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
 Data File : PL091577.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 09 Sep 2024 16:52  
 Operator : AR\AJ  
 Sample : PCHLORICC750  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC750

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 09 17:23:48 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 17:19:08 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|----------|---------|---------|
| -----                       |       |       |          |          |         |         |
| System Monitoring Compounds |       |       |          |          |         |         |
| 1) SA Tetrachlo...          | 3.544 | 2.783 | 108.3E6  | 168.0E6  | 74.566  | 74.929  |
| 28) SA Decachlor...         | 9.061 | 7.925 | 82899124 | 133.6E6  | 73.670  | 74.214  |
| Target Compounds            |       |       |          |          |         |         |
| 23) Chlordane-1             | 4.706 | 3.782 | 45211603 | 49999002 | 746.016 | 744.885 |
| 24) Chlordane-2             | 5.236 | 4.359 | 51124678 | 53816651 | 732.005 | 744.369 |
| 25) Chlordane-3             | 5.946 | 4.990 | 179.6E6  | 171.0E6  | 740.428 | 752.942 |
| 26) Chlordane-4             | 6.027 | 5.052 | 215.7E6  | 152.8E6  | 741.579 | 731.167 |
| 27) Chlordane-5             | 6.876 | 5.949 | 41009743 | 53827664 | 742.757 | 745.683 |
| -----                       |       |       |          |          |         |         |

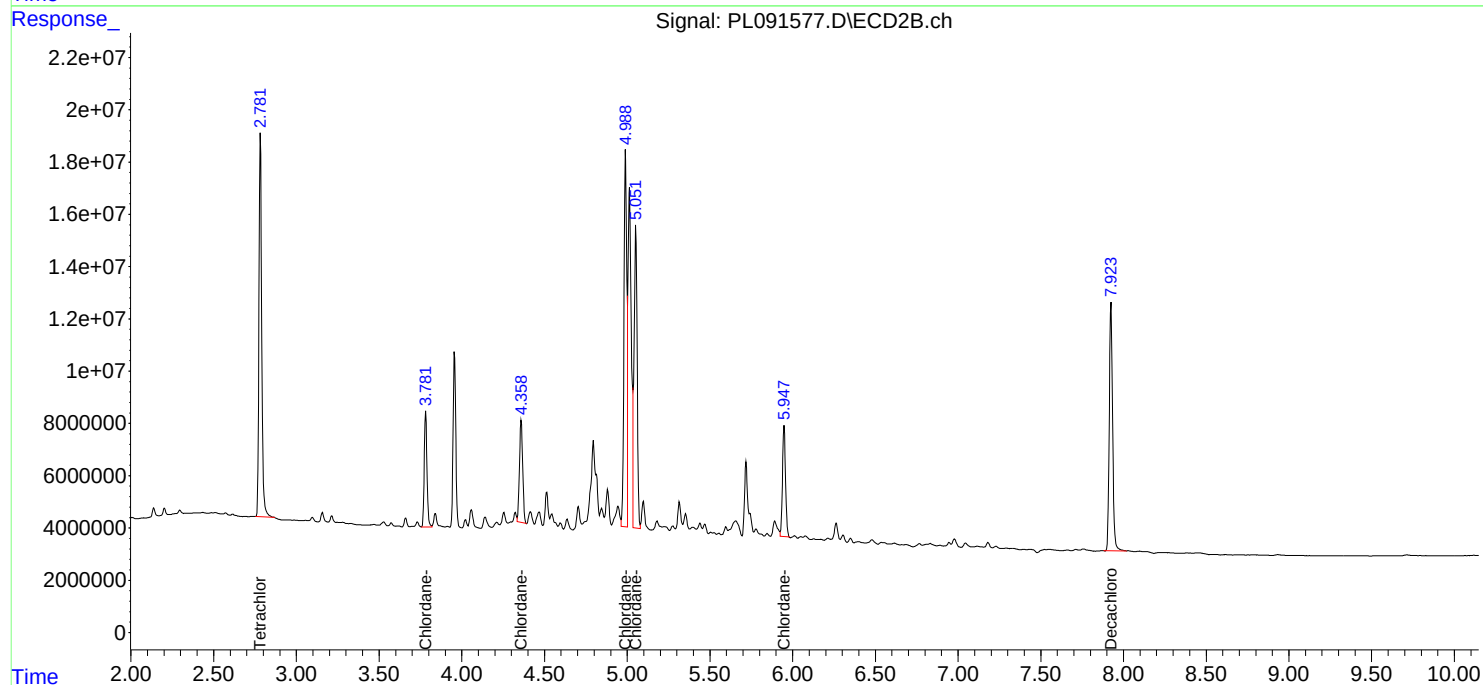
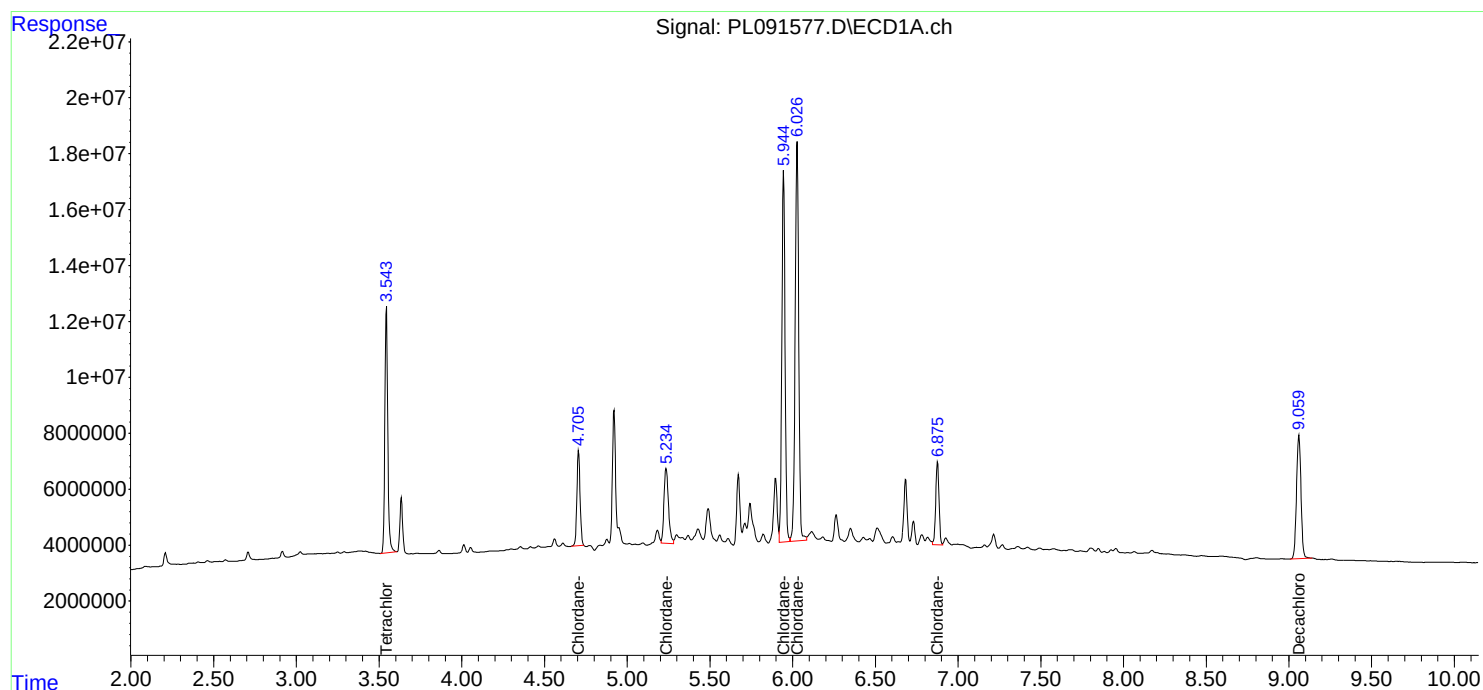
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
Data File : PL091577.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 09 Sep 2024 16:52  
Operator : AR\AJ  
Sample : PCHLORICC750  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

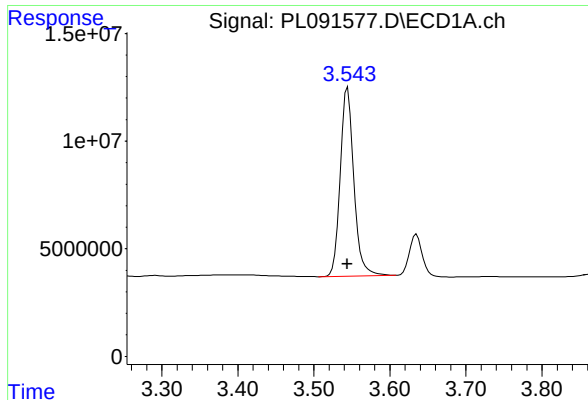
Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 09 17:23:48 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 17:19:08 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



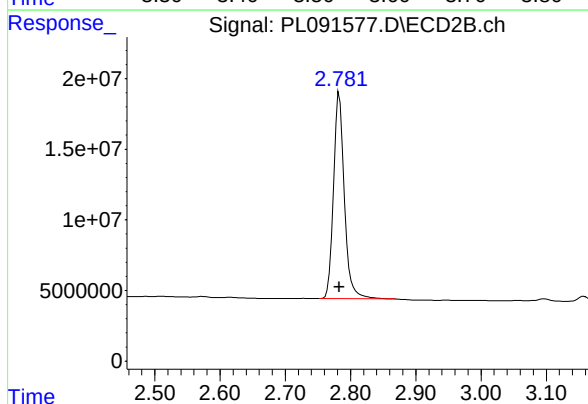




## #1 Tetrachloro-m-xylene

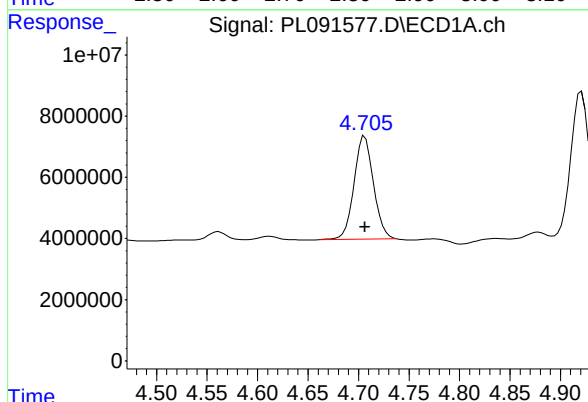
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 108297429  
Conc: 74.57 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750



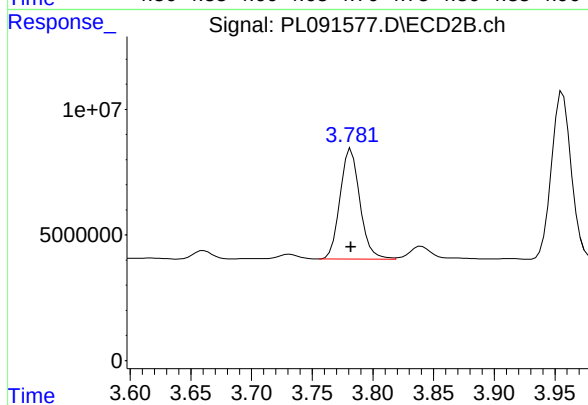
## #1 Tetrachloro-m-xylene

R.T.: 2.783 min  
Delta R.T.: 0.000 min  
Response: 167956592  
Conc: 74.93 ng/ml



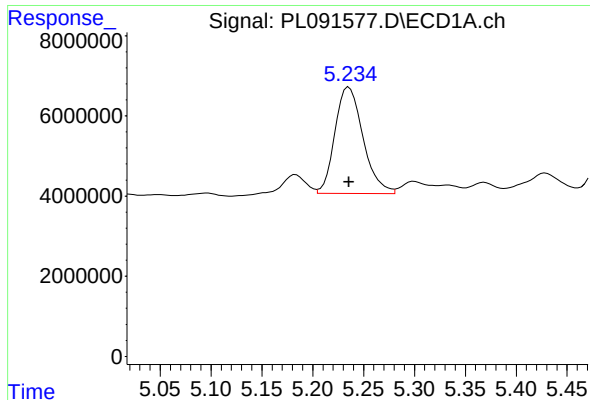
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 45211603  
Conc: 746.02 ng/ml



## #23 Chlordane-1

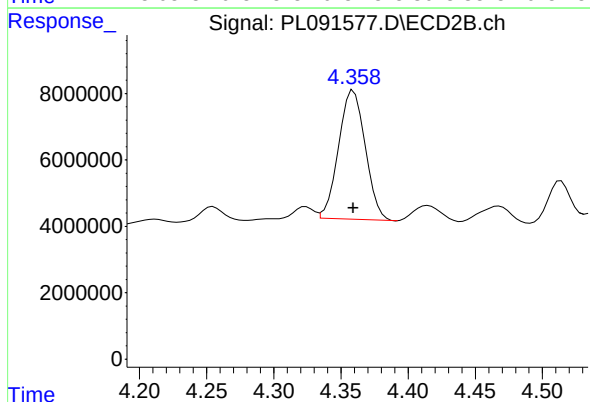
R.T.: 3.782 min  
Delta R.T.: 0.000 min  
Response: 49999002  
Conc: 744.89 ng/ml



#24 Chlordane-2

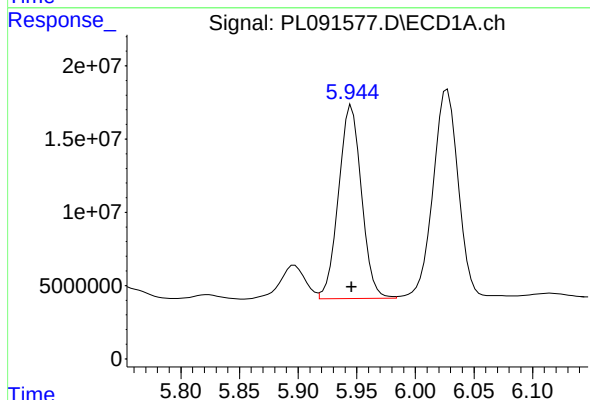
R.T.: 5.236 min  
Delta R.T.: 0.000 min  
Response: 51124678  
Conc: 732.01 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750



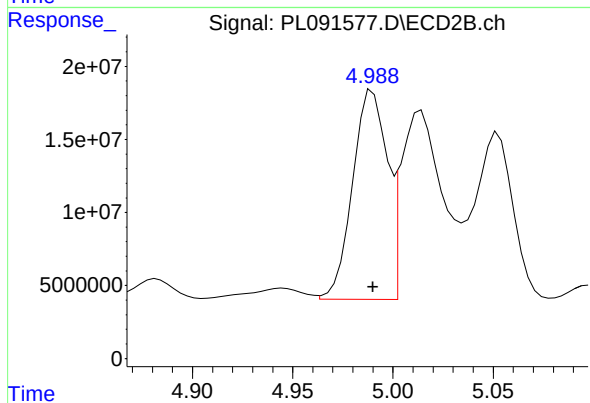
#24 Chlordane-2

R.T.: 4.359 min  
Delta R.T.: 0.000 min  
Response: 53816651  
Conc: 744.37 ng/ml



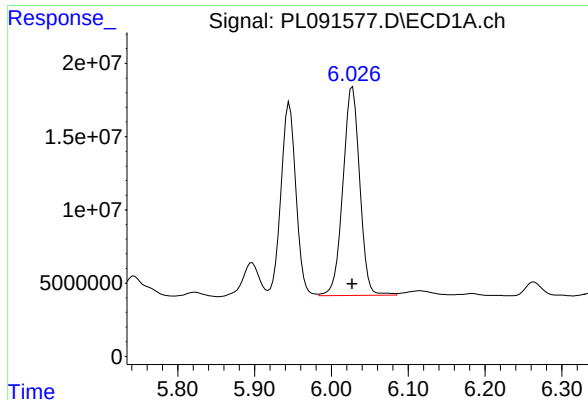
#25 Chlordane-3

R.T.: 5.946 min  
Delta R.T.: 0.000 min  
Response: 179575342  
Conc: 740.43 ng/ml



#25 Chlordane-3

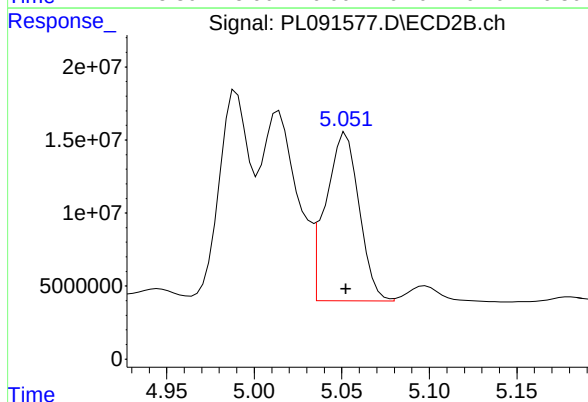
R.T.: 4.990 min  
Delta R.T.: 0.000 min  
Response: 171003436  
Conc: 752.94 ng/ml



#26 Chlordane-4

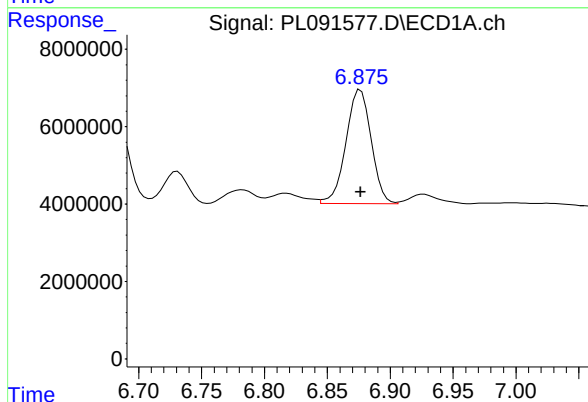
R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 215654872  
Conc: 741.58 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750



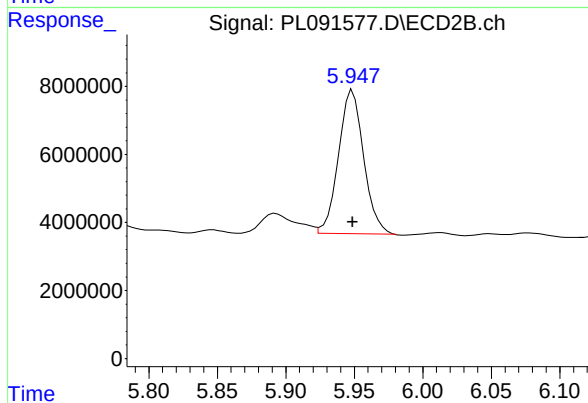
#26 Chlordane-4

R.T.: 5.052 min  
Delta R.T.: 0.000 min  
Response: 152827566  
Conc: 731.17 ng/ml



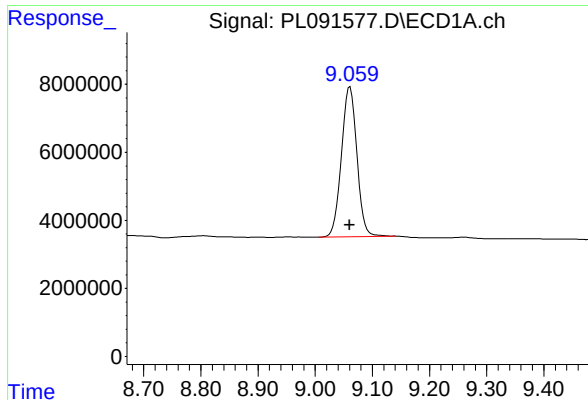
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 41009743  
Conc: 742.76 ng/ml



#27 Chlordane-5

R.T.: 5.949 min  
Delta R.T.: 0.000 min  
Response: 53827664  
Conc: 745.68 ng/ml

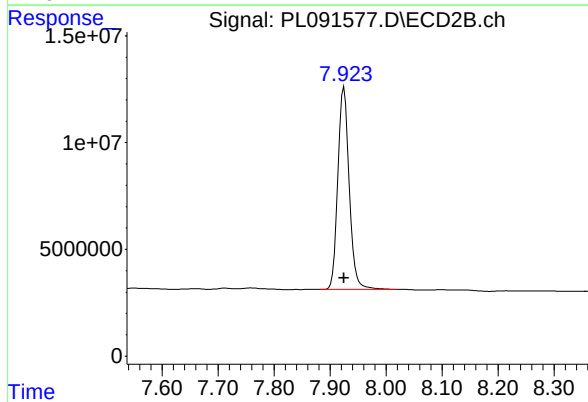


#28 Decachlorobiphenyl

ICAL Form

R.T.: 9.061 min  
Delta R.T.: 0.000 min  
Response: 82899124  
Conc: 73.67 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750



#28 Decachlorobiphenyl

R.T.: 7.925 min  
Delta R.T.: 0.000 min  
Response: 133577467  
Conc: 74.21 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
 Data File : PL091578.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 09 Sep 2024 17:06  
 Operator : AR\AJ  
 Sample : PCHLORICC500  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC500

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 09 17:20:08 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 17:19:08 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|----------|---------|---------|
| -----                       |       |       |          |          |         |         |
| System Monitoring Compounds |       |       |          |          |         |         |
| 1) SA Tetrachlo...          | 3.544 | 2.783 | 72968528 | 111.2E6  | 50.000  | 50.000  |
| 28) SA Decachlor...         | 9.060 | 7.925 | 58081135 | 91176732 | 50.000  | 50.000  |
| Target Compounds            |       |       |          |          |         |         |
| 23) Chlordane-1             | 4.706 | 3.782 | 30713014 | 33545288 | 500.000 | 500.000 |
| 24) Chlordane-2             | 5.236 | 4.360 | 36841024 | 36440792 | 500.000 | 500.000 |
| 25) Chlordane-3             | 5.945 | 4.990 | 122.5E6  | 111.5E6  | 500.000 | 500.000 |
| 26) Chlordane-4             | 6.027 | 5.053 | 146.6E6  | 104.3E6  | 500.000 | 500.000 |
| 27) Chlordane-5             | 6.876 | 5.948 | 28162351 | 35427383 | 500.000 | 500.000 |
| -----                       |       |       |          |          |         |         |

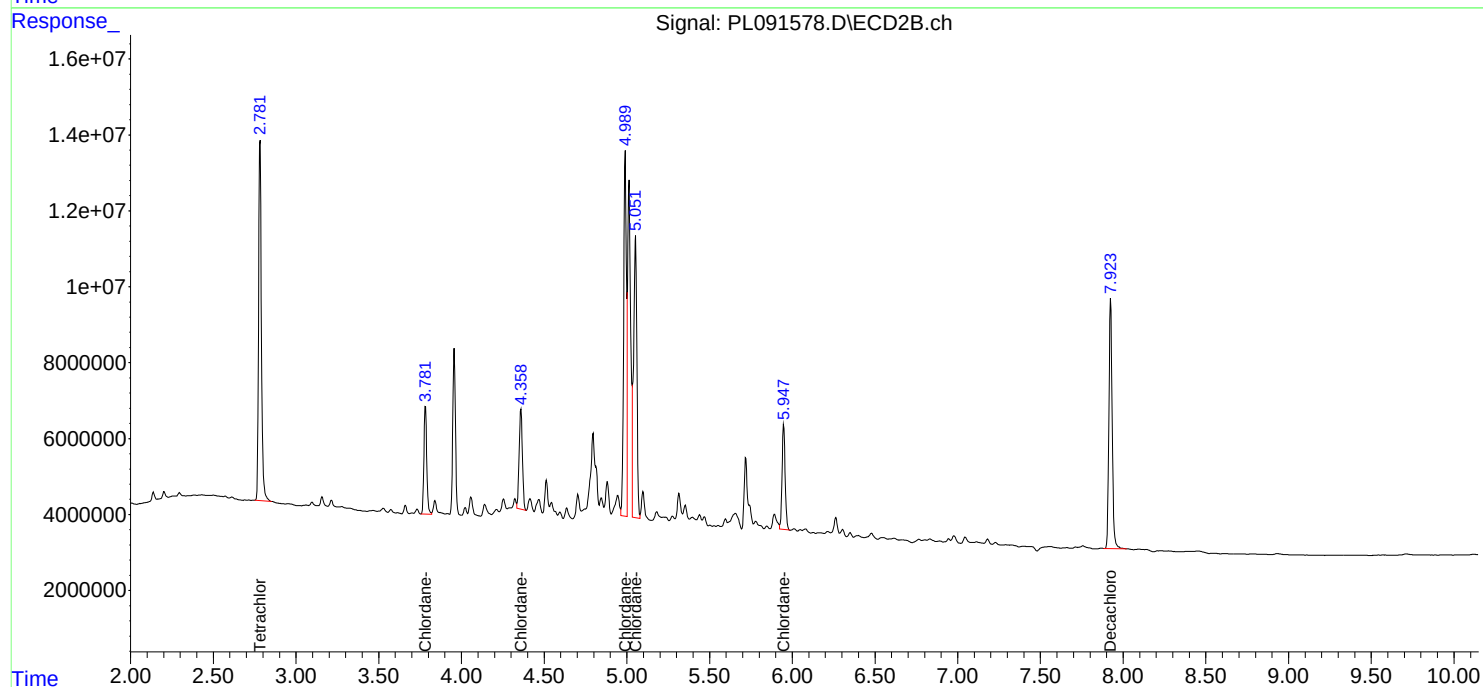
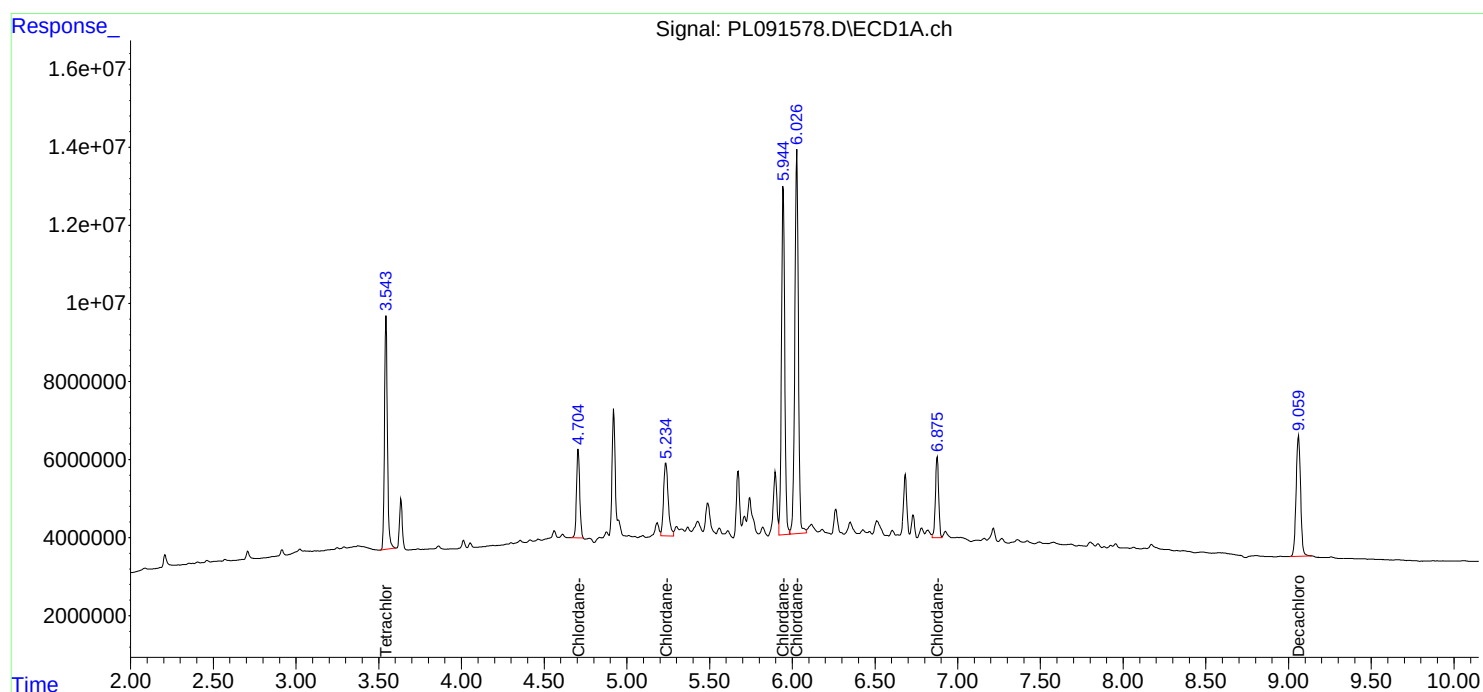
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

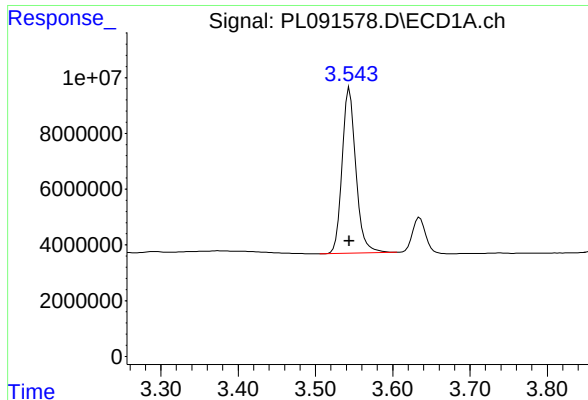
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
Data File : PL091578.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 09 Sep 2024 17:06  
Operator : AR\AJ  
Sample : PCHLORICC500  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 09 17:20:08 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 17:19:08 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

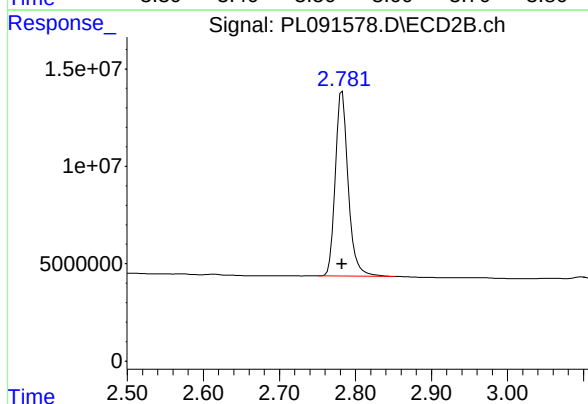




## #1 Tetrachloro-m-xylene

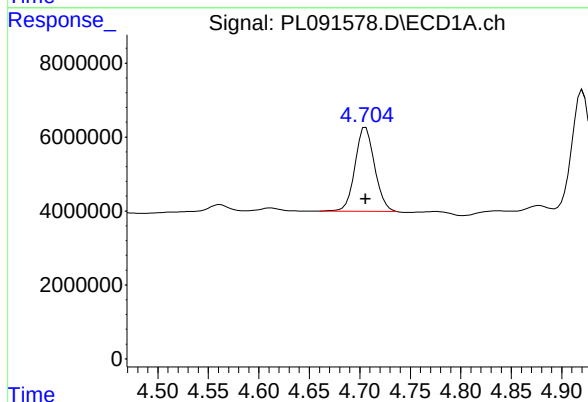
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 72968528  
Conc: 50.00 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500



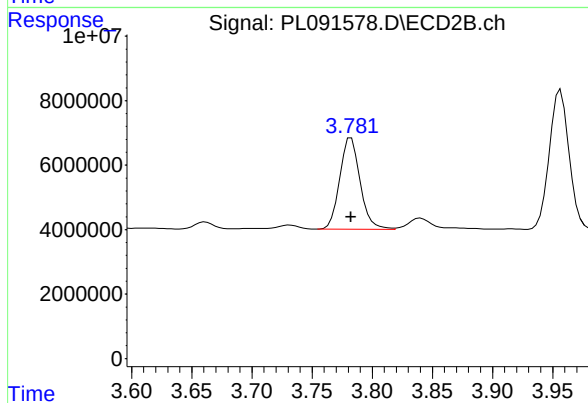
## #1 Tetrachloro-m-xylene

R.T.: 2.783 min  
Delta R.T.: 0.000 min  
Response: 111183553  
Conc: 50.00 ng/ml



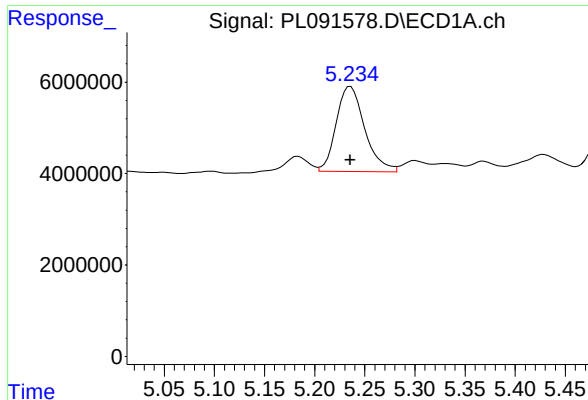
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 30713014  
Conc: 500.00 ng/ml



## #23 Chlordane-1

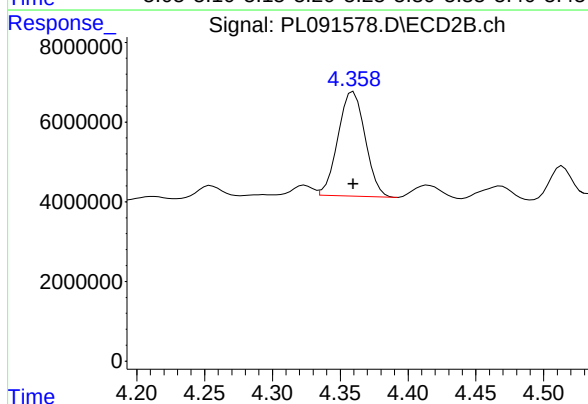
R.T.: 3.782 min  
Delta R.T.: 0.000 min  
Response: 33545288  
Conc: 500.00 ng/ml



#24 Chlordane-2

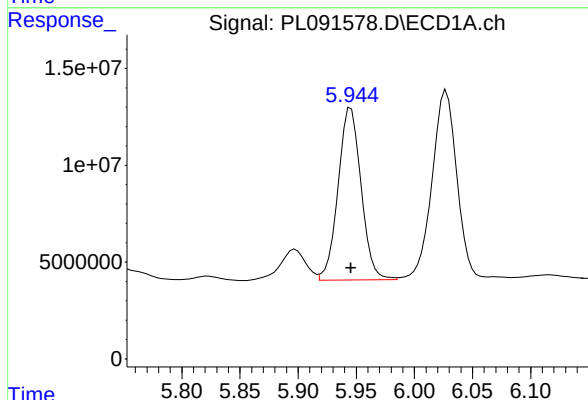
R.T.: 5.236 min  
Delta R.T.: 0.000 min  
Response: 36841024  
Conc: 500.00 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500



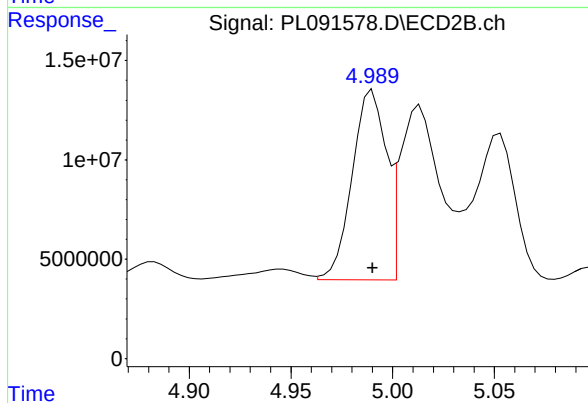
#24 Chlordane-2

R.T.: 4.360 min  
Delta R.T.: 0.000 min  
Response: 36440792  
Conc: 500.00 ng/ml



#25 Chlordane-3

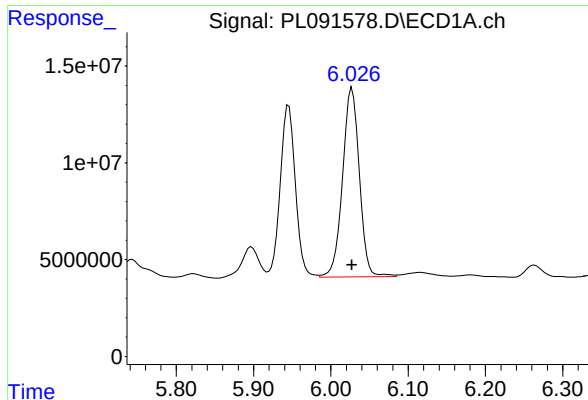
R.T.: 5.945 min  
Delta R.T.: 0.000 min  
Response: 122538160  
Conc: 500.00 ng/ml



#25 Chlordane-3

R.T.: 4.990 min  
Delta R.T.: 0.000 min  
Response: 111507436  
Conc: 500.00 ng/ml

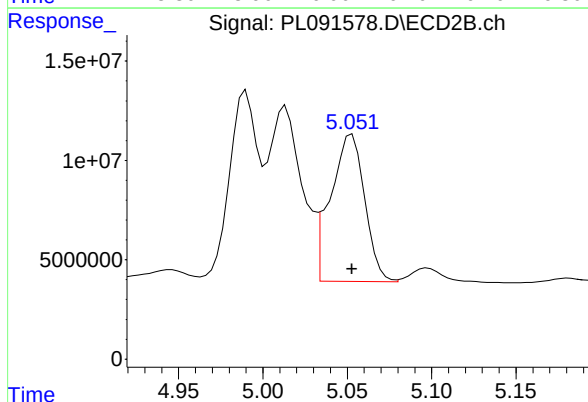




#26 Chlordane-4

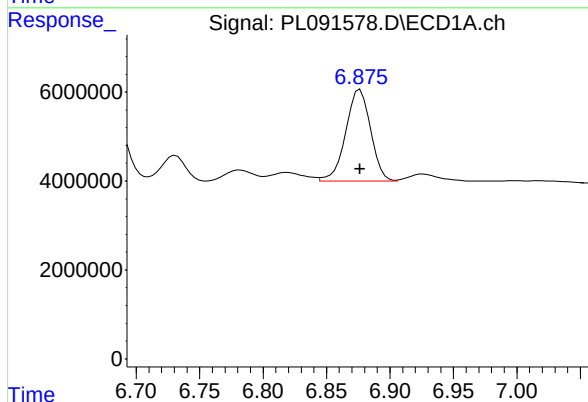
R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 146612440  
Conc: 500.00 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500



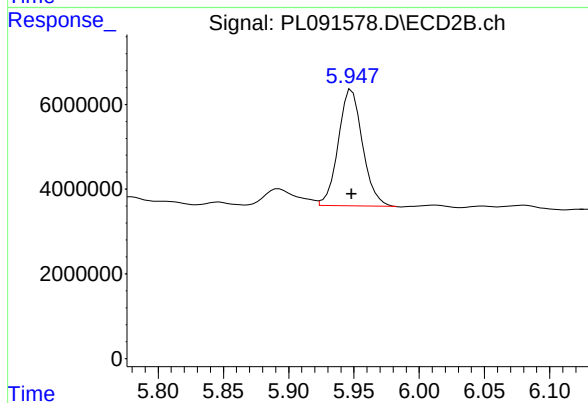
#26 Chlordane-4

R.T.: 5.053 min  
Delta R.T.: 0.000 min  
Response: 104269708  
Conc: 500.00 ng/ml



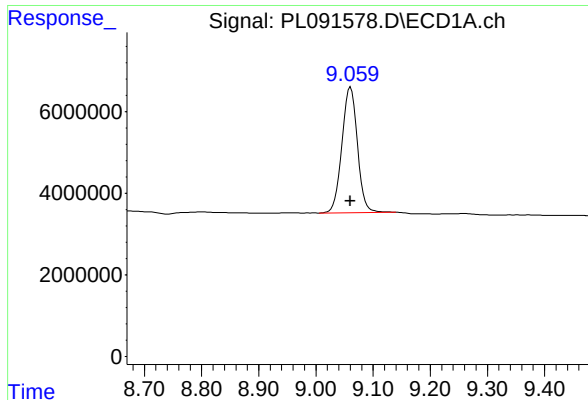
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 28162351  
Conc: 500.00 ng/ml



#27 Chlordane-5

R.T.: 5.948 min  
Delta R.T.: 0.000 min  
Response: 35427383  
Conc: 500.00 ng/ml

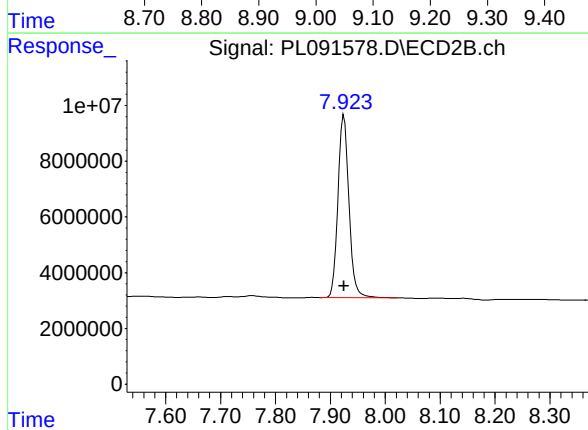


#28 Decachlorobiphenyl

ICAL Form

R.T.: 9.060 min  
Delta R.T.: 0.000 min  
Response: 58081135  
Conc: 50.00 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500



#28 Decachlorobiphenyl

R.T.: 7.925 min  
Delta R.T.: 0.000 min  
Response: 91176732  
Conc: 50.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
 Data File : PL091579.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 09 Sep 2024 17:19  
 Operator : AR\AJ  
 Sample : PCHLORICC250  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC250

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 09 17:30:38 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 17:30:29 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|----------|---------|---------|
| -----                       |       |       |          |          |         |         |
| System Monitoring Compounds |       |       |          |          |         |         |
| 1) SA Tetrachlo...          | 3.544 | 2.783 | 37884636 | 55681123 | 25.805  | 24.880  |
| 28) SA Decachlor...         | 9.060 | 7.925 | 30968093 | 47559437 | 26.844  | 26.053  |
|                             |       |       |          |          |         |         |
| Target Compounds            |       |       |          |          |         |         |
| 23) Chlordane-1             | 4.706 | 3.782 | 15831199 | 17244176 | 258.324 | 255.142 |
| 24) Chlordane-2             | 5.235 | 4.360 | 20061476 | 18932159 | 276.928 | 258.792 |
| 25) Chlordane-3             | 5.945 | 4.989 | 63269486 | 55873216 | 258.068 | 246.999 |
| 26) Chlordane-4             | 6.027 | 5.052 | 72879313 | 52039881 | 250.459 | 249.229 |
| 27) Chlordane-5             | 6.876 | 5.948 | 14268271 | 17423327 | 256.264 | 243.470 |
| -----                       |       |       |          |          |         |         |

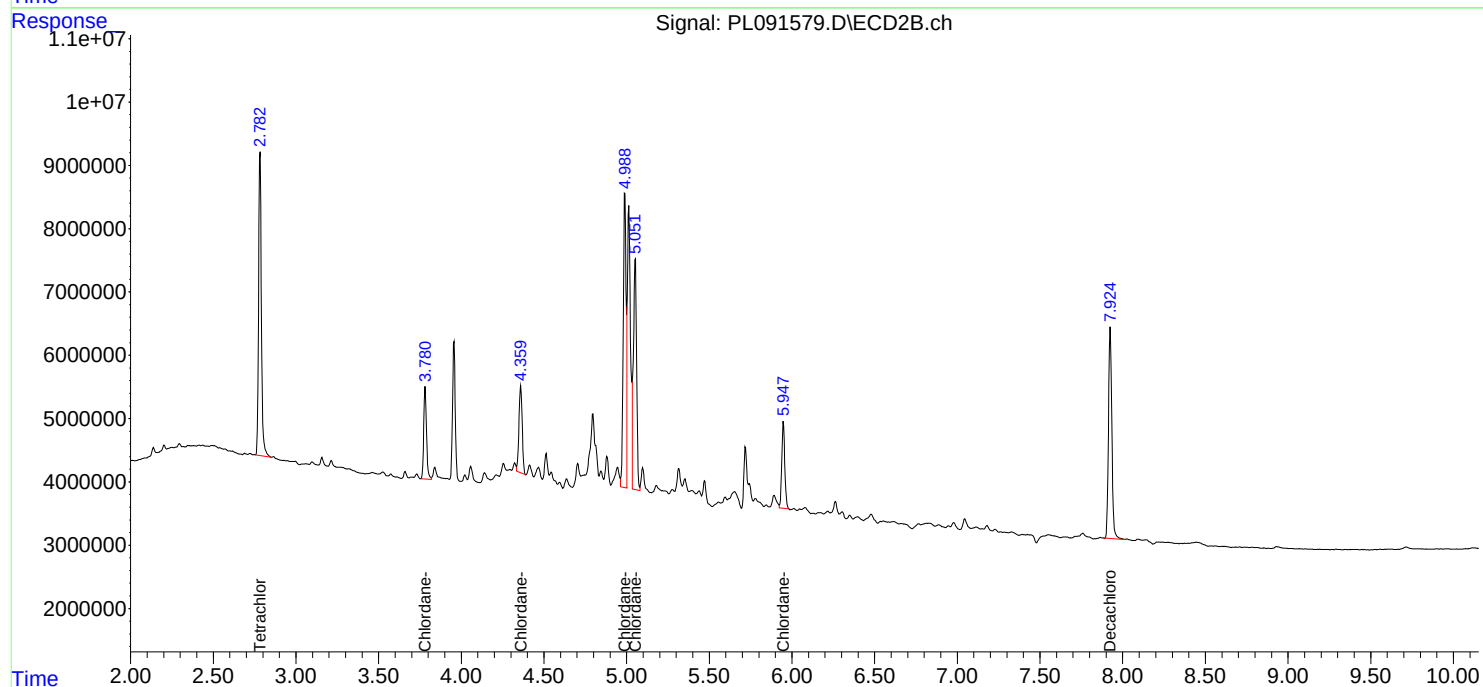
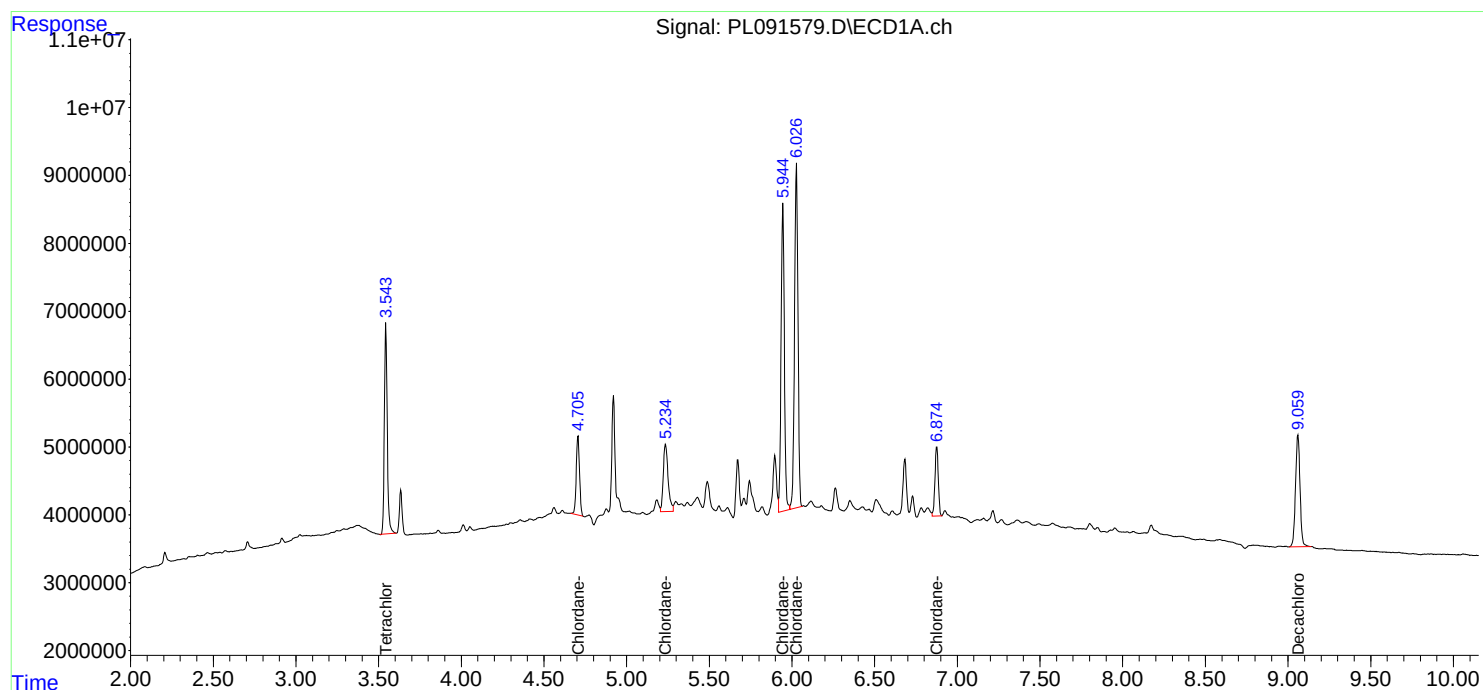
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

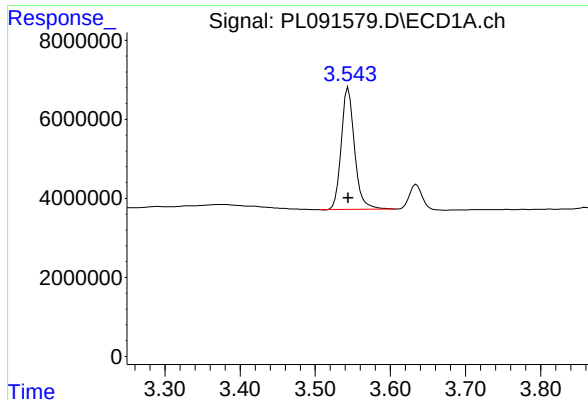
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
Data File : PL091579.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 09 Sep 2024 17:19  
Operator : AR\AJ  
Sample : PCHLORICC250  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 09 17:30:38 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 17:30:29 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

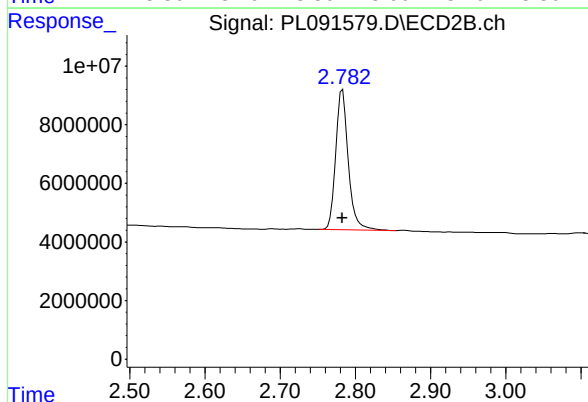




## #1 Tetrachloro-m-xylene

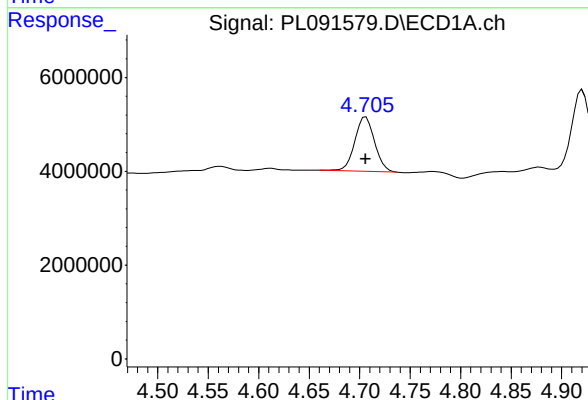
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 37884636  
Conc: 25.80 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250



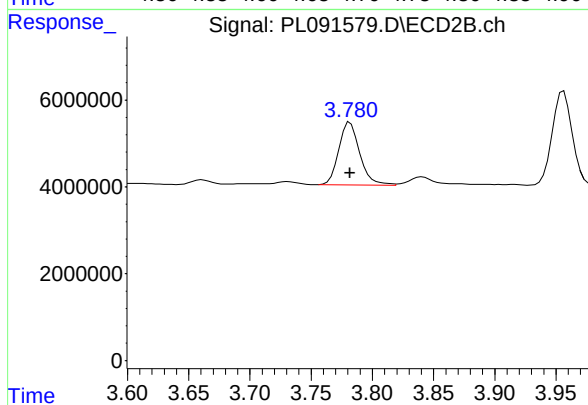
## #1 Tetrachloro-m-xylene

R.T.: 2.783 min  
Delta R.T.: 0.000 min  
Response: 55681123  
Conc: 24.88 ng/ml



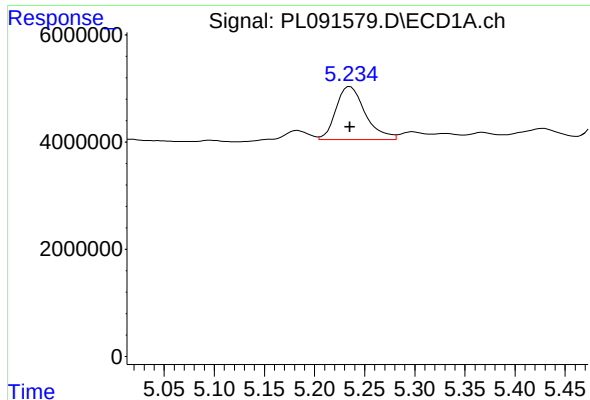
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 15831199  
Conc: 258.32 ng/ml



## #23 Chlordane-1

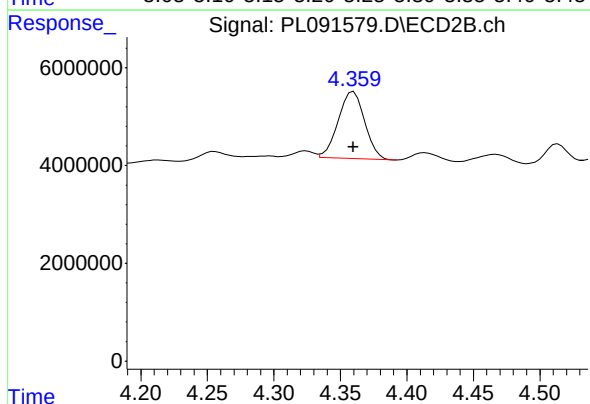
R.T.: 3.782 min  
Delta R.T.: 0.000 min  
Response: 17244176  
Conc: 255.14 ng/ml



#24 Chlordane-2

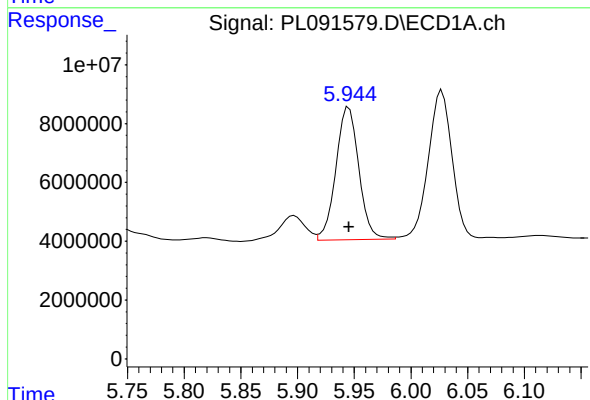
R.T.: 5.235 min  
Delta R.T.: 0.000 min  
Response: 20061476  
Conc: 276.93 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250



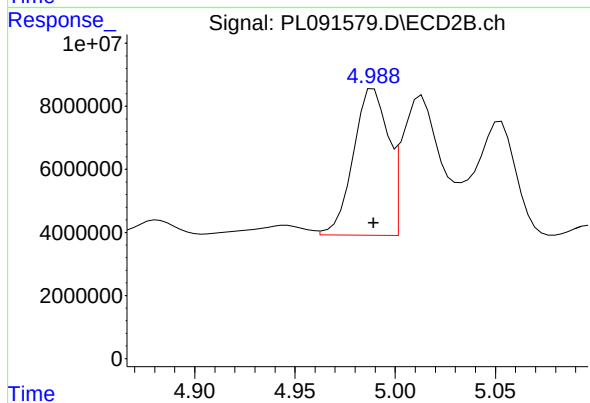
#24 Chlordane-2

R.T.: 4.360 min  
Delta R.T.: 0.000 min  
Response: 18932159  
Conc: 258.79 ng/ml



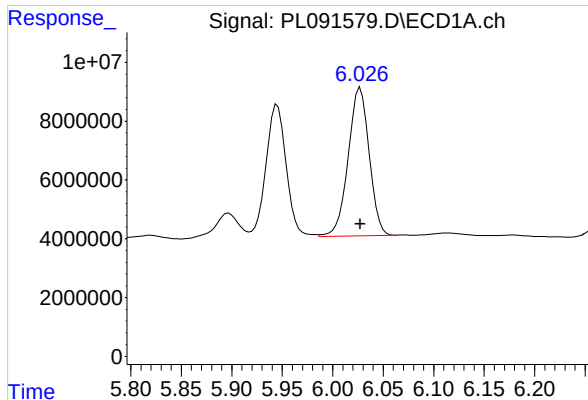
#25 Chlordane-3

R.T.: 5.945 min  
Delta R.T.: 0.000 min  
Response: 63269486  
Conc: 258.07 ng/ml



#25 Chlordane-3

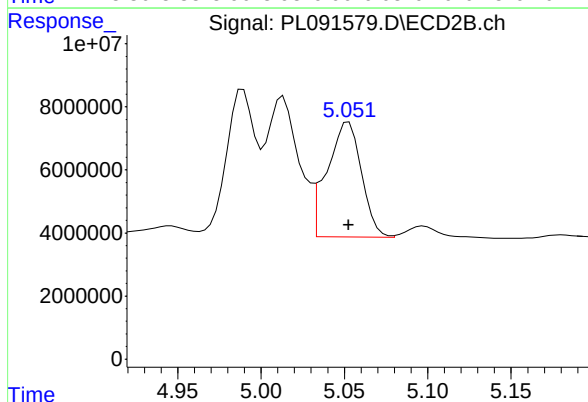
R.T.: 4.989 min  
Delta R.T.: 0.000 min  
Response: 55873216  
Conc: 247.00 ng/ml



#26 Chlordane-4

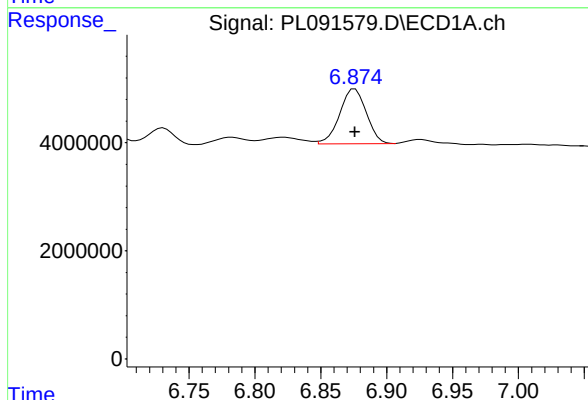
R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 72879313  
Conc: 250.46 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250



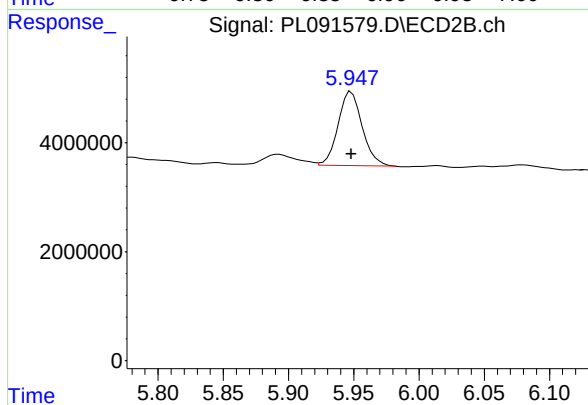
#26 Chlordane-4

R.T.: 5.052 min  
Delta R.T.: 0.000 min  
Response: 52039881  
Conc: 249.23 ng/ml



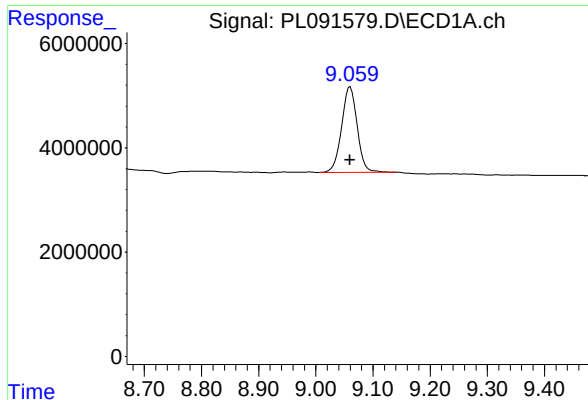
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 14268271  
Conc: 256.26 ng/ml



#27 Chlordane-5

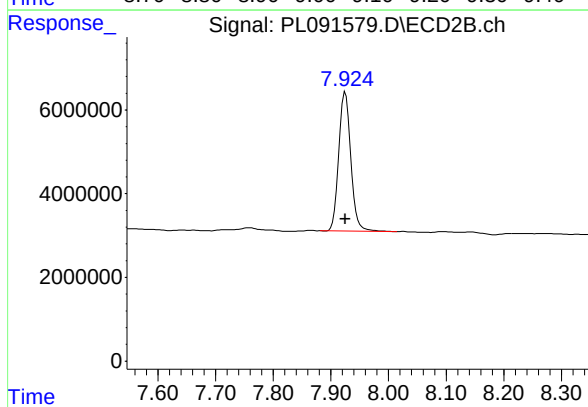
R.T.: 5.948 min  
Delta R.T.: 0.000 min  
Response: 17423327  
Conc: 243.47 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min  
Delta R.T.: 0.000 min  
Response: 30968093  
Conc: 26.84 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250



#28 Decachlorobiphenyl

R.T.: 7.925 min  
Delta R.T.: 0.000 min  
Response: 47559437  
Conc: 26.05 ng/ml



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
 Data File : PL091580.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 09 Sep 2024 17:33  
 Operator : AR\AJ  
 Sample : PCHLORICC050  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

**Instrument :**

ECD\_L

**ClientSampleId :**

PCHLORICC050

**Manual Integrations****APPROVED**

Reviewed By :Abdul Mirza 09/11/2024

Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 09 17:47:36 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 17:47:26 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|----------|---------|---------|
| -----                       |       |       |          |          |         |         |
| System Monitoring Compounds |       |       |          |          |         |         |
| 1) SA Tetrachlo...          | 3.543 | 2.782 | 8617098  | 10688786 | 5.672   | 4.819   |
| 28) SA Decachlor...         | 9.054 | 7.919 | 7060024  | 10427960 | 5.851m  | 5.554m  |
| Target Compounds            |       |       |          |          |         |         |
| 23) Chlordane-1             | 4.702 | 3.779 | 3312197  | 3873901  | 53.229m | 55.688m |
| 24) Chlordane-2             | 5.234 | 4.356 | 4731959  | 4106713  | 63.624m | 54.540m |
| 25) Chlordane-3             | 5.942 | 4.987 | 15191525 | 13043592 | 59.417m | 55.947  |
| 26) Chlordane-4             | 6.023 | 5.050 | 15842465 | 10372464 | 53.389m | 49.740  |
| 27) Chlordane-5             | 6.872 | 5.945 | 3133723  | 3602621  | 55.290m | 50.273  |
| -----                       |       |       |          |          |         |         |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
Data File : PL091580.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 09 Sep 2024 17:33  
Operator : AR\AJ  
Sample : PCHLORICC050  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

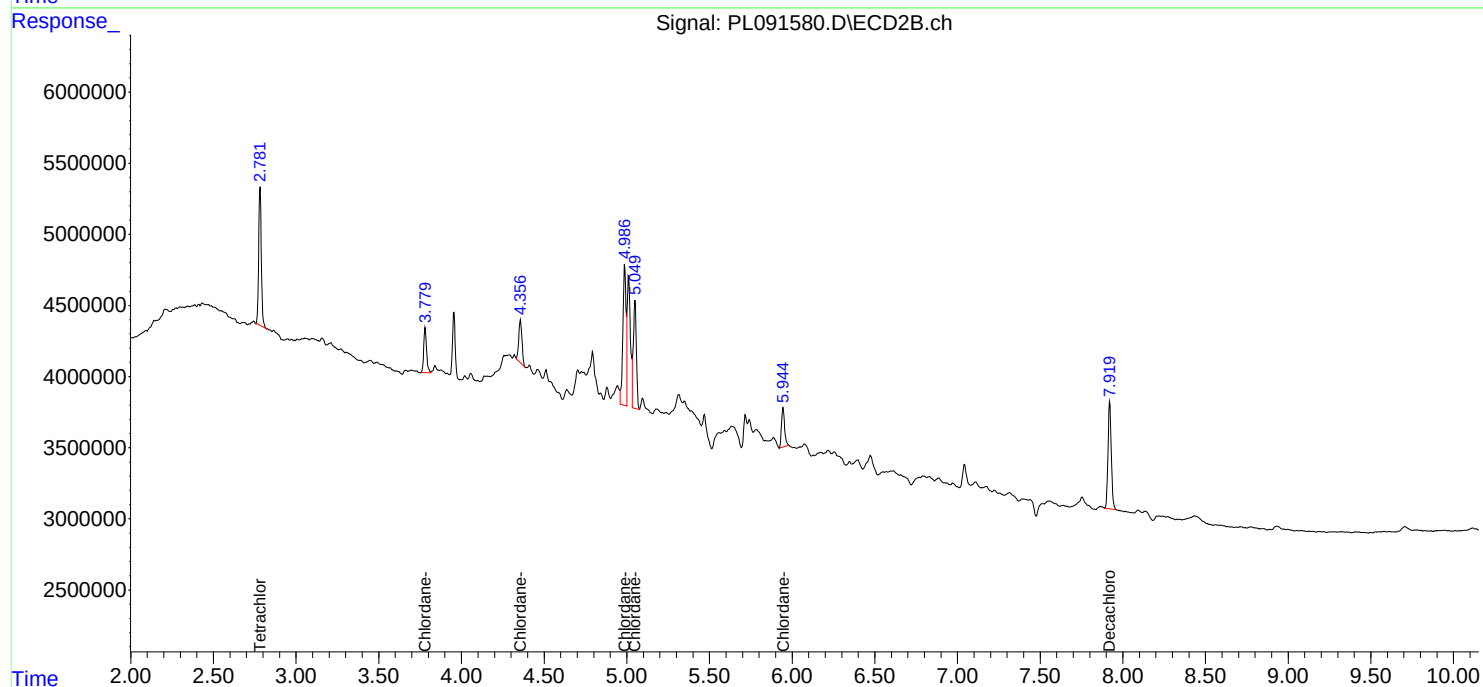
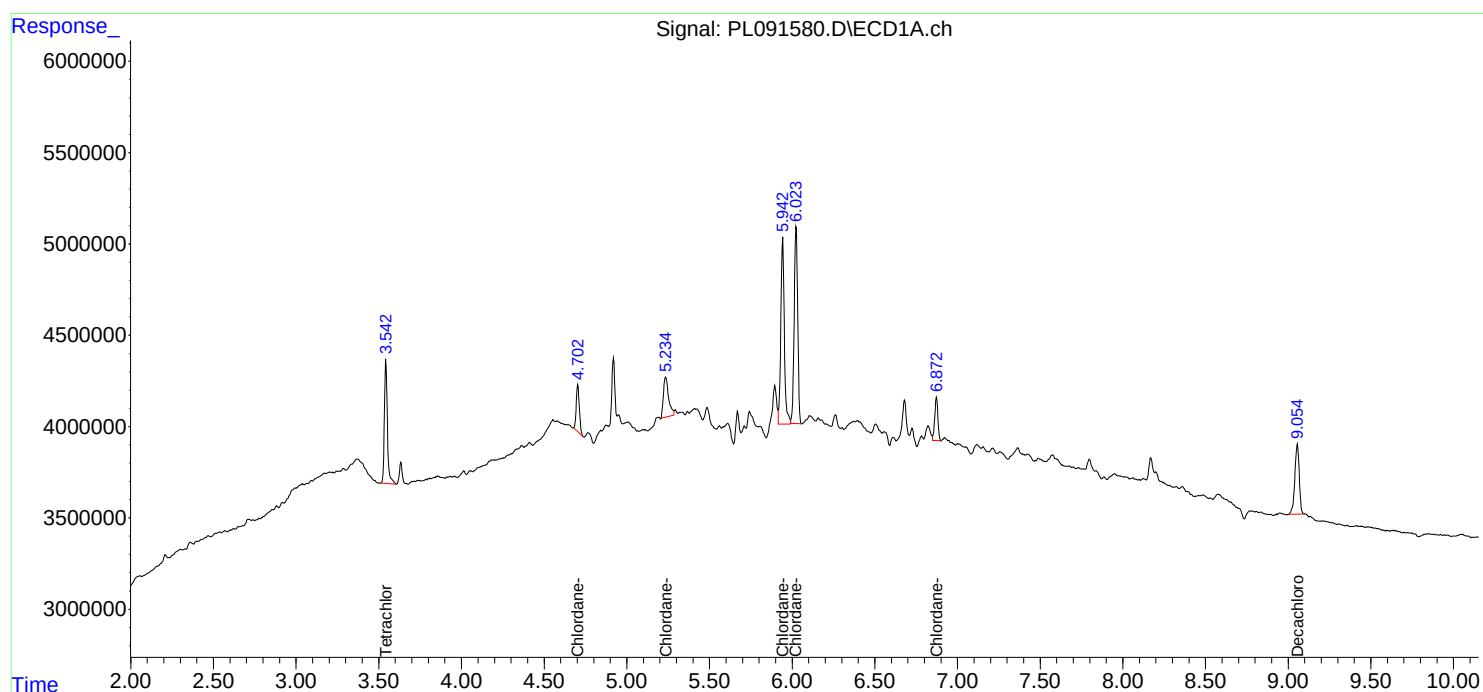
Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050

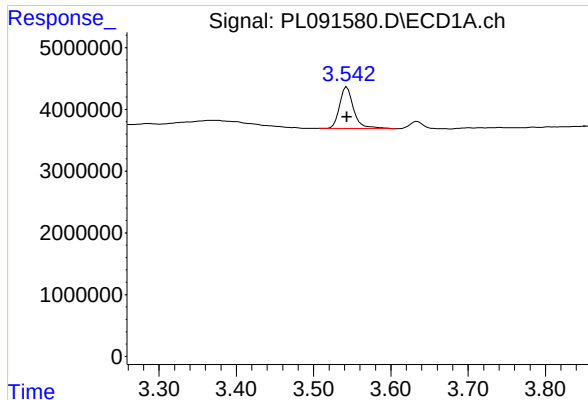
Manual Integrations  
APPROVED

Reviewed By : Abdul Mirza 09/11/2024  
Supervised By : Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 09 17:47:36 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 17:47:26 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





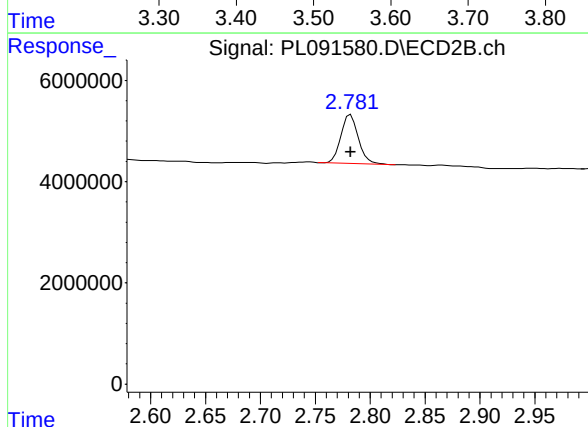
## #1 Tetrachloro-m-xylene

R.T.: 3.543 min  
Delta R.T.: 0.000 min  
Response: 8617098  
Conc: 5.67 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050

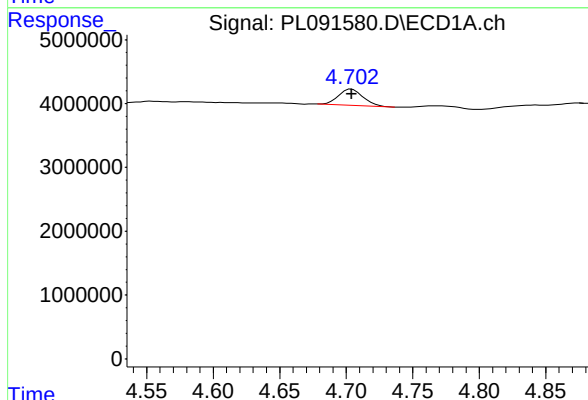
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



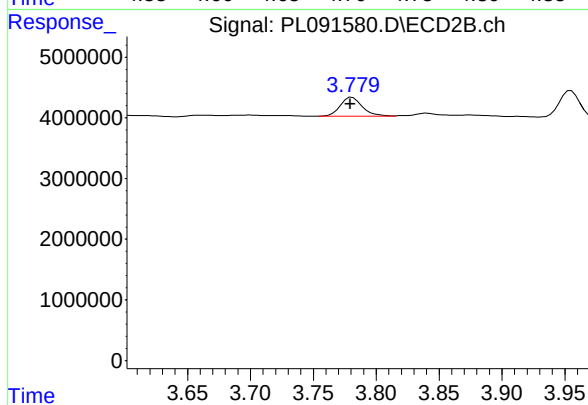
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 10688786  
Conc: 4.82 ng/ml



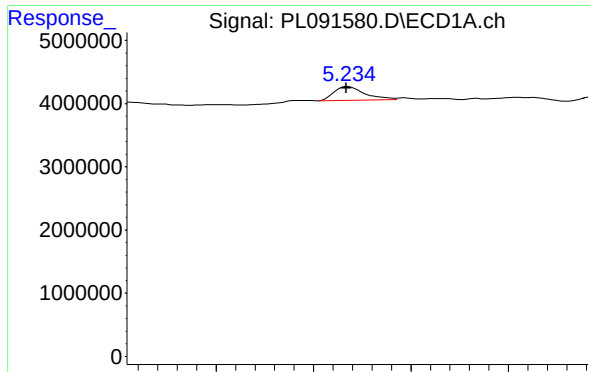
## #23 Chlordane-1

R.T.: 4.702 min  
Delta R.T.: -0.002 min  
Response: 3312197  
Conc: 53.23 ng/ml m



## #23 Chlordane-1

R.T.: 3.779 min  
Delta R.T.: 0.000 min  
Response: 3873901  
Conc: 55.69 ng/ml m



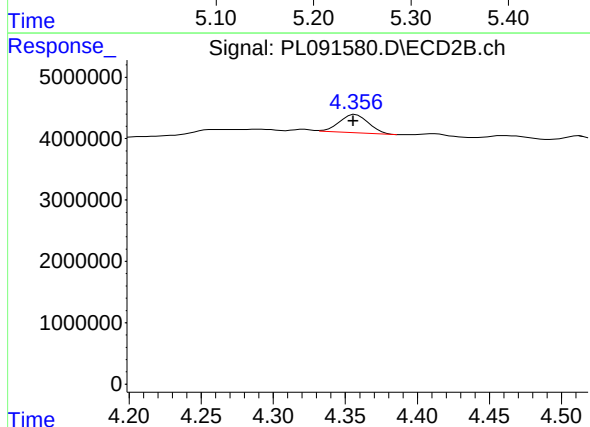
#24 Chlordane-2

R.T.: 5.234 min  
Delta R.T.: 0.000 min  
Response: 4731959  
Conc: 63.62 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050

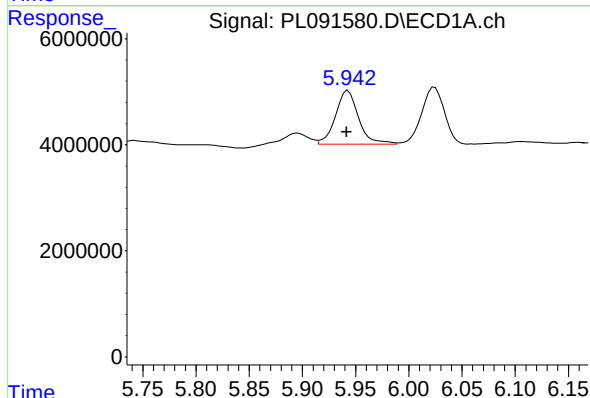
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



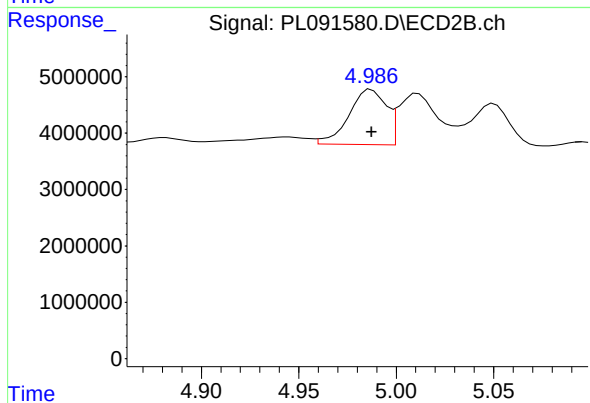
#24 Chlordane-2

R.T.: 4.356 min  
Delta R.T.: 0.000 min  
Response: 4106713  
Conc: 54.54 ng/ml m



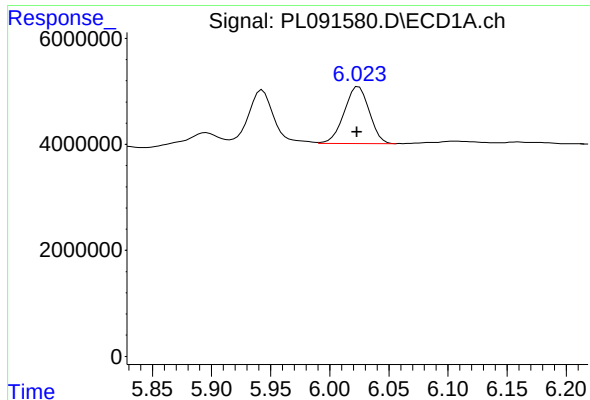
#25 Chlordane-3

R.T.: 5.942 min  
Delta R.T.: 0.000 min  
Response: 15191525  
Conc: 59.42 ng/ml m



#25 Chlordane-3

R.T.: 4.987 min  
Delta R.T.: 0.000 min  
Response: 13043592  
Conc: 55.95 ng/ml



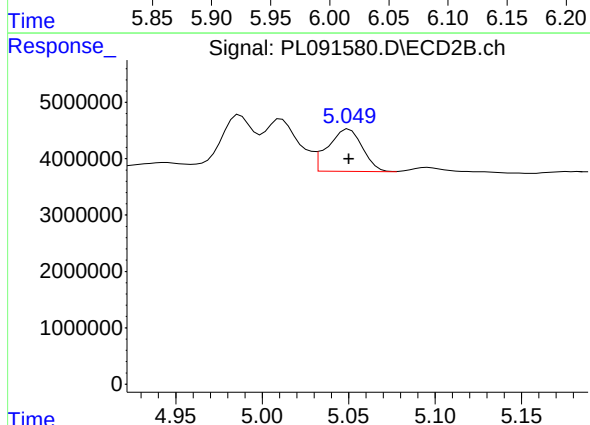
#26 Chlordane-4

R.T.: 6.023 min  
Delta R.T.: 0.000 min  
Response: 15842465  
Conc: 53.39 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050

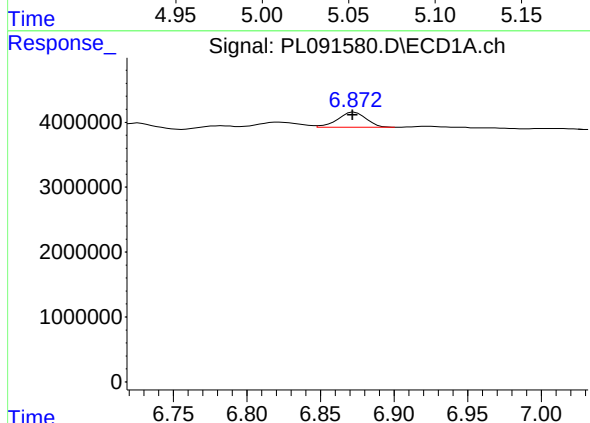
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



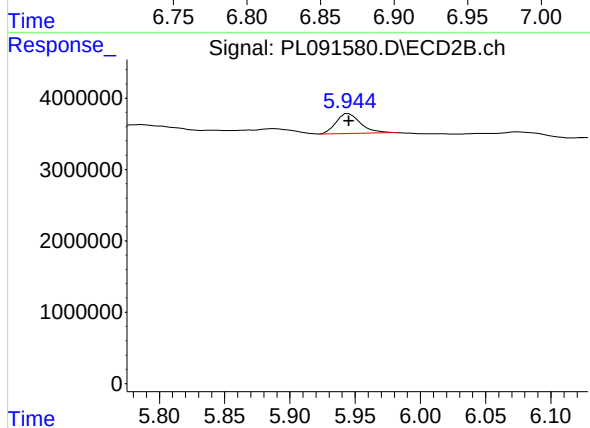
#26 Chlordane-4

R.T.: 5.050 min  
Delta R.T.: 0.000 min  
Response: 10372464  
Conc: 49.74 ng/ml



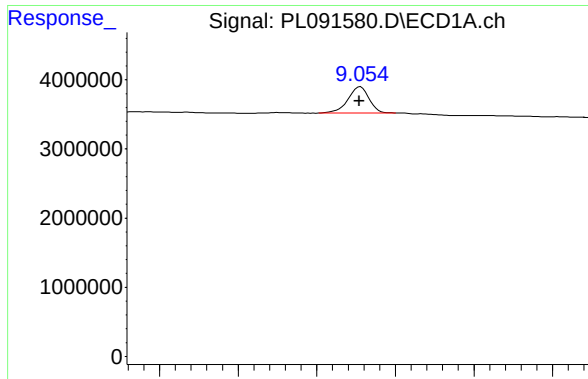
#27 Chlordane-5

R.T.: 6.872 min  
Delta R.T.: 0.000 min  
Response: 3133723  
Conc: 55.29 ng/ml m



#27 Chlordane-5

R.T.: 5.945 min  
Delta R.T.: 0.000 min  
Response: 3602621  
Conc: 50.27 ng/ml



#28 Decachlorobiphenyl

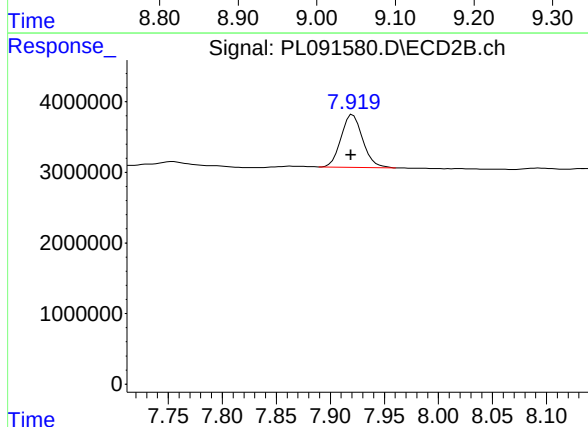
ICAL Form

R.T.: 9.054 min  
Delta R.T.: 0.000 min  
Response: 7060024  
Conc: 5.85 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050

Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



#28 Decachlorobiphenyl

R.T.: 7.919 min  
Delta R.T.: 0.000 min  
Response: 10427960  
Conc: 5.55 ng/ml m

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
 Data File : PL091587.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 09 Sep 2024 19:10  
 Operator : AR\AJ  
 Sample : PCHLORICV500  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 ICVPL090924

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 09 19:24:12 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 19:23:02 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|----------|---------|---------|
| -----                       |       |       |          |          |         |         |
| System Monitoring Compounds |       |       |          |          |         |         |
| 1) SA Tetrachlo...          | 3.542 | 2.781 | 82136840 | 123.4E6  | 54.067  | 55.643  |
| 28) SA Decachlor...         | 9.053 | 7.921 | 63278192 | 98168492 | 52.500  | 52.286  |
| Target Compounds            |       |       |          |          |         |         |
| 23) Chlordane-1             | 4.703 | 3.780 | 33873423 | 36368107 | 543.923 | 522.795 |
| 24) Chlordane-2             | 5.233 | 4.356 | 39026737 | 38911481 | 507.617 | 519.155 |
| 25) Chlordane-3             | 5.942 | 4.987 | 113.7E6  | 118.2E6  | 442.444 | 506.829 |
| 26) Chlordane-4             | 6.024 | 5.050 | 154.1E6  | 112.6E6  | 520.321 | 540.049 |
| 27) Chlordane-5             | 6.873 | 5.945 | 30416372 | 37732567 | 532.898 | 526.546 |
| -----                       |       |       |          |          |         |         |

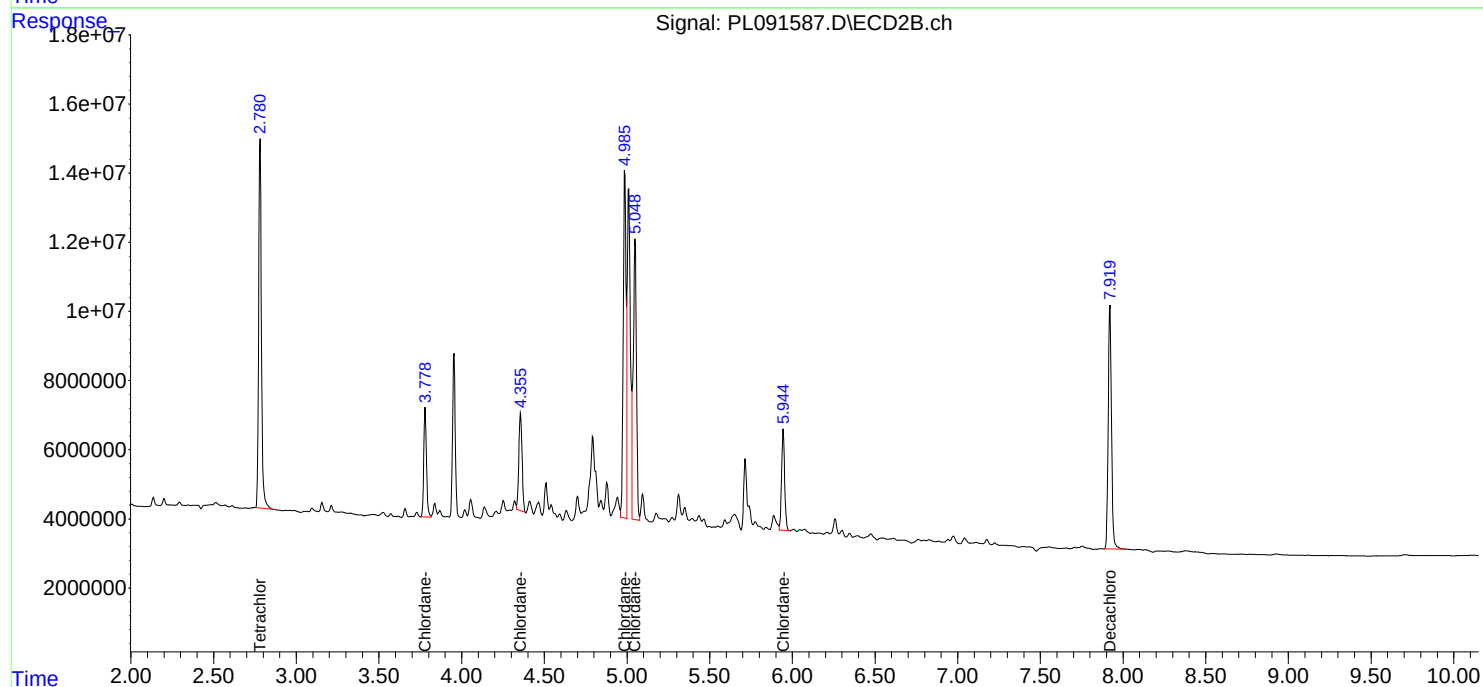
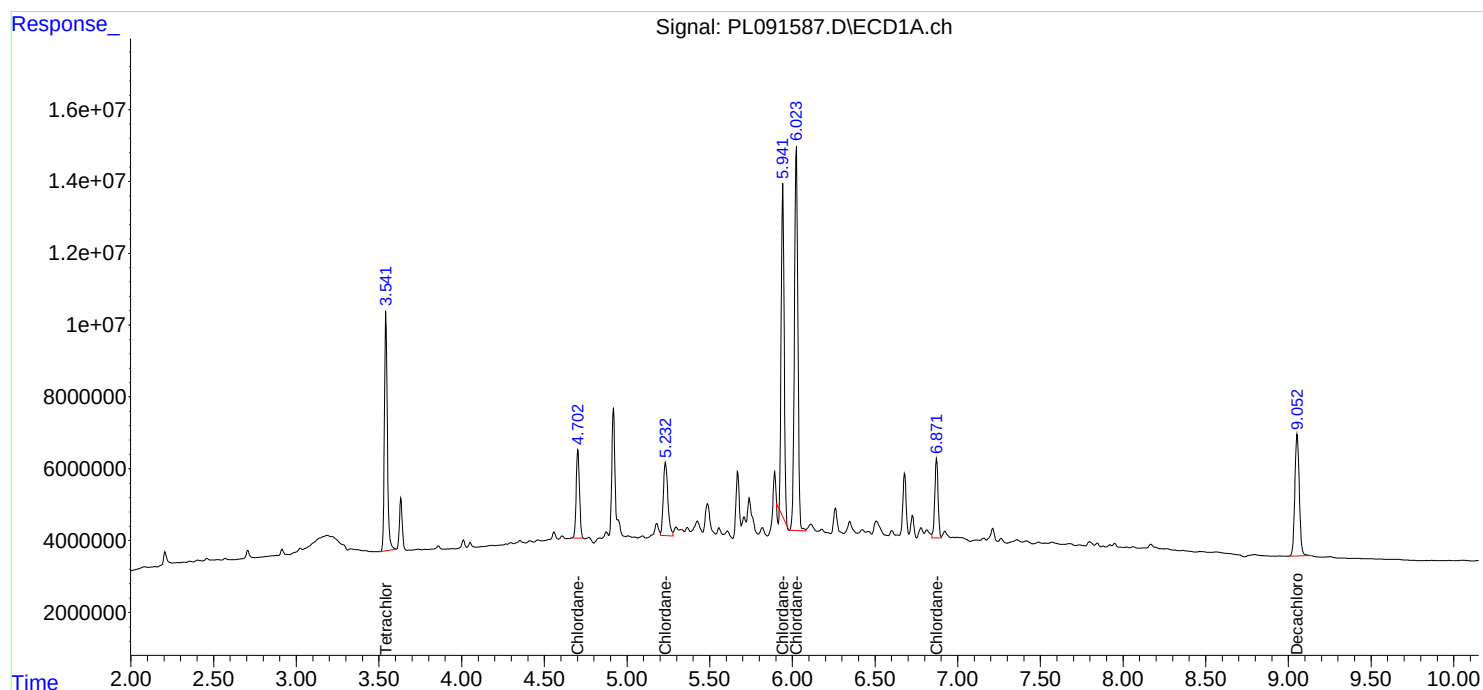
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
Data File : PL091587.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 09 Sep 2024 19:10  
Operator : AR\AJ  
Sample : PCHLORICV500  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

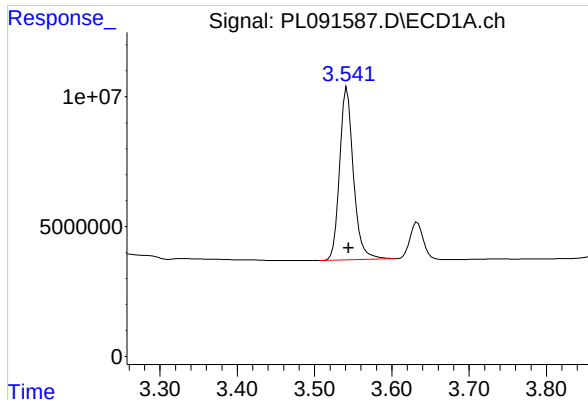
Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL090924

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 09 19:24:12 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:23:02 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



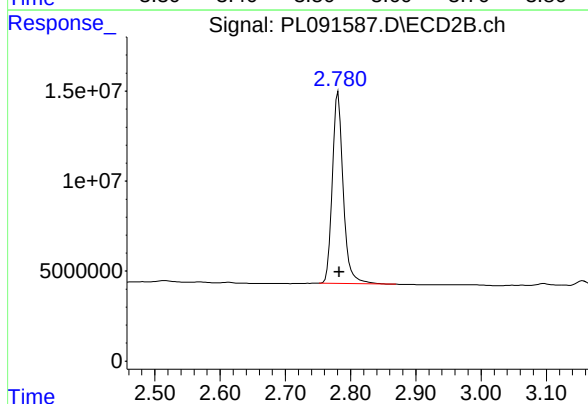




## #1 Tetrachloro-m-xylene

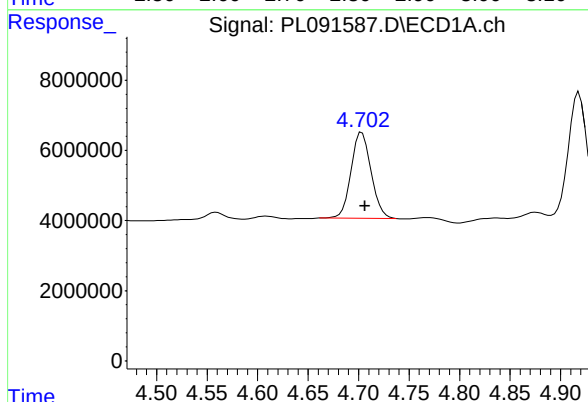
R.T.: 3.542 min  
Delta R.T.: -0.002 min  
Response: 82136840  
Conc: 54.07 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL090924



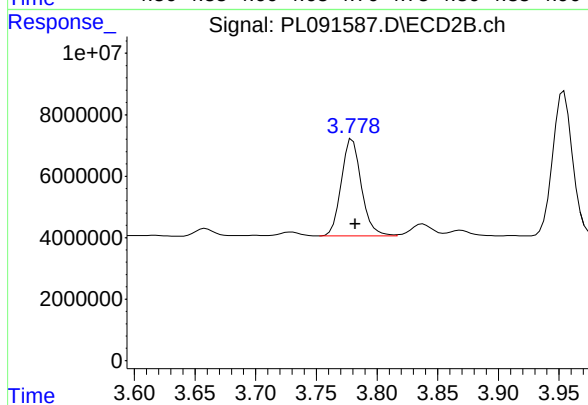
## #1 Tetrachloro-m-xylene

R.T.: 2.781 min  
Delta R.T.: -0.002 min  
Response: 123412200  
Conc: 55.64 ng/ml



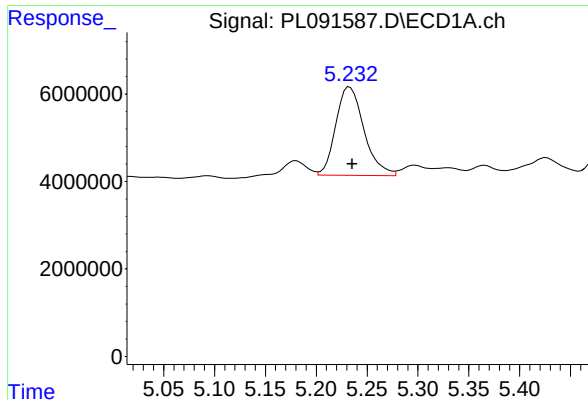
## #23 Chlordane-1

R.T.: 4.703 min  
Delta R.T.: -0.003 min  
Response: 33873423  
Conc: 543.92 ng/ml



## #23 Chlordane-1

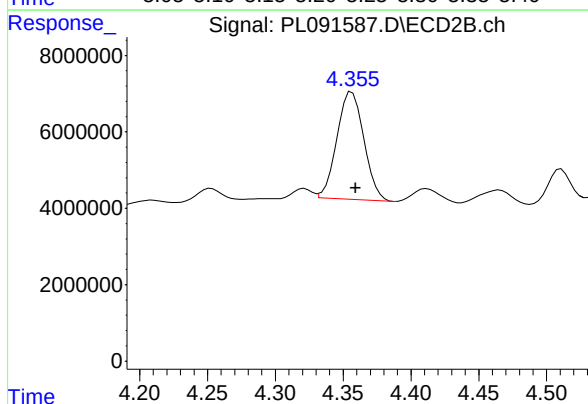
R.T.: 3.780 min  
Delta R.T.: -0.002 min  
Response: 36368107  
Conc: 522.79 ng/ml



#24 Chlordane-2

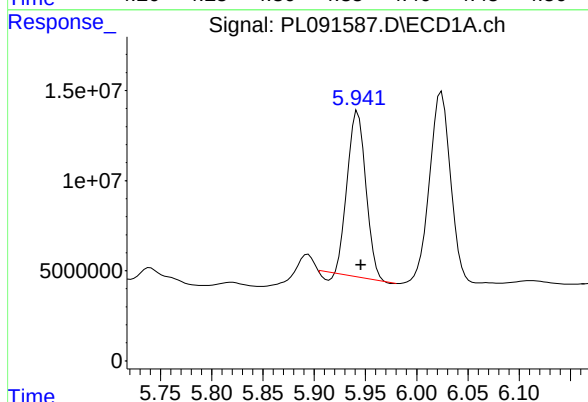
R.T.: 5.233 min  
Delta R.T.: -0.003 min  
Response: 39026737  
Conc: 507.62 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL090924



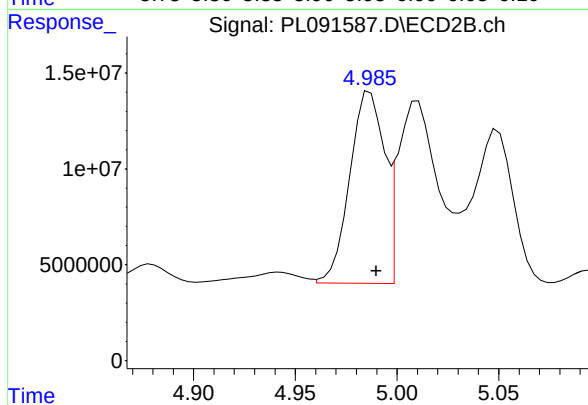
#24 Chlordane-2

R.T.: 4.356 min  
Delta R.T.: -0.003 min  
Response: 38911481  
Conc: 519.15 ng/ml



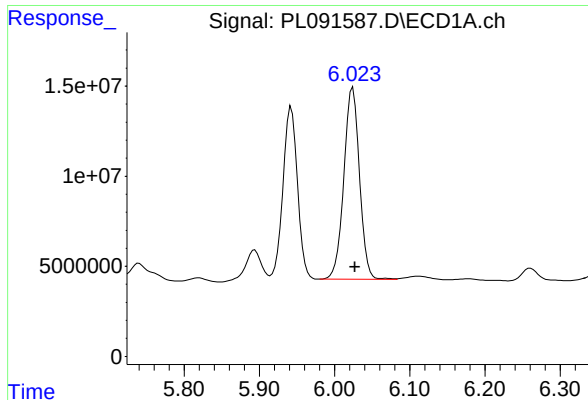
#25 Chlordane-3

R.T.: 5.942 min  
Delta R.T.: -0.003 min  
Response: 113663559  
Conc: 442.44 ng/ml



#25 Chlordane-3

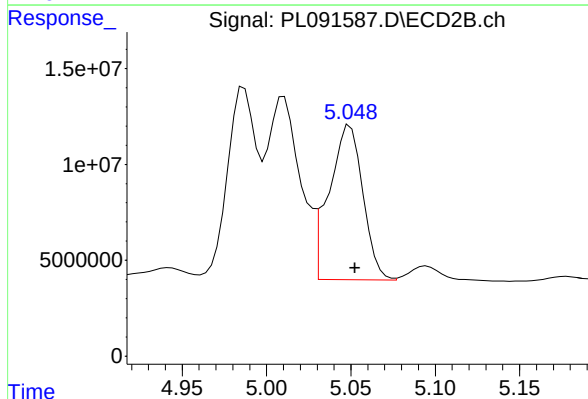
R.T.: 4.987 min  
Delta R.T.: -0.003 min  
Response: 118162680  
Conc: 506.83 ng/ml



#26 Chlordane-4

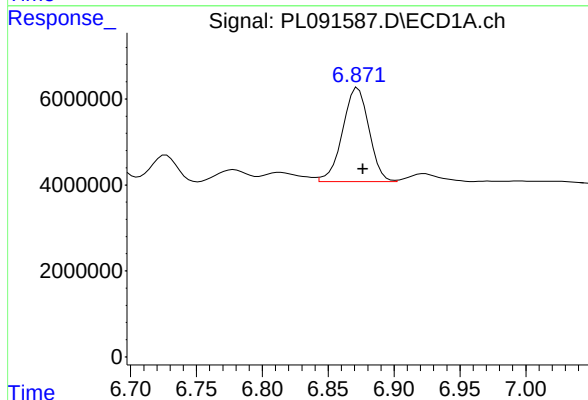
R.T.: 6.024 min  
Delta R.T.: -0.003 min  
Response: 154096333  
Conc: 520.32 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL090924



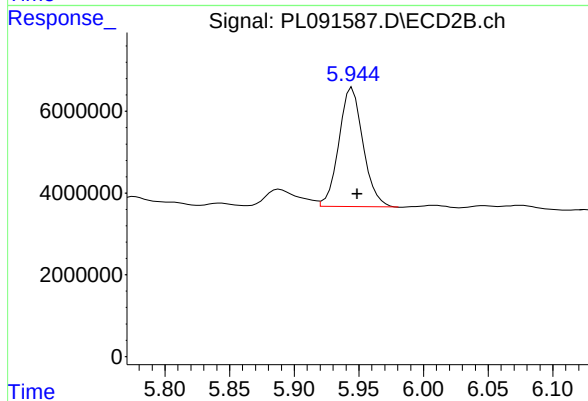
#26 Chlordane-4

R.T.: 5.050 min  
Delta R.T.: -0.003 min  
Response: 112618104  
Conc: 540.05 ng/ml



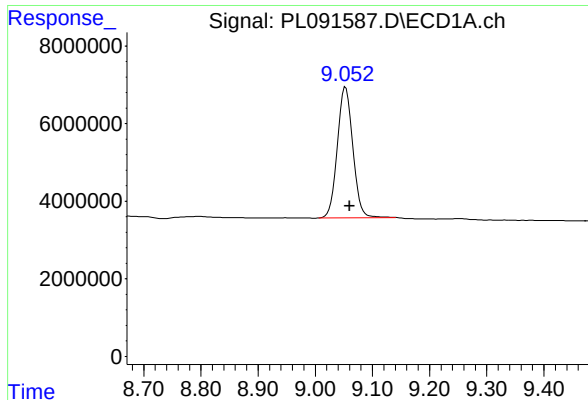
#27 Chlordane-5

R.T.: 6.873 min  
Delta R.T.: -0.004 min  
Response: 30416372  
Conc: 532.90 ng/ml



#27 Chlordane-5

R.T.: 5.945 min  
Delta R.T.: -0.004 min  
Response: 37732567  
Conc: 526.55 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.053 min

Delta R.T.: -0.008 min

Response: 63278192

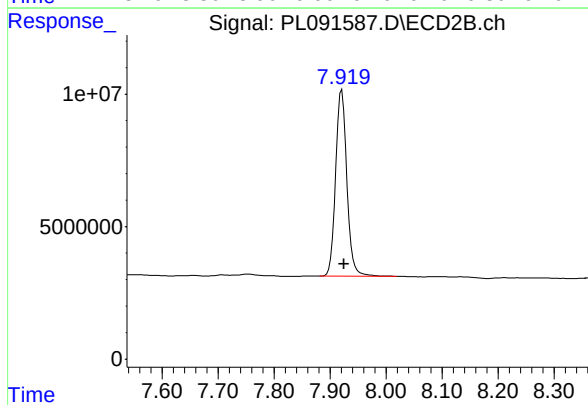
Conc: 52.50 ng/ml

Instrument :

ECD\_L

ClientSampleId :

ICVPL090924



#28 Decachlorobiphenyl

R.T.: 7.921 min

Delta R.T.: -0.004 min

Response: 98168492

Conc: 52.29 ng/ml

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

[illegible]

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

[illegible]



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Instrument ID: ECD\_L

Calibration Date(s): 09/23/2024 09/23/2024

Calibration Times: 12:39 13:33

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

| LAB FILE ID:         |     | CF 1000 =         | <u>PL091961.D</u> | CF 750 =          | <u>PL091962.D</u> |                   |           |          |
|----------------------|-----|-------------------|-------------------|-------------------|-------------------|-------------------|-----------|----------|
| CF 500 =             |     | <u>PL091963.D</u> | CF 250 =          | <u>PL091964.D</u> | CF 050 =          | <u>PL091965.D</u> |           |          |
| COMPOUND             |     | CF 1000           | CF 750            | CF 500            | CF 250            | CF 050            | CF        | %<br>RSD |
| Chlordane-1          | (1) | 94078900          | 96065800          | 98915300          | 106451000         | 116961000         | 102494000 | 9        |
| Chlordane-2          | (2) | 97636000          | 97755300          | 102853000         | 110823000         | 127166000         | 107247000 | 12       |
| Chlordane-3          | (3) | 358234000         | 347851000         | 355337000         | 373378000         | 438086000         | 374577000 | 10       |
| Chlordane-4          | (4) | 432175000         | 420039000         | 432063000         | 455399000         | 524556000         | 452846000 | 9        |
| Chlordane-5          | (5) | 82596700          | 80862600          | 84140800          | 89117600          | 99357200          | 87215000  | 9        |
| Decachlorobiphenyl   |     | 152109000         | 149360000         | 157253000         | 163985000         | 185764000         | 161694000 | 9        |
| Tetrachloro-m-xylene |     | 207303000         | 205352000         | 211351000         | 222597000         | 251086000         | 219538000 | 9        |



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Fax : 908 789 8922

### CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Instrument ID: ECD\_L

Calibration Date(s): 09/23/2024 09/23/2024

Calibration Times: 12:39 13:33

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

| LAB FILE ID:         |     |                   |           |           |                   |           | CF 1000 = | <u>PL091961.D</u> | CF 750 = | <u>PL091962.D</u> |
|----------------------|-----|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|----------|-------------------|
| CF 500 =             |     | <u>PL091963.D</u> | CF 250 =  |           | <u>PL091964.D</u> | CF 050 =  |           | <u>PL091965.D</u> |          |                   |
| COMPOUND             |     | CF 1000           | CF 750    | CF 500    | CF 250            | CF 050    | CF        | % RSD             |          |                   |
| Chlordane-1          | (1) | 100317000         | 98167400  | 98097600  | 100732000         | 102590000 | 99980800  | 2                 |          |                   |
| Chlordane-2          | (2) | 106983000         | 105067000 | 109311000 | 115058000         | 124711000 | 112226000 | 7                 |          |                   |
| Chlordane-3          | (3) | 340564000         | 329006000 | 329535000 | 327536000         | 329500000 | 331228000 | 2                 |          |                   |
| Chlordane-4          | (4) | 327820000         | 314030000 | 315560000 | 316795000         | 312206000 | 317282000 | 2                 |          |                   |
| Chlordane-5          | (5) | 113314000         | 108723000 | 108292000 | 109337000         | 102581000 | 108449000 | 4                 |          |                   |
| Decachlorobiphenyl   |     | 243160000         | 233923000 | 242674000 | 254062000         | 275811000 | 249926000 | 6                 |          |                   |
| Tetrachloro-m-xylene |     | 309505000         | 301991000 | 302314000 | 305675000         | 312032000 | 306303000 | 1                 |          |                   |



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
 Data File : PL091961.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Sep 2024 12:39  
 Operator : AR\AJ  
 Sample : PCHLORICC1000  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC1000

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 23 16:38:16 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 16:37:12 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2  | ng/ml    | ng/ml    |
|-----------------------------|-------|-------|----------|---------|----------|----------|
| -----                       |       |       |          |         |          |          |
| System Monitoring Compounds |       |       |          |         |          |          |
| 1) SA Tetrachlo...          | 3.544 | 2.781 | 207.3E6  | 309.5E6 | 99.033   | 101.175  |
| 28) SA Decachlor...         | 9.060 | 7.923 | 152.1E6  | 243.2E6 | 98.337   | 100.100  |
| Target Compounds            |       |       |          |         |          |          |
| 23) Chlordane-1             | 4.706 | 3.781 | 94078889 | 100.3E6 | 974.940  | 1011.188 |
| 24) Chlordane-2             | 5.235 | 4.358 | 97636046 | 107.0E6 | 973.978  | 989.236  |
| 25) Chlordane-3             | 5.945 | 4.988 | 358.2E6  | 340.6E6 | 1004.061 | 1016.459 |
| 26) Chlordane-4             | 6.027 | 5.051 | 432.2E6  | 327.8E6 | 1000.129 | 1019.057 |
| 27) Chlordane-5             | 6.876 | 5.947 | 82596655 | 113.3E6 | 990.739  | 1022.665 |
| -----                       |       |       |          |         |          |          |

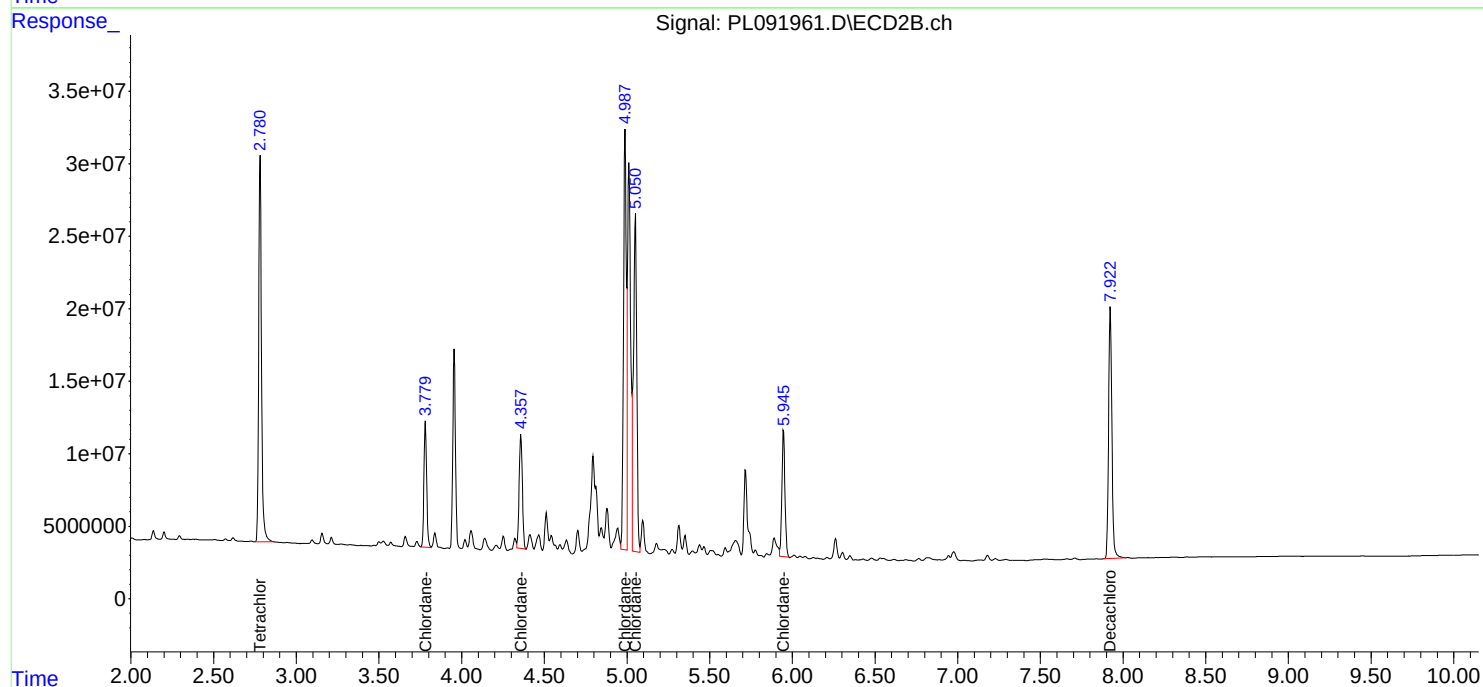
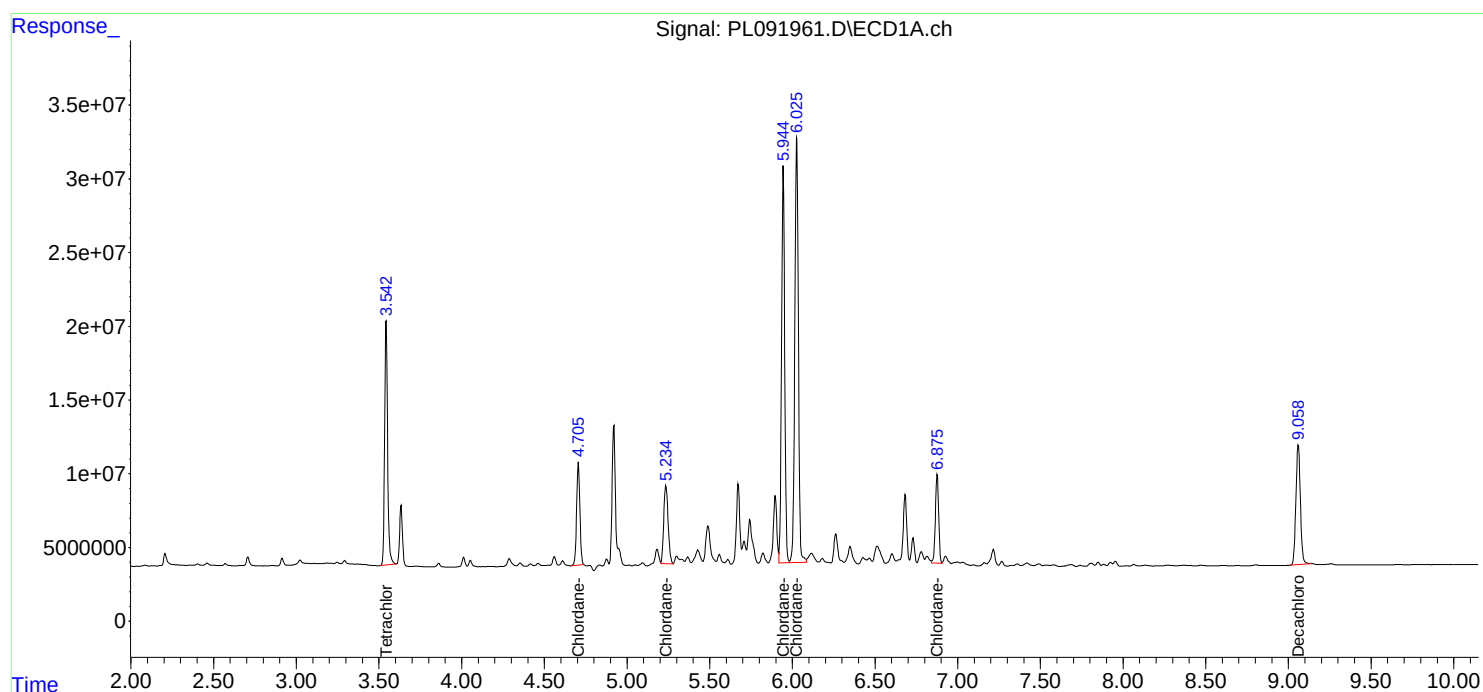
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

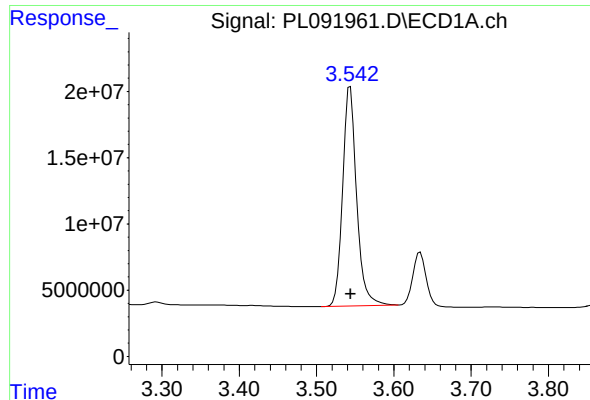
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
Data File : PL091961.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Sep 2024 12:39  
Operator : AR\AJ  
Sample : PCHLORICC1000  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 23 16:38:16 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 16:37:12 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

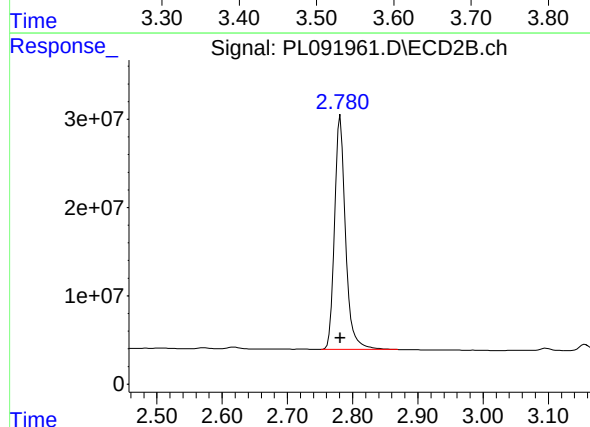




#1 Tetrachloro-m-xylene

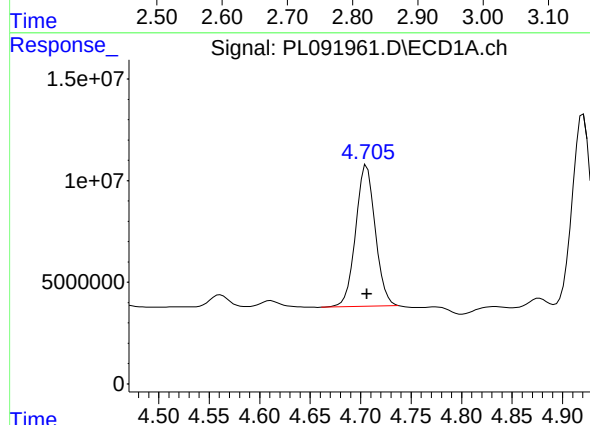
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 207303202  
Conc: 99.03 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000



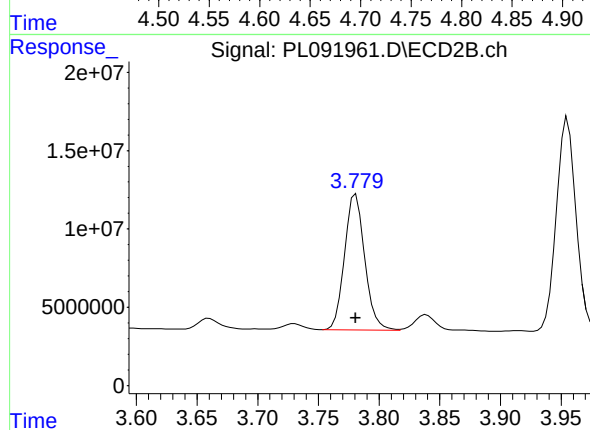
#1 Tetrachloro-m-xylene

R.T.: 2.781 min  
Delta R.T.: 0.000 min  
Response: 309505010  
Conc: 101.18 ng/ml



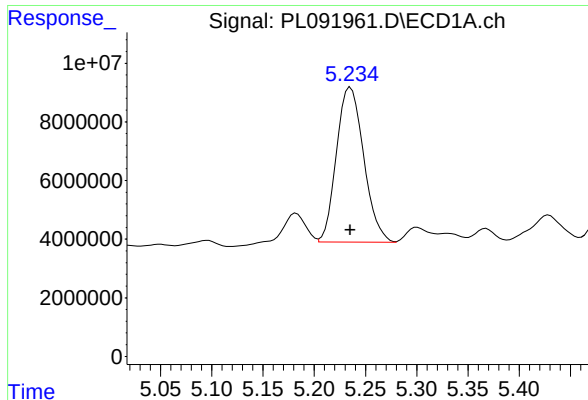
#23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 94078889  
Conc: 974.94 ng/ml



#23 Chlordane-1

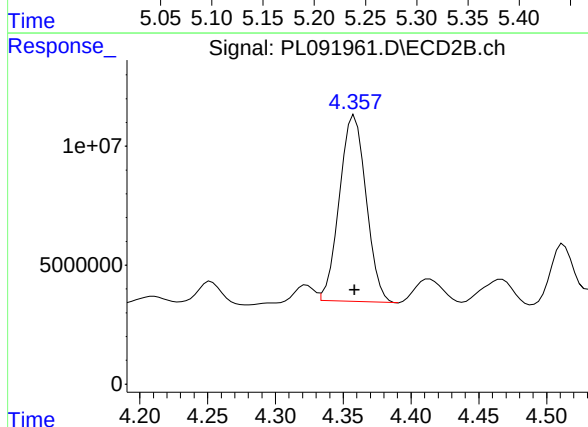
R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 100317407  
Conc: 1011.19 ng/ml



#24 Chlordane-2

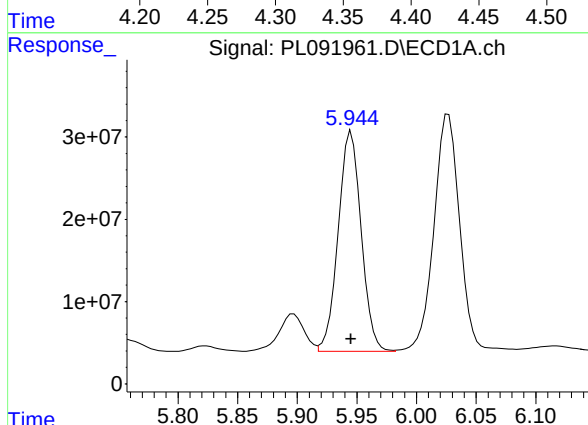
R.T.: 5.235 min  
Delta R.T.: 0.000 min  
Response: 97636046  
Conc: 973.98 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000



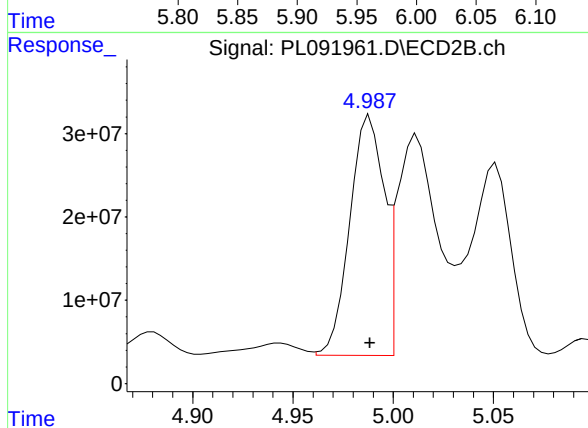
#24 Chlordane-2

R.T.: 4.358 min  
Delta R.T.: 0.000 min  
Response: 106982690  
Conc: 989.24 ng/ml



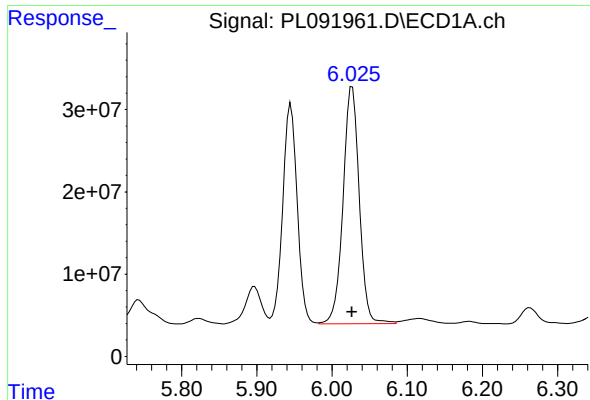
#25 Chlordane-3

R.T.: 5.945 min  
Delta R.T.: 0.000 min  
Response: 358234376  
Conc: 1004.06 ng/ml



#25 Chlordane-3

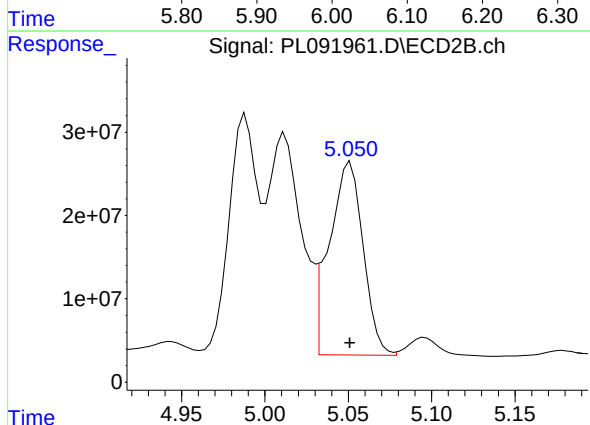
R.T.: 4.988 min  
Delta R.T.: 0.000 min  
Response: 340564261  
Conc: 1016.46 ng/ml



#26 Chlordane-4

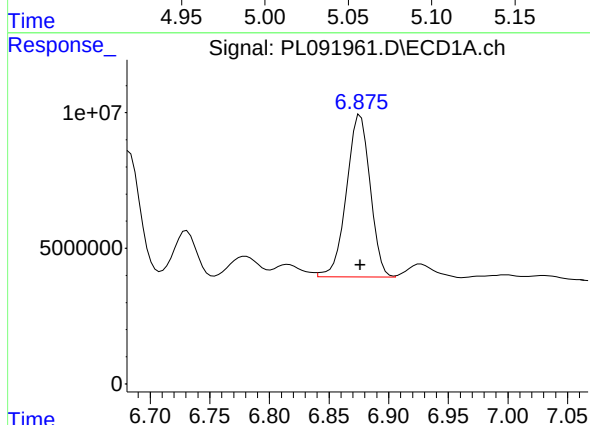
R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 432175110  
Conc: 1000.13 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000



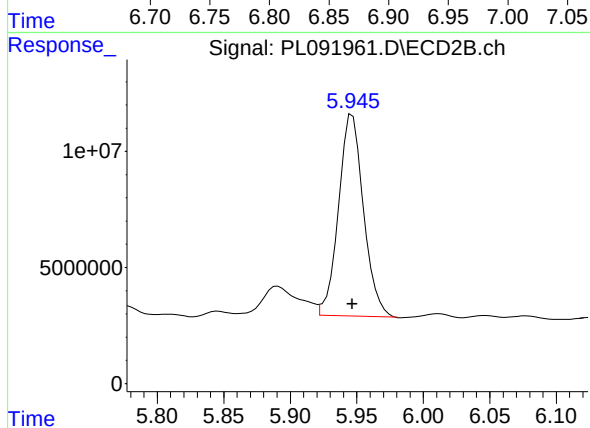
#26 Chlordane-4

R.T.: 5.051 min  
Delta R.T.: 0.000 min  
Response: 327820116  
Conc: 1019.06 ng/ml



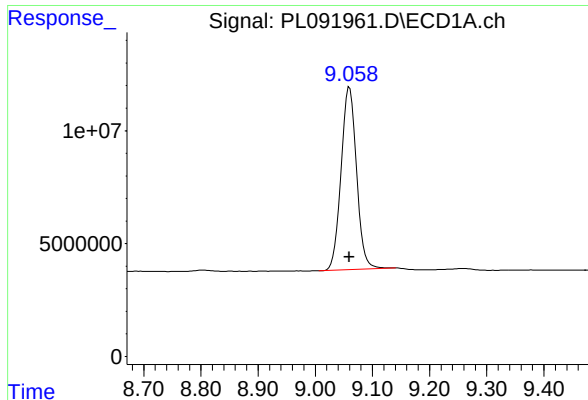
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 82596655  
Conc: 990.74 ng/ml



#27 Chlordane-5

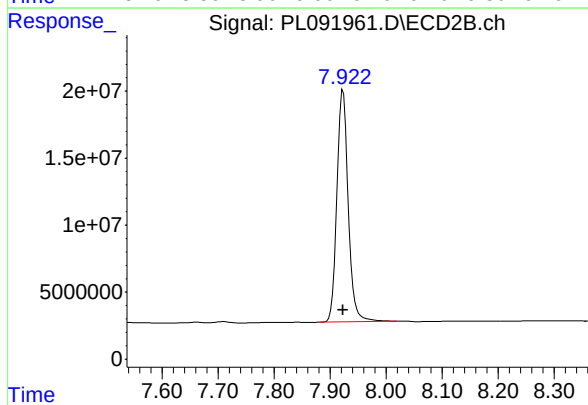
R.T.: 5.947 min  
Delta R.T.: 0.000 min  
Response: 113314362  
Conc: 1022.67 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min  
Delta R.T.: 0.000 min  
Response: 152109001  
Conc: 98.34 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC1000



#28 Decachlorobiphenyl

R.T.: 7.923 min  
Delta R.T.: 0.000 min  
Response: 243159661  
Conc: 100.10 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
 Data File : PL091962.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Sep 2024 12:52  
 Operator : AR\AJ  
 Sample : PCHLORICC750  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC750

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 23 13:24:32 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 13:20:38 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|----------|---------|---------|
| -----                       |       |       |          |          |         |         |
| System Monitoring Compounds |       |       |          |          |         |         |
| 1) SA Tetrachlo...          | 3.543 | 2.781 | 154.0E6  | 226.5E6  | 74.044  | 74.357  |
| 28) SA Decachlor...         | 9.060 | 7.923 | 112.0E6  | 175.4E6  | 73.260  | 73.126  |
| Target Compounds            |       |       |          |          |         |         |
| 23) Chlordane-1             | 4.706 | 3.781 | 72049361 | 73625516 | 741.962 | 744.739 |
| 24) Chlordane-2             | 5.235 | 4.358 | 73316499 | 78800619 | 737.480 | 735.627 |
| 25) Chlordane-3             | 5.945 | 4.988 | 260.9E6  | 246.8E6  | 737.373 | 740.927 |
| 26) Chlordane-4             | 6.027 | 5.051 | 315.0E6  | 235.5E6  | 735.890 | 737.999 |
| 27) Chlordane-5             | 6.876 | 5.947 | 60646959 | 81542348 | 734.818 | 740.556 |
| -----                       |       |       |          |          |         |         |

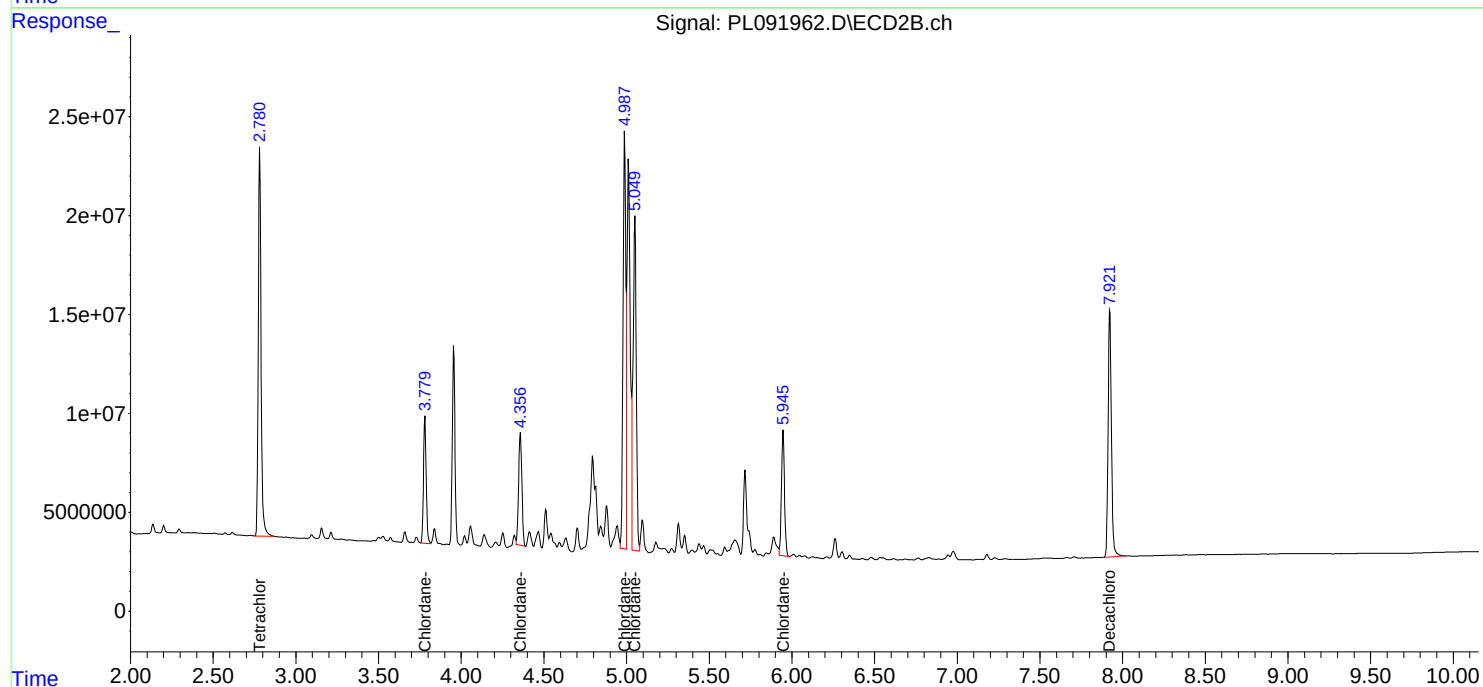
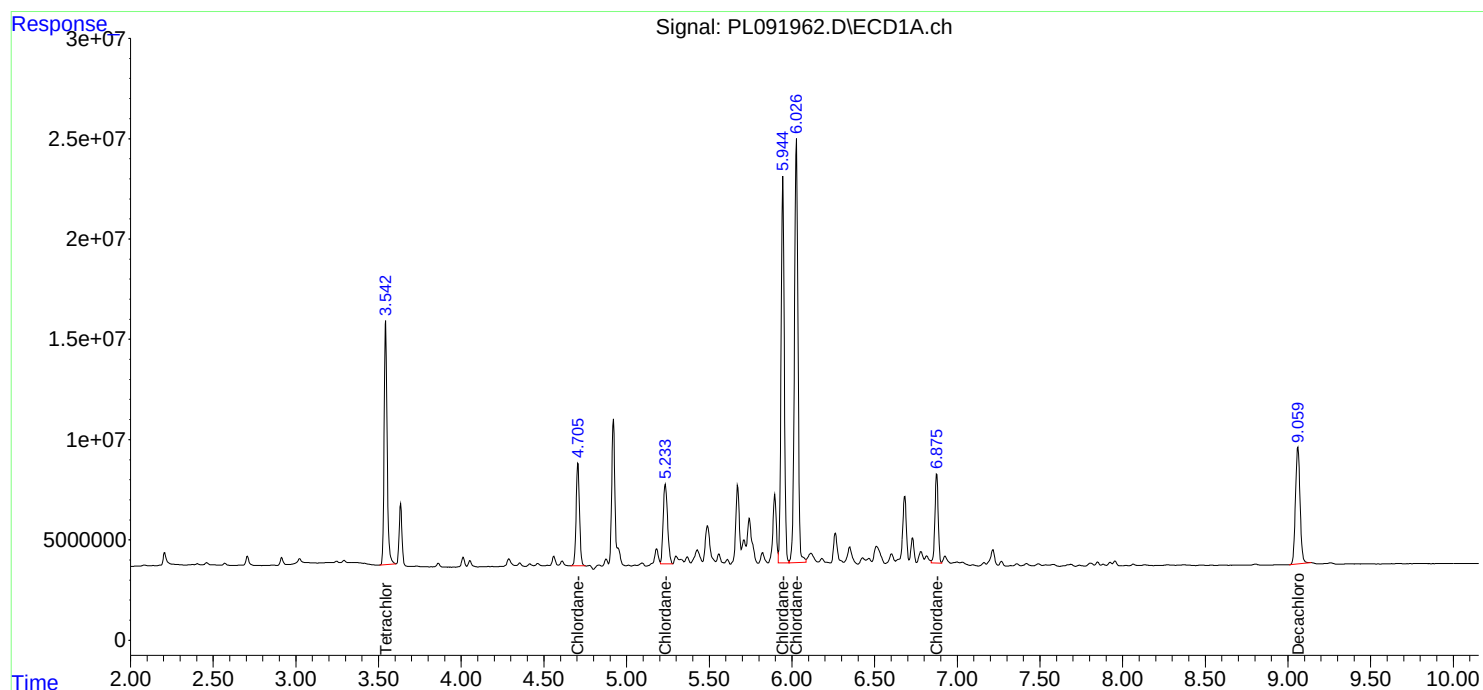
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
Data File : PL091962.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Sep 2024 12:52  
Operator : AR\AJ  
Sample : PCHLORICC750  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

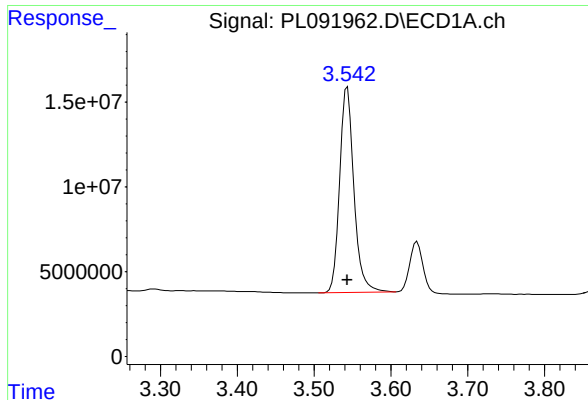
Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 23 13:24:32 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 13:20:38 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



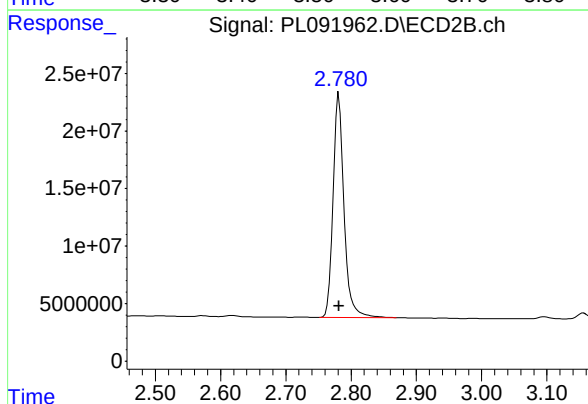




## #1 Tetrachloro-m-xylene

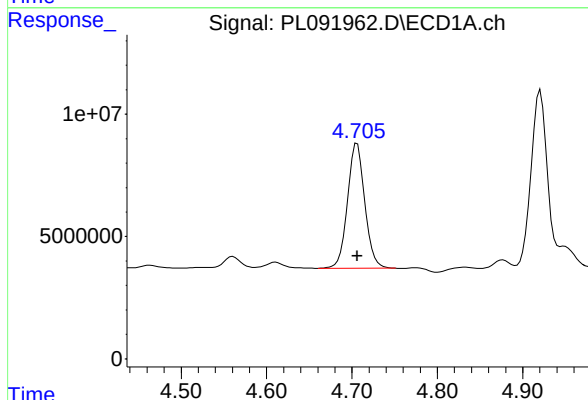
R.T.: 3.543 min  
Delta R.T.: 0.000 min  
Response: 154014047  
Conc: 74.04 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750



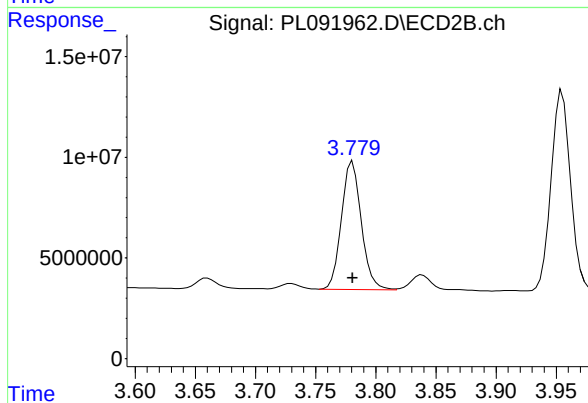
## #1 Tetrachloro-m-xylene

R.T.: 2.781 min  
Delta R.T.: 0.000 min  
Response: 226493399  
Conc: 74.36 ng/ml



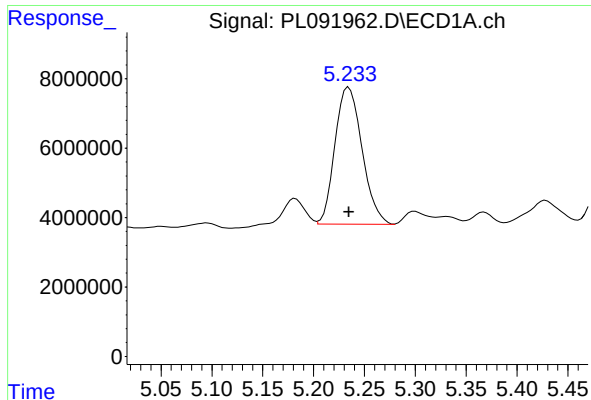
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 72049361  
Conc: 741.96 ng/ml



## #23 Chlordane-1

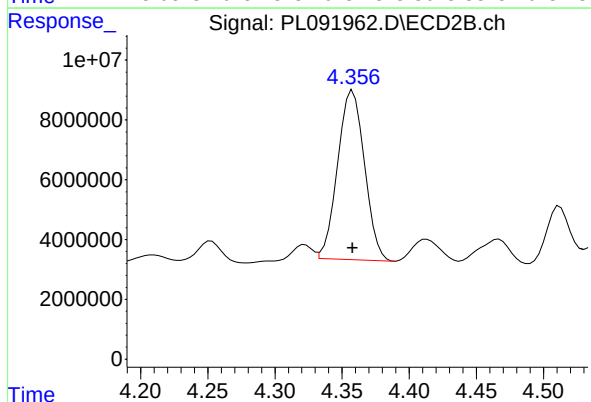
R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 73625516  
Conc: 744.74 ng/ml



#24 Chlordane-2

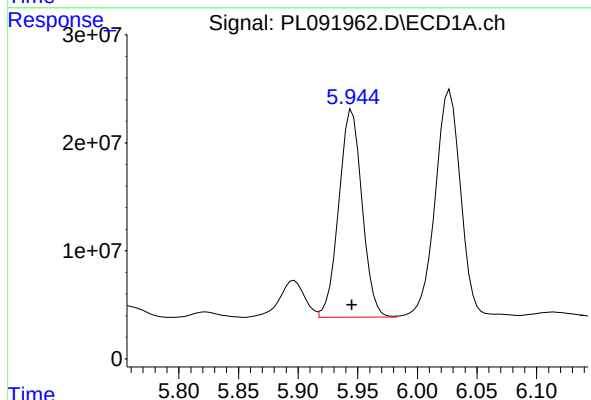
R.T.: 5.235 min  
Delta R.T.: 0.000 min  
Response: 73316499  
Conc: 737.48 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750



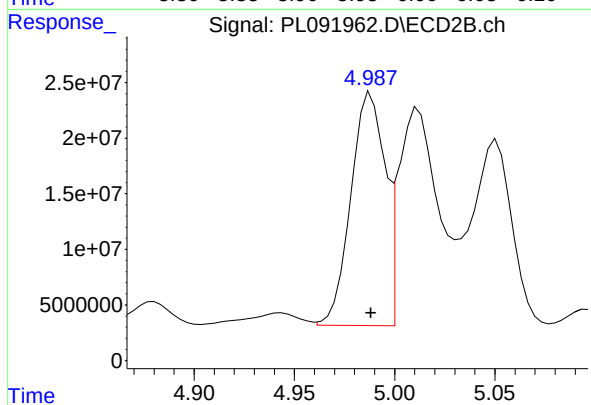
#24 Chlordane-2

R.T.: 4.358 min  
Delta R.T.: 0.000 min  
Response: 78800619  
Conc: 735.63 ng/ml



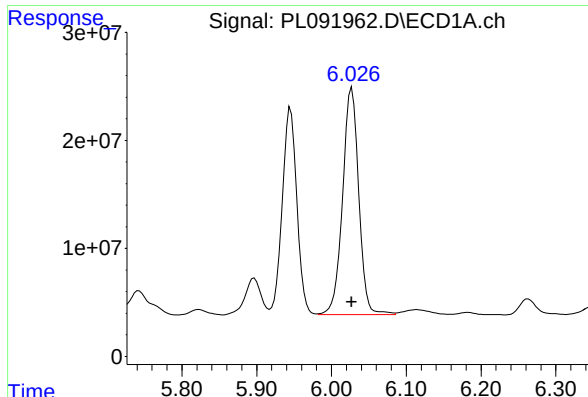
#25 Chlordane-3

R.T.: 5.945 min  
Delta R.T.: 0.000 min  
Response: 260887975  
Conc: 737.37 ng/ml



#25 Chlordane-3

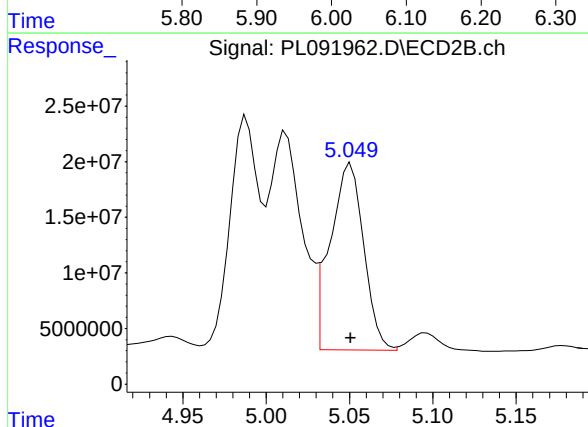
R.T.: 4.988 min  
Delta R.T.: 0.000 min  
Response: 246754754  
Conc: 740.93 ng/ml



#26 Chlordane-4

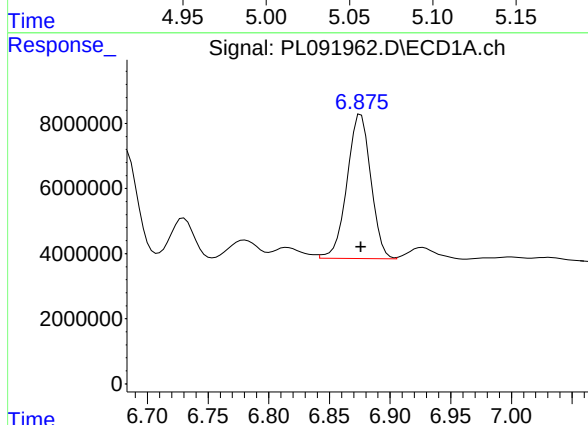
R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 315028906  
Conc: 735.89 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC750



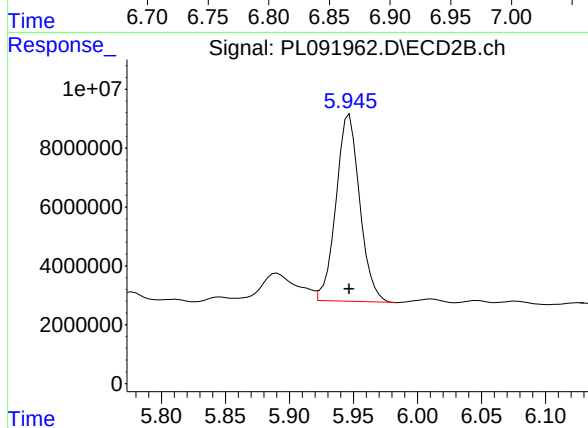
#26 Chlordane-4

R.T.: 5.051 min  
Delta R.T.: 0.000 min  
Response: 235522405  
Conc: 738.00 ng/ml



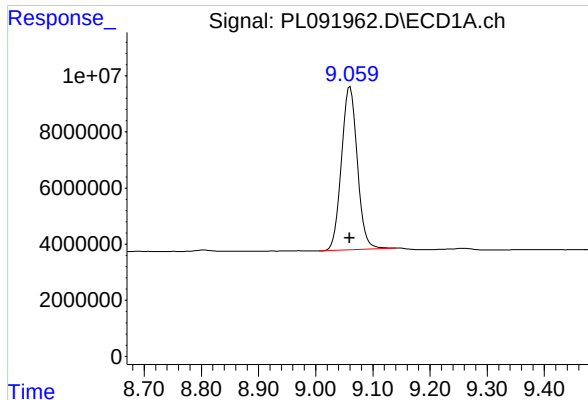
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 60646959  
Conc: 734.82 ng/ml



#27 Chlordane-5

R.T.: 5.947 min  
Delta R.T.: 0.000 min  
Response: 81542348  
Conc: 740.56 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min

Delta R.T.: 0.000 min

Response: 112019666

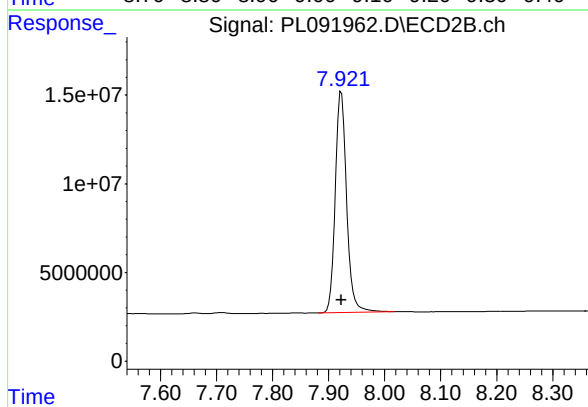
Conc: 73.26 ng/ml

Instrument :

ECD\_L

ClientSampleId :

PCHLORICC750



#28 Decachlorobiphenyl

R.T.: 7.923 min

Delta R.T.: 0.000 min

Response: 175442109

Conc: 73.13 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
 Data File : PL091963.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Sep 2024 13:06  
 Operator : AR\AJ  
 Sample : PCHLORICC500  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC500

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 23 13:20:59 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 13:20:38 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|----------|---------|---------|
| -----                       |       |       |          |          |         |         |
| System Monitoring Compounds |       |       |          |          |         |         |
| 1) SA Tetrachlo...          | 3.544 | 2.782 | 105.7E6  | 151.2E6  | 50.000  | 50.000  |
| 28) SA Decachlor...         | 9.061 | 7.924 | 78626748 | 121.3E6  | 50.000  | 50.000  |
| Target Compounds            |       |       |          |          |         |         |
| 23) Chlordane-1             | 4.706 | 3.781 | 49457629 | 49048818 | 500.000 | 500.000 |
| 24) Chlordane-2             | 5.236 | 4.358 | 51426580 | 54655467 | 500.000 | 500.000 |
| 25) Chlordane-3             | 5.946 | 4.989 | 177.7E6  | 164.8E6  | 500.000 | 500.000 |
| 26) Chlordane-4             | 6.028 | 5.051 | 216.0E6  | 157.8E6  | 500.000 | 500.000 |
| 27) Chlordane-5             | 6.877 | 5.947 | 42070403 | 54145786 | 500.000 | 500.000 |
| -----                       |       |       |          |          |         |         |

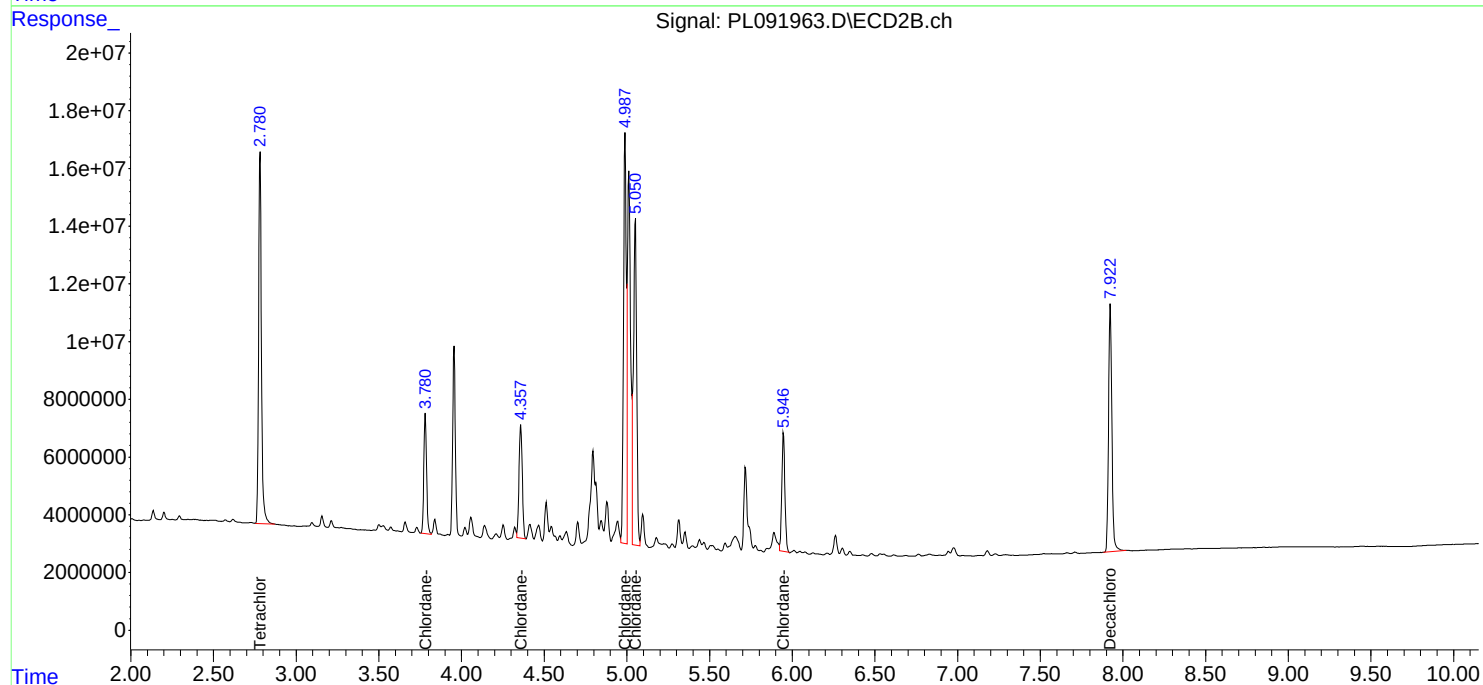
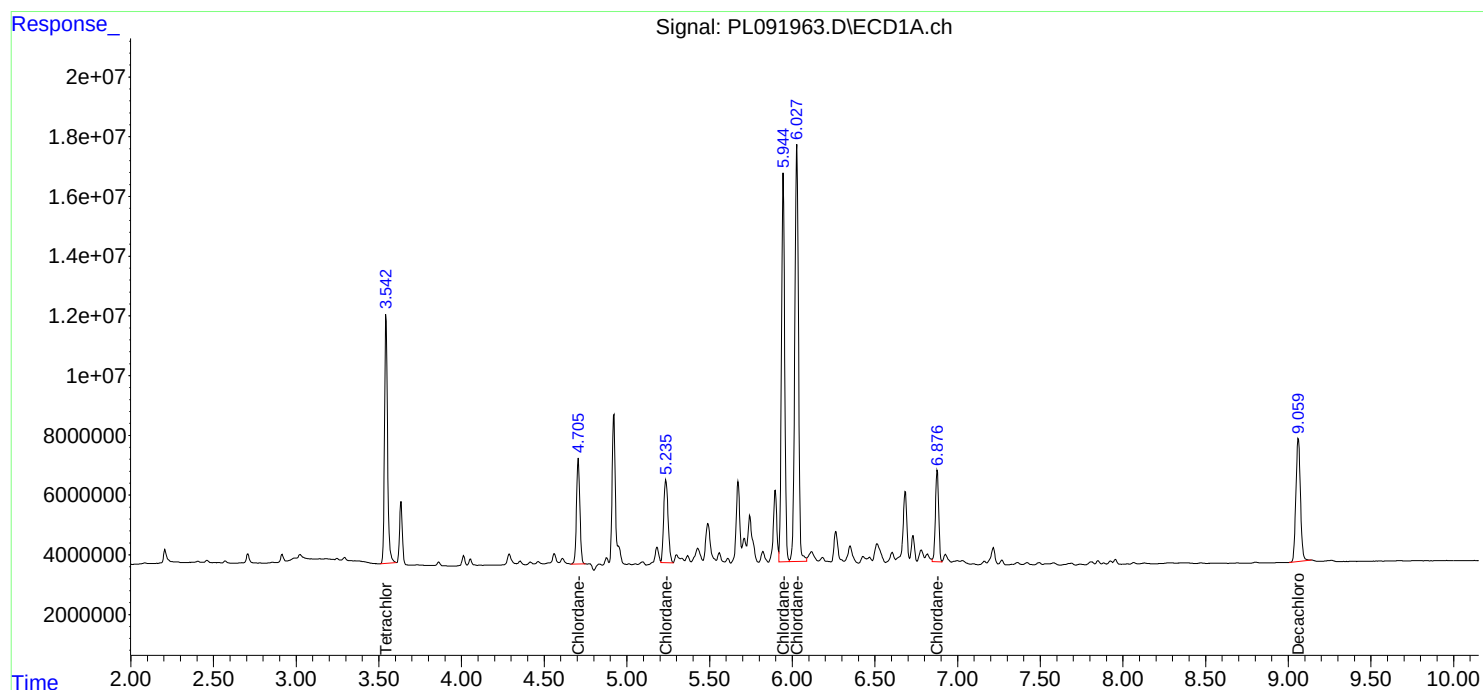
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

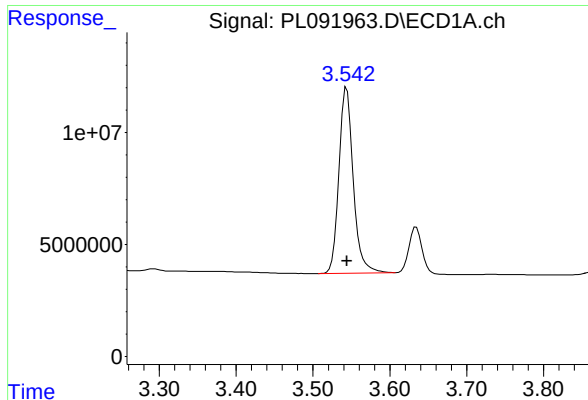
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
Data File : PL091963.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Sep 2024 13:06  
Operator : AR\AJ  
Sample : PCHLORICC500  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 23 13:20:59 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 13:20:38 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

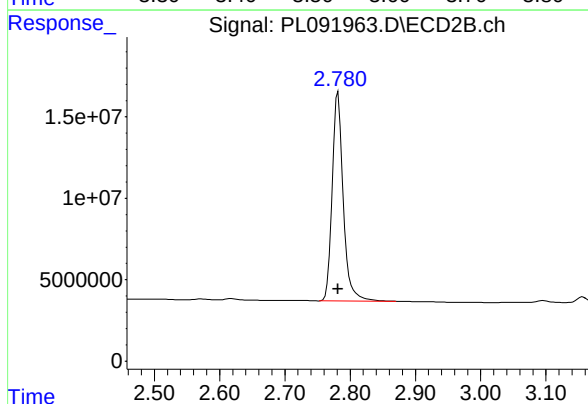




## #1 Tetrachloro-m-xylene

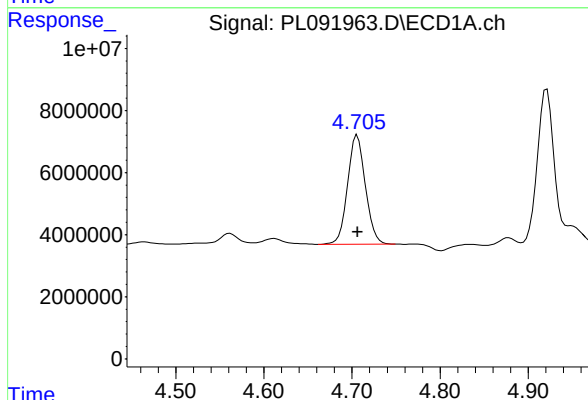
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 105675393  
Conc: 50.00 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500



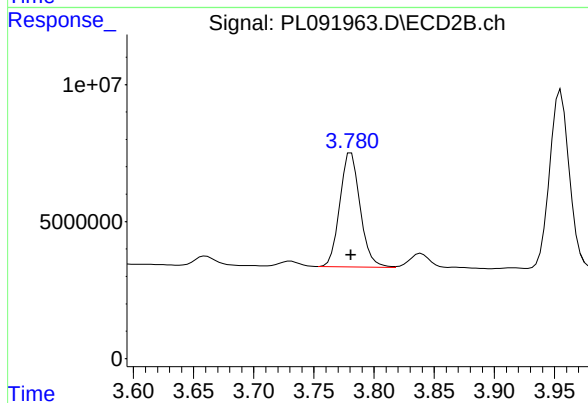
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 151157034  
Conc: 50.00 ng/ml



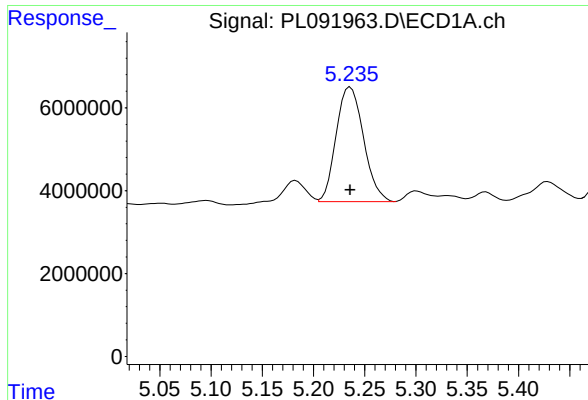
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 49457629  
Conc: 500.00 ng/ml



## #23 Chlordane-1

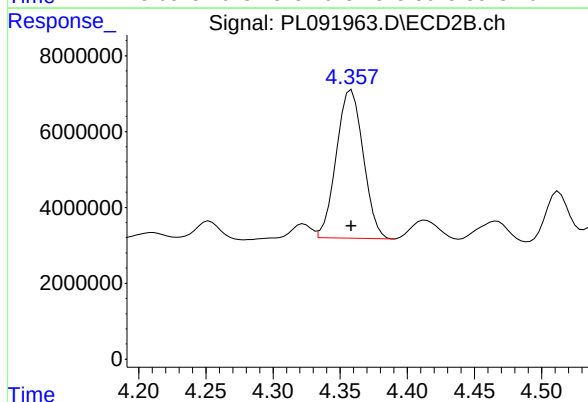
R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 49048818  
Conc: 500.00 ng/ml



#24 Chlordane-2

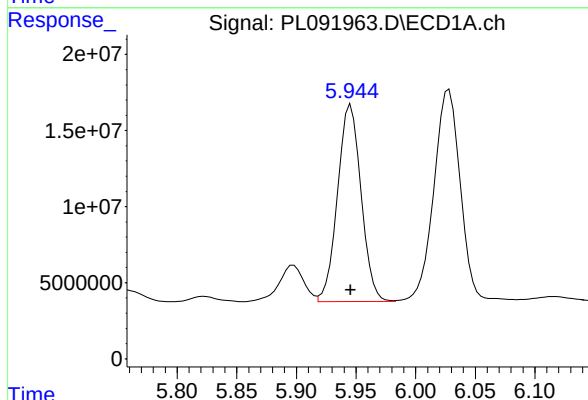
R.T.: 5.236 min  
Delta R.T.: 0.000 min  
Response: 51426580  
Conc: 500.00 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500



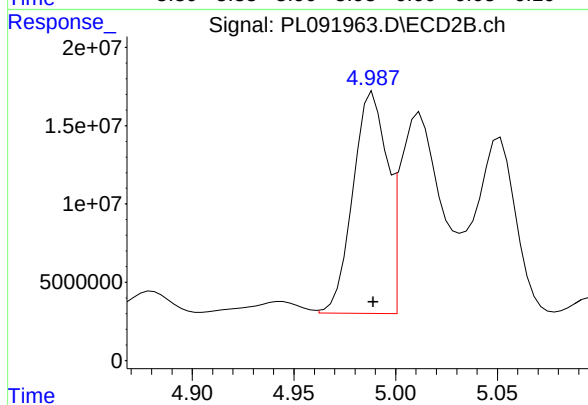
#24 Chlordane-2

R.T.: 4.358 min  
Delta R.T.: 0.000 min  
Response: 54655467  
Conc: 500.00 ng/ml



#25 Chlordane-3

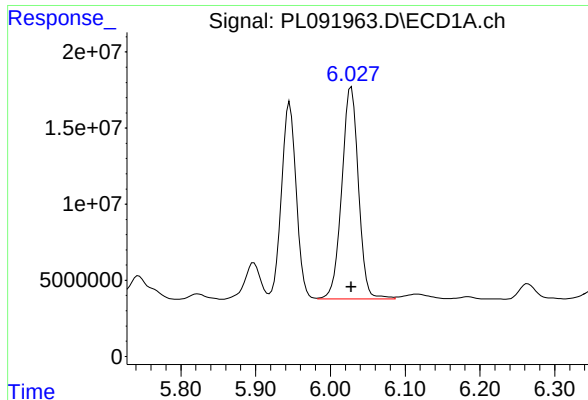
R.T.: 5.946 min  
Delta R.T.: 0.000 min  
Response: 177668269  
Conc: 500.00 ng/ml



#25 Chlordane-3

R.T.: 4.989 min  
Delta R.T.: 0.000 min  
Response: 164767709  
Conc: 500.00 ng/ml

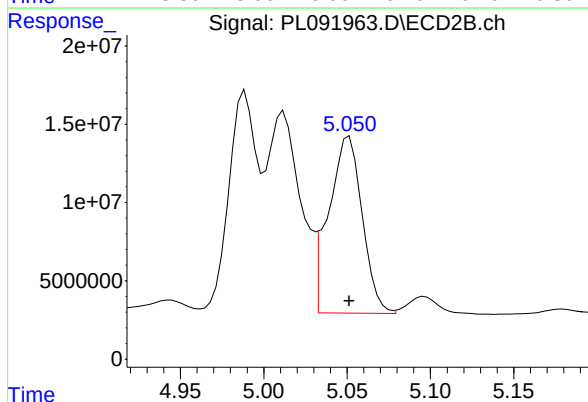




#26 Chlordane-4

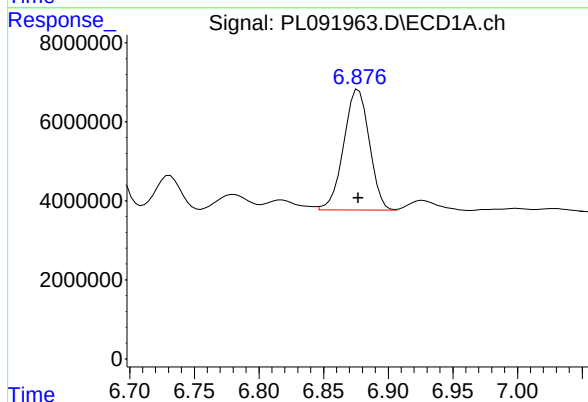
R.T.: 6.028 min  
Delta R.T.: 0.000 min  
Response: 216031706  
Conc: 500.00 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500



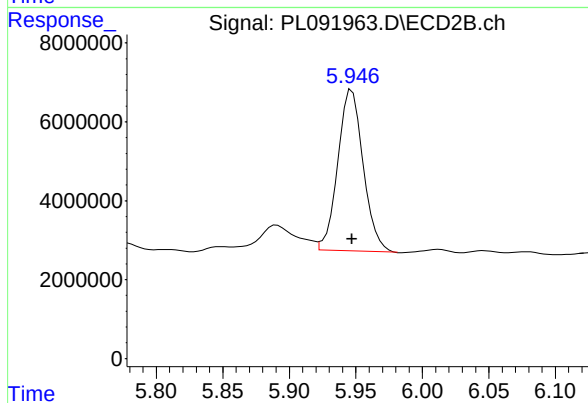
#26 Chlordane-4

R.T.: 5.051 min  
Delta R.T.: 0.000 min  
Response: 157779752  
Conc: 500.00 ng/ml



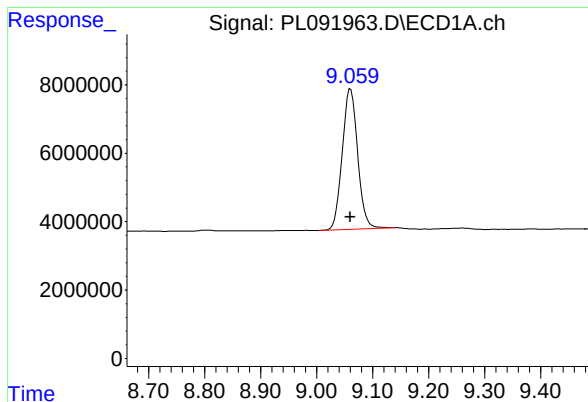
#27 Chlordane-5

R.T.: 6.877 min  
Delta R.T.: 0.000 min  
Response: 42070403  
Conc: 500.00 ng/ml



#27 Chlordane-5

R.T.: 5.947 min  
Delta R.T.: 0.000 min  
Response: 54145786  
Conc: 500.00 ng/ml

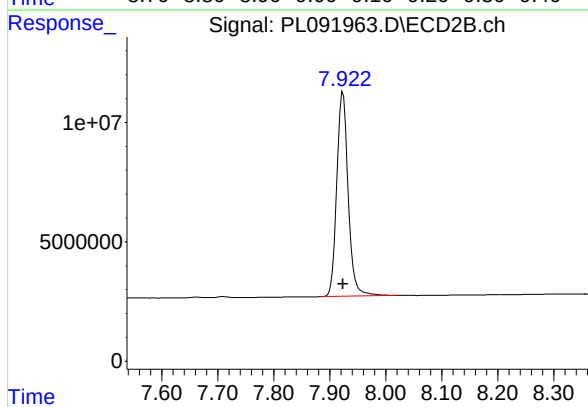


#28 Decachlorobiphenyl

ICAL Form

R.T.: 9.061 min  
Delta R.T.: 0.000 min  
Response: 78626748  
Conc: 50.00 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC500



#28 Decachlorobiphenyl

R.T.: 7.924 min  
Delta R.T.: 0.000 min  
Response: 121336825  
Conc: 50.00 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
 Data File : PL091964.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Sep 2024 13:19  
 Operator : AR\AJ  
 Sample : PCHLORICC250  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC250

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 23 13:59:11 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 13:58:59 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

|                             | Compound        | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-----------------|-------|-------|----------|----------|---------|---------|
| -----                       |                 |       |       |          |          |         |         |
| System Monitoring Compounds |                 |       |       |          |          |         |         |
| 1)                          | SA Tetrachlo... | 3.544 | 2.782 | 55649362 | 76418777 | 26.293  | 25.066  |
| 28)                         | SA Decachlor... | 9.061 | 7.923 | 40996191 | 63515556 | 26.334  | 26.089  |
|                             |                 |       |       |          |          |         |         |
| Target Compounds            |                 |       |       |          |          |         |         |
| 23)                         | Chlordane-1     | 4.706 | 3.781 | 26612873 | 25182916 | 267.620 | 253.532 |
| 24)                         | Chlordane-2     | 5.235 | 4.359 | 27705732 | 28764449 | 270.916 | 263.641 |
| 25)                         | Chlordane-3     | 5.945 | 4.989 | 93344435 | 81883907 | 260.230 | 246.891 |
| 26)                         | Chlordane-4     | 6.027 | 5.052 | 113.8E6  | 79198691 | 261.772 | 248.622 |
| 27)                         | Chlordane-5     | 6.876 | 5.947 | 22279405 | 27334257 | 264.666 | 248.682 |
| -----                       |                 |       |       |          |          |         |         |

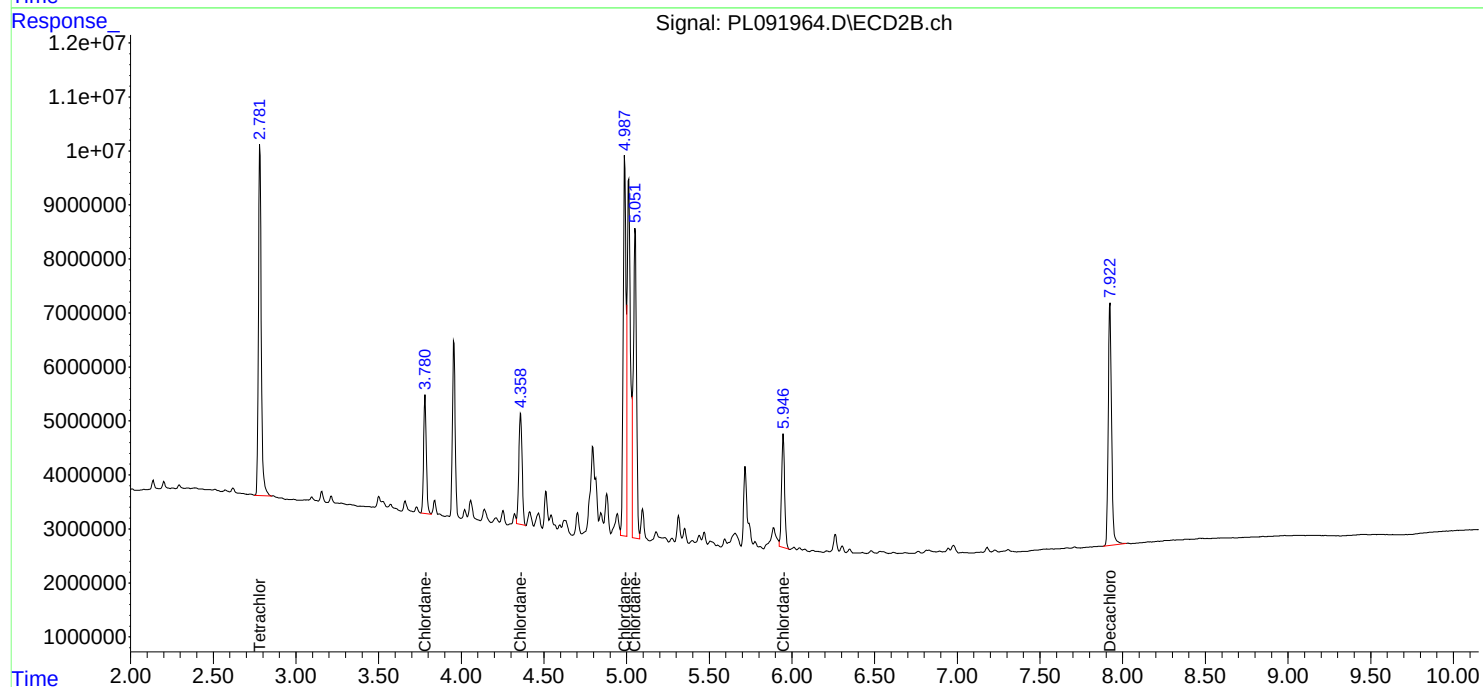
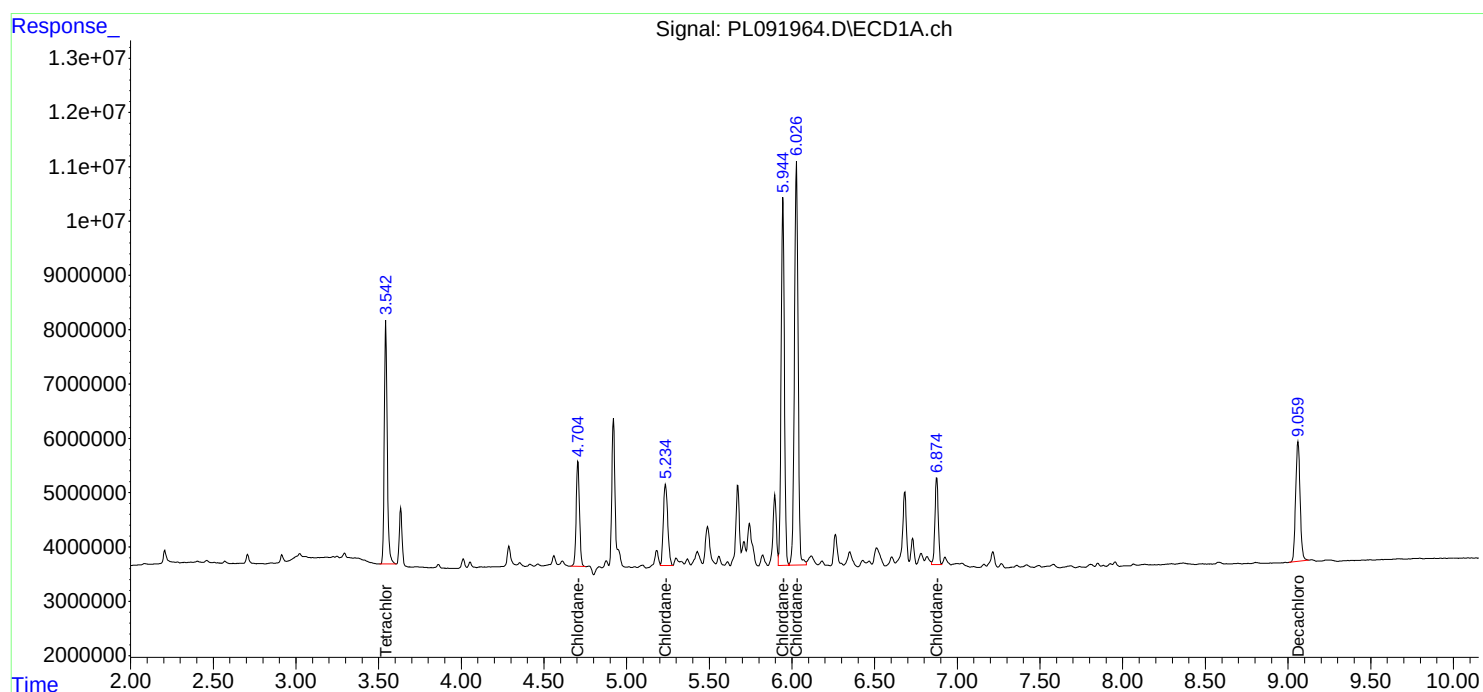
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

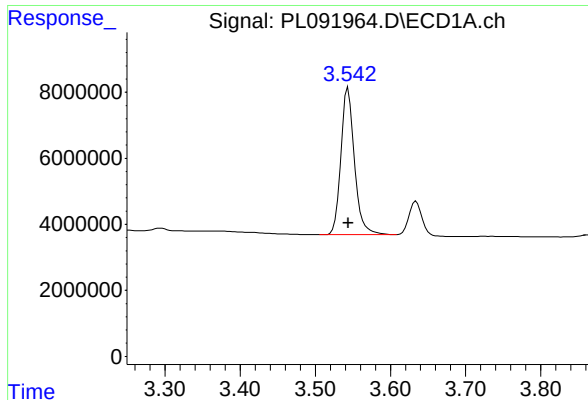
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
Data File : PL091964.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Sep 2024 13:19  
Operator : AR\AJ  
Sample : PCHLORICC250  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 23 13:59:11 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 13:58:59 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

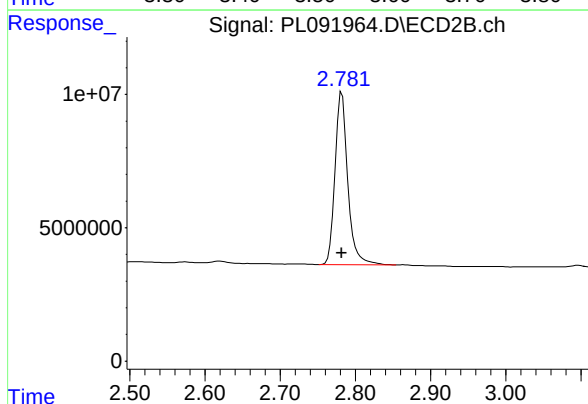




## #1 Tetrachloro-m-xylene

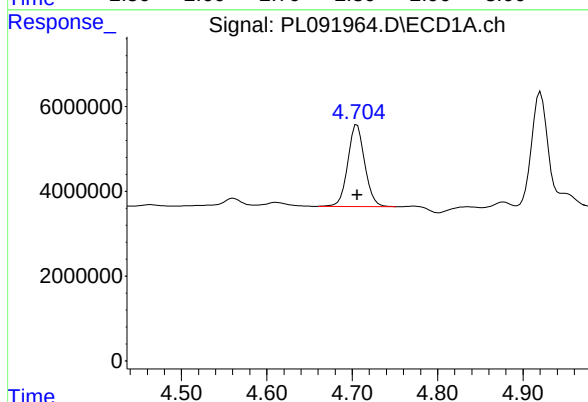
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 55649362  
Conc: 26.29 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250



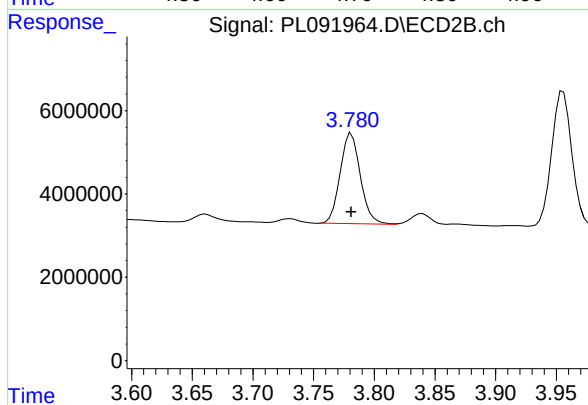
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 76418777  
Conc: 25.07 ng/ml



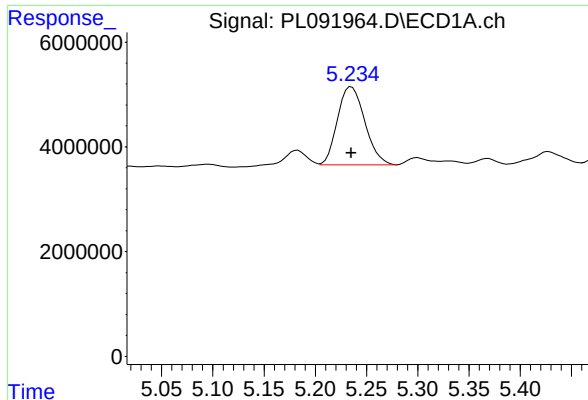
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 26612873  
Conc: 267.62 ng/ml



## #23 Chlordane-1

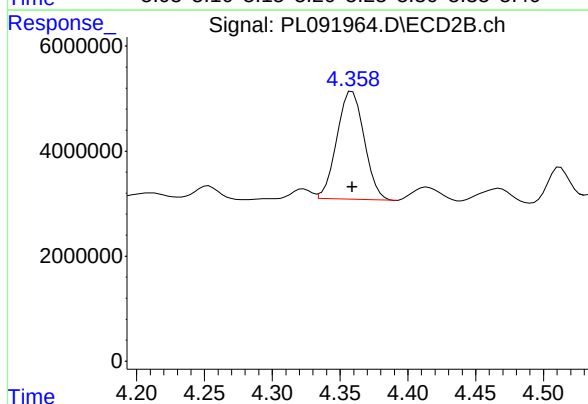
R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 25182916  
Conc: 253.53 ng/ml



#24 Chlordane-2

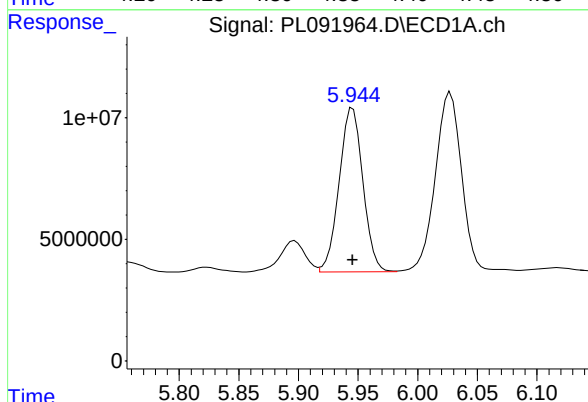
R.T.: 5.235 min  
Delta R.T.: 0.000 min  
Response: 27705732  
Conc: 270.92 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250



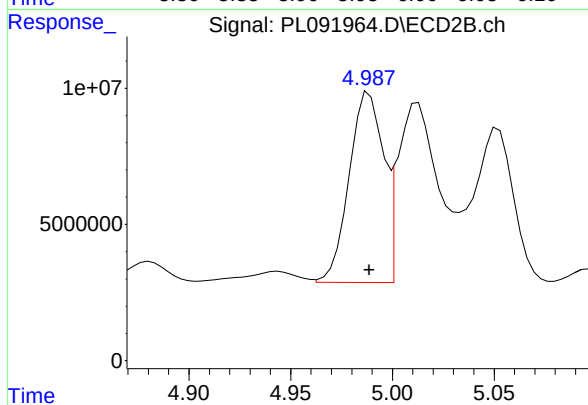
#24 Chlordane-2

R.T.: 4.359 min  
Delta R.T.: 0.000 min  
Response: 28764449  
Conc: 263.64 ng/ml



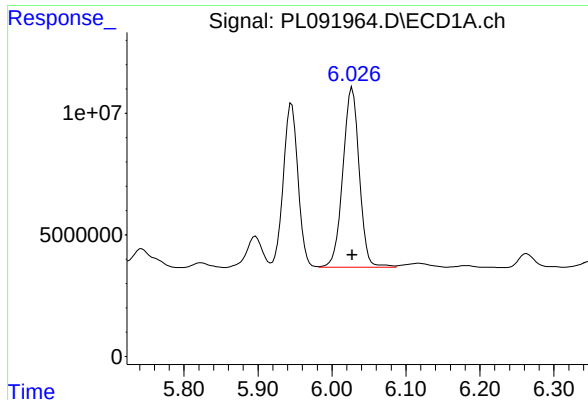
#25 Chlordane-3

R.T.: 5.945 min  
Delta R.T.: 0.000 min  
Response: 93344435  
Conc: 260.23 ng/ml



#25 Chlordane-3

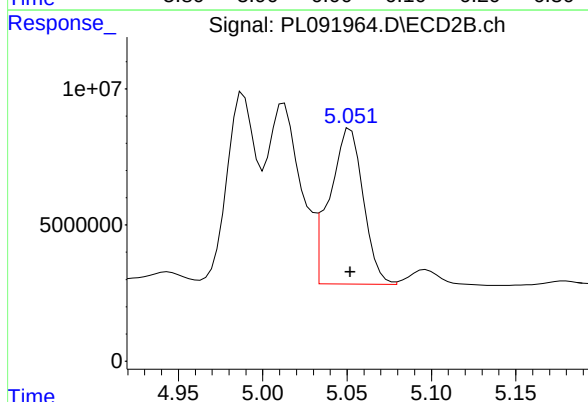
R.T.: 4.989 min  
Delta R.T.: 0.000 min  
Response: 81883907  
Conc: 246.89 ng/ml



#26 Chlordane-4

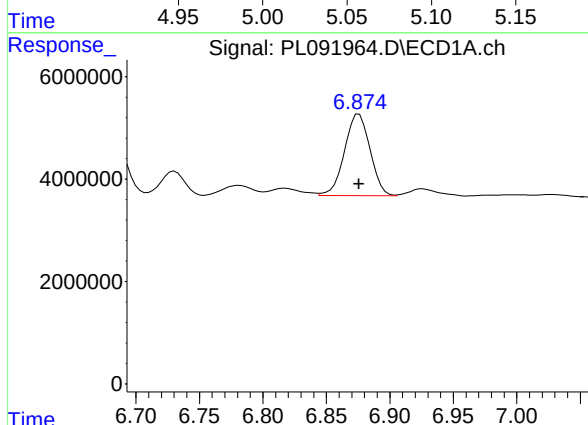
R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 113849651  
Conc: 261.77 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250



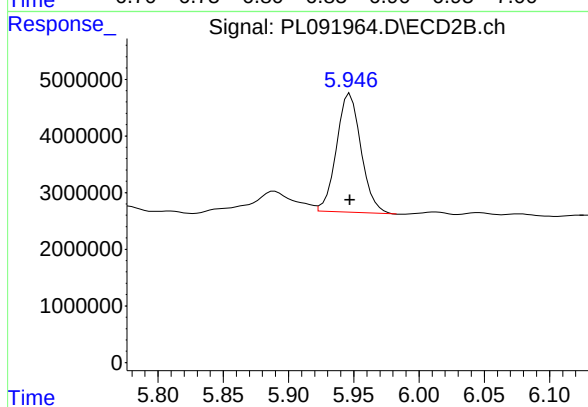
#26 Chlordane-4

R.T.: 5.052 min  
Delta R.T.: 0.000 min  
Response: 79198691  
Conc: 248.62 ng/ml



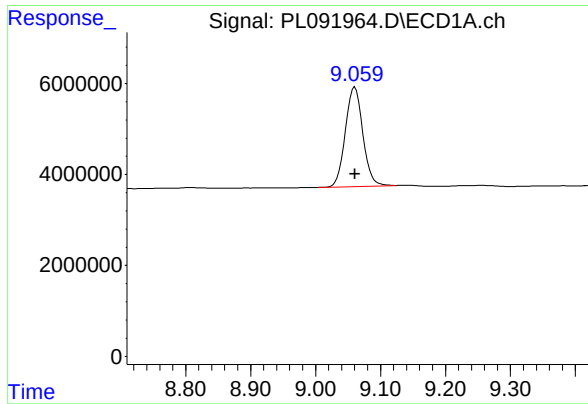
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 22279405  
Conc: 264.67 ng/ml



#27 Chlordane-5

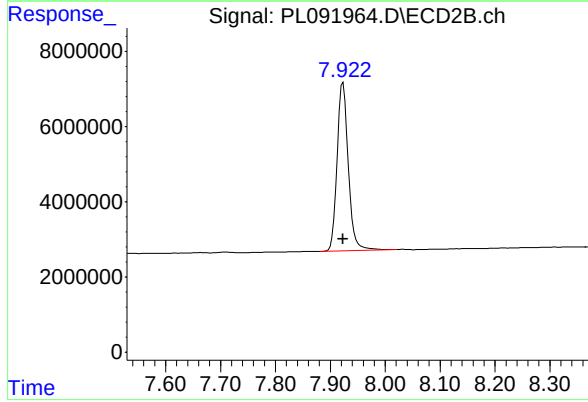
R.T.: 5.947 min  
Delta R.T.: 0.000 min  
Response: 27334257  
Conc: 248.68 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min  
Delta R.T.: 0.000 min  
Response: 40996191  
Conc: 26.33 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC250



#28 Decachlorobiphenyl

R.T.: 7.923 min  
Delta R.T.: 0.000 min  
Response: 63515556  
Conc: 26.09 ng/ml



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
 Data File : PL091965.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Sep 2024 13:33  
 Operator : AR\AJ  
 Sample : PCHLORICC050  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORICC050

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 23 14:01:00 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 14:00:52 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-------|-------|----------|----------|--------|--------|
| -----                       |       |       |          |          |        |        |
| System Monitoring Compounds |       |       |          |          |        |        |
| 1) SA Tetrachlo...          | 3.543 | 2.782 | 12554280 | 15601593 | 5.719  | 5.094  |
| 28) SA Decachlor...         | 9.061 | 7.924 | 9288203  | 13790570 | 5.744  | 5.518  |
| Target Compounds            |       |       |          |          |        |        |
| 23) Chlordane-1             | 4.706 | 3.781 | 5848037  | 5129488  | 56.807 | 51.305 |
| 24) Chlordane-2             | 5.235 | 4.358 | 6358281  | 6235547  | 59.287 | 55.562 |
| 25) Chlordane-3             | 5.945 | 4.988 | 21904289 | 16475009 | 58.477 | 49.739 |
| 26) Chlordane-4             | 6.027 | 5.051 | 26227789 | 15610281 | 57.918 | 49.200 |
| 27) Chlordane-5             | 6.876 | 5.947 | 4967859  | 5129055  | 56.961 | 47.294 |
| -----                       |       |       |          |          |        |        |

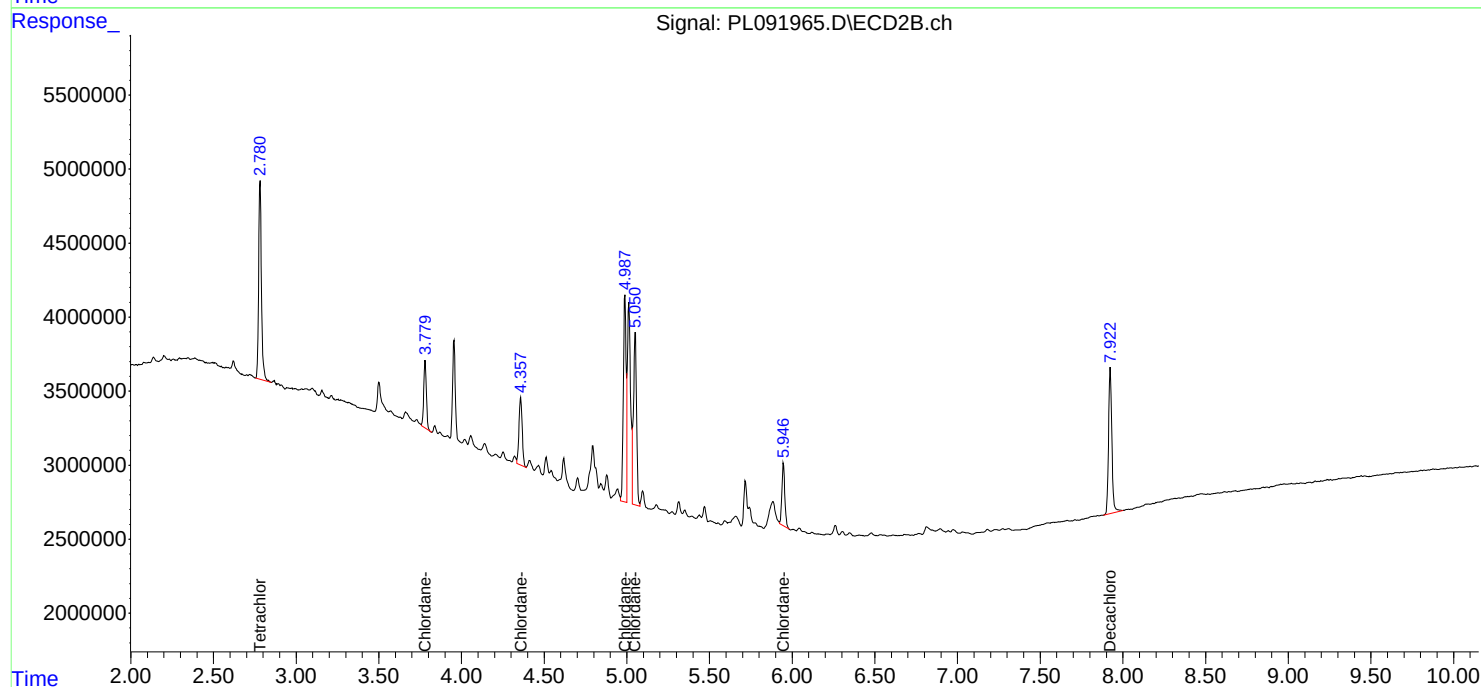
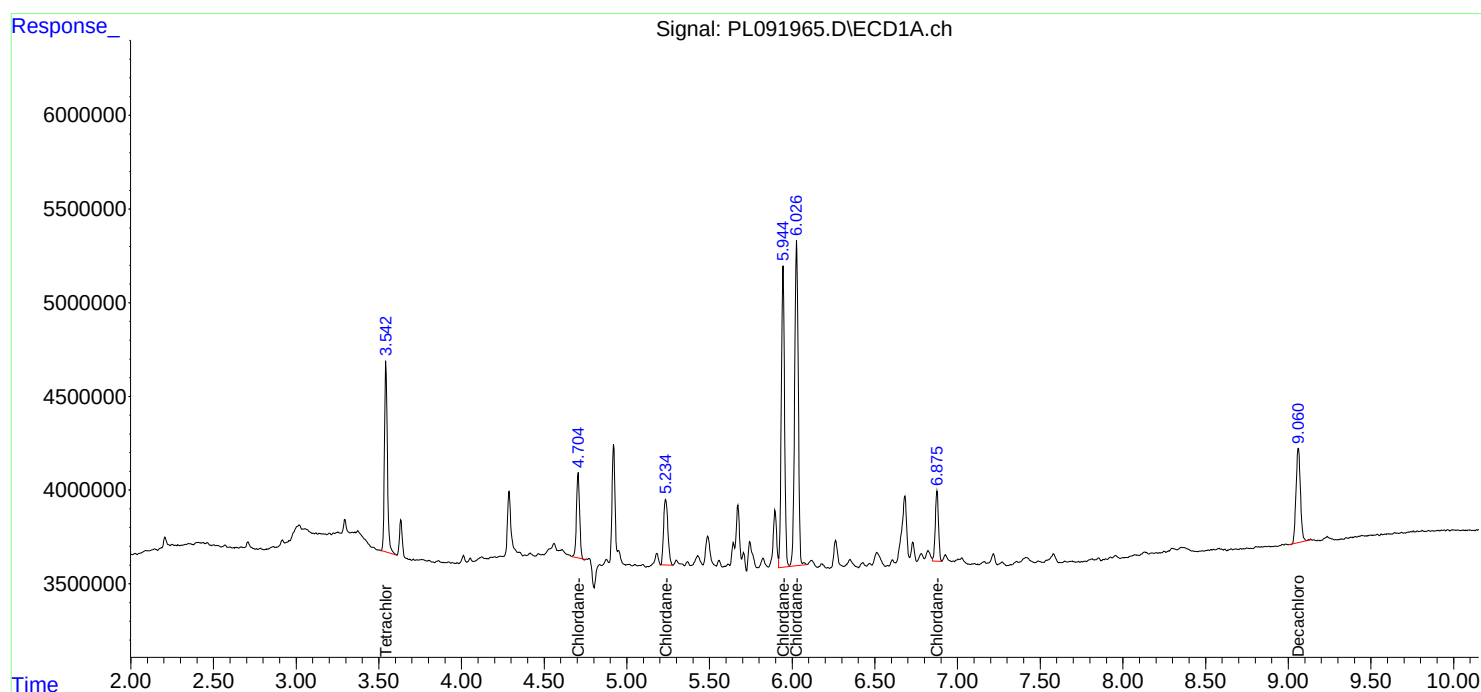
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

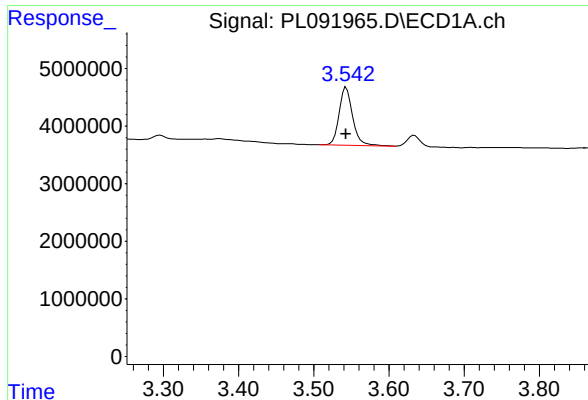
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
Data File : PL091965.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Sep 2024 13:33  
Operator : AR\AJ  
Sample : PCHLORICC050  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 23 14:01:00 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 14:00:52 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

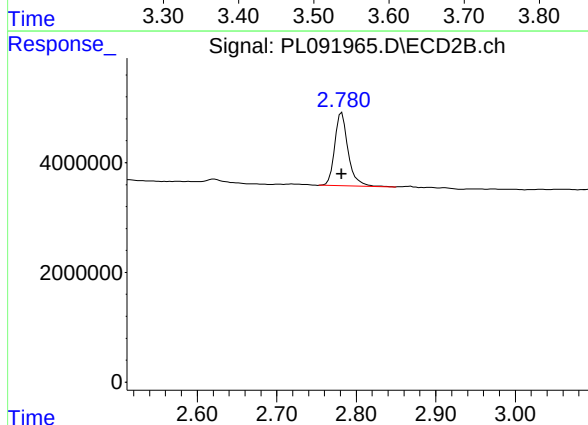




## #1 Tetrachloro-m-xylene

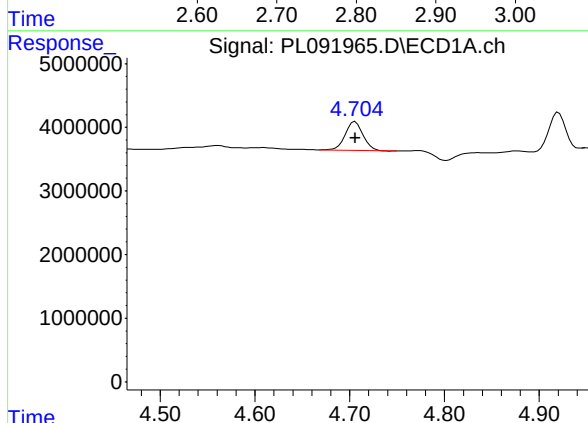
R.T.: 3.543 min  
Delta R.T.: 0.000 min  
Response: 12554280  
Conc: 5.72 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050



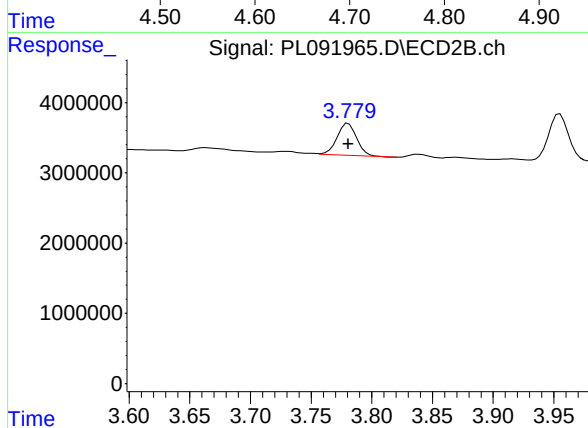
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 15601593  
Conc: 5.09 ng/ml



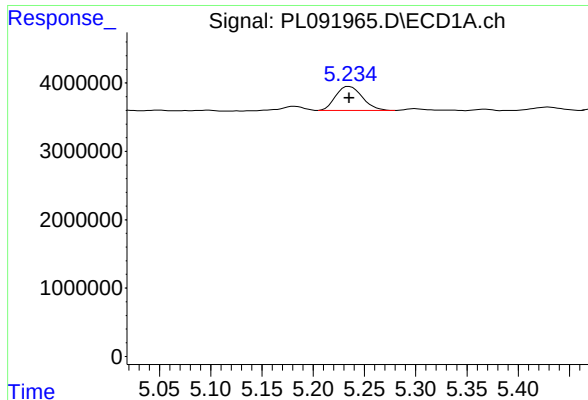
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 5848037  
Conc: 56.81 ng/ml



## #23 Chlordane-1

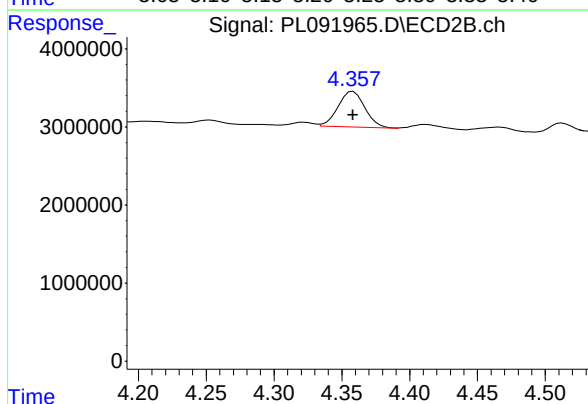
R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 5129488  
Conc: 51.30 ng/ml



#24 Chlordane-2

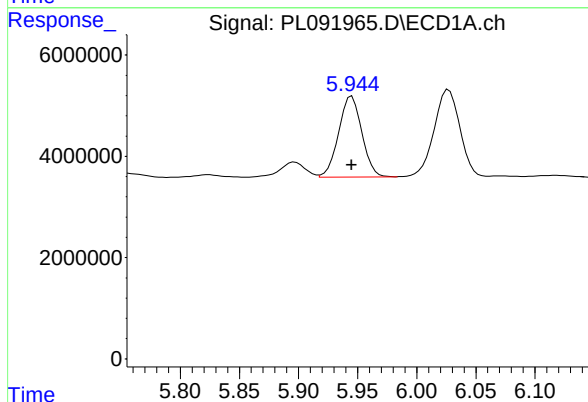
R.T.: 5.235 min  
Delta R.T.: 0.000 min  
Response: 6358281  
Conc: 59.29 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050



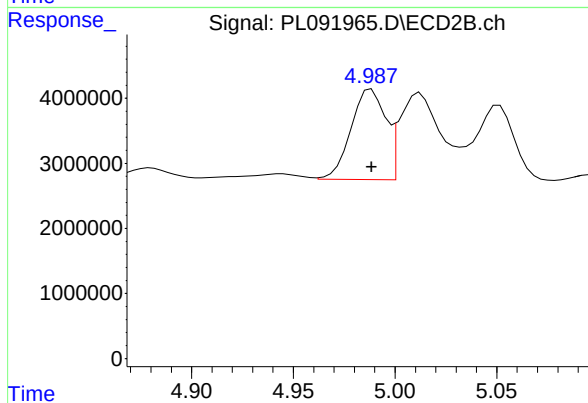
#24 Chlordane-2

R.T.: 4.358 min  
Delta R.T.: 0.000 min  
Response: 6235547  
Conc: 55.56 ng/ml



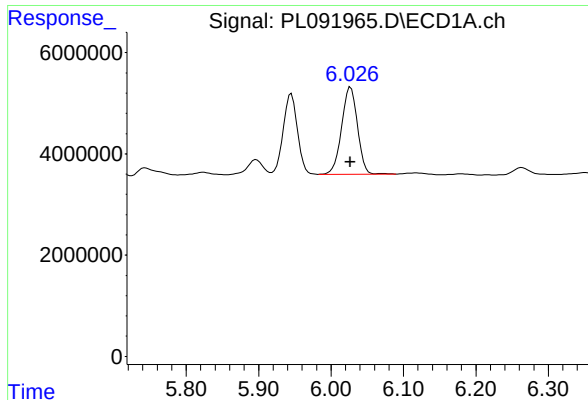
#25 Chlordane-3

R.T.: 5.945 min  
Delta R.T.: 0.000 min  
Response: 21904289  
Conc: 58.48 ng/ml



#25 Chlordane-3

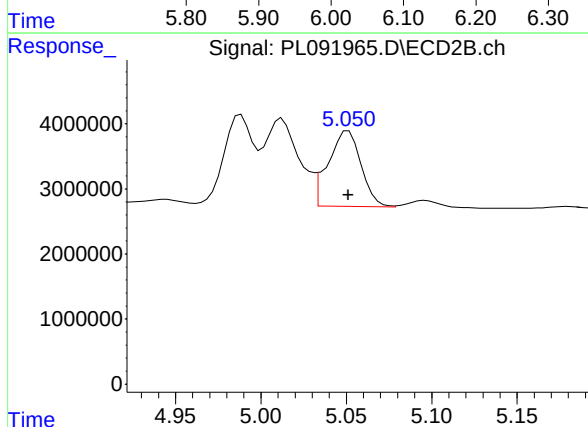
R.T.: 4.988 min  
Delta R.T.: 0.000 min  
Response: 16475009  
Conc: 49.74 ng/ml



#26 Chlordane-4

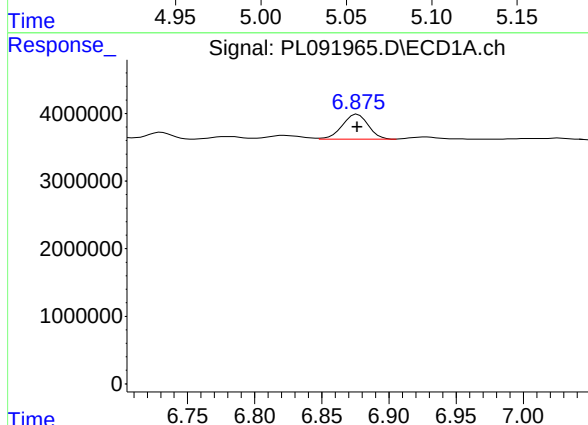
R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 26227789  
Conc: 57.92 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050



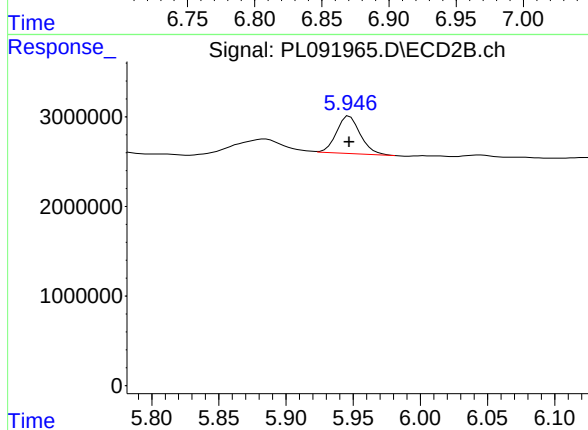
#26 Chlordane-4

R.T.: 5.051 min  
Delta R.T.: 0.000 min  
Response: 15610281  
Conc: 49.20 ng/ml



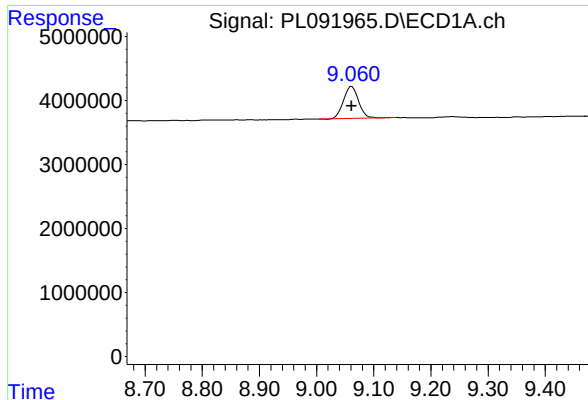
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 4967859  
Conc: 56.96 ng/ml



#27 Chlordane-5

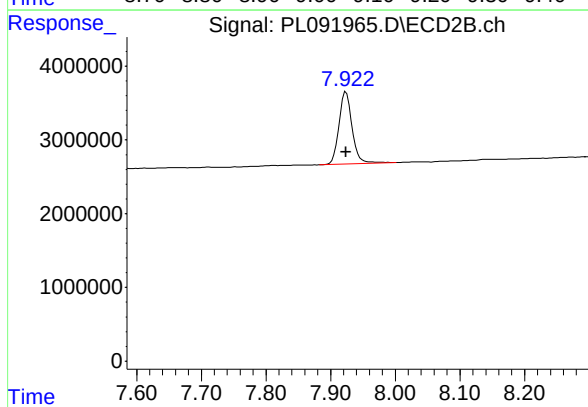
R.T.: 5.947 min  
Delta R.T.: 0.000 min  
Response: 5129055  
Conc: 47.29 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min  
Delta R.T.: 0.000 min  
Response: 9288203  
Conc: 5.74 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORICC050



#28 Decachlorobiphenyl

R.T.: 7.924 min  
Delta R.T.: 0.000 min  
Response: 13790570  
Conc: 5.52 ng/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
 Data File : PL091972.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Sep 2024 15:20  
 Operator : AR\AJ  
 Sample : PCHLORICV500  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 ICVPL092324

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 23 16:42:47 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 16:41:55 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml   |
|-----------------------------|-------|-------|----------|----------|---------|---------|
| -----                       |       |       |          |          |         |         |
| System Monitoring Compounds |       |       |          |          |         |         |
| 1) SA Tetrachlo...          | 3.544 | 2.782 | 106.0E6  | 152.5E6  | 48.293  | 49.786  |
| 28) SA Decachlor...         | 9.061 | 7.924 | 78307449 | 122.8E6  | 48.429  | 49.154  |
| Target Compounds            |       |       |          |          |         |         |
| 23) Chlordane-1             | 4.706 | 3.781 | 48433111 | 49506810 | 472.544 | 495.163 |
| 24) Chlordane-2             | 5.236 | 4.359 | 51223526 | 55177128 | 477.624 | 491.661 |
| 25) Chlordane-3             | 5.946 | 4.989 | 177.0E6  | 165.6E6  | 472.503 | 499.985 |
| 26) Chlordane-4             | 6.028 | 5.052 | 215.1E6  | 156.2E6  | 474.993 | 492.258 |
| 27) Chlordane-5             | 6.877 | 5.948 | 42165256 | 54383336 | 483.464 | 501.463 |
| -----                       |       |       |          |          |         |         |

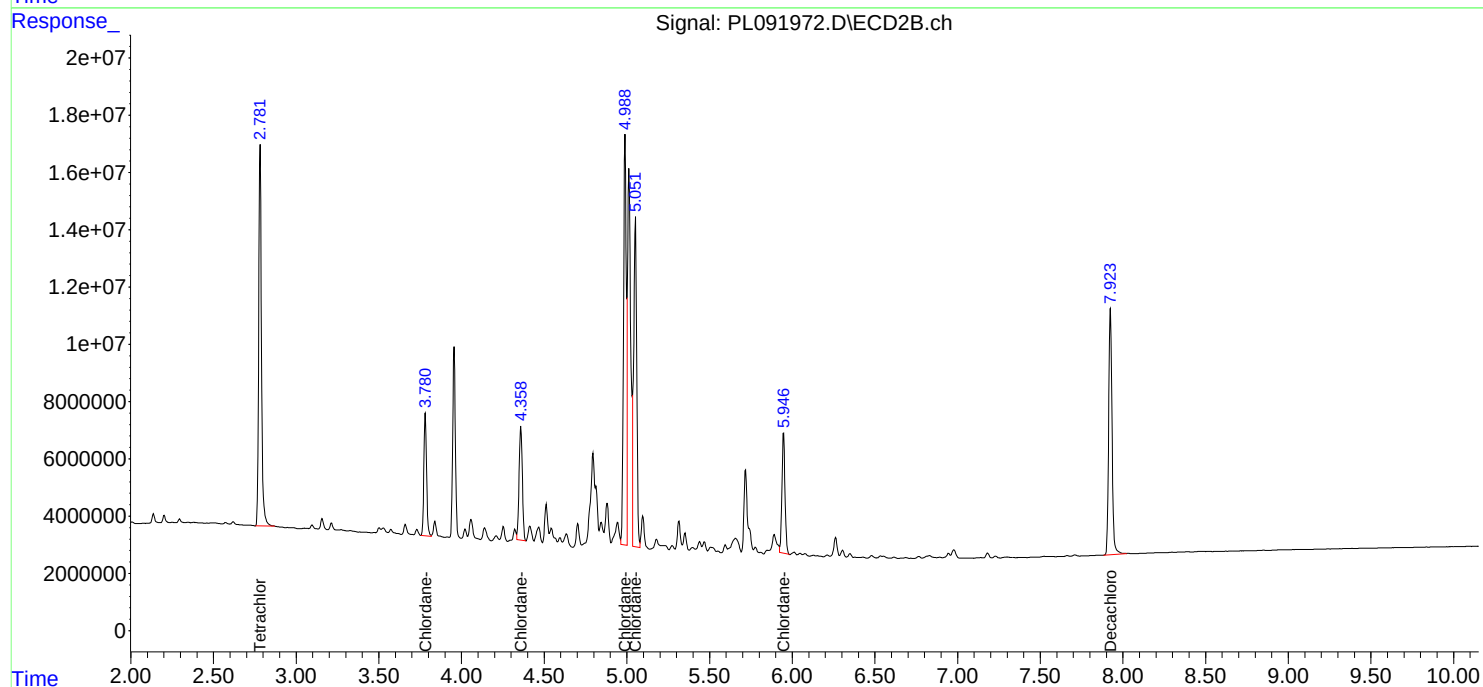
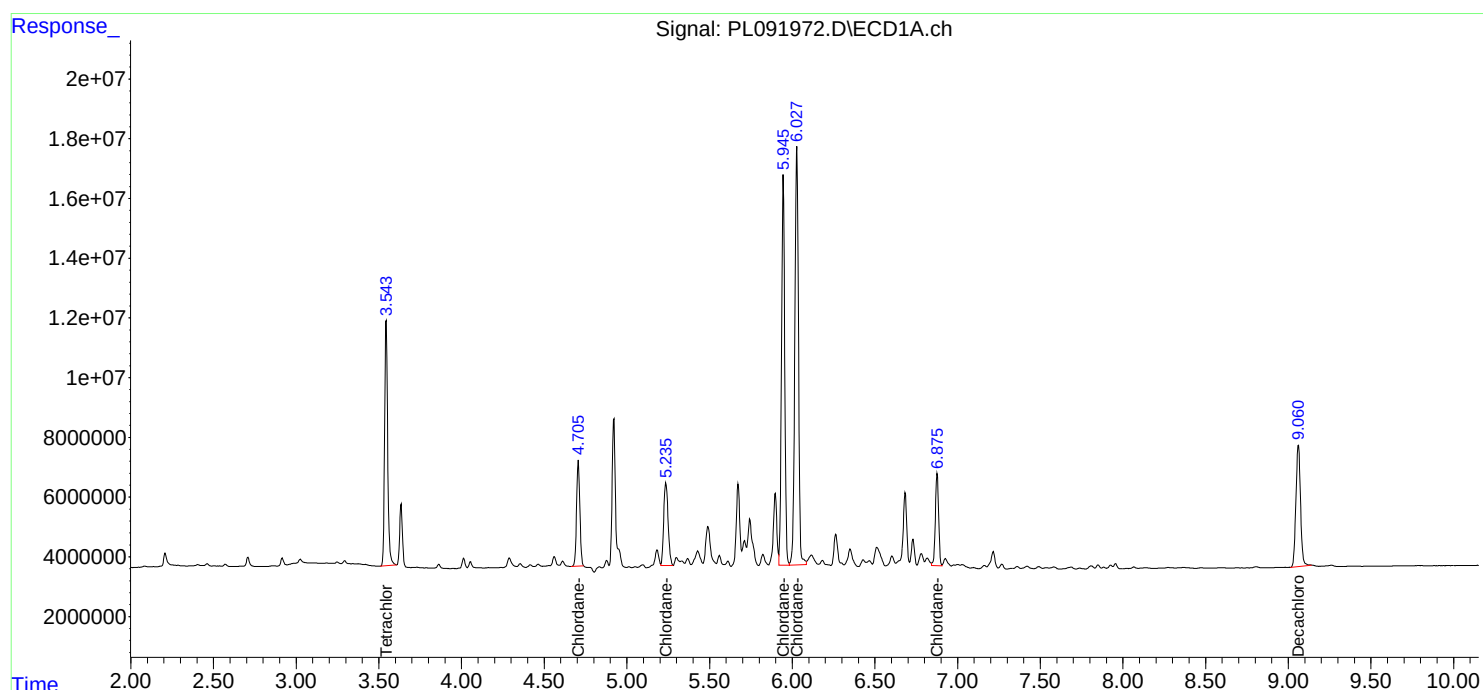
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
Data File : PL091972.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Sep 2024 15:20  
Operator : AR\AJ  
Sample : PCHLORICV500  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

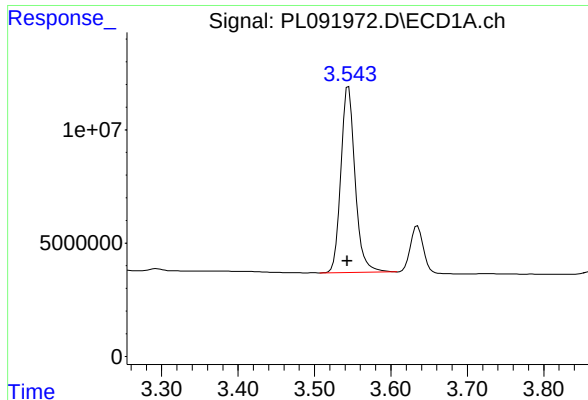
Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL092324

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 23 16:42:47 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 16:41:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



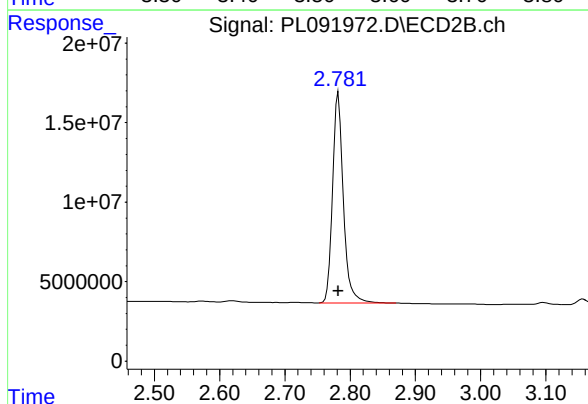




## #1 Tetrachloro-m-xylene

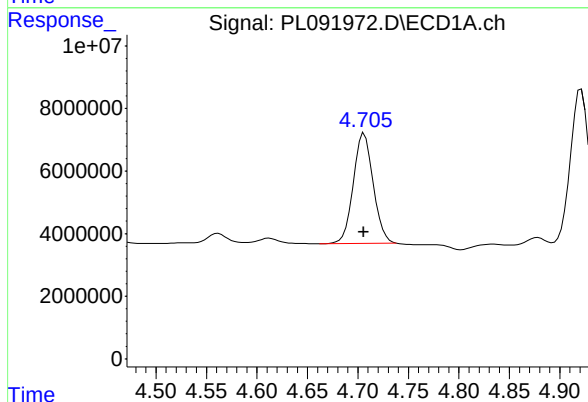
R.T.: 3.544 min  
Delta R.T.: 0.001 min  
Response: 106020958  
Conc: 48.29 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL092324



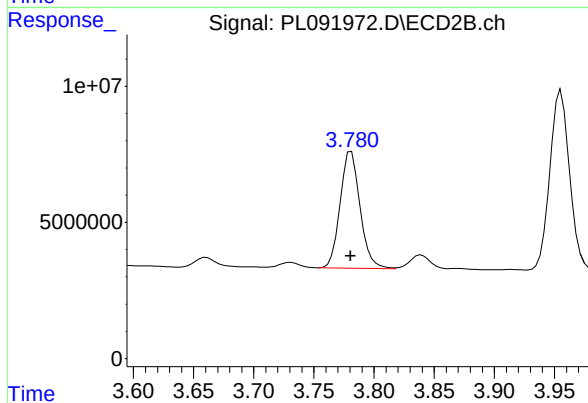
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 152495345  
Conc: 49.79 ng/ml



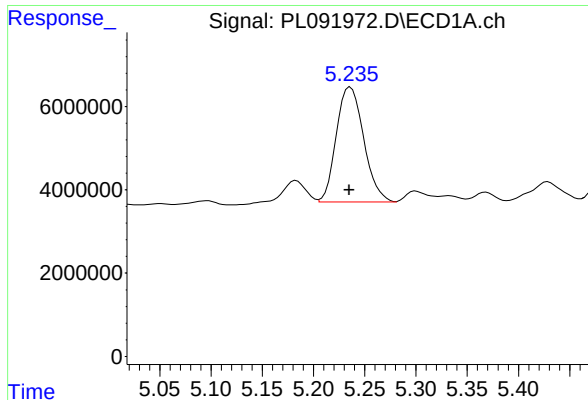
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 48433111  
Conc: 472.54 ng/ml



## #23 Chlordane-1

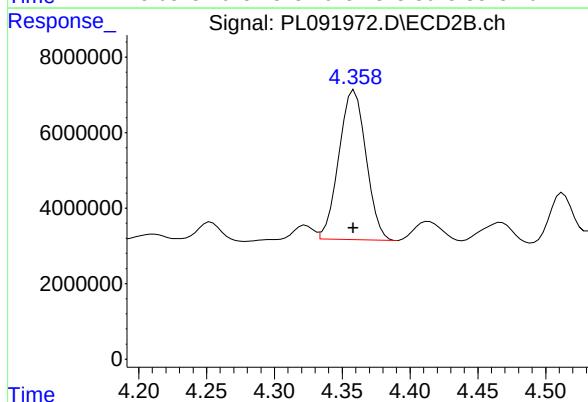
R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 49506810  
Conc: 495.16 ng/ml



#24 Chlordane-2

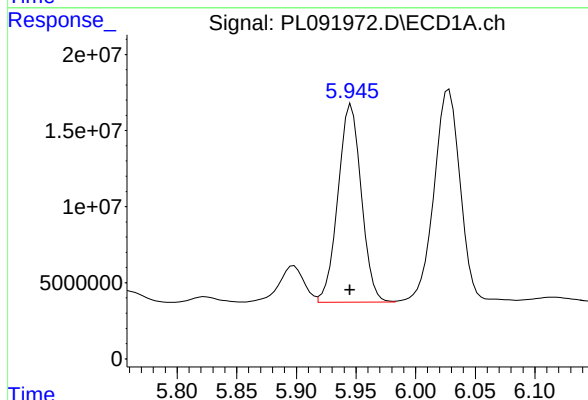
R.T.: 5.236 min  
Delta R.T.: 0.000 min  
Response: 51223526  
Conc: 477.62 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL092324



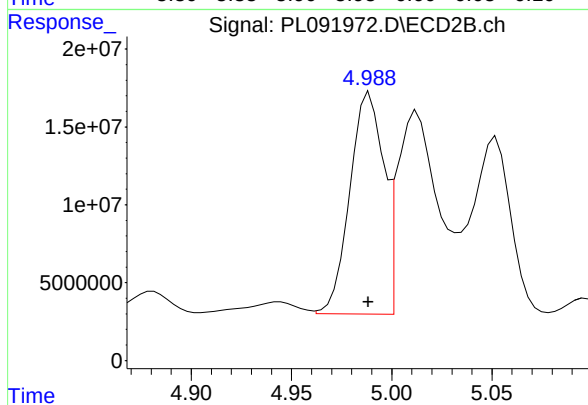
#24 Chlordane-2

R.T.: 4.359 min  
Delta R.T.: 0.000 min  
Response: 55177128  
Conc: 491.66 ng/ml



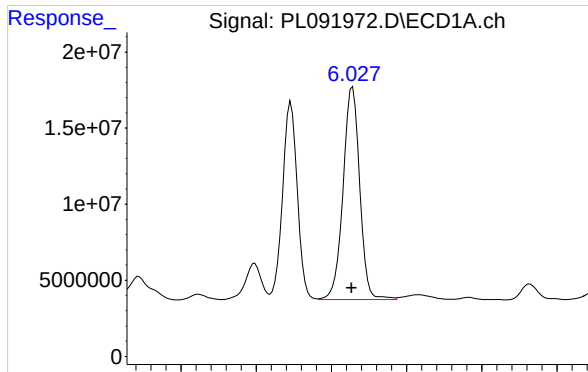
#25 Chlordane-3

R.T.: 5.946 min  
Delta R.T.: 0.000 min  
Response: 176988585  
Conc: 472.50 ng/ml



#25 Chlordane-3

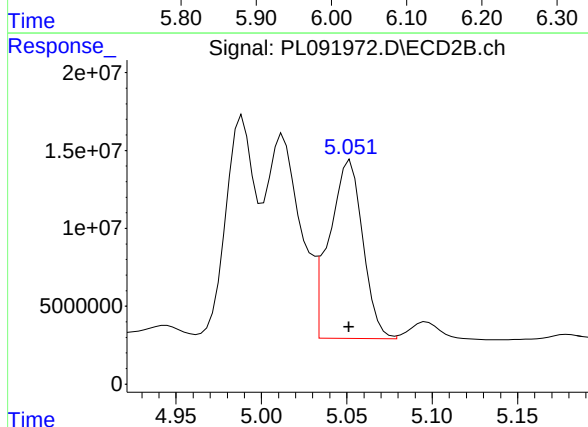
R.T.: 4.989 min  
Delta R.T.: 0.000 min  
Response: 165609265  
Conc: 499.99 ng/ml



#26 Chlordane-4

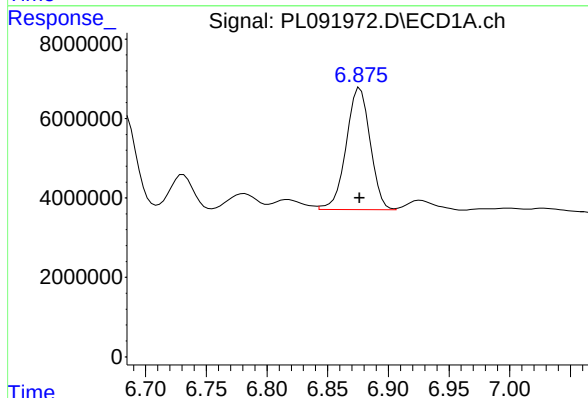
R.T.: 6.028 min  
Delta R.T.: 0.001 min  
Response: 215098949  
Conc: 474.99 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL092324



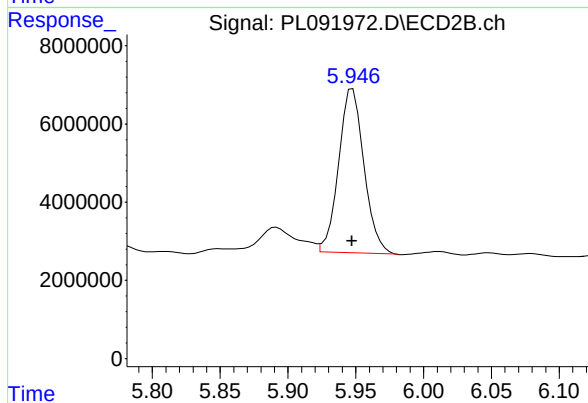
#26 Chlordane-4

R.T.: 5.052 min  
Delta R.T.: 0.000 min  
Response: 156184672  
Conc: 492.26 ng/ml



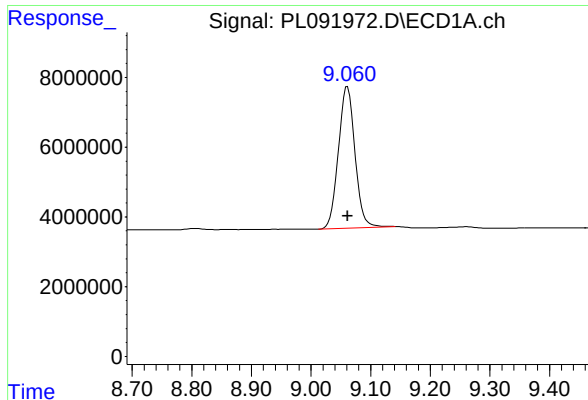
#27 Chlordane-5

R.T.: 6.877 min  
Delta R.T.: 0.000 min  
Response: 42165256  
Conc: 483.46 ng/ml



#27 Chlordane-5

R.T.: 5.948 min  
Delta R.T.: 0.000 min  
Response: 54383336  
Conc: 501.46 ng/ml

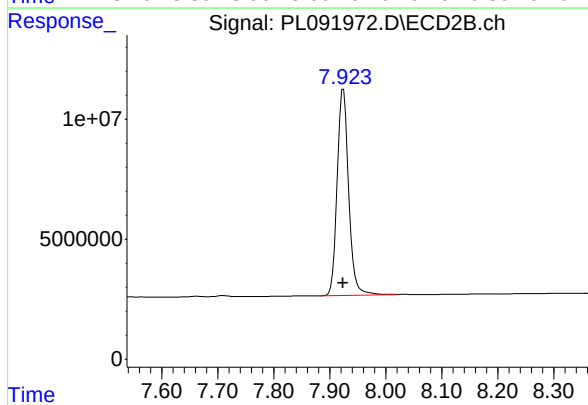


#28 Decachlorobiphenyl

ICAL Form

R.T.: 9.061 min  
Delta R.T.: 0.000 min  
Response: 78307449  
Conc: 48.43 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
ICVPL092324



#28 Decachlorobiphenyl

R.T.: 7.924 min  
Delta R.T.: 0.000 min  
Response: 122848008  
Conc: 49.15 ng/ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/10/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 11:56 Initial Calibration Time(s): 16:39 17:33

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

| COMPOUND             | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| Chlordane-1 (1)      | 4.71       | 4.71      | 4.61      | 4.81 | 0.00       |
| Chlordane-2 (2)      | 5.24       | 5.24      | 5.14      | 5.34 | 0.00       |
| Chlordane-3 (3)      | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Chlordane-4 (4)      | 6.03       | 6.03      | 5.93      | 6.13 | 0.00       |
| Chlordane-5 (5)      | 6.88       | 6.88      | 6.78      | 6.98 | 0.00       |
| Decachlorobiphenyl   | 9.06       | 9.06      | 8.96      | 9.16 | 0.00       |
| Tetrachloro-m-xylene | 3.55       | 3.54      | 3.44      | 3.64 | -0.01      |



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Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/10/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 11:56 Initial Calibration Time(s): 16:39 17:33

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

| COMPOUND             | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| Chlordane-1 (1)      | 3.78       | 3.78      | 3.68      | 3.88 | 0.00       |
| Chlordane-2 (2)      | 4.36       | 4.36      | 4.26      | 4.46 | 0.00       |
| Chlordane-3 (3)      | 4.99       | 4.99      | 4.89      | 5.09 | 0.00       |
| Chlordane-4 (4)      | 5.05       | 5.05      | 4.95      | 5.15 | 0.00       |
| Chlordane-5 (5)      | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Decachlorobiphenyl   | 7.93       | 7.93      | 7.83      | 8.03 | 0.00       |
| Tetrachloro-m-xylene | 2.78       | 2.78      | 2.68      | 2.88 | 0.00       |



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### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL01 Date Analyzed: 09/10/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091607.D Time Analyzed: 11:56

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| Chlordane-1          | 4.707 | 4.606     | 4.806 | 461.790            | 500.000           | -7.6  |
| Chlordane-2          | 5.238 | 5.136     | 5.336 | 474.810            | 500.000           | -5.0  |
| Chlordane-3          | 5.946 | 5.845     | 6.045 | 449.540            | 500.000           | -10.1 |
| Chlordane-4          | 6.030 | 5.927     | 6.127 | 473.290            | 500.000           | -5.3  |
| Chlordane-5          | 6.879 | 6.776     | 6.976 | 433.120            | 500.000           | -13.4 |
| Decachlorobiphenyl   | 9.061 | 8.960     | 9.160 | 40.970             | 50.000            | -18.1 |
| Tetrachloro-m-xylene | 3.545 | 3.444     | 3.644 | 46.930             | 50.000            | -6.1  |



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### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL01 Date Analyzed: 09/10/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091607.D Time Analyzed: 11:56

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|----------------------|-------|-----------|-------|--------------------|-------------------|------|
|                      |       | FROM      | TO    |                    |                   |      |
| Chlordane-1          | 3.781 | 3.682     | 3.882 | 478.360            | 500.000           | -4.3 |
| Chlordane-2          | 4.359 | 4.260     | 4.460 | 480.710            | 500.000           | -3.9 |
| Chlordane-3          | 4.990 | 4.890     | 5.090 | 470.290            | 500.000           | -5.9 |
| Chlordane-4          | 5.053 | 4.953     | 5.153 | 496.270            | 500.000           | -0.7 |
| Chlordane-5          | 5.949 | 5.848     | 6.048 | 497.570            | 500.000           | -0.5 |
| Decachlorobiphenyl   | 7.925 | 7.825     | 8.025 | 46.620             | 50.000            | -6.8 |
| Tetrachloro-m-xylene | 2.781 | 2.683     | 2.883 | 59.050             | 50.000            | 18.1 |



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091024\  
 Data File : PL091607.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 10 Sep 2024 11:56  
 Operator : AR\AJ  
 Sample : PCHLORCCC500  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORCCC500

Manual Integrations  
**APPROVED**

Reviewed By :Abdul Mirza 09/11/2024  
 Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 11 05:31:20 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 19:26:36 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml    | ng/ml    |
|-----------------------------|-------|-------|----------|----------|----------|----------|
| -----                       |       |       |          |          |          |          |
| System Monitoring Compounds |       |       |          |          |          |          |
| 1) SA Tetrachlo...          | 3.545 | 2.781 | 73150109 | 110.4E6  | 46.933   | 59.052 # |
| 28) SA Decachlor...         | 9.061 | 7.925 | 49790829 | 86090870 | 40.969   | 46.623   |
| Target Compounds            |       |       |          |          |          |          |
| 23) Chlordane-1             | 4.707 | 3.781 | 28758240 | 33277095 | 461.786  | 478.361  |
| 24) Chlordane-2             | 5.238 | 4.359 | 36504744 | 36029897 | 474.814  | 480.709  |
| 25) Chlordane-3             | 5.946 | 4.990 | 115.5E6  | 109.6E6  | 449.544m | 470.286  |
| 26) Chlordane-4             | 6.030 | 5.053 | 140.2E6  | 103.5E6  | 473.294  | 496.275  |
| 27) Chlordane-5             | 6.879 | 5.949 | 24721500 | 35655954 | 433.124  | 497.567  |
| -----                       |       |       |          |          |          |          |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091024\  
Data File : PL091607.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 10 Sep 2024 11:56  
Operator : AR\AJ  
Sample : PCHLORCCC500  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

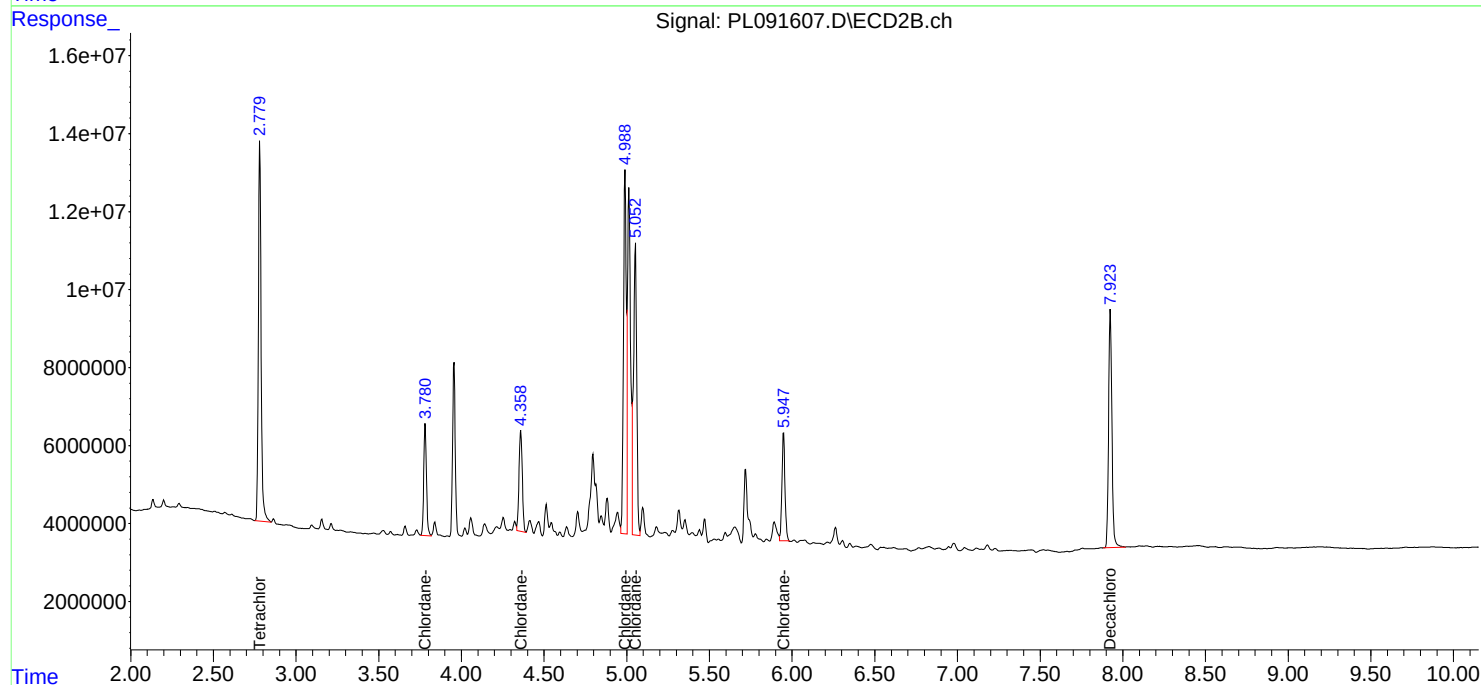
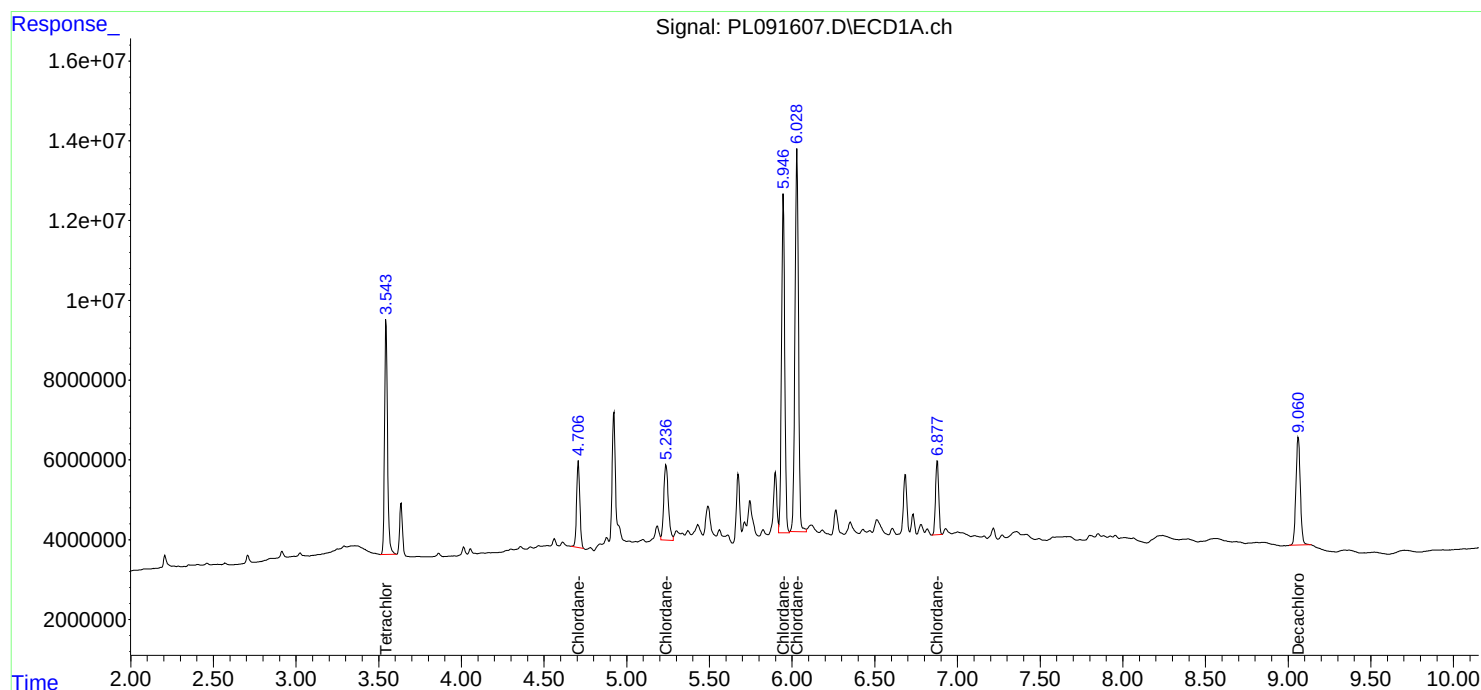
Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

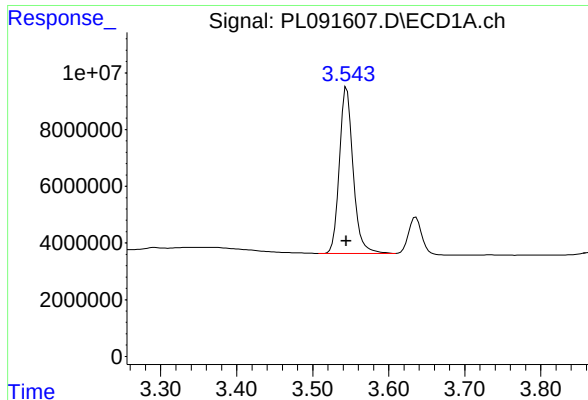
Manual Integrations  
**APPROVED**

Reviewed By : Abdul Mirza 09/11/2024  
Supervised By : Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 11 05:31:20 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





## #1 Tetrachloro-m-xylene

R.T.: 3.545 min  
Delta R.T.: 0.000 min  
Response: 73150109  
Conc: 46.93 ng/ml

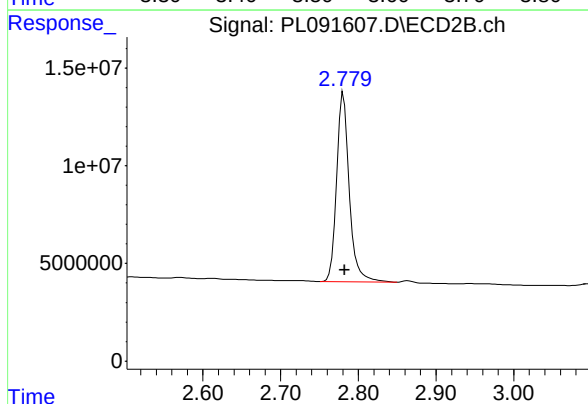
Instrument :

ECD\_L

ClientSampleId :  
PCHLORCCC500

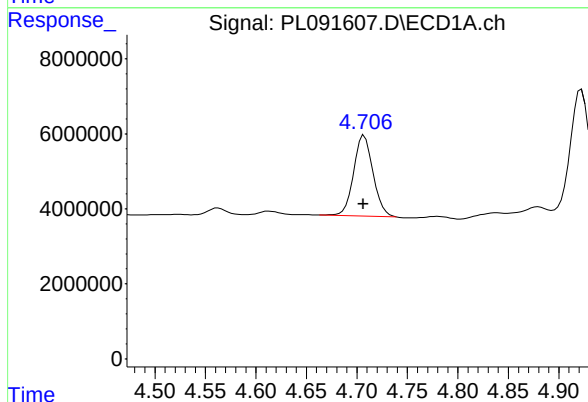
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



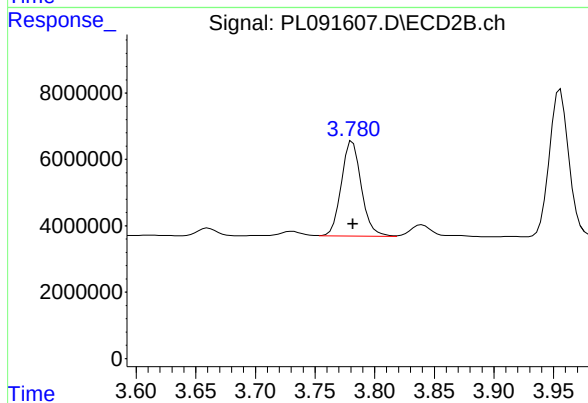
## #1 Tetrachloro-m-xylene

R.T.: 2.781 min  
Delta R.T.: -0.002 min  
Response: 110445433  
Conc: 59.05 ng/ml



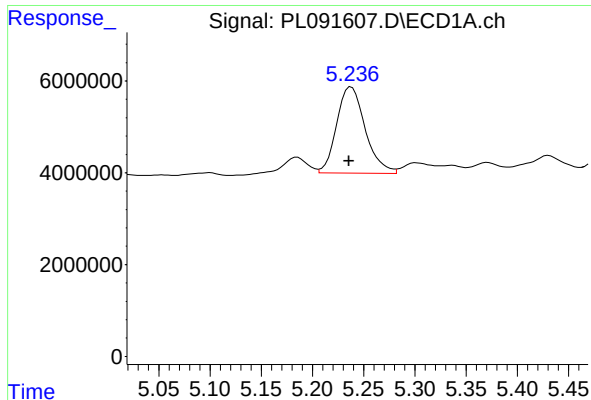
## #23 Chlordane-1

R.T.: 4.707 min  
Delta R.T.: 0.001 min  
Response: 28758240  
Conc: 461.79 ng/ml



## #23 Chlordane-1

R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 33277095  
Conc: 478.36 ng/ml



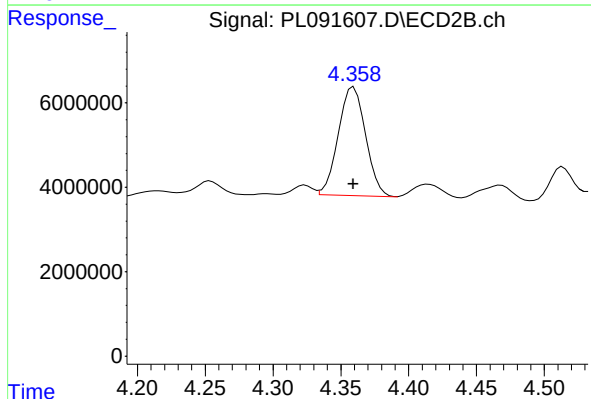
#24 Chlordane-2

R.T.: 5.238 min  
Delta R.T.: 0.002 min  
Response: 36504744  
Conc: 474.81 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

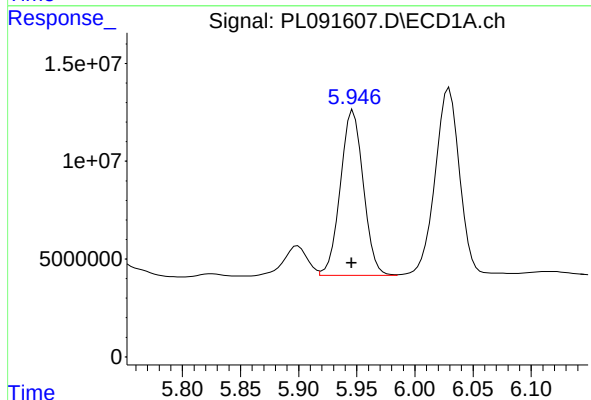
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



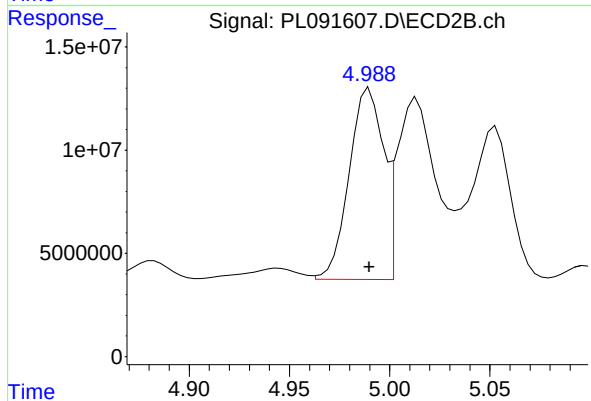
#24 Chlordane-2

R.T.: 4.359 min  
Delta R.T.: 0.000 min  
Response: 36029897  
Conc: 480.71 ng/ml



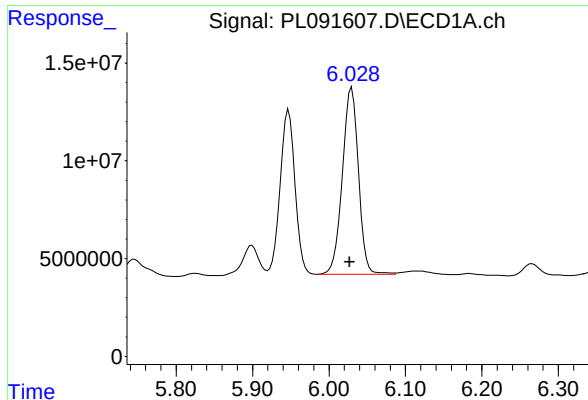
#25 Chlordane-3

R.T.: 5.946 min  
Delta R.T.: 0.000 min  
Response: 115487573  
Conc: 449.54 ng/ml m



#25 Chlordane-3

R.T.: 4.990 min  
Delta R.T.: 0.000 min  
Response: 109642957  
Conc: 470.29 ng/ml



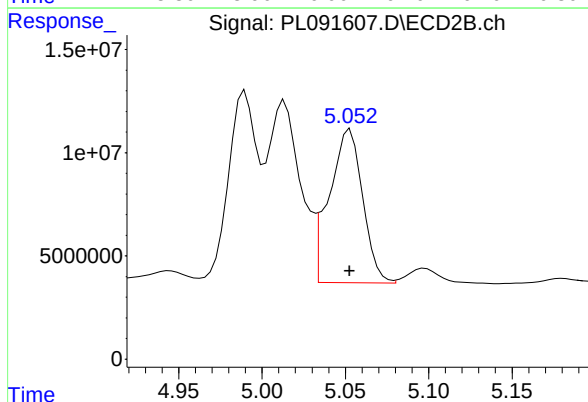
#26 Chlordane-4

R.T.: 6.030 min  
Delta R.T.: 0.002 min  
Response: 140169092  
Conc: 473.29 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

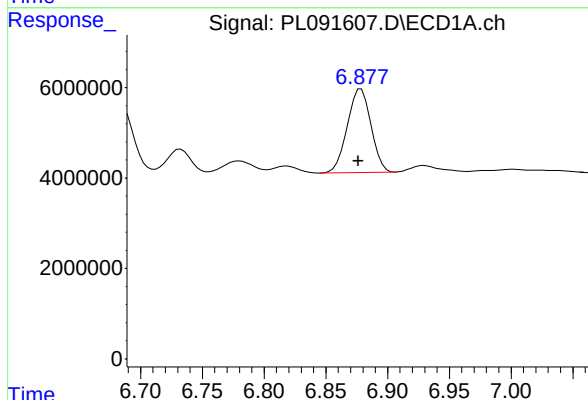
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



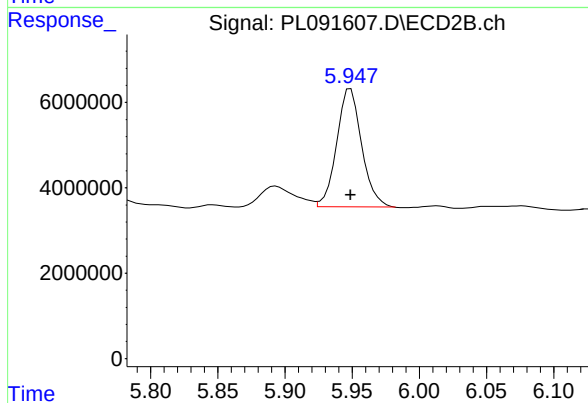
#26 Chlordane-4

R.T.: 5.053 min  
Delta R.T.: 0.000 min  
Response: 103489607  
Conc: 496.27 ng/ml



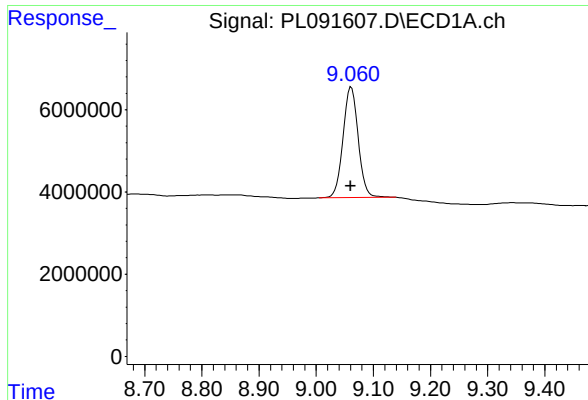
#27 Chlordane-5

R.T.: 6.879 min  
Delta R.T.: 0.002 min  
Response: 24721500  
Conc: 433.12 ng/ml



#27 Chlordane-5

R.T.: 5.949 min  
Delta R.T.: 0.000 min  
Response: 35655954  
Conc: 497.57 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.061 min  
Delta R.T.: 0.000 min  
Response: 49790829  
Conc: 40.97 ng/ml

Instrument :

ECD\_L

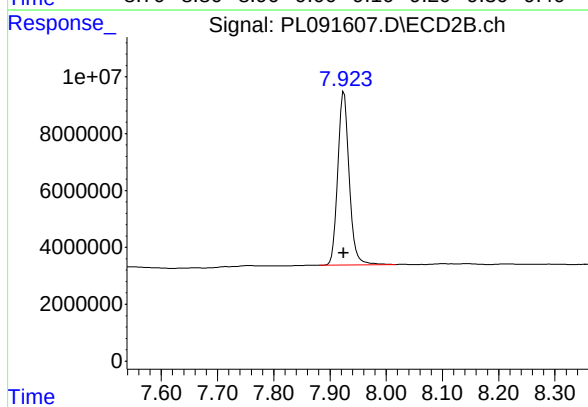
ClientSampleId :

PCHLORCCC500

## Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



#28 Decachlorobiphenyl

R.T.: 7.925 min  
Delta R.T.: 0.000 min  
Response: 86090870  
Conc: 46.62 ng/ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/10/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 17:24 Initial Calibration Time(s): 16:39 17:33

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

| COMPOUND             | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| Chlordane-1 (1)      | 4.70       | 4.71      | 4.61      | 4.81 | 0.01       |
| Chlordane-2 (2)      | 5.23       | 5.24      | 5.14      | 5.34 | 0.01       |
| Chlordane-3 (3)      | 5.94       | 5.95      | 5.85      | 6.05 | 0.01       |
| Chlordane-4 (4)      | 6.03       | 6.03      | 5.93      | 6.13 | 0.00       |
| Chlordane-5 (5)      | 6.87       | 6.88      | 6.78      | 6.98 | 0.01       |
| Decachlorobiphenyl   | 9.06       | 9.06      | 8.96      | 9.16 | 0.00       |
| Tetrachloro-m-xylene | 3.54       | 3.54      | 3.44      | 3.64 | 0.00       |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/10/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 17:24 Initial Calibration Time(s): 16:39 17:33

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

| COMPOUND             | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| Chlordane-1 (1)      | 3.78       | 3.78      | 3.68      | 3.88 | 0.00       |
| Chlordane-2 (2)      | 4.36       | 4.36      | 4.26      | 4.46 | 0.00       |
| Chlordane-3 (3)      | 4.99       | 4.99      | 4.89      | 5.09 | 0.00       |
| Chlordane-4 (4)      | 5.05       | 5.05      | 4.95      | 5.15 | 0.00       |
| Chlordane-5 (5)      | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Decachlorobiphenyl   | 7.92       | 7.93      | 7.83      | 8.03 | 0.01       |
| Tetrachloro-m-xylene | 2.78       | 2.78      | 2.68      | 2.88 | 0.00       |





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL02 Date Analyzed: 09/10/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091625.D Time Analyzed: 17:24

| COMPOUND             | RT    | RT WINDOW<br>FROM TO |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|----------------------|-------|----------------------|-------|--------------------|-------------------|------|
| Chlordane-1          | 4.703 | 4.606                | 4.806 | 523.440            | 500.000           | 4.7  |
| Chlordane-2          | 5.233 | 5.136                | 5.336 | 496.640            | 500.000           | -0.7 |
| Chlordane-3          | 5.941 | 5.845                | 6.045 | 489.490            | 500.000           | -2.1 |
| Chlordane-4          | 6.025 | 5.927                | 6.127 | 508.950            | 500.000           | 1.8  |
| Chlordane-5          | 6.873 | 6.776                | 6.976 | 515.610            | 500.000           | 3.1  |
| Decachlorobiphenyl   | 9.056 | 8.960                | 9.160 | 47.380             | 50.000            | -5.2 |
| Tetrachloro-m-xylene | 3.542 | 3.444                | 3.644 | 48.960             | 50.000            | -2.1 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL02 Date Analyzed: 09/10/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091625.D Time Analyzed: 17:24

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|----------------------|-------|-----------|-------|--------------------|-------------------|------|
|                      |       | FROM      | TO    |                    |                   |      |
| Chlordane-1          | 3.779 | 3.682     | 3.882 | 485.910            | 500.000           | -2.8 |
| Chlordane-2          | 4.356 | 4.260     | 4.460 | 492.910            | 500.000           | -1.4 |
| Chlordane-3          | 4.986 | 4.890     | 5.090 | 482.230            | 500.000           | -3.6 |
| Chlordane-4          | 5.049 | 4.953     | 5.153 | 506.570            | 500.000           | 1.3  |
| Chlordane-5          | 5.945 | 5.848     | 6.048 | 513.360            | 500.000           | 2.7  |
| Decachlorobiphenyl   | 7.921 | 7.825     | 8.025 | 48.350             | 50.000            | -3.3 |
| Tetrachloro-m-xylene | 2.779 | 2.683     | 2.883 | 59.110             | 50.000            | 18.2 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091024\  
 Data File : PL091625.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 10 Sep 2024 17:24  
 Operator : AR\AJ  
 Sample : PCHLORCCC500  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORCCC500

Manual Integrations  
**APPROVED**

Reviewed By :Abdul Mirza 09/11/2024  
 Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 11 05:37:33 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 19:26:36 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml    | ng/ml   |
|-----------------------------|-------|-------|----------|----------|----------|---------|
| -----                       |       |       |          |          |          |         |
| System Monitoring Compounds |       |       |          |          |          |         |
| 1) SA Tetrachlo...          | 3.542 | 2.779 | 76315084 | 110.6E6  | 48.964   | 59.110  |
| 28) SA Decachlor...         | 9.056 | 7.921 | 57585001 | 89275269 | 47.382   | 48.347  |
| Target Compounds            |       |       |          |          |          |         |
| 23) Chlordane-1             | 4.703 | 3.779 | 32597797 | 33802508 | 523.439  | 485.914 |
| 24) Chlordane-2             | 5.233 | 4.356 | 38183017 | 36944020 | 496.643  | 492.905 |
| 25) Chlordane-3             | 5.941 | 4.986 | 125.8E6  | 112.4E6  | 489.495m | 482.231 |
| 26) Chlordane-4             | 6.025 | 5.049 | 150.7E6  | 105.6E6  | 508.947  | 506.566 |
| 27) Chlordane-5             | 6.873 | 5.945 | 29429772 | 36787959 | 515.613  | 513.364 |
| -----                       |       |       |          |          |          |         |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091024\  
Data File : PL091625.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 10 Sep 2024 17:24  
Operator : AR\AJ  
Sample : PCHLORCCC500  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

## Instrument :

ECD\_L

## ClientSampleId :

PCHLORCCC500

## Manual Integrations

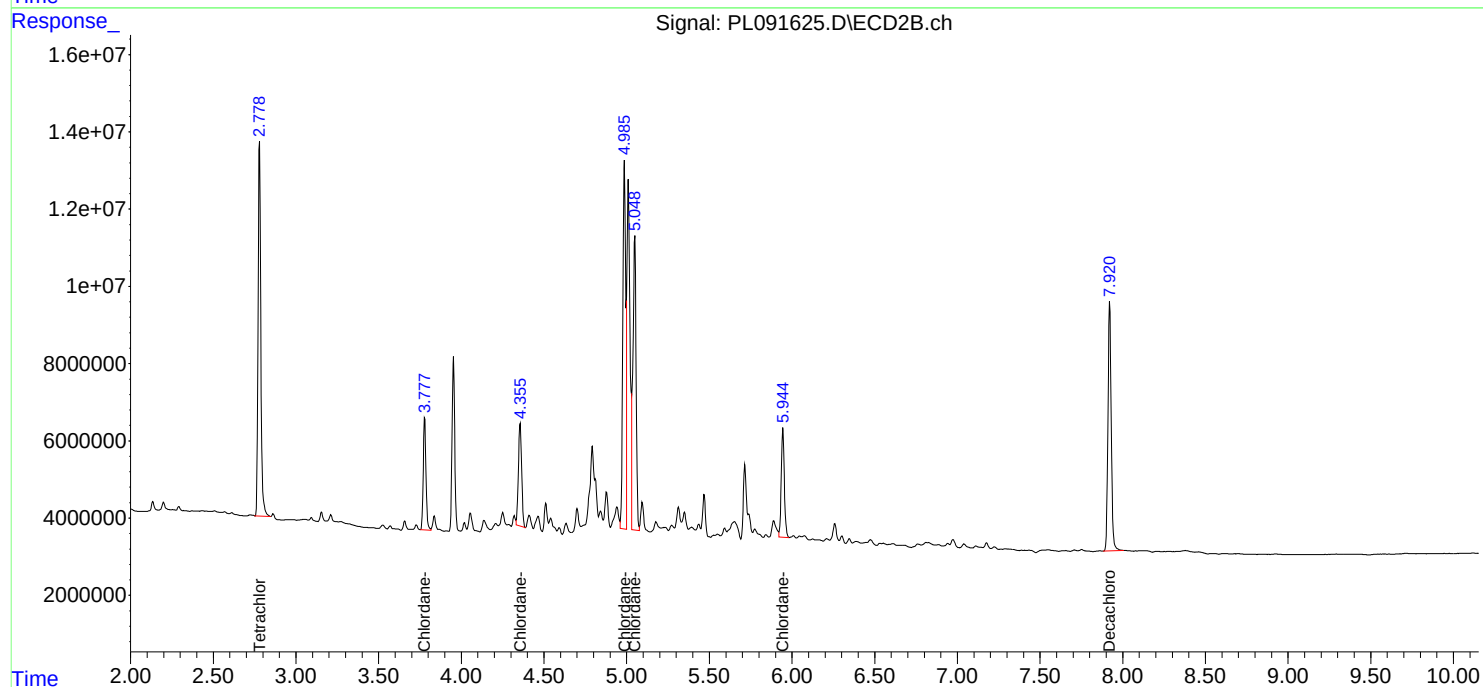
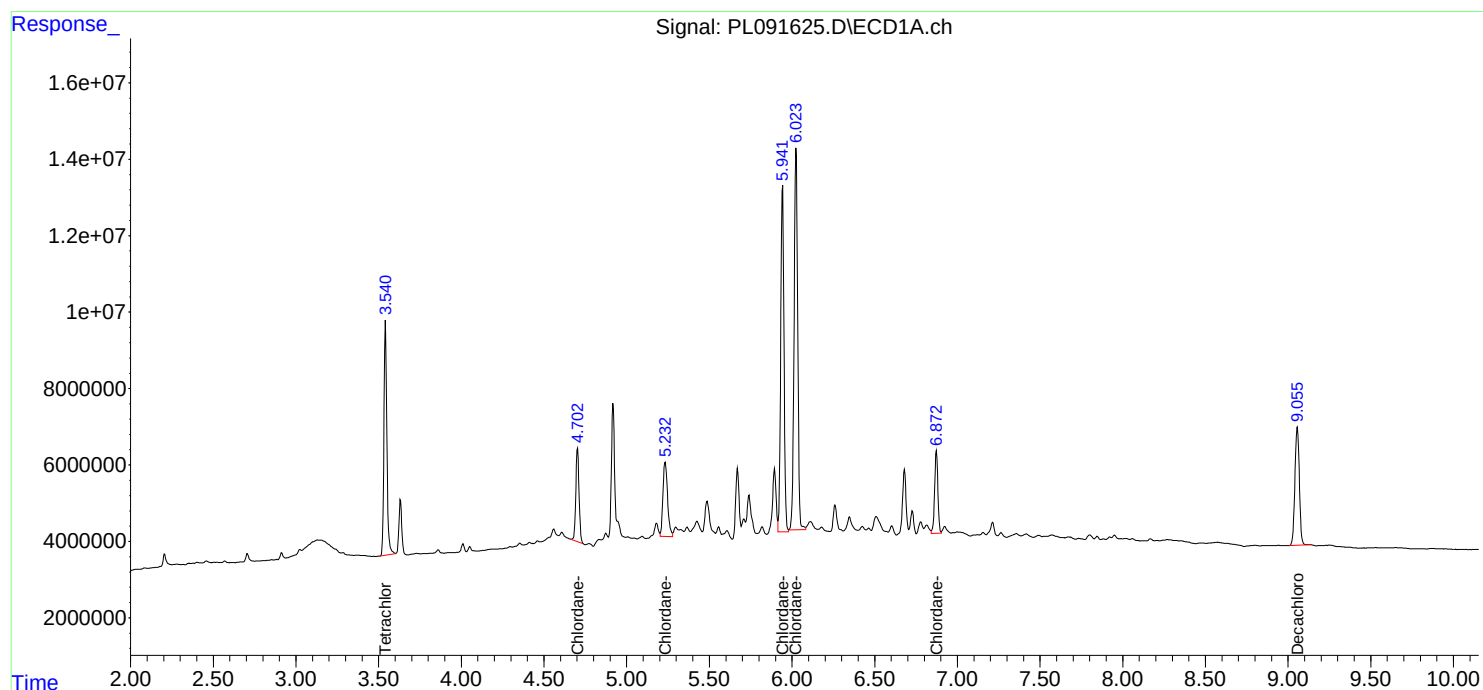
## APPROVED

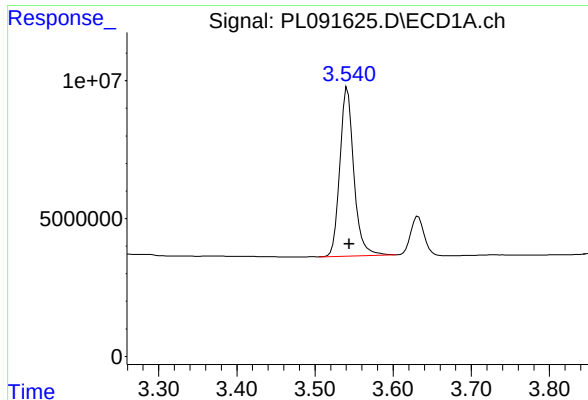
Reviewed By :Abdul Mirza 09/11/2024

Supervised By :Ankita Jodhani 09/11/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 11 05:37:33 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





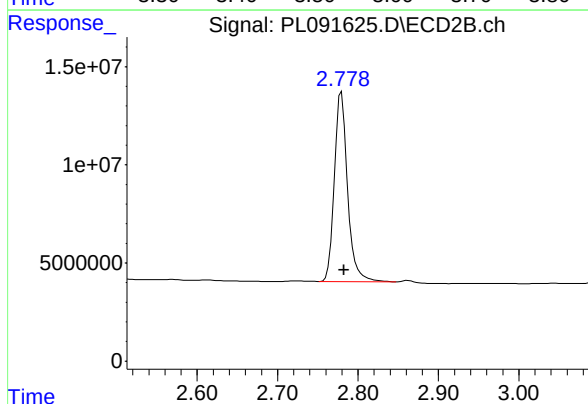
## #1 Tetrachloro-m-xylene

R.T.: 3.542 min  
Delta R.T.: -0.002 min  
Response: 76315084  
Conc: 48.96 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

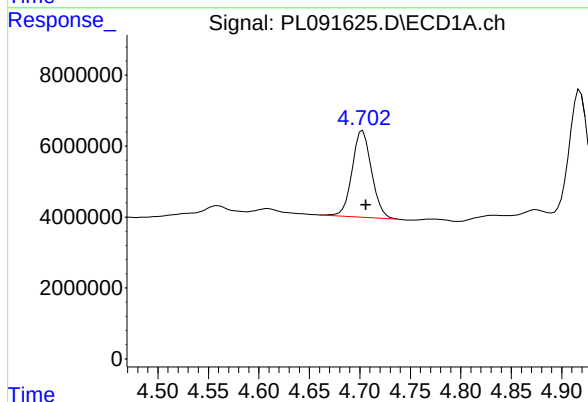
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



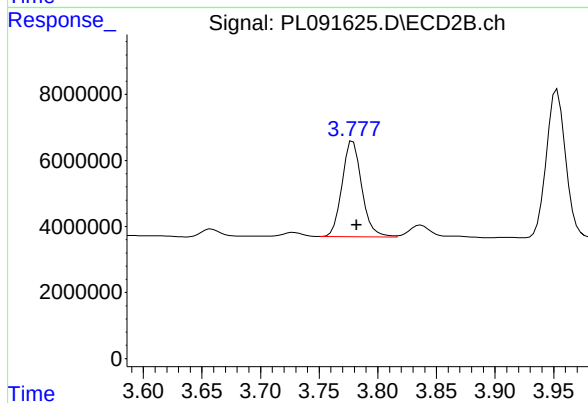
## #1 Tetrachloro-m-xylene

R.T.: 2.779 min  
Delta R.T.: -0.003 min  
Response: 110553056  
Conc: 59.11 ng/ml



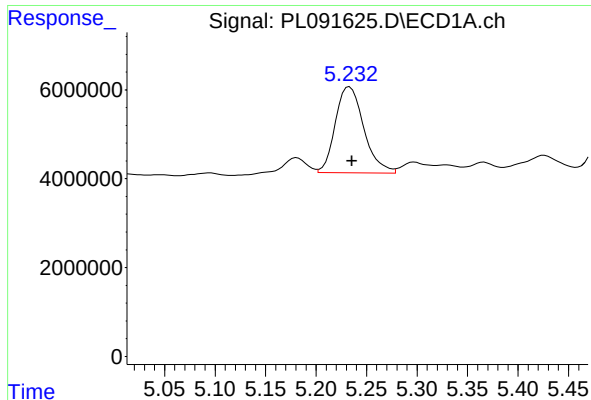
## #23 Chlordane-1

R.T.: 4.703 min  
Delta R.T.: -0.003 min  
Response: 32597797  
Conc: 523.44 ng/ml



## #23 Chlordane-1

R.T.: 3.779 min  
Delta R.T.: -0.003 min  
Response: 33802508  
Conc: 485.91 ng/ml



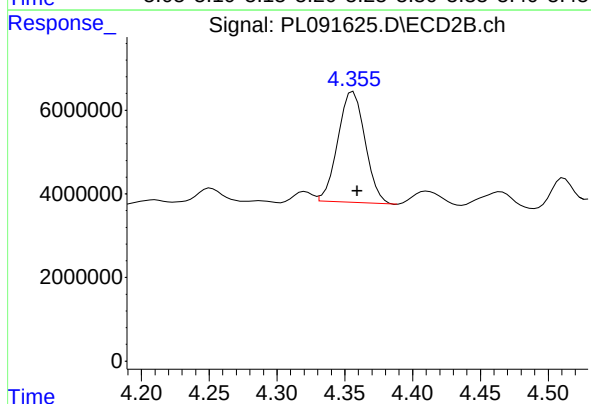
#24 Chlordane-2

R.T.: 5.233 min  
Delta R.T.: -0.002 min  
Response: 38183017  
Conc: 496.64 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

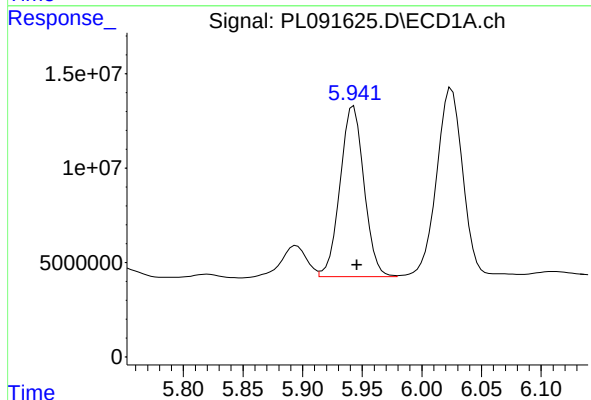
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



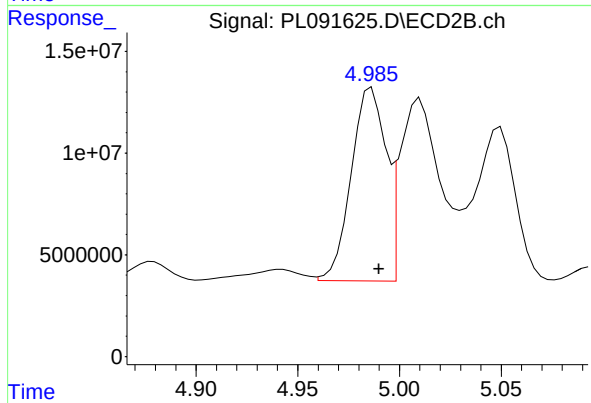
#24 Chlordane-2

R.T.: 4.356 min  
Delta R.T.: -0.003 min  
Response: 36944020  
Conc: 492.91 ng/ml



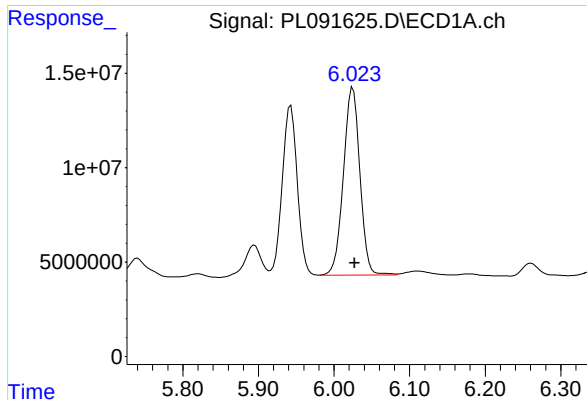
#25 Chlordane-3

R.T.: 5.941 min  
Delta R.T.: -0.004 min  
Response: 125750773  
Conc: 489.49 ng/ml m



#25 Chlordane-3

R.T.: 4.986 min  
Delta R.T.: -0.004 min  
Response: 112427938  
Conc: 482.23 ng/ml



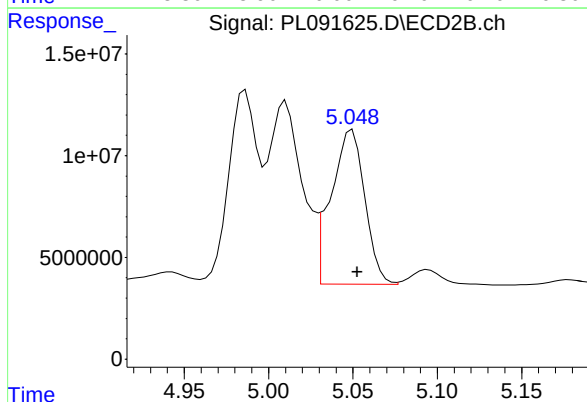
#26 Chlordane-4

R.T.: 6.025 min  
Delta R.T.: -0.002 min  
Response: 150728059  
Conc: 508.95 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

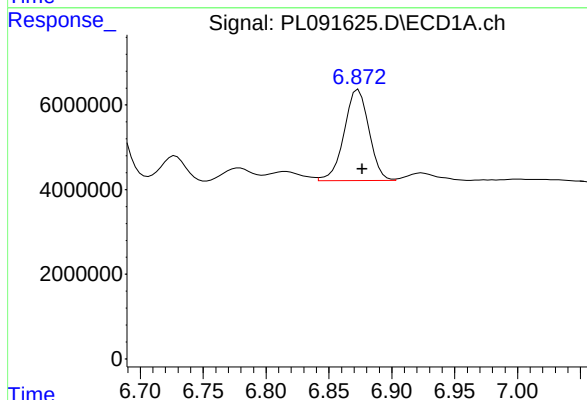
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



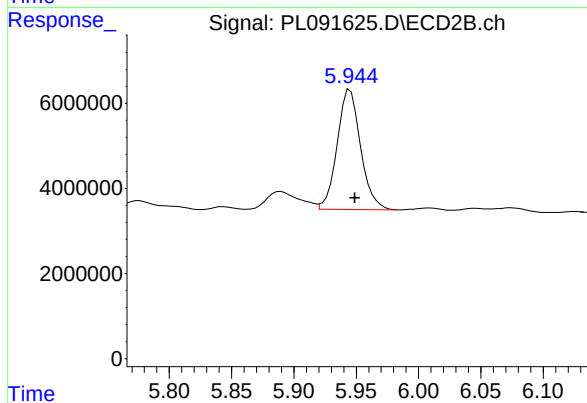
#26 Chlordane-4

R.T.: 5.049 min  
Delta R.T.: -0.003 min  
Response: 105635638  
Conc: 506.57 ng/ml



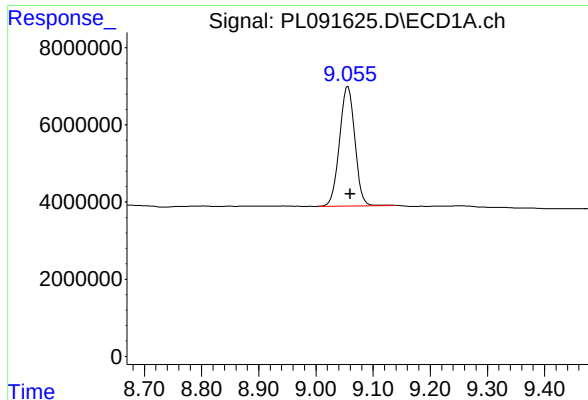
#27 Chlordane-5

R.T.: 6.873 min  
Delta R.T.: -0.003 min  
Response: 29429772  
Conc: 515.61 ng/ml



#27 Chlordane-5

R.T.: 5.945 min  
Delta R.T.: -0.004 min  
Response: 36787959  
Conc: 513.36 ng/ml



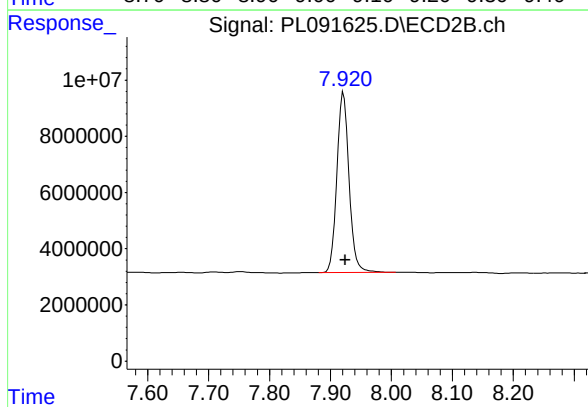
#28 Decachlorobiphenyl

R.T.: 9.056 min  
Delta R.T.: -0.004 min  
Response: 57585001  
Conc: 47.38 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/11/2024  
Supervised By :Ankita Jodhani 09/11/2024



#28 Decachlorobiphenyl

R.T.: 7.921 min  
Delta R.T.: -0.003 min  
Response: 89275269  
Conc: 48.35 ng/ml





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Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/17/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 12:21 Initial Calibration Time(s): 16:39 17:33

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

| COMPOUND             | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| Chlordane-1 (1)      | 4.71       | 4.71      | 4.61      | 4.81 | 0.00       |
| Chlordane-2 (2)      | 5.24       | 5.24      | 5.14      | 5.34 | 0.00       |
| Chlordane-3 (3)      | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Chlordane-4 (4)      | 6.03       | 6.03      | 5.93      | 6.13 | 0.00       |
| Chlordane-5 (5)      | 6.88       | 6.88      | 6.78      | 6.98 | 0.00       |
| Decachlorobiphenyl   | 9.06       | 9.06      | 8.96      | 9.16 | 0.00       |
| Tetrachloro-m-xylene | 3.55       | 3.54      | 3.44      | 3.64 | -0.01      |



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Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/17/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 12:21 Initial Calibration Time(s): 16:39 17:33

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

| COMPOUND             | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| Chlordane-1 (1)      | 3.78       | 3.78      | 3.68      | 3.88 | 0.00       |
| Chlordane-2 (2)      | 4.36       | 4.36      | 4.26      | 4.46 | 0.00       |
| Chlordane-3 (3)      | 4.99       | 4.99      | 4.89      | 5.09 | 0.00       |
| Chlordane-4 (4)      | 5.05       | 5.05      | 4.95      | 5.15 | 0.00       |
| Chlordane-5 (5)      | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Decachlorobiphenyl   | 7.92       | 7.93      | 7.83      | 8.03 | 0.01       |
| Tetrachloro-m-xylene | 2.78       | 2.78      | 2.68      | 2.88 | 0.00       |



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### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL03 Date Analyzed: 09/17/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091780.D Time Analyzed: 12:21

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| Chlordane-1          | 4.708 | 4.606     | 4.806 | 492.060            | 500.000           | -1.6  |
| Chlordane-2          | 5.239 | 5.136     | 5.336 | 446.860            | 500.000           | -10.6 |
| Chlordane-3          | 5.947 | 5.845     | 6.045 | 460.150            | 500.000           | -8.0  |
| Chlordane-4          | 6.030 | 5.927     | 6.127 | 485.080            | 500.000           | -3.0  |
| Chlordane-5          | 6.879 | 6.776     | 6.976 | 494.360            | 500.000           | -1.1  |
| Decachlorobiphenyl   | 9.064 | 8.960     | 9.160 | 44.470             | 50.000            | -11.1 |
| Tetrachloro-m-xylene | 3.547 | 3.444     | 3.644 | 45.460             | 50.000            | -9.1  |



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### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL03 Date Analyzed: 09/17/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091780.D Time Analyzed: 12:21

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| Chlordane-1          | 3.780 | 3.682     | 3.882 | 442.640            | 500.000           | -11.5 |
| Chlordane-2          | 4.358 | 4.260     | 4.460 | 472.820            | 500.000           | -5.4  |
| Chlordane-3          | 4.989 | 4.890     | 5.090 | 451.210            | 500.000           | -9.8  |
| Chlordane-4          | 5.051 | 4.953     | 5.153 | 479.710            | 500.000           | -4.1  |
| Chlordane-5          | 5.947 | 5.848     | 6.048 | 511.550            | 500.000           | 2.3   |
| Decachlorobiphenyl   | 7.924 | 7.825     | 8.025 | 47.220             | 50.000            | -5.6  |
| Tetrachloro-m-xylene | 2.780 | 2.683     | 2.883 | 54.380             | 50.000            | 8.8   |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091724\  
 Data File : PL091780.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 17 Sep 2024 12:21  
 Operator : AR\AJ  
 Sample : PCHLORCCC500  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORCCC500

Manual Integrations  
**APPROVED**

Reviewed By :Abdul Mirza 09/18/2024  
 Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 18 01:10:45 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 19:26:36 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml    | ng/ml   |
|-----------------------------|-------|-------|----------|----------|----------|---------|
| -----                       |       |       |          |          |          |         |
| System Monitoring Compounds |       |       |          |          |          |         |
| 1) SA Tetrachlo...          | 3.547 | 2.780 | 70851590 | 101.7E6  | 45.459   | 54.380  |
| 28) SA Decachlor...         | 9.064 | 7.924 | 54044917 | 87186486 | 44.470   | 47.216  |
| Target Compounds            |       |       |          |          |          |         |
| 23) Chlordane-1             | 4.708 | 3.780 | 30643592 | 30792241 | 492.060m | 442.641 |
| 24) Chlordane-2             | 5.239 | 4.358 | 34355489 | 35438375 | 446.859  | 472.817 |
| 25) Chlordane-3             | 5.947 | 4.989 | 118.2E6  | 105.2E6  | 460.147m | 451.206 |
| 26) Chlordane-4             | 6.030 | 5.051 | 143.7E6  | 100.0E6  | 485.079  | 479.713 |
| 27) Chlordane-5             | 6.879 | 5.947 | 28216682 | 36657637 | 494.360  | 511.545 |
| -----                       |       |       |          |          |          |         |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091724\  
Data File : PL091780.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 17 Sep 2024 12:21  
Operator : AR\AJ  
Sample : PCHLORCCC500  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

## Instrument :

ECD\_L

ClientSampleId :

PCHLORCCC500

## Manual Integrations

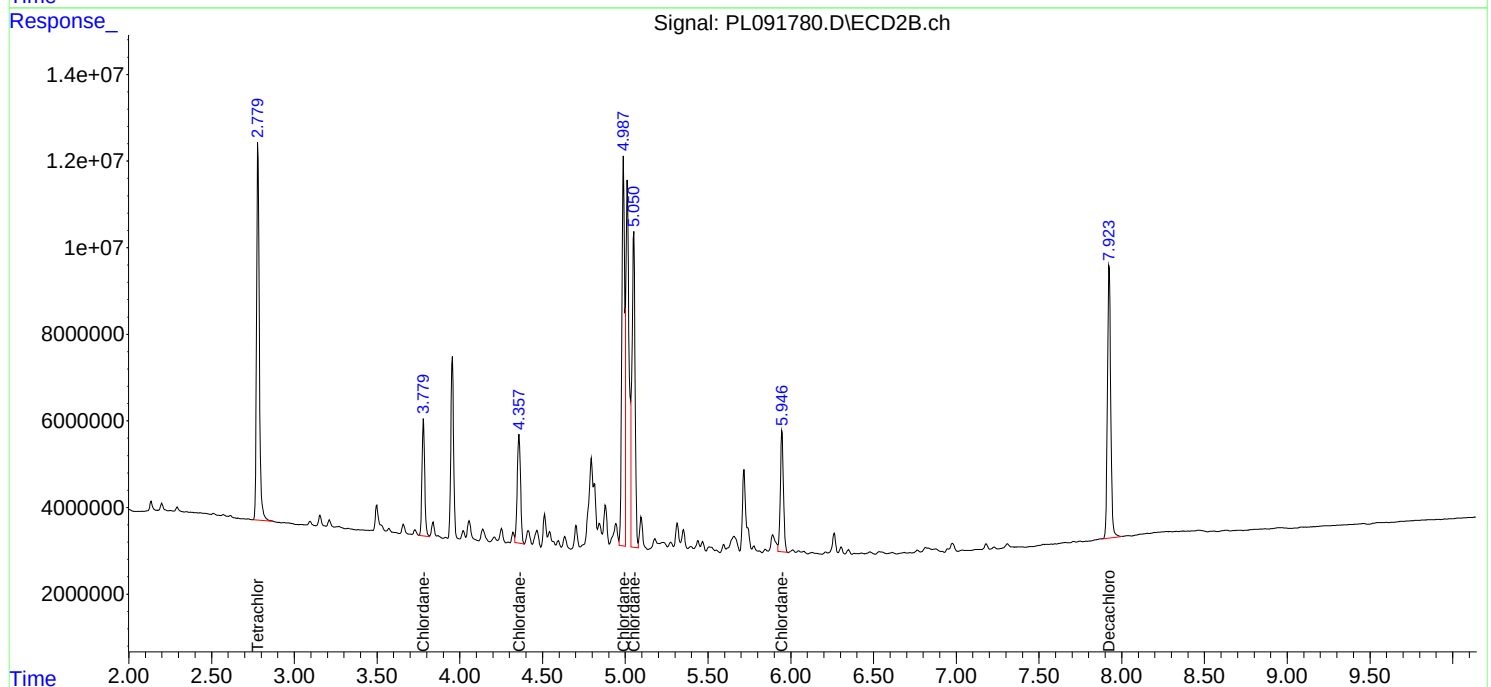
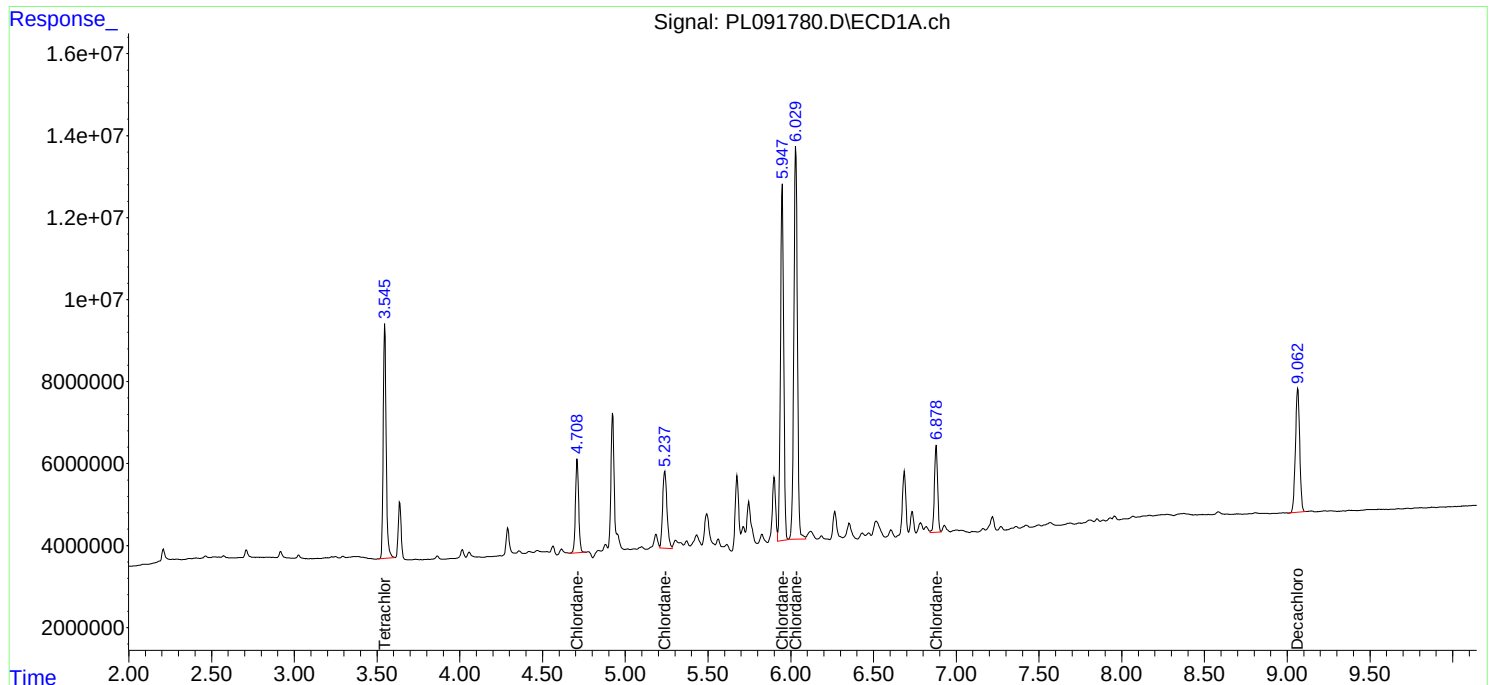
APPROVED

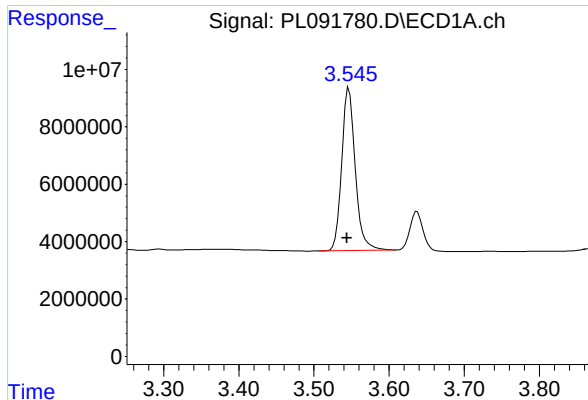
Reviewed By : Abdul Mirza 09/18/2024

Supervised By : Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 18 01:10:45 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





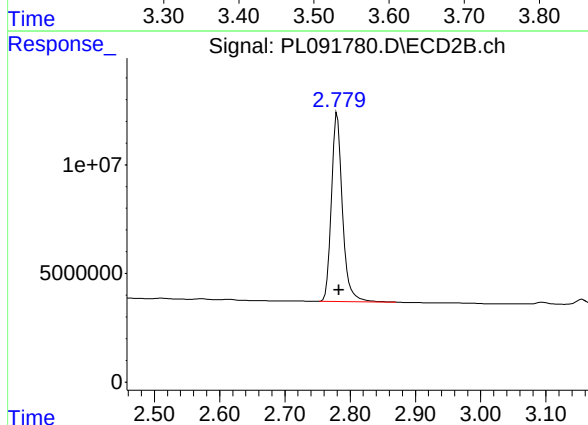
## #1 Tetrachloro-m-xylene

R.T.: 3.547 min  
Delta R.T.: 0.003 min  
Response: 70851590  
Conc: 45.46 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

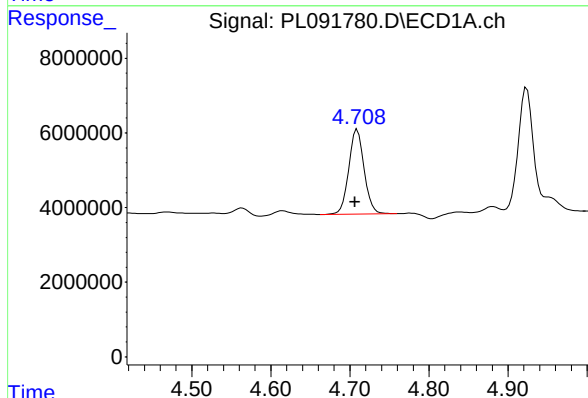
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



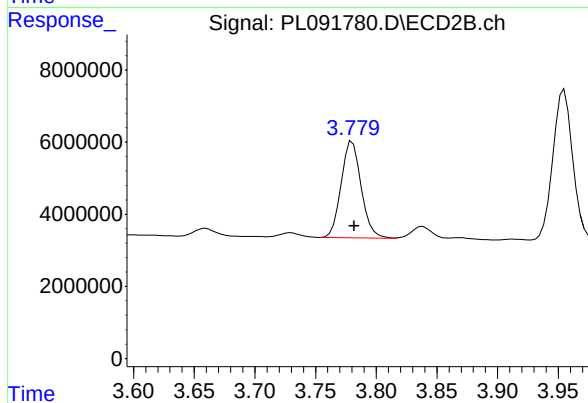
## #1 Tetrachloro-m-xylene

R.T.: 2.780 min  
Delta R.T.: -0.002 min  
Response: 101707128  
Conc: 54.38 ng/ml



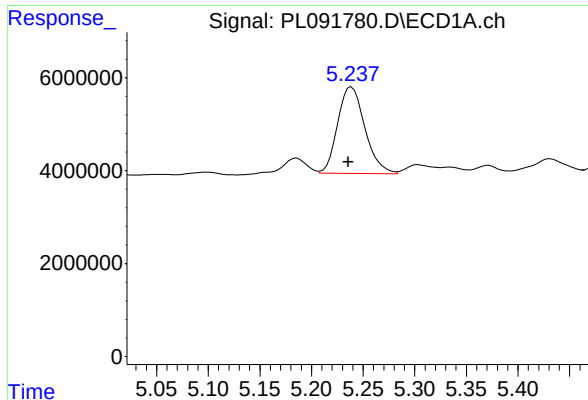
## #23 Chlordane-1

R.T.: 4.708 min  
Delta R.T.: 0.002 min  
Response: 30643592  
Conc: 492.06 ng/ml m



## #23 Chlordane-1

R.T.: 3.780 min  
Delta R.T.: -0.002 min  
Response: 30792241  
Conc: 442.64 ng/ml



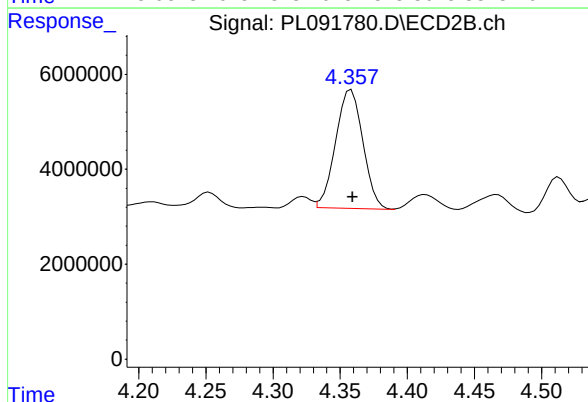
#24 Chlordane-2

R.T.: 5.239 min  
Delta R.T.: 0.003 min  
Response: 34355489  
Conc: 446.86 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

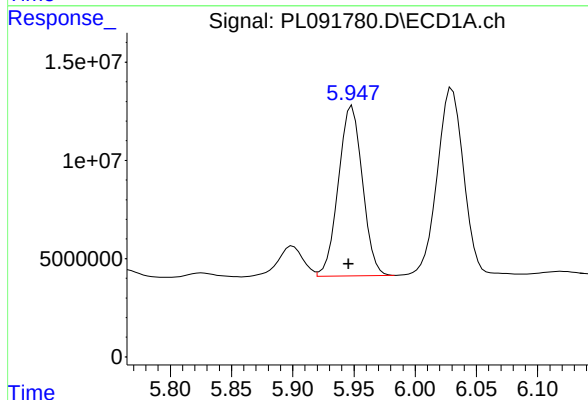
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



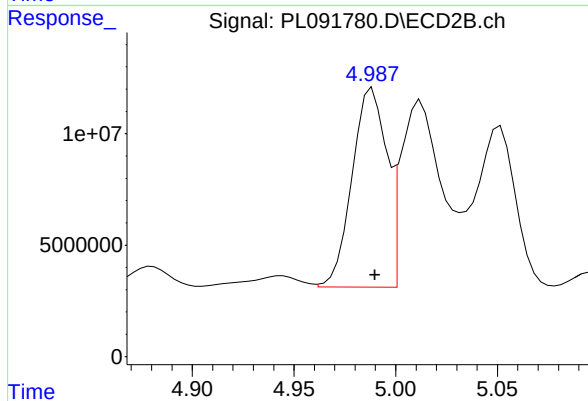
#24 Chlordane-2

R.T.: 4.358 min  
Delta R.T.: -0.001 min  
Response: 35438375  
Conc: 472.82 ng/ml



#25 Chlordane-3

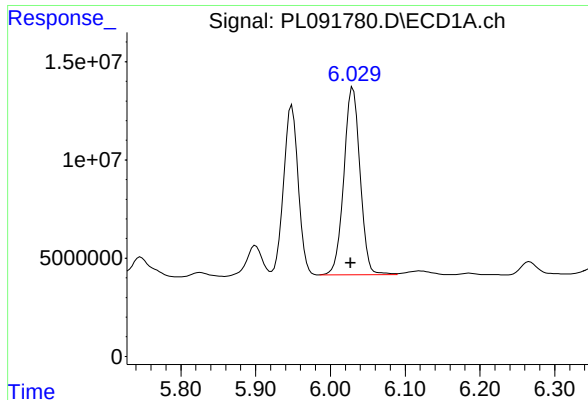
R.T.: 5.947 min  
Delta R.T.: 0.002 min  
Response: 118211298  
Conc: 460.15 ng/ml m



#25 Chlordane-3

R.T.: 4.989 min  
Delta R.T.: -0.001 min  
Response: 105194685  
Conc: 451.21 ng/ml





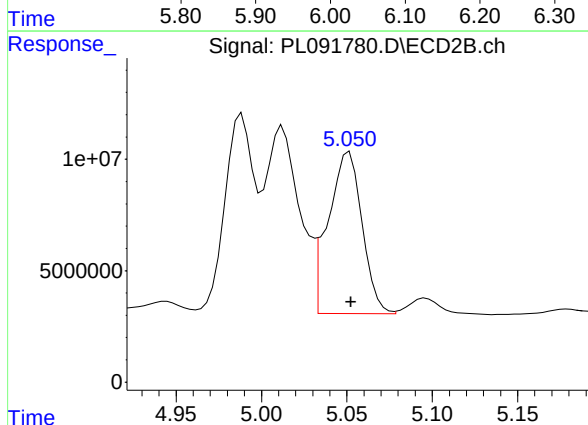
#26 Chlordane-4

R.T.: 6.030 min  
Delta R.T.: 0.003 min  
Response: 143659379  
Conc: 485.08 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

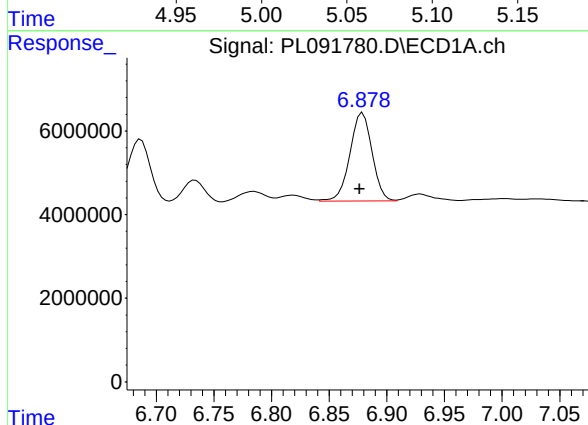
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



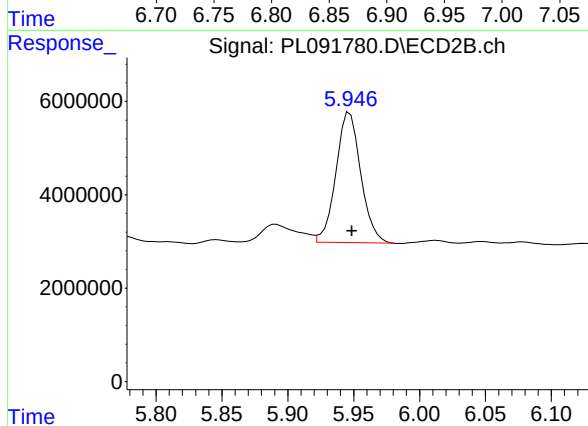
#26 Chlordane-4

R.T.: 5.051 min  
Delta R.T.: -0.001 min  
Response: 100035991  
Conc: 479.71 ng/ml



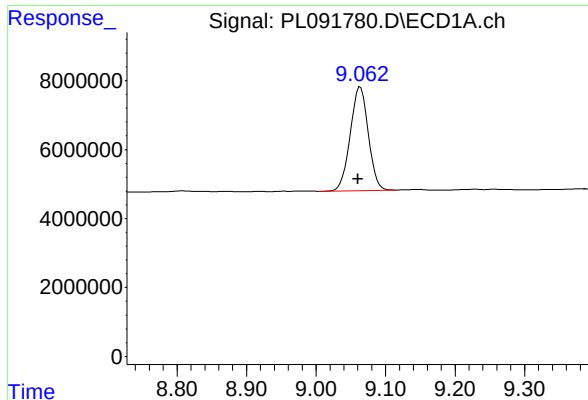
#27 Chlordane-5

R.T.: 6.879 min  
Delta R.T.: 0.003 min  
Response: 28216682  
Conc: 494.36 ng/ml



#27 Chlordane-5

R.T.: 5.947 min  
Delta R.T.: -0.002 min  
Response: 36657637  
Conc: 511.55 ng/ml



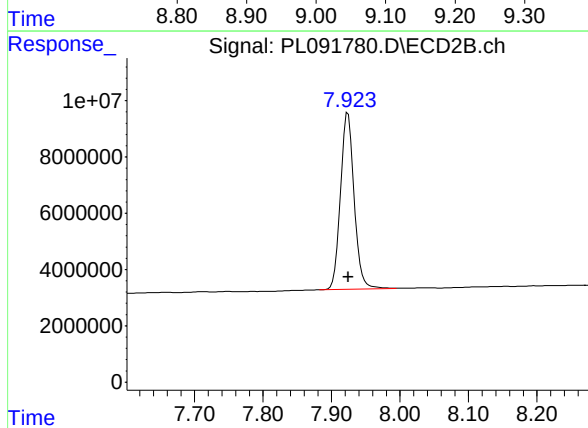
#28 Decachlorobiphenyl

R.T.: 9.064 min  
Delta R.T.: 0.003 min  
Response: 54044917  
Conc: 44.47 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



#28 Decachlorobiphenyl

R.T.: 7.924 min  
Delta R.T.: 0.000 min  
Response: 87186486  
Conc: 47.22 ng/ml



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### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/17/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 15:37 Initial Calibration Time(s): 16:39 17:33

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

| COMPOUND             |     | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|-----|------------|-----------|-----------|------|------------|
|                      |     |            |           | FROM      | TO   |            |
| Chlordane-1          | (1) | 4.70       | 4.71      | 4.61      | 4.81 | 0.01       |
| Chlordane-2          | (2) | 5.23       | 5.24      | 5.14      | 5.34 | 0.01       |
| Chlordane-3          | (3) | 5.94       | 5.95      | 5.85      | 6.05 | 0.01       |
| Chlordane-4          | (4) | 6.03       | 6.03      | 5.93      | 6.13 | 0.00       |
| Chlordane-5          | (5) | 6.88       | 6.88      | 6.78      | 6.98 | 0.00       |
| Decachlorobiphenyl   |     | 9.06       | 9.06      | 8.96      | 9.16 | 0.00       |
| Tetrachloro-m-xylene |     | 3.54       | 3.54      | 3.44      | 3.64 | 0.00       |



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### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/17/2024 Initial Calibration Date(s): 09/09/2024 09/09/2024

Continuing Calib Time: 15:37 Initial Calibration Time(s): 16:39 17:33

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

| COMPOUND             |     | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|-----|------------|-----------|-----------|------|------------|
|                      |     |            |           | FROM      | TO   |            |
| Chlordane-1          | (1) | 3.78       | 3.78      | 3.68      | 3.88 | 0.00       |
| Chlordane-2          | (2) | 4.36       | 4.36      | 4.26      | 4.46 | 0.00       |
| Chlordane-3          | (3) | 4.99       | 4.99      | 4.89      | 5.09 | 0.00       |
| Chlordane-4          | (4) | 5.05       | 5.05      | 4.95      | 5.15 | 0.00       |
| Chlordane-5          | (5) | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Decachlorobiphenyl   |     | 7.92       | 7.93      | 7.83      | 8.03 | 0.01       |
| Tetrachloro-m-xylene |     | 2.78       | 2.78      | 2.68      | 2.88 | 0.00       |



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**CALIBRATION VERIFICATION SUMMARY**
**Contract:** CHEM02
**Lab Code:** CHEM      **Case No.:** P3845      **SAS No.:** P3845      **SDG NO.:** P3845
**GC Column:** ZB-MR2      **ID:** 0.32 (mm)      **Initi. Calib. Date(s):** 09/09/2024      09/09/2024
**Client Sample No.:** CCAL04      **Date Analyzed:** 09/17/2024
**Lab Sample No.:** PCHLORCCC500      **Data File :** PL091786.D      **Time Analyzed:** 15:37

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|----------------------|-------|-----------|-------|--------------------|-------------------|------|
|                      |       | FROM      | TO    |                    |                   |      |
| Chlordane-1          | 4.704 | 4.606     | 4.806 | 510.730            | 500.000           | 2.1  |
| Chlordane-2          | 5.234 | 5.136     | 5.336 | 455.150            | 500.000           | -9.0 |
| Chlordane-3          | 5.942 | 5.845     | 6.045 | 474.700            | 500.000           | -5.1 |
| Chlordane-4          | 6.025 | 5.927     | 6.127 | 502.430            | 500.000           | 0.5  |
| Chlordane-5          | 6.875 | 6.776     | 6.976 | 518.230            | 500.000           | 3.6  |
| Decachlorobiphenyl   | 9.058 | 8.960     | 9.160 | 46.530             | 50.000            | -6.9 |
| Tetrachloro-m-xylene | 3.542 | 3.444     | 3.644 | 48.180             | 50.000            | -3.6 |



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### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 09/09/2024 09/09/2024

Client Sample No.: CCAL04 Date Analyzed: 09/17/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091786.D Time Analyzed: 15:37

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|----------------------|-------|-----------|-------|--------------------|-------------------|------|
|                      |       | FROM      | TO    |                    |                   |      |
| Chlordane-1          | 3.779 | 3.682     | 3.882 | 468.620            | 500.000           | -6.3 |
| Chlordane-2          | 4.357 | 4.260     | 4.460 | 492.680            | 500.000           | -1.5 |
| Chlordane-3          | 4.987 | 4.890     | 5.090 | 465.600            | 500.000           | -6.9 |
| Chlordane-4          | 5.050 | 4.953     | 5.153 | 499.490            | 500.000           | -0.1 |
| Chlordane-5          | 5.946 | 5.848     | 6.048 | 524.960            | 500.000           | 5.0  |
| Decachlorobiphenyl   | 7.922 | 7.825     | 8.025 | 48.720             | 50.000            | -2.6 |
| Tetrachloro-m-xylene | 2.780 | 2.683     | 2.883 | 57.360             | 50.000            | 14.7 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091724\  
 Data File : PL091786.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 17 Sep 2024 15:37  
 Operator : AR\AJ  
 Sample : PCHLORCCC500  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORCCC500

Manual Integrations  
**APPROVED**

Reviewed By :Abdul Mirza 09/18/2024  
 Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 18 01:12:20 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 19:26:36 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml    | ng/ml   |
|-----------------------------|-------|-------|----------|----------|----------|---------|
| -----                       |       |       |          |          |          |         |
| System Monitoring Compounds |       |       |          |          |          |         |
| 1) SA Tetrachlo...          | 3.542 | 2.780 | 75097392 | 107.3E6  | 48.183   | 57.362  |
| 28) SA Decachlor...         | 9.058 | 7.922 | 56550664 | 89958972 | 46.531   | 48.717  |
| Target Compounds            |       |       |          |          |          |         |
| 23) Chlordane-1             | 4.704 | 3.779 | 31806327 | 32599196 | 510.730  | 468.616 |
| 24) Chlordane-2             | 5.234 | 4.357 | 34992560 | 36927381 | 455.145  | 492.683 |
| 25) Chlordane-3             | 5.942 | 4.987 | 121.9E6  | 108.6E6  | 474.698m | 465.599 |
| 26) Chlordane-4             | 6.025 | 5.050 | 148.8E6  | 104.2E6  | 502.430  | 499.488 |
| 27) Chlordane-5             | 6.875 | 5.946 | 29579162 | 37618869 | 518.230  | 524.959 |
| -----                       |       |       |          |          |          |         |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091724\  
Data File : PL091786.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 17 Sep 2024 15:37  
Operator : AR\AJ  
Sample : PCHLORCCC500  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

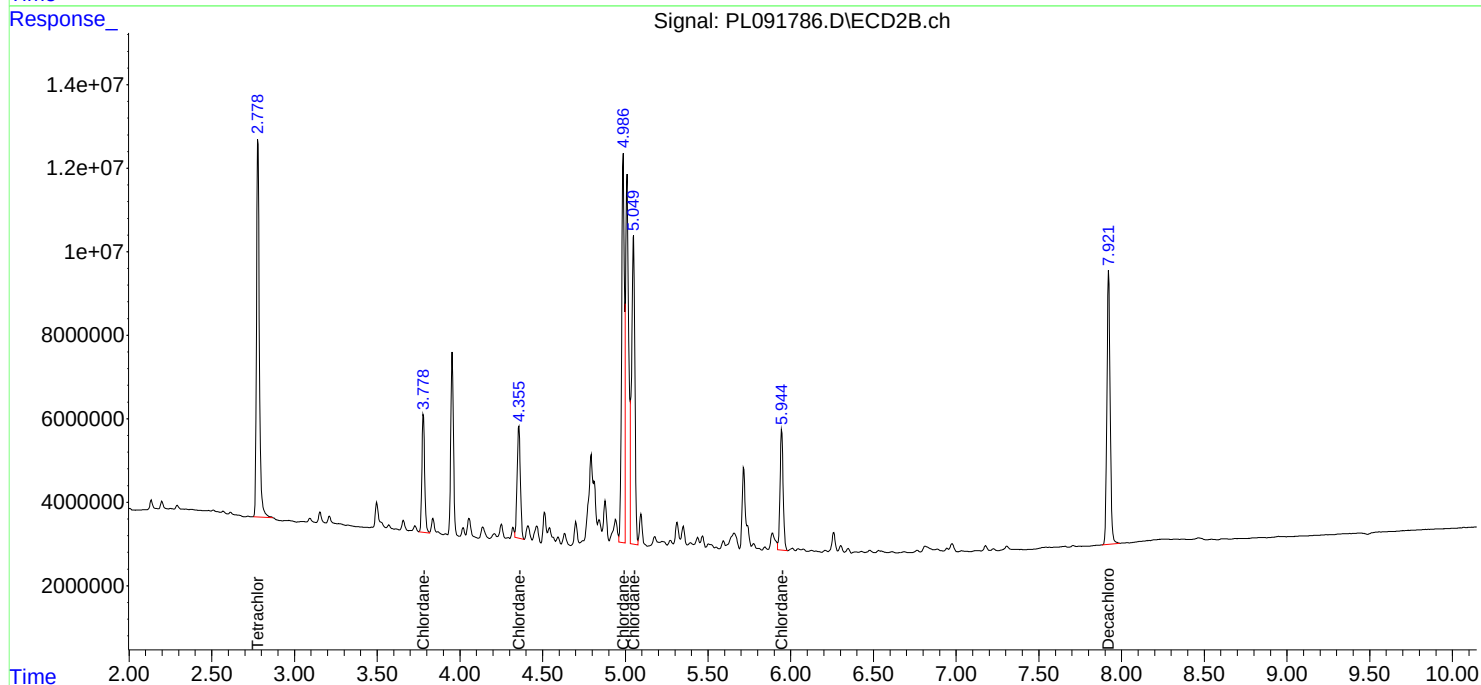
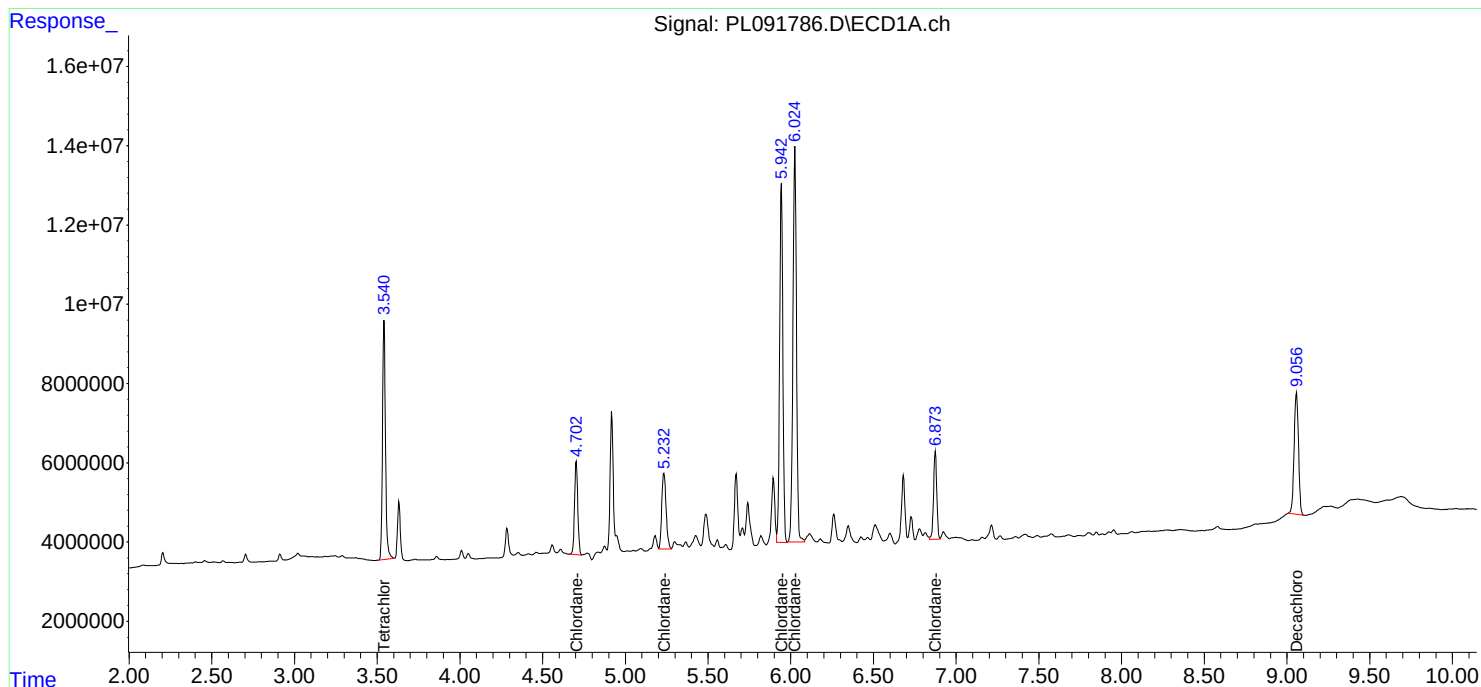
Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

Manual Integrations  
**APPROVED**

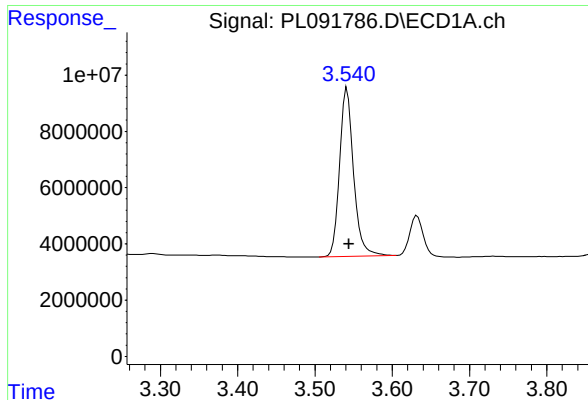
Reviewed By : Abdul Mirza 09/18/2024  
Supervised By : Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 18 01:12:20 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm







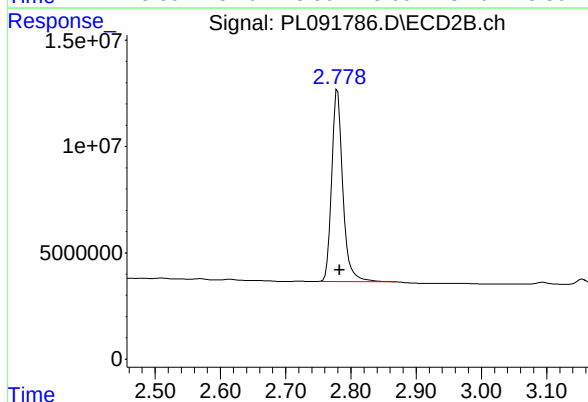
## #1 Tetrachloro-m-xylene

R.T.: 3.542 min  
Delta R.T.: -0.002 min  
Response: 75097392  
Conc: 48.18 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

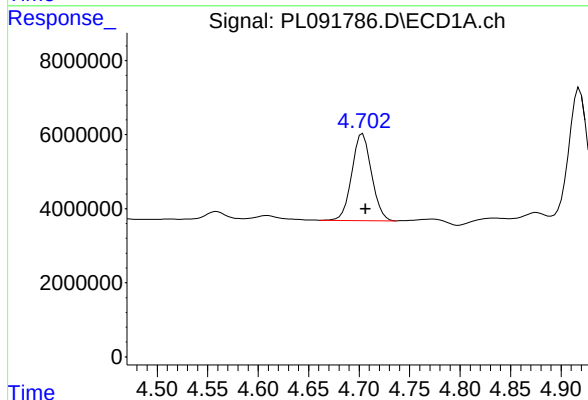
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



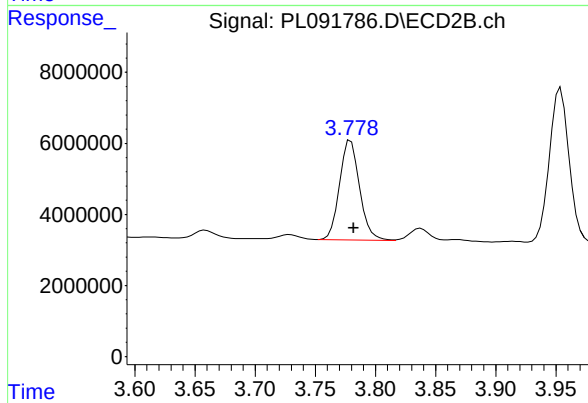
## #1 Tetrachloro-m-xylene

R.T.: 2.780 min  
Delta R.T.: -0.003 min  
Response: 107284674  
Conc: 57.36 ng/ml



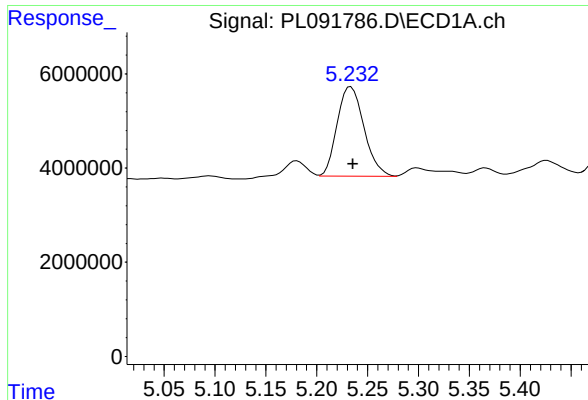
## #23 Chlordane-1

R.T.: 4.704 min  
Delta R.T.: -0.003 min  
Response: 31806327  
Conc: 510.73 ng/ml



## #23 Chlordane-1

R.T.: 3.779 min  
Delta R.T.: -0.003 min  
Response: 32599196  
Conc: 468.62 ng/ml



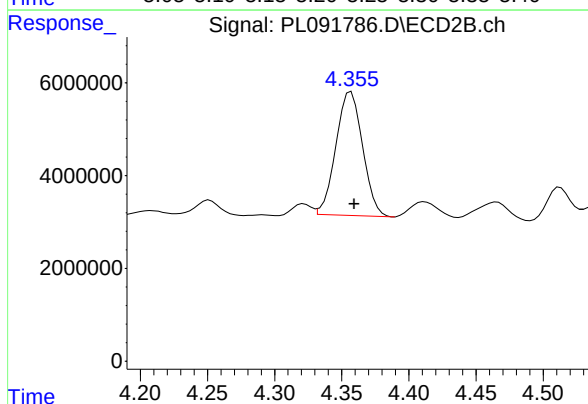
#24 Chlordane-2

R.T.: 5.234 min  
Delta R.T.: -0.002 min  
Response: 34992560  
Conc: 455.15 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

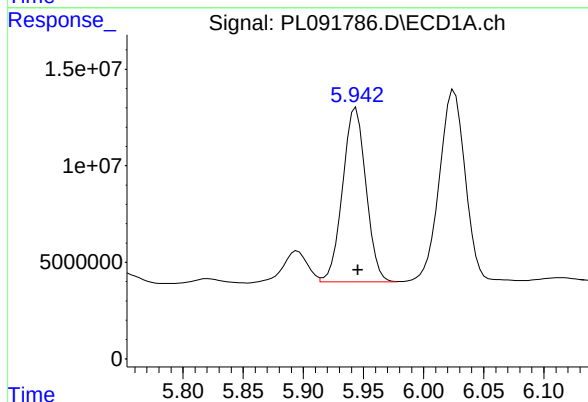
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



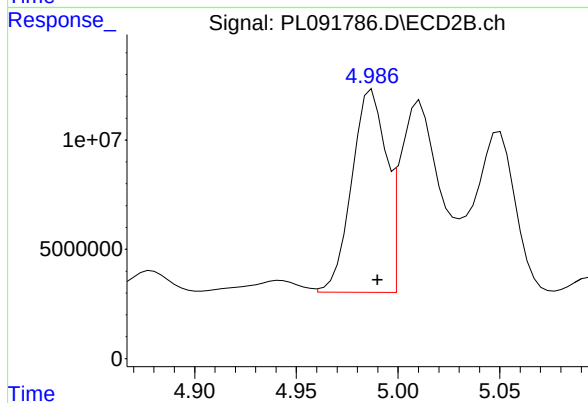
#24 Chlordane-2

R.T.: 4.357 min  
Delta R.T.: -0.002 min  
Response: 36927381  
Conc: 492.68 ng/ml



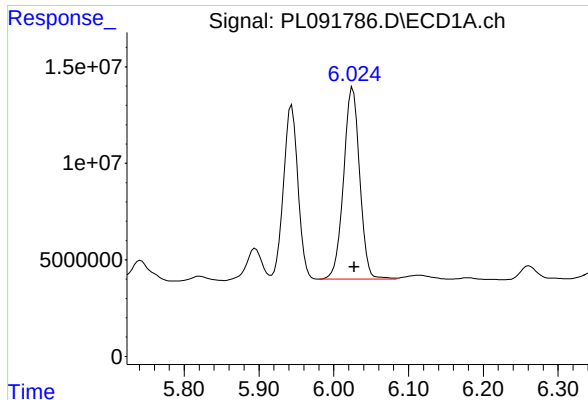
#25 Chlordane-3

R.T.: 5.942 min  
Delta R.T.: -0.003 min  
Response: 121949600  
Conc: 474.70 ng/ml m



#25 Chlordane-3

R.T.: 4.987 min  
Delta R.T.: -0.003 min  
Response: 108550226  
Conc: 465.60 ng/ml



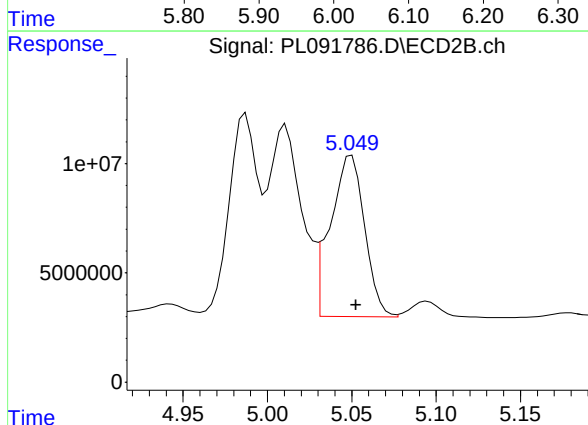
#26 Chlordane-4

R.T.: 6.025 min  
Delta R.T.: -0.002 min  
Response: 148797759  
Conc: 502.43 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

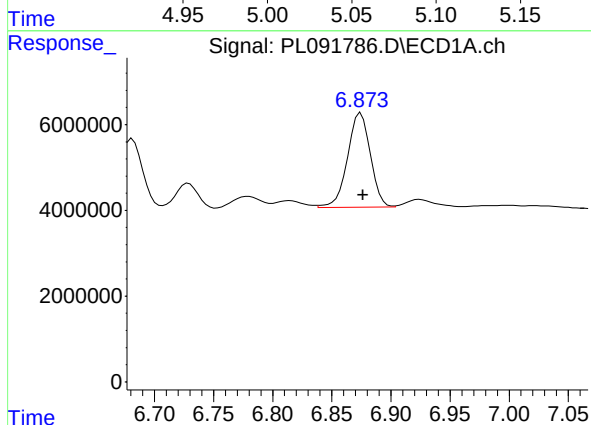
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



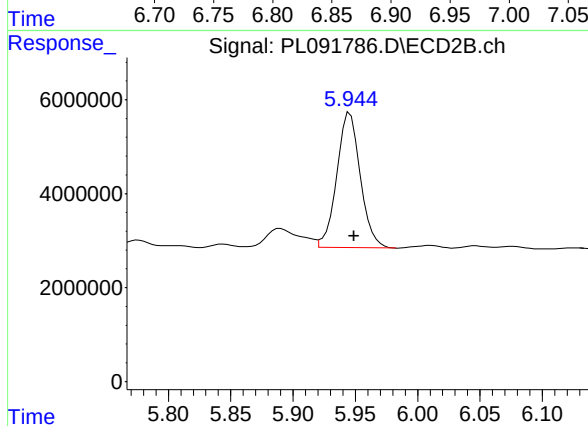
#26 Chlordane-4

R.T.: 5.050 min  
Delta R.T.: -0.003 min  
Response: 104159764  
Conc: 499.49 ng/ml



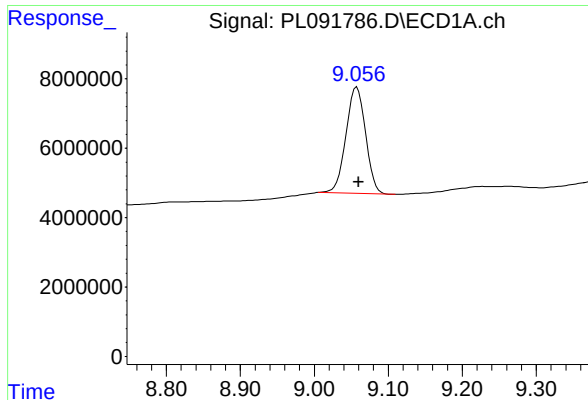
#27 Chlordane-5

R.T.: 6.875 min  
Delta R.T.: -0.002 min  
Response: 29579162  
Conc: 518.23 ng/ml



#27 Chlordane-5

R.T.: 5.946 min  
Delta R.T.: -0.003 min  
Response: 37618869  
Conc: 524.96 ng/ml



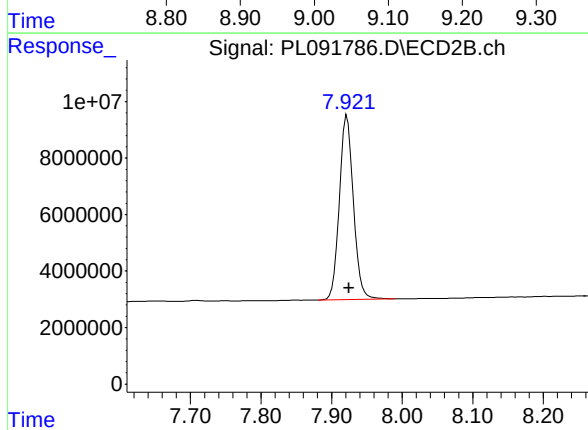
#28 Decachlorobiphenyl

R.T.: 9.058 min  
Delta R.T.: -0.003 min  
Response: 56550664  
Conc: 46.53 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



#28 Decachlorobiphenyl

R.T.: 7.922 min  
Delta R.T.: -0.003 min  
Response: 89958972  
Conc: 48.72 ng/ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/24/2024 Initial Calibration Date(s): 09/23/2024 09/23/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 12:39 13:33

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

| COMPOUND             |     | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|-----|------------|-----------|-----------|------|------------|
|                      |     |            |           | FROM      | TO   |            |
| Chlordane-1          | (1) | 4.71       | 4.71      | 4.61      | 4.81 | 0.00       |
| Chlordane-2          | (2) | 5.24       | 5.24      | 5.14      | 5.34 | 0.00       |
| Chlordane-3          | (3) | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Chlordane-4          | (4) | 6.04       | 6.03      | 5.93      | 6.13 | -0.01      |
| Chlordane-5          | (5) | 6.89       | 6.88      | 6.78      | 6.98 | -0.01      |
| Decachlorobiphenyl   |     | 9.07       | 9.06      | 8.96      | 9.16 | -0.01      |
| Tetrachloro-m-xylene |     | 3.55       | 3.54      | 3.44      | 3.64 | -0.01      |



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Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/24/2024 Initial Calibration Date(s): 09/23/2024 09/23/2024

Continuing Calib Time: 12:02 Initial Calibration Time(s): 12:39 13:33

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

| COMPOUND             |     | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|-----|------------|-----------|-----------|------|------------|
|                      |     |            |           | FROM      | TO   |            |
| Chlordane-1          | (1) | 3.78       | 3.78      | 3.68      | 3.88 | 0.00       |
| Chlordane-2          | (2) | 4.36       | 4.36      | 4.26      | 4.46 | 0.00       |
| Chlordane-3          | (3) | 4.99       | 4.99      | 4.89      | 5.09 | 0.00       |
| Chlordane-4          | (4) | 5.05       | 5.05      | 4.95      | 5.15 | 0.00       |
| Chlordane-5          | (5) | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Decachlorobiphenyl   |     | 7.93       | 7.92      | 7.82      | 8.02 | -0.01      |
| Tetrachloro-m-xylene |     | 2.78       | 2.78      | 2.68      | 2.88 | 0.00       |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR2 ID: 0.32 (mm) Initi. Calib. Date(s): 09/23/2024 09/23/2024

Client Sample No.: CCAL05 Date Analyzed: 09/24/2024

Lab Sample No.: PCHLORCCC500 Data File : PL091994.D Time Analyzed: 12:02

| COMPOUND             | RT    | RT WINDOW<br>FROM TO |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|----------------------|-------|--------------------|-------------------|-------|
| Chlordane-1          | 4.712 | 4.606                | 4.806 | 420.770            | 500.000           | -15.8 |
| Chlordane-2          | 5.244 | 5.136                | 5.336 | 433.840            | 500.000           | -13.2 |
| Chlordane-3          | 5.954 | 5.846                | 6.046 | 422.680            | 500.000           | -15.5 |
| Chlordane-4          | 6.036 | 5.928                | 6.128 | 422.580            | 500.000           | -15.5 |
| Chlordane-5          | 6.885 | 6.777                | 6.977 | 430.890            | 500.000           | -13.8 |
| Decachlorobiphenyl   | 9.070 | 8.961                | 9.161 | 42.700             | 50.000            | -14.6 |
| Tetrachloro-m-xylene | 3.552 | 3.444                | 3.644 | 42.730             | 50.000            | -14.5 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

**CALIBRATION VERIFICATION SUMMARY**
**Contract:** CHEM02
**Lab Code:** CHEM      **Case No.:** P3845      **SAS No.:** P3845      **SDG NO.:** P3845
**GC Column:** ZB-MR1      **ID:** 0.32 (mm)      **Initi. Calib. Date(s):** 09/23/2024      09/23/2024
**Client Sample No.:** CCAL05      **Date Analyzed:** 09/24/2024
**Lab Sample No.:** PCHLORCCC500      **Data File :** PL091994.D      **Time Analyzed:** 12:02

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| Chlordane-1          | 3.782 | 3.681     | 3.881 | 433.970            | 500.000           | -13.2 |
| Chlordane-2          | 4.360 | 4.258     | 4.458 | 436.080            | 500.000           | -12.8 |
| Chlordane-3          | 4.991 | 4.889     | 5.089 | 439.750            | 500.000           | -12.1 |
| Chlordane-4          | 5.054 | 4.951     | 5.151 | 439.980            | 500.000           | -12.0 |
| Chlordane-5          | 5.950 | 5.847     | 6.047 | 439.270            | 500.000           | -12.1 |
| Decachlorobiphenyl   | 7.926 | 7.824     | 8.024 | 43.140             | 50.000            | -13.7 |
| Tetrachloro-m-xylene | 2.783 | 2.682     | 2.882 | 54.100             | 50.000            | 8.2   |



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092424\  
 Data File : PL091994.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 24 Sep 2024 12:02  
 Operator : AR\AJ  
 Sample : PCHLORCCC500  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORCCC500

Manual Integrations  
**APPROVED**

Reviewed By :Abdul Mirza 09/25/2024  
 Supervised By :Ankita Jodhani 09/25/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 25 01:17:10 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 16:44:57 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

|                             | Compound        | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml    | ng/ml    |
|-----------------------------|-----------------|-------|-------|----------|----------|----------|----------|
| -----                       |                 |       |       |          |          |          |          |
| System Monitoring Compounds |                 |       |       |          |          |          |          |
| 1)                          | SA Tetrachlo... | 3.552 | 2.783 | 95049670 | 135.7E6  | 42.725   | 54.100 # |
| 28)                         | SA Decachlor... | 9.070 | 7.926 | 69955035 | 107.9E6  | 42.702   | 43.141   |
| Target Compounds            |                 |       |       |          |          |          |          |
| 23)                         | Chlordane-1     | 4.712 | 3.782 | 43126462 | 43388546 | 420.769m | 433.969  |
| 24)                         | Chlordane-2     | 5.244 | 4.360 | 46528308 | 48939231 | 433.844  | 436.078  |
| 25)                         | Chlordane-3     | 5.954 | 4.991 | 158.3E6  | 145.7E6  | 422.678  | 439.747  |
| 26)                         | Chlordane-4     | 6.036 | 5.054 | 191.4E6  | 139.6E6  | 422.580  | 439.980  |
| 27)                         | Chlordane-5     | 6.885 | 5.950 | 37579863 | 47638832 | 430.888  | 439.272  |
| -----                       |                 |       |       |          |          |          |          |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092424\  
Data File : PL091994.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 24 Sep 2024 12:02  
Operator : AR\AJ  
Sample : PCHLORCCC500  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

## Instrument :

ECD\_L

## ClientSampleId :

PCHLORCCC500

## Manual Integrations

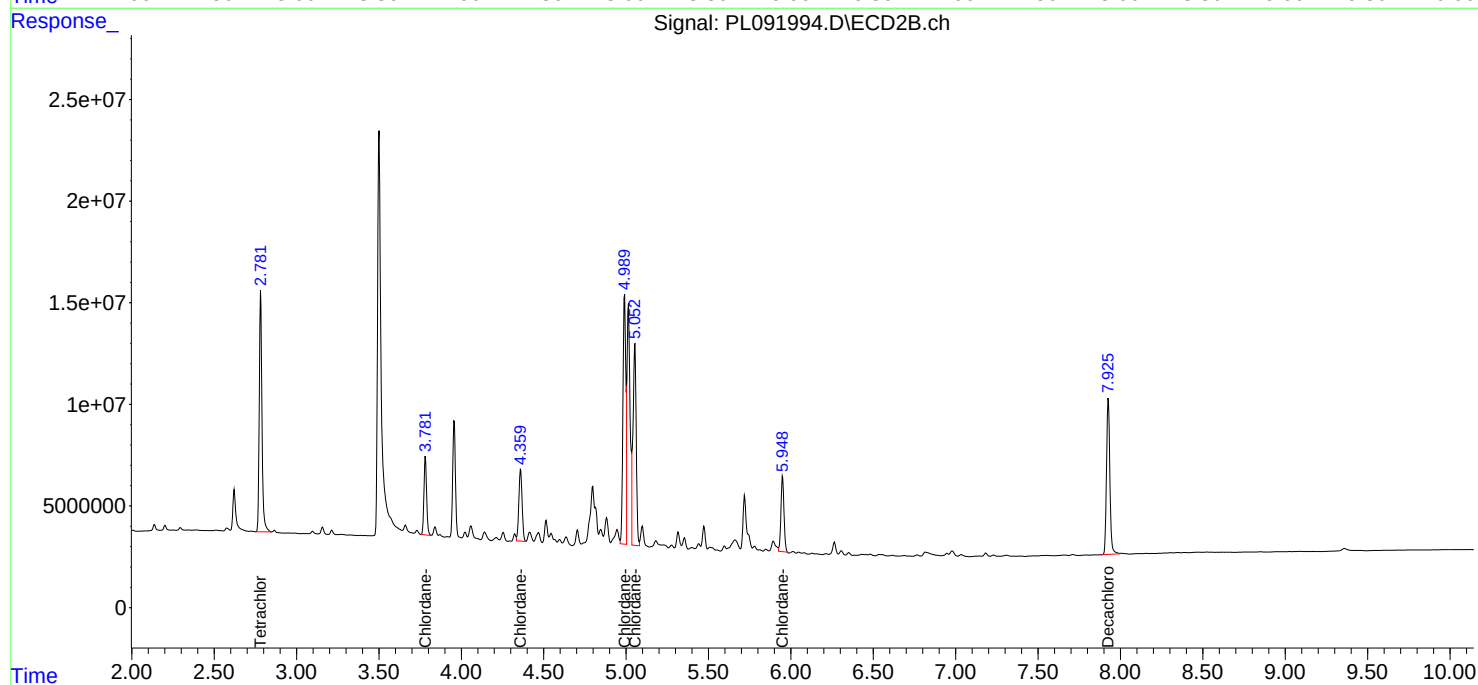
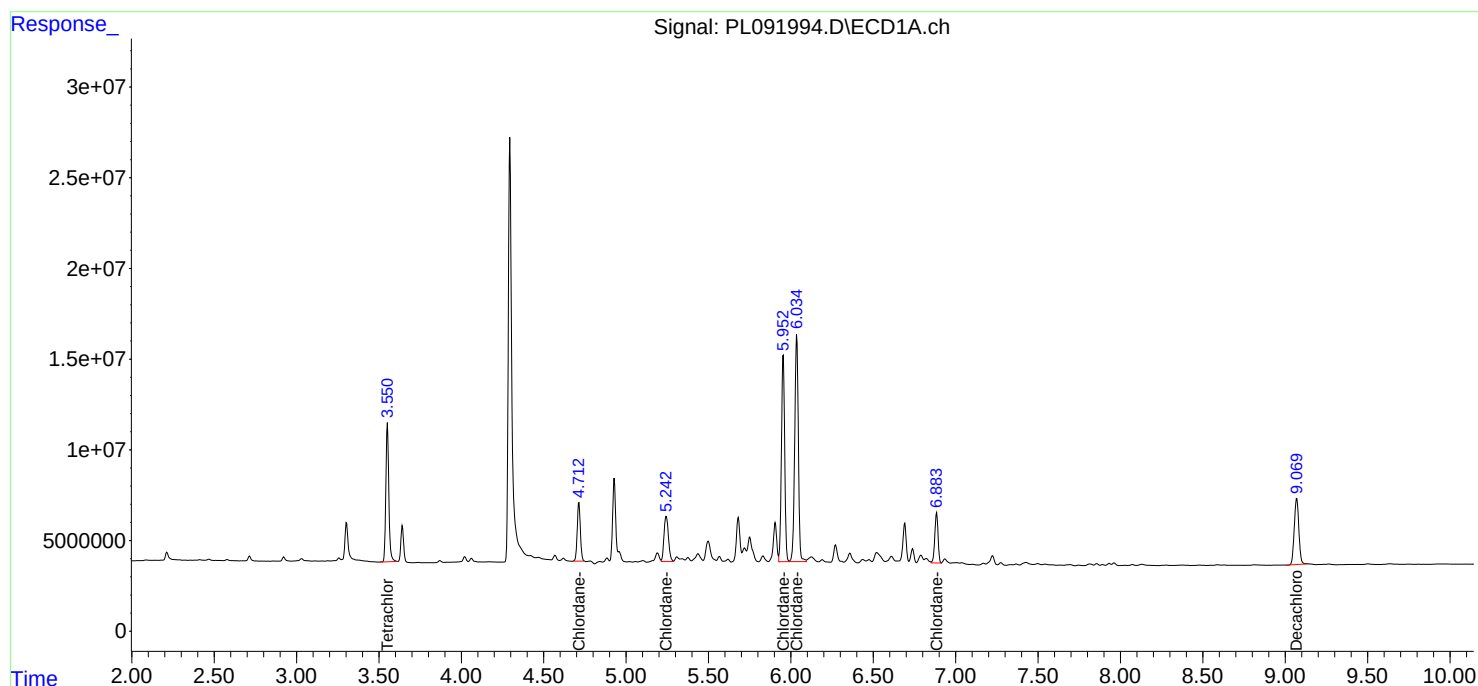
## APPROVED

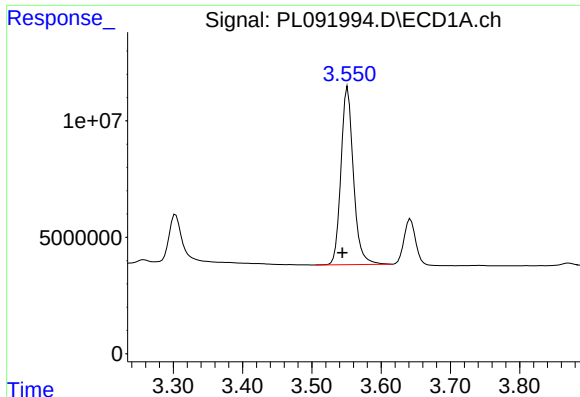
Reviewed By :Abdul Mirza 09/25/2024

Supervised By :Ankita Jodhani 09/25/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 25 01:17:10 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 16:44:57 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





## #1 Tetrachloro-m-xylene

R.T.: 3.552 min  
Delta R.T.: 0.008 min  
Response: 95049670  
Conc: 42.73 ng/ml

Instrument :

ECD\_L

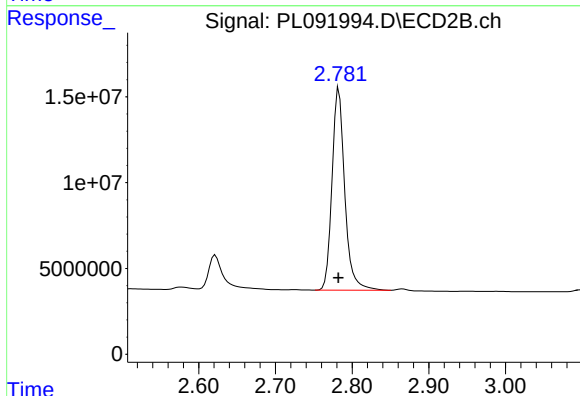
ClientSampleId :

PCHLORCCC500

## Manual Integrations

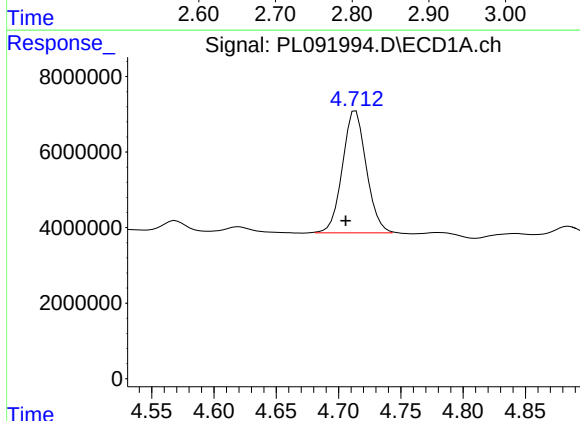
APPROVED

Reviewed By :Abdul Mirza 09/25/2024  
Supervised By :Ankita Jodhani 09/25/2024



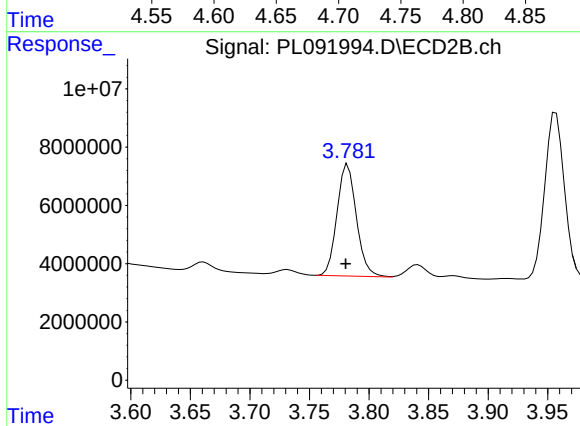
## #1 Tetrachloro-m-xylene

R.T.: 2.783 min  
Delta R.T.: 0.000 min  
Response: 135688137  
Conc: 54.10 ng/ml



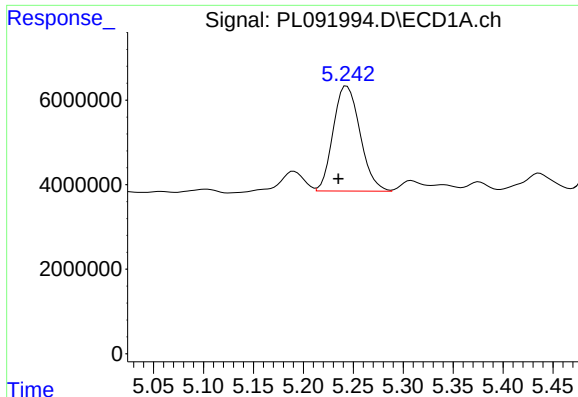
## #23 Chlordane-1

R.T.: 4.712 min  
Delta R.T.: 0.007 min  
Response: 43126462  
Conc: 420.77 ng/ml m



## #23 Chlordane-1

R.T.: 3.782 min  
Delta R.T.: 0.002 min  
Response: 43388546  
Conc: 433.97 ng/ml



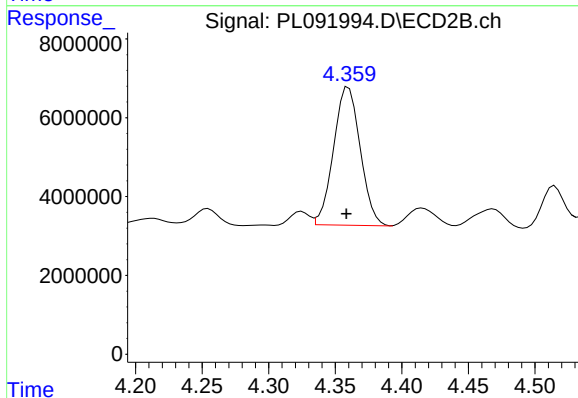
## #24 Chlordane-2

R.T.: 5.244 min  
Delta R.T.: 0.009 min  
Response: 46528308  
Conc: 433.84 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

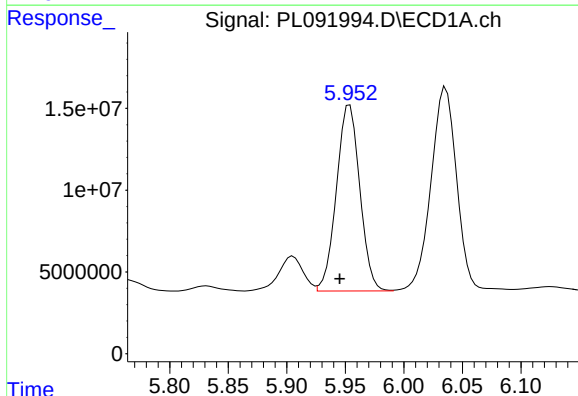
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/25/2024  
Supervised By :Ankita Jodhani 09/25/2024



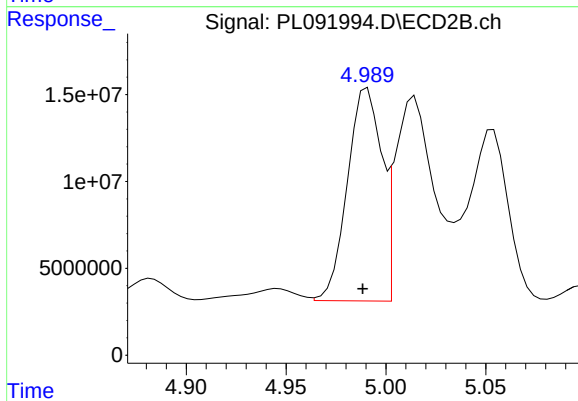
## #24 Chlordane-2

R.T.: 4.360 min  
Delta R.T.: 0.002 min  
Response: 48939231  
Conc: 436.08 ng/ml



## #25 Chlordane-3

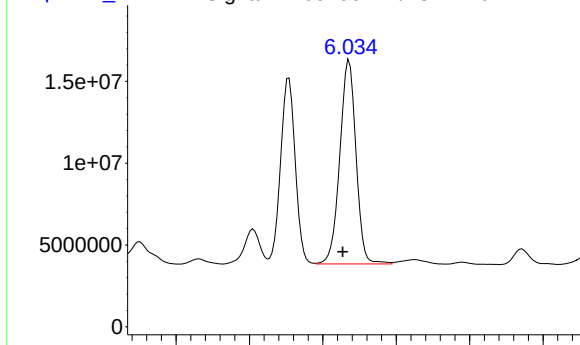
R.T.: 5.954 min  
Delta R.T.: 0.009 min  
Response: 158325342  
Conc: 422.68 ng/ml



## #25 Chlordane-3

R.T.: 4.991 min  
Delta R.T.: 0.002 min  
Response: 145656587  
Conc: 439.75 ng/ml

Response\_ Signal: PL091994.D\ECD1A.ch



#26 Chlordane-4

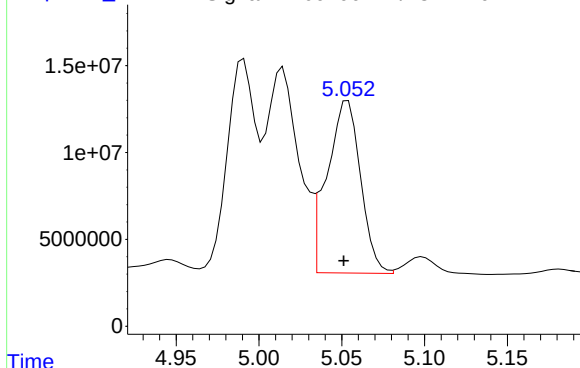
R.T.: 6.036 min  
Delta R.T.: 0.009 min  
Response: 191363620  
Conc: 422.58 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/25/2024  
Supervised By :Ankita Jodhani 09/25/2024

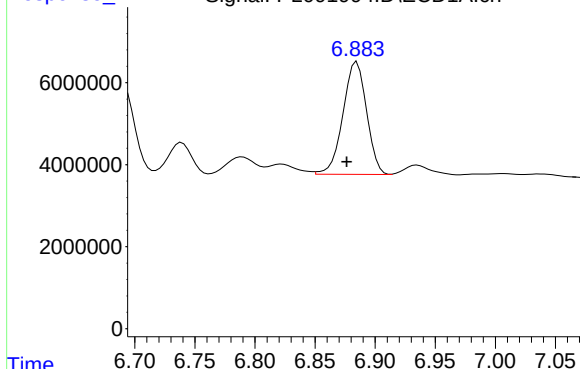
Time Response\_ Signal: PL091994.D\ECD2B.ch



#26 Chlordane-4

R.T.: 5.054 min  
Delta R.T.: 0.003 min  
Response: 139597788  
Conc: 439.98 ng/ml

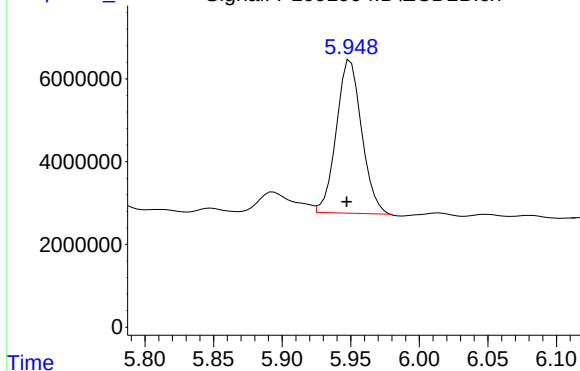
Time Response\_ Signal: PL091994.D\ECD1A.ch



#27 Chlordane-5

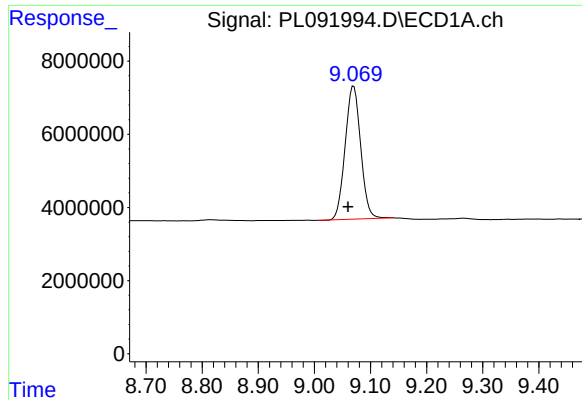
R.T.: 6.885 min  
Delta R.T.: 0.008 min  
Response: 37579863  
Conc: 430.89 ng/ml

Time Response\_ Signal: PL091994.D\ECD2B.ch



#27 Chlordane-5

R.T.: 5.950 min  
Delta R.T.: 0.003 min  
Response: 47638832  
Conc: 439.27 ng/ml



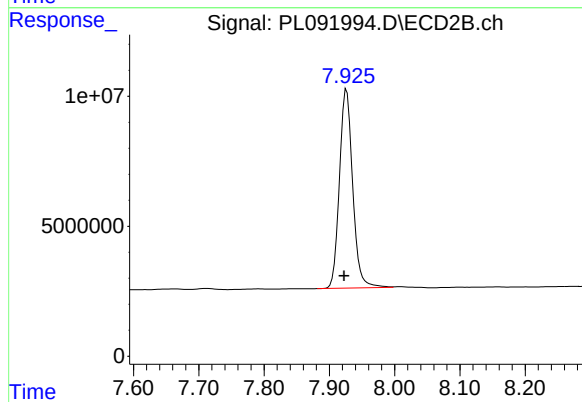
#28 Decachlorobiphenyl

R.T.: 9.070 min  
Delta R.T.: 0.010 min  
Response: 69955035  
Conc: 42.70 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

Manual Integrations  
**APPROVED**

Reviewed By :Abdul Mirza 09/25/2024  
Supervised By :Ankita Jodhani 09/25/2024



#28 Decachlorobiphenyl

R.T.: 7.926 min  
Delta R.T.: 0.004 min  
Response: 107937423  
Conc: 43.14 ng/ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/24/2024 Initial Calibration Date(s): 09/23/2024 09/23/2024

Continuing Calib Time: 14:35 Initial Calibration Time(s): 12:39 13:33

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

| COMPOUND             |     | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|-----|------------|-----------|-----------|------|------------|
|                      |     |            |           | FROM      | TO   |            |
| Chlordane-1          | (1) | 4.71       | 4.71      | 4.61      | 4.81 | 0.00       |
| Chlordane-2          | (2) | 5.24       | 5.24      | 5.14      | 5.34 | 0.00       |
| Chlordane-3          | (3) | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Chlordane-4          | (4) | 6.03       | 6.03      | 5.93      | 6.13 | 0.00       |
| Chlordane-5          | (5) | 6.88       | 6.88      | 6.78      | 6.98 | 0.00       |
| Decachlorobiphenyl   |     | 9.06       | 9.06      | 8.96      | 9.16 | 0.00       |
| Tetrachloro-m-xylene |     | 3.54       | 3.54      | 3.44      | 3.64 | 0.00       |



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Fax : 908 789 8922

### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Continuing Calib Date: 09/24/2024 Initial Calibration Date(s): 09/23/2024 09/23/2024

Continuing Calib Time: 14:35 Initial Calibration Time(s): 12:39 13:33

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

| COMPOUND             | CCAL<br>RT | AVG<br>RT | RT WINDOW |      | DIFF<br>RT |
|----------------------|------------|-----------|-----------|------|------------|
|                      |            |           | FROM      | TO   |            |
| Chlordane-1 (1)      | 3.78       | 3.78      | 3.68      | 3.88 | 0.00       |
| Chlordane-2 (2)      | 4.36       | 4.36      | 4.26      | 4.46 | 0.00       |
| Chlordane-3 (3)      | 4.99       | 4.99      | 4.89      | 5.09 | 0.00       |
| Chlordane-4 (4)      | 5.05       | 5.05      | 4.95      | 5.15 | 0.00       |
| Chlordane-5 (5)      | 5.95       | 5.95      | 5.85      | 6.05 | 0.00       |
| Decachlorobiphenyl   | 7.92       | 7.92      | 7.82      | 8.02 | 0.00       |
| Tetrachloro-m-xylene | 2.78       | 2.78      | 2.68      | 2.88 | 0.00       |





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**CALIBRATION VERIFICATION SUMMARY**
**Contract:** CHEM02
**Lab Code:** CHEM      **Case No.:** P3845      **SAS No.:** P3845      **SDG NO.:** P3845
**GC Column:** ZB-MR2      **ID:** 0.32 (mm)      **Initi. Calib. Date(s):** 09/23/2024      09/23/2024
**Client Sample No.:** CCAL06      **Date Analyzed:** 09/24/2024
**Lab Sample No.:** PCHLORCCC500      **Data File :** PL092004.D      **Time Analyzed:** 14:35

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D    |
|----------------------|-------|-----------|-------|--------------------|-------------------|-------|
|                      |       | FROM      | TO    |                    |                   |       |
| Chlordane-1          | 4.706 | 4.606     | 4.806 | 440.860            | 500.000           | -11.8 |
| Chlordane-2          | 5.235 | 5.136     | 5.336 | 440.530            | 500.000           | -11.9 |
| Chlordane-3          | 5.946 | 5.846     | 6.046 | 440.740            | 500.000           | -11.9 |
| Chlordane-4          | 6.027 | 5.928     | 6.128 | 442.260            | 500.000           | -11.5 |
| Chlordane-5          | 6.876 | 6.777     | 6.977 | 447.250            | 500.000           | -10.6 |
| Decachlorobiphenyl   | 9.060 | 8.961     | 9.161 | 44.760             | 50.000            | -10.5 |
| Tetrachloro-m-xylene | 3.544 | 3.444     | 3.644 | 44.150             | 50.000            | -11.7 |



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### CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

GC Column: ZB-MR1 ID: 0.32 (mm) Initi. Calib. Date(s): 09/23/2024 09/23/2024

Client Sample No.: CCAL06 Date Analyzed: 09/24/2024

Lab Sample No.: PCHLORCCC500 Data File : PL092004.D Time Analyzed: 14:35

| COMPOUND             | RT    | RT WINDOW |       | CALC<br>AMOUNT(ng) | NOM<br>AMOUNT(ng) | %D   |
|----------------------|-------|-----------|-------|--------------------|-------------------|------|
|                      |       | FROM      | TO    |                    |                   |      |
| Chlordane-1          | 3.781 | 3.681     | 3.881 | 455.810            | 500.000           | -8.8 |
| Chlordane-2          | 4.358 | 4.258     | 4.458 | 454.570            | 500.000           | -9.1 |
| Chlordane-3          | 4.989 | 4.889     | 5.089 | 461.980            | 500.000           | -7.6 |
| Chlordane-4          | 5.051 | 4.951     | 5.151 | 459.420            | 500.000           | -8.1 |
| Chlordane-5          | 5.947 | 5.847     | 6.047 | 458.530            | 500.000           | -8.3 |
| Decachlorobiphenyl   | 7.923 | 7.824     | 8.024 | 45.170             | 50.000            | -9.7 |
| Tetrachloro-m-xylene | 2.782 | 2.682     | 2.882 | 56.090             | 50.000            | 12.2 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092424\  
 Data File : PL092004.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 24 Sep 2024 14:35  
 Operator : AR\AJ  
 Sample : PCHLORCCC500  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PCHLORCCC500

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 25 01:18:58 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 16:44:57 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

|                             | Compound        | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml   | ng/ml    |
|-----------------------------|-----------------|-------|-------|----------|----------|---------|----------|
| -----                       |                 |       |       |          |          |         |          |
| System Monitoring Compounds |                 |       |       |          |          |         |          |
| 1)                          | SA Tetrachlo... | 3.544 | 2.782 | 98225428 | 140.7E6  | 44.153  | 56.089 # |
| 28)                         | SA Decachlor... | 9.060 | 7.923 | 73319861 | 113.0E6  | 44.756  | 45.172   |
| Target Compounds            |                 |       |       |          |          |         |          |
| 23)                         | Chlordane-1     | 4.706 | 3.781 | 45186114 | 45572058 | 440.864 | 455.808  |
| 24)                         | Chlordane-2     | 5.235 | 4.358 | 47245210 | 51014589 | 440.529 | 454.570  |
| 25)                         | Chlordane-3     | 5.946 | 4.989 | 165.1E6  | 153.0E6  | 440.743 | 461.976  |
| 26)                         | Chlordane-4     | 6.027 | 5.051 | 200.3E6  | 145.8E6  | 442.260 | 459.421  |
| 27)                         | Chlordane-5     | 6.876 | 5.947 | 39006794 | 49726991 | 447.249 | 458.527  |
| -----                       |                 |       |       |          |          |         |          |

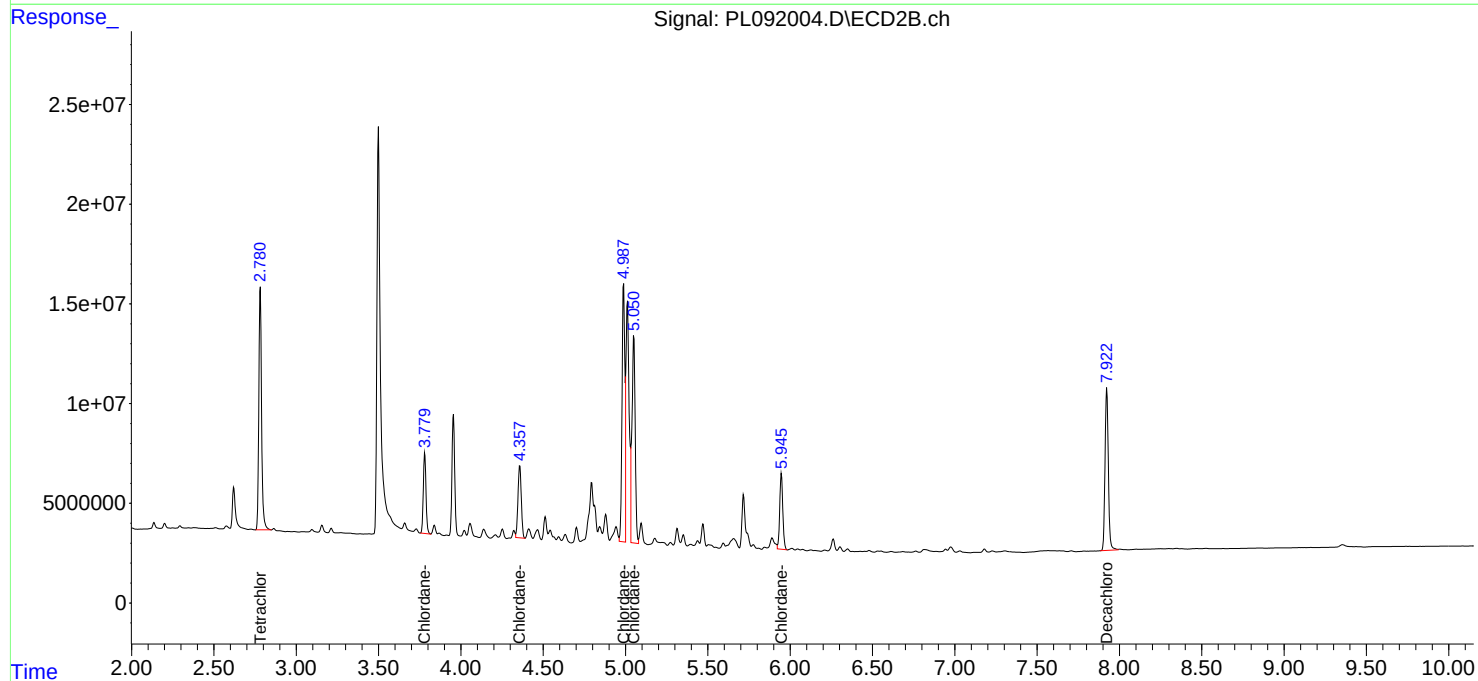
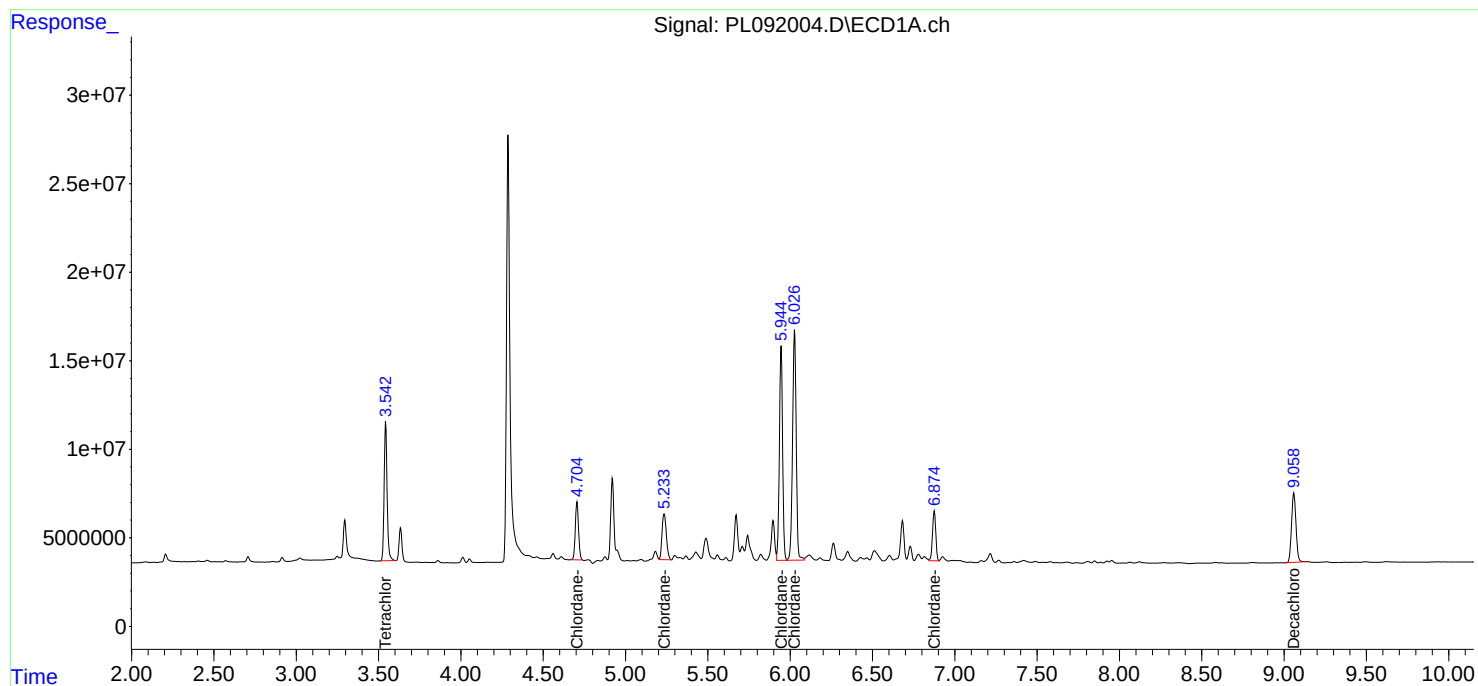
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

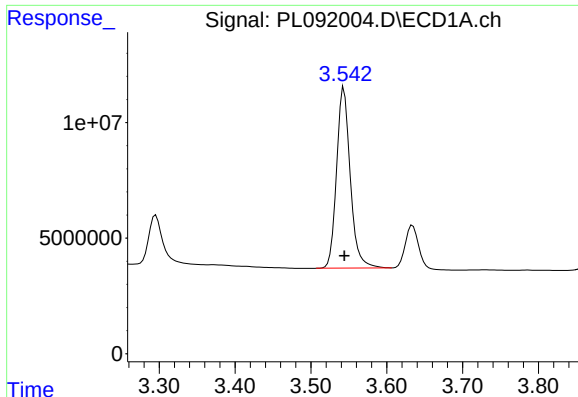
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092424\  
Data File : PL092004.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 24 Sep 2024 14:35  
Operator : AR\AJ  
Sample : PCHLORCCC500  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 25 01:18:58 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 16:44:57 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

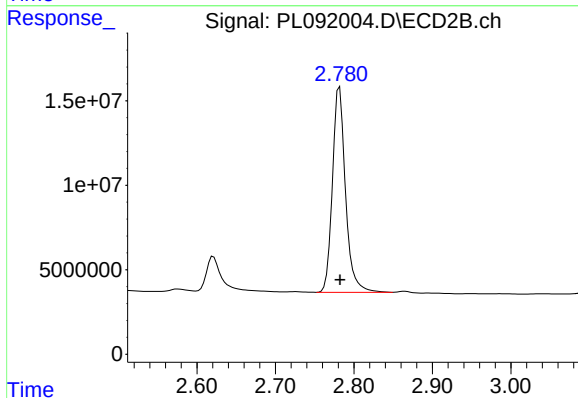




## #1 Tetrachloro-m-xylene

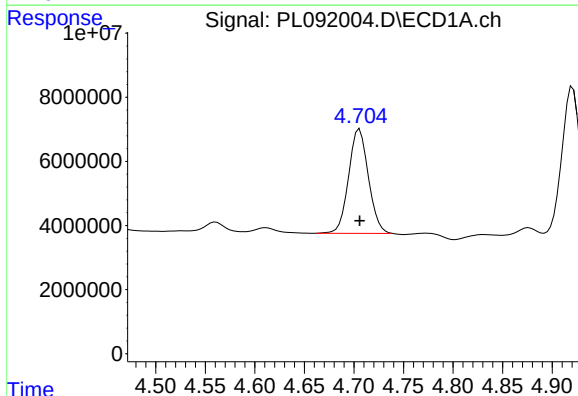
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 98225428  
Conc: 44.15 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500



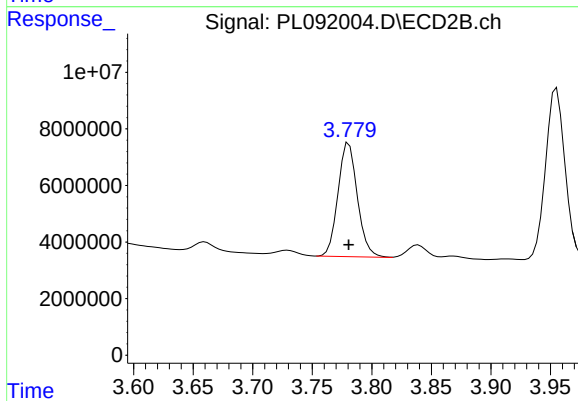
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 140674561  
Conc: 56.09 ng/ml



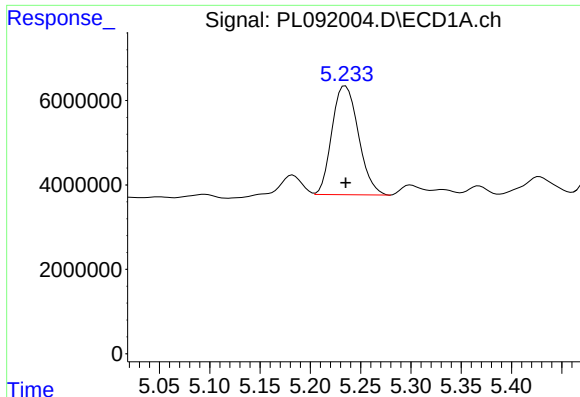
## #23 Chlordane-1

R.T.: 4.706 min  
Delta R.T.: 0.000 min  
Response: 45186114  
Conc: 440.86 ng/ml



## #23 Chlordane-1

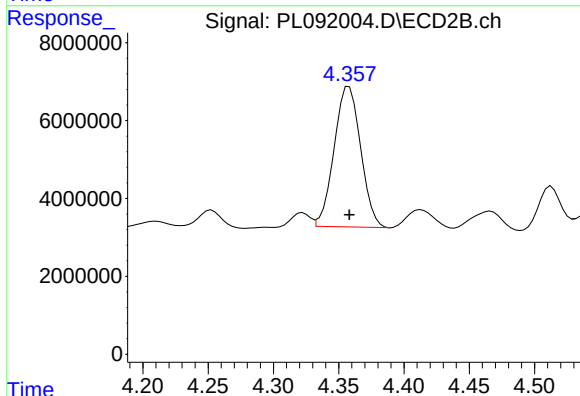
R.T.: 3.781 min  
Delta R.T.: 0.000 min  
Response: 45572058  
Conc: 455.81 ng/ml



#24 Chlordane-2

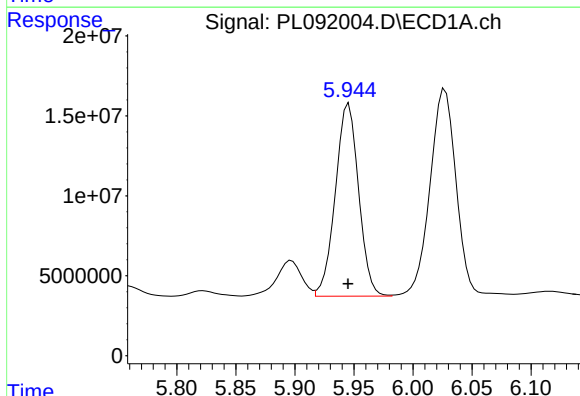
R.T.: 5.235 min  
Delta R.T.: 0.000 min  
Response: 47245210  
Conc: 440.53 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500



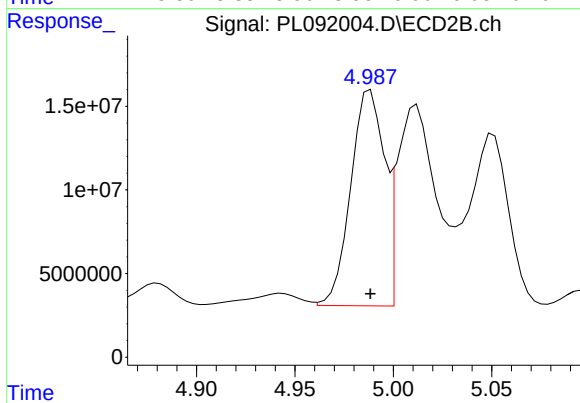
#24 Chlordane-2

R.T.: 4.358 min  
Delta R.T.: 0.000 min  
Response: 51014589  
Conc: 454.57 ng/ml



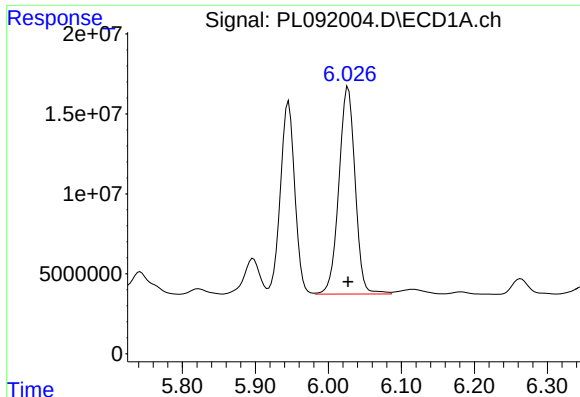
#25 Chlordane-3

R.T.: 5.946 min  
Delta R.T.: 0.000 min  
Response: 165092049  
Conc: 440.74 ng/ml



#25 Chlordane-3

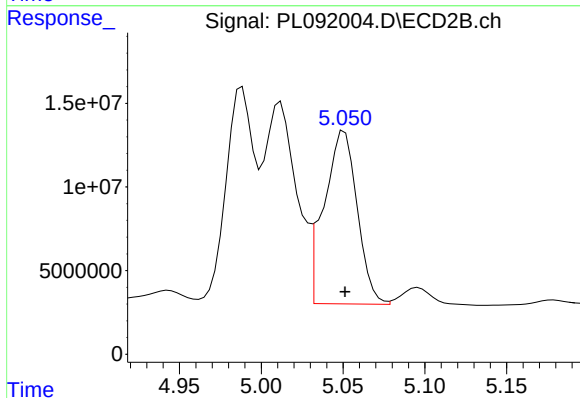
R.T.: 4.989 min  
Delta R.T.: 0.000 min  
Response: 153019638  
Conc: 461.98 ng/ml



#26 Chlordane-4

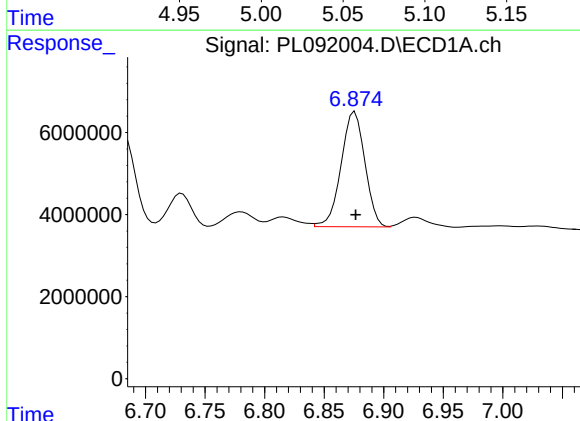
R.T.: 6.027 min  
Delta R.T.: 0.000 min  
Response: 200275658  
Conc: 442.26 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500



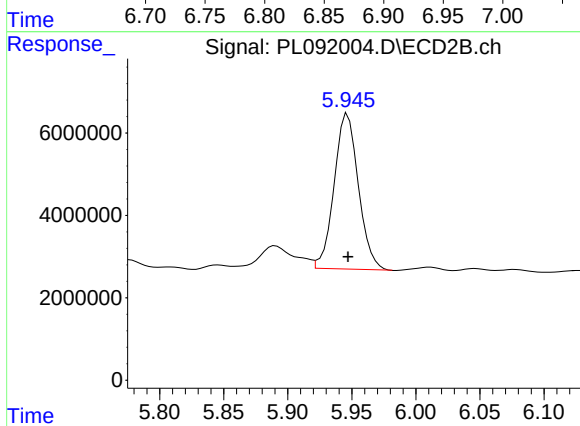
#26 Chlordane-4

R.T.: 5.051 min  
Delta R.T.: 0.000 min  
Response: 145765896  
Conc: 459.42 ng/ml



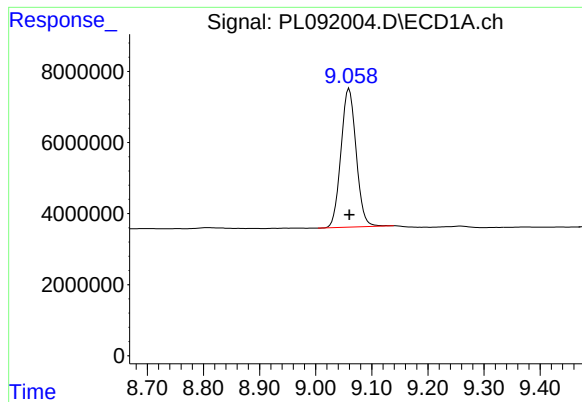
#27 Chlordane-5

R.T.: 6.876 min  
Delta R.T.: 0.000 min  
Response: 39006794  
Conc: 447.25 ng/ml



#27 Chlordane-5

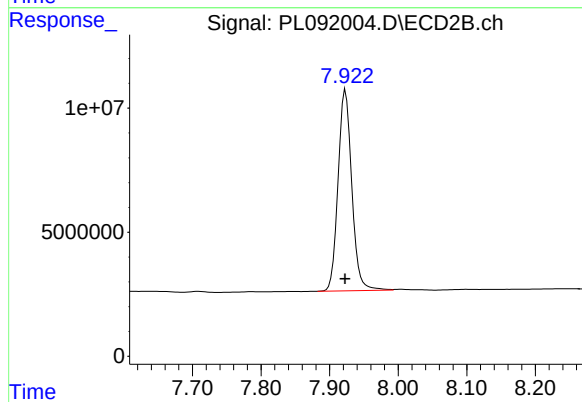
R.T.: 5.947 min  
Delta R.T.: 0.000 min  
Response: 49726991  
Conc: 458.53 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.060 min  
Delta R.T.: 0.000 min  
Response: 73319861  
Conc: 44.76 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PCHLORCCC500



#28 Decachlorobiphenyl

R.T.: 7.923 min  
Delta R.T.: 0.000 min  
Response: 113018494  
Conc: 45.17 ng/ml



## Analytical Sequence

**Client:** Chemtech Consulting Group

**SDG No.:** P3845

**Project:** NJ Waste Water PT

**Instrument ID:** ECD\_L

**GC Column:** ZB-MR2

**ID:** 0.32 (mm)

**Inst. Calib. Date(s):** 09/09/2024

09/09/2024

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | DATAFILE   | DCB<br>RT # | TCX<br>RT # |
|-------------------|------------------|------------------|------------------|------------|-------------|-------------|
| IBLK              | IBLK             | 09/09/2024       | 14:50            | PL091568.D | 9.06        | 3.54        |
| PCHLORICC1000     | PCHLORICC1000    | 09/09/2024       | 16:39            | PL091576.D | 9.06        | 3.55        |
| PCHLORICC750      | PCHLORICC750     | 09/09/2024       | 16:52            | PL091577.D | 9.06        | 3.54        |
| PCHLORICC500      | PCHLORICC500     | 09/09/2024       | 17:06            | PL091578.D | 9.06        | 3.54        |
| PCHLORICC250      | PCHLORICC250     | 09/09/2024       | 17:19            | PL091579.D | 9.06        | 3.54        |
| PCHLORICC050      | PCHLORICC050     | 09/09/2024       | 17:33            | PL091580.D | 9.05        | 3.54        |
| IBLK              | IBLK             | 09/10/2024       | 10:57            | PL091604.D | 9.06        | 3.54        |
| PCHLORCCC500      | PCHLORCCC500     | 09/10/2024       | 11:56            | PL091607.D | 9.06        | 3.55        |
| PB163230BL        | PB163230BL       | 09/10/2024       | 13:52            | PL091615.D | 9.06        | 3.54        |
| IBLK              | IBLK             | 09/10/2024       | 16:56            | PL091623.D | 9.06        | 3.54        |
| PCHLORCCC500      | PCHLORCCC500     | 09/10/2024       | 17:24            | PL091625.D | 9.06        | 3.54        |
| IBLK              | IBLK             | 09/17/2024       | 11:20            | PL091777.D | 9.06        | 3.54        |
| PCHLORCCC500      | PCHLORCCC500     | 09/17/2024       | 12:21            | PL091780.D | 9.06        | 3.55        |
| PB163230BS        | PB163230BS       | 09/17/2024       | 12:40            | PL091781.D | 9.07        | 3.55        |
| IBLK              | IBLK             | 09/17/2024       | 14:50            | PL091784.D | 9.06        | 3.54        |
| PCHLORCCC500      | PCHLORCCC500     | 09/17/2024       | 15:37            | PL091786.D | 9.06        | 3.54        |
| IBLK              | IBLK             | 09/23/2024       | 10:52            | PL091953.D | 9.06        | 3.54        |
| PCHLORICC1000     | PCHLORICC1000    | 09/23/2024       | 12:39            | PL091961.D | 9.06        | 3.54        |
| PCHLORICC750      | PCHLORICC750     | 09/23/2024       | 12:52            | PL091962.D | 9.06        | 3.54        |
| PCHLORICC500      | PCHLORICC500     | 09/23/2024       | 13:06            | PL091963.D | 9.06        | 3.54        |
| PCHLORICC250      | PCHLORICC250     | 09/23/2024       | 13:19            | PL091964.D | 9.06        | 3.54        |
| PCHLORICC050      | PCHLORICC050     | 09/23/2024       | 13:33            | PL091965.D | 9.06        | 3.54        |
| IBLK              | IBLK             | 09/24/2024       | 09:28            | PL091991.D | 9.06        | 3.55        |
| PCHLORCCC500      | PCHLORCCC500     | 09/24/2024       | 12:02            | PL091994.D | 9.07        | 3.55        |
| PT-CHLR-WP        | P3845-11         | 09/24/2024       | 12:49            | PL091997.D | 9.06        | 3.54        |
| IBLK              | IBLK             | 09/24/2024       | 14:08            | PL092002.D | 9.06        | 3.54        |
| PCHLORCCC500      | PCHLORCCC500     | 09/24/2024       | 14:35            | PL092004.D | 9.06        | 3.54        |

## Analytical Sequence

**Client:** Chemtech Consulting Group

**SDG No.:** P3845

**Project:** NJ Waste Water PT

**Instrument ID:** ECD\_L

**GC Column:** ZB-MR1

**ID:** 0.32 (mm)

**Inst. Calib. Date(s):** 09/09/2024

09/09/2024

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | DATE<br>ANALYZED | TIME<br>ANALYZED | DATAFILE   | DCB<br>RT # | TCX<br>RT # |
|-------------------|------------------|------------------|------------------|------------|-------------|-------------|
| LBLK              | LBLK             | 09/09/2024       | 14:50            | PL091568.D | 7.92        | 2.78        |
| PCHLORICC1000     | PCHLORICC1000    | 09/09/2024       | 16:39            | PL091576.D | 7.93        | 2.78        |
| PCHLORICC750      | PCHLORICC750     | 09/09/2024       | 16:52            | PL091577.D | 7.93        | 2.78        |
| PCHLORICC500      | PCHLORICC500     | 09/09/2024       | 17:06            | PL091578.D | 7.93        | 2.78        |
| PCHLORICC250      | PCHLORICC250     | 09/09/2024       | 17:19            | PL091579.D | 7.93        | 2.78        |
| PCHLORICC050      | PCHLORICC050     | 09/09/2024       | 17:33            | PL091580.D | 7.92        | 2.78        |
| LBLK              | LBLK             | 09/10/2024       | 10:57            | PL091604.D | 7.92        | 2.78        |
| PCHLORCCC500      | PCHLORCCC500     | 09/10/2024       | 11:56            | PL091607.D | 7.93        | 2.78        |
| PB163230BL        | PB163230BL       | 09/10/2024       | 13:52            | PL091615.D | 7.92        | 2.78        |
| LBLK              | LBLK             | 09/10/2024       | 16:56            | PL091623.D | 7.92        | 2.78        |
| PCHLORCCC500      | PCHLORCCC500     | 09/10/2024       | 17:24            | PL091625.D | 7.92        | 2.78        |
| LBLK              | LBLK             | 09/17/2024       | 11:20            | PL091777.D | 7.92        | 2.78        |
| PCHLORCCC500      | PCHLORCCC500     | 09/17/2024       | 12:21            | PL091780.D | 7.92        | 2.78        |
| PB163230BS        | PB163230BS       | 09/17/2024       | 12:40            | PL091781.D | 7.93        | 2.78        |
| LBLK              | LBLK             | 09/17/2024       | 14:50            | PL091784.D | 7.92        | 2.78        |
| PCHLORCCC500      | PCHLORCCC500     | 09/17/2024       | 15:37            | PL091786.D | 7.92        | 2.78        |
| LBLK              | LBLK             | 09/23/2024       | 10:52            | PL091953.D | 7.92        | 2.78        |
| PCHLORICC1000     | PCHLORICC1000    | 09/23/2024       | 12:39            | PL091961.D | 7.92        | 2.78        |
| PCHLORICC750      | PCHLORICC750     | 09/23/2024       | 12:52            | PL091962.D | 7.92        | 2.78        |
| PCHLORICC500      | PCHLORICC500     | 09/23/2024       | 13:06            | PL091963.D | 7.92        | 2.78        |
| PCHLORICC250      | PCHLORICC250     | 09/23/2024       | 13:19            | PL091964.D | 7.92        | 2.78        |
| PCHLORICC050      | PCHLORICC050     | 09/23/2024       | 13:33            | PL091965.D | 7.92        | 2.78        |
| LBLK              | LBLK             | 09/24/2024       | 09:28            | PL091991.D | 7.92        | 2.78        |
| PCHLORCCC500      | PCHLORCCC500     | 09/24/2024       | 12:02            | PL091994.D | 7.93        | 2.78        |
| PT-CHLR-WP        | P3845-11         | 09/24/2024       | 12:49            | PL091997.D | 7.92        | 2.78        |
| LBLK              | LBLK             | 09/24/2024       | 14:08            | PL092002.D | 7.92        | 2.78        |
| PCHLORCCC500      | PCHLORCCC500     | 09/24/2024       | 14:35            | PL092004.D | 7.92        | 2.78        |

### COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB163230BS

Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab Sample ID: PB163230BS Date(s) Analyzed: 09/17/2024 09/17/2024

Instrument ID (1): ECD\_L Instrument ID (2): ECD\_L

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

| ANALYTE   | COL | RT   | RT WINDOW |      | CONCENTRATION | %RPD |
|-----------|-----|------|-----------|------|---------------|------|
|           |     |      | FROM      | TO   |               |      |
| Chlordane | 1   | 5.76 | 5.71      | 5.81 | 2.10          | 4.9  |
|           | 2   | 4.83 | 4.78      | 4.88 | 2.00          |      |

**COMPOUND DETECTION SUMMARY**

**CLIENT SAMPLE NO.**

**PT-CHLR-WP**

**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** P3845 **SAS No.:** P3845 **SDG NO.:** P3845

**Lab Sample ID:** P3845-11 **Date(s) Analyzed:** 09/24/2024 09/24/2024

**Instrument ID (1):** ECD\_L **Instrument ID (2):** ECD\_L

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

| ANALYTE   | COL | RT   | RT WINDOW |      | CONCENTRATION | %RPD |
|-----------|-----|------|-----------|------|---------------|------|
|           |     |      | FROM      | TO   |               |      |
| Chlordane | 1   | 5.76 | 5.71      | 5.81 | 8.00          | 11.8 |
|           | 2   | 4.83 | 4.78      | 4.88 | 9.00          |      |



# QC SAMPLE DATA

## Report of Analysis

|                    |                           |           |                    |                  |           |
|--------------------|---------------------------|-----------|--------------------|------------------|-----------|
| Client:            | Chemtech Consulting Group |           | Date Collected:    |                  |           |
| Project:           | NJ Waste Water PT         |           | Date Received:     |                  |           |
| Client Sample ID:  | PB163230BL                |           | SDG No.:           | P3845            |           |
| Lab Sample ID:     | PB163230BL                |           | Matrix:            | WATER            |           |
| Analytical Method: | SW8081                    |           | % Solid:           | 0                | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: mL | Final Vol:         | 10000            | uL        |
| Soil Aliquot Vol:  |                           | uL        | Test:              | PESTICIDE Group2 |           |
| Extraction Type:   |                           |           | Injection Volume : |                  |           |
| GPC Factor :       | 1.0                       | PH :      |                    |                  |           |
| Prep Method :      | 3510C                     |           |                    |                  |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL091615.D        | 1         | 09/09/24 10:00 | 09/10/24 13:52 | PB163230      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 22.5  |           | 43 - 140 | 113%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 20.6  |           | 77 - 126 | 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\_L\Data\PL091024\  
 Data File : PL091615.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 10 Sep 2024 13:52  
 Operator : AR\AJ  
 Sample : PB163230BL  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 PB163230BL

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 11 05:34:01 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 19:26:36 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-------|-------|----------|----------|--------|--------|
| -----                       |       |       |          |          |        |        |
| System Monitoring Compounds |       |       |          |          |        |        |
| 1) SA Tetrachlo...          | 3.543 | 2.782 | 31537145 | 38623150 | 20.234 | 20.651 |
| 28) SA Decachlor...         | 9.060 | 7.924 | 24526283 | 41610203 | 20.181 | 22.534 |

Target Compounds

-----

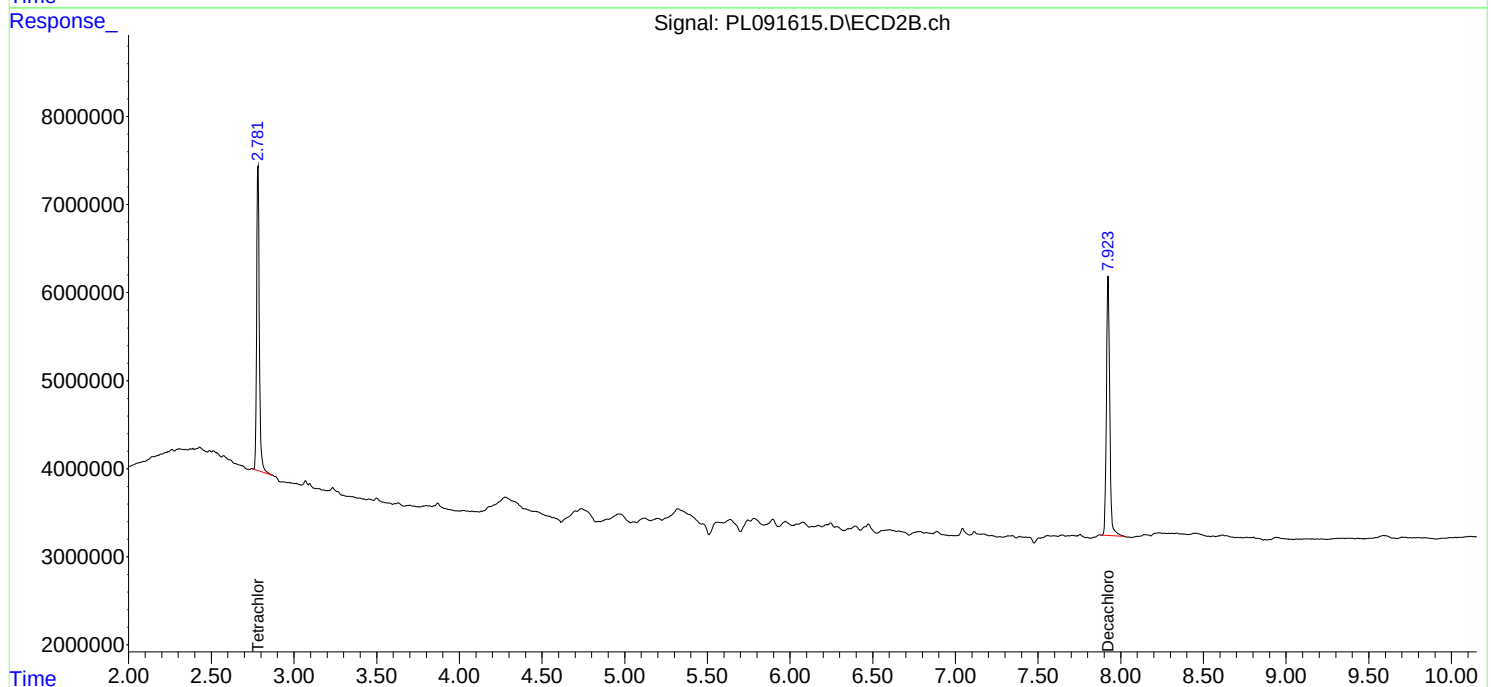
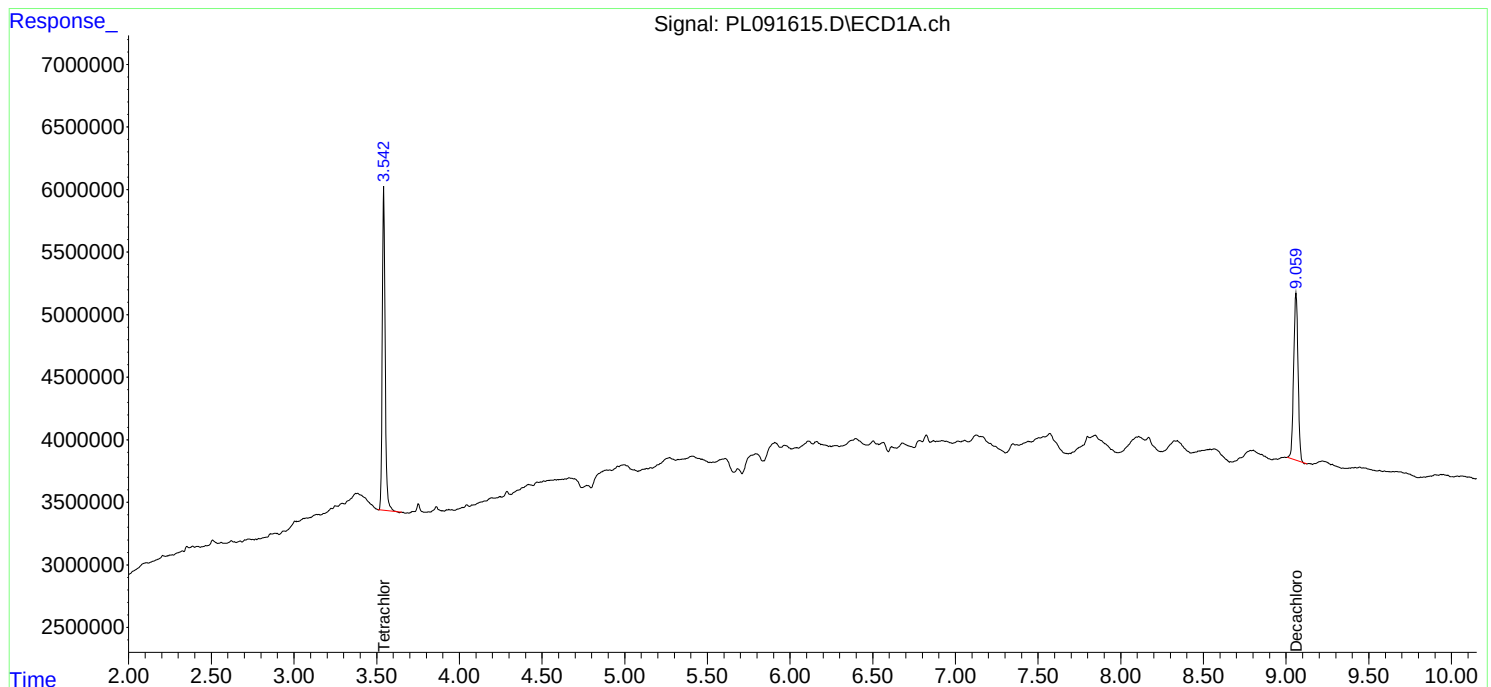
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091024\  
Data File : PL091615.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 10 Sep 2024 13:52  
Operator : AR\AJ  
Sample : PB163230BL  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

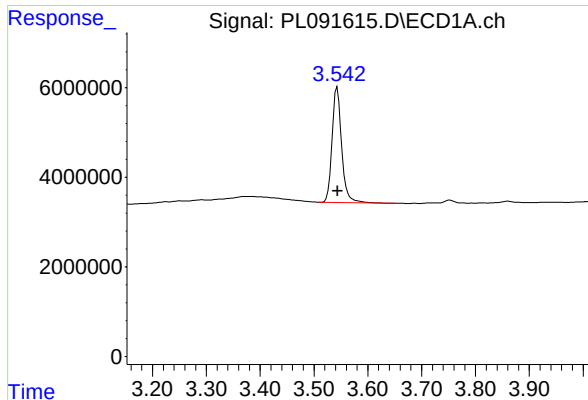
Instrument :  
ECD\_L  
ClientSampleId :  
PB163230BL

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 11 05:34:01 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



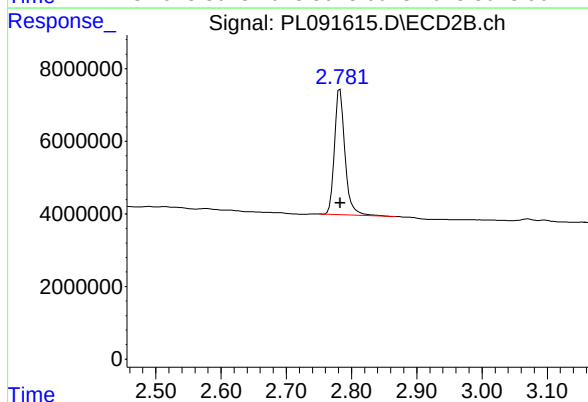




## #1 Tetrachloro-m-xylene

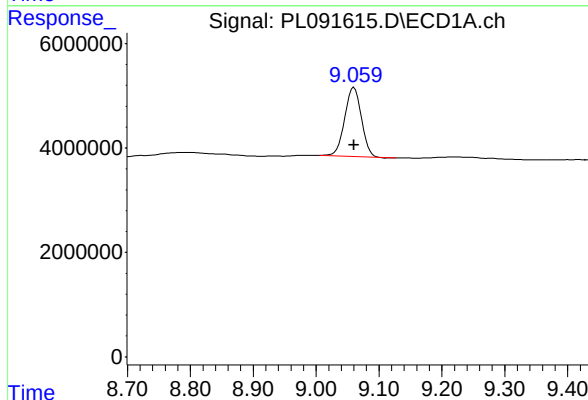
R.T.: 3.543 min  
Delta R.T.: 0.000 min  
Response: 31537145  
Conc: 20.23 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PB163230BL



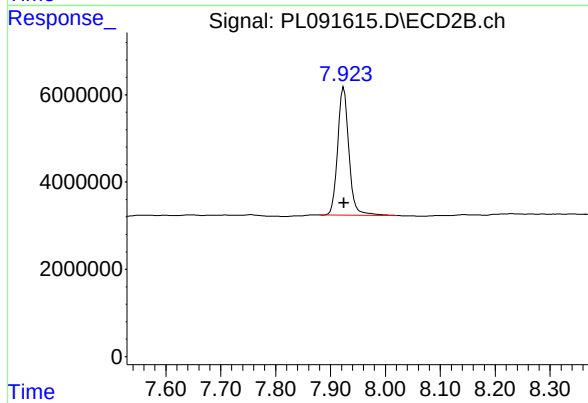
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 38623150  
Conc: 20.65 ng/ml



## #28 Decachlorobiphenyl

R.T.: 9.060 min  
Delta R.T.: 0.000 min  
Response: 24526283  
Conc: 20.18 ng/ml



## #28 Decachlorobiphenyl

R.T.: 7.924 min  
Delta R.T.: 0.000 min  
Response: 41610203  
Conc: 22.53 ng/ml

## Report of Analysis

|                    |                           |                    |                  |
|--------------------|---------------------------|--------------------|------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 09/09/24         |
| Project:           | NJ Waste Water PT         | Date Received:     | 09/09/24         |
| Client Sample ID:  | PIBLK-PL091568.D          | SDG No.:           | P3845            |
| Lab Sample ID:     | I.BLK-PL091568.D          | Matrix:            | WATER            |
| Analytical Method: | SW8081                    | % Solid:           | 0                |
| Sample Wt/Vol:     | 1000                      | Units:             | mL               |
| Soil Aliquot Vol:  |                           |                    | uL               |
| Extraction Type:   |                           | Test:              | PESTICIDE Group2 |
| GPC Factor :       | 1.0                       | PH :               |                  |
| Prep Method :      | 3510C                     | Injection Volume : |                  |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PL091568.D        | 1         |           | 09/09/24      | PL090924      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 26.7  |           | 43 - 140 | 133%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 24.3  |           | 77 - 126 | 121%       | 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\_L\Data\PL090924\  
 Data File : PL091568.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 09 Sep 2024 14:50  
 Operator : AR\AJ  
 Sample : I.BLK  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 I.BLK

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 09 18:05:14 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 17:50:55 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-------|-------|----------|----------|--------|--------|
| -----                       |       |       |          |          |        |        |
| System Monitoring Compounds |       |       |          |          |        |        |
| 1) SA Tetrachlo...          | 3.544 | 2.783 | 37715852 | 45438208 | 24.199 | 24.295 |
| 28) SA Decachlor...         | 9.060 | 7.924 | 32431838 | 48319649 | 26.686 | 26.168 |

Target Compounds

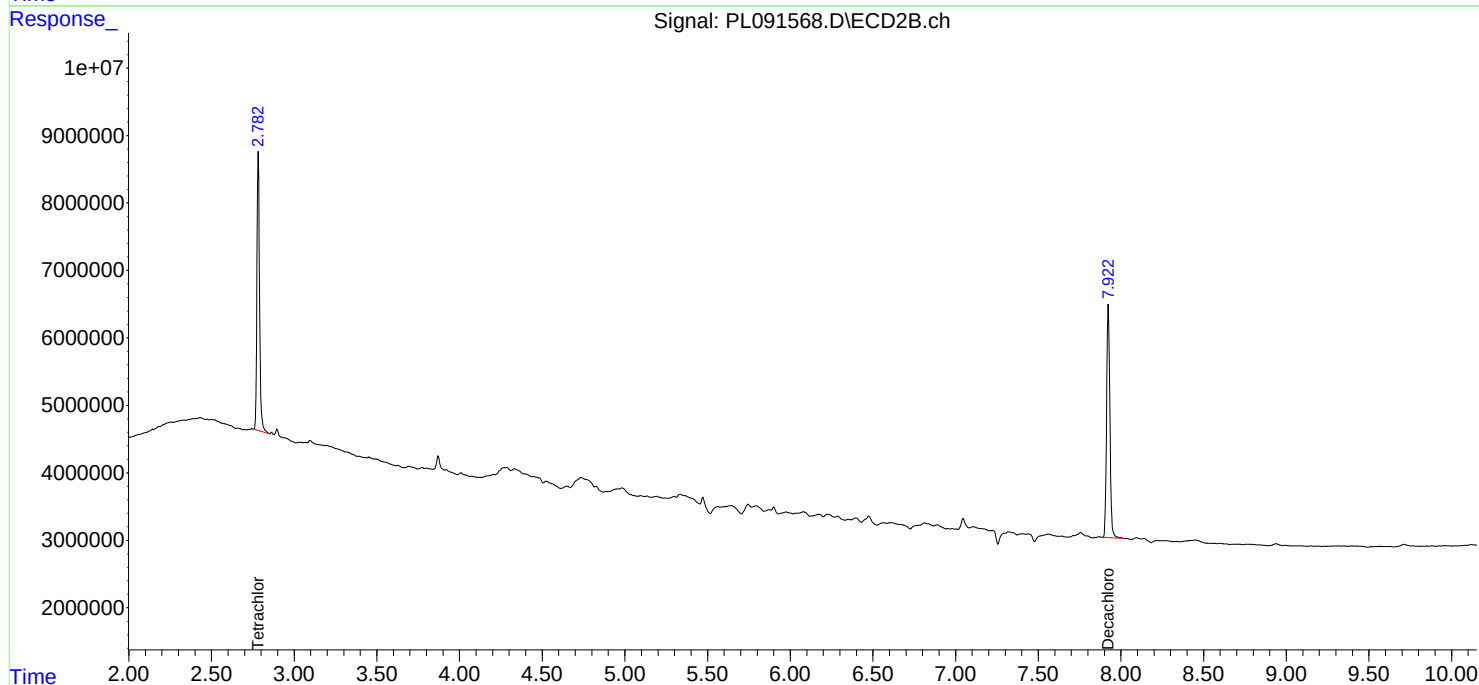
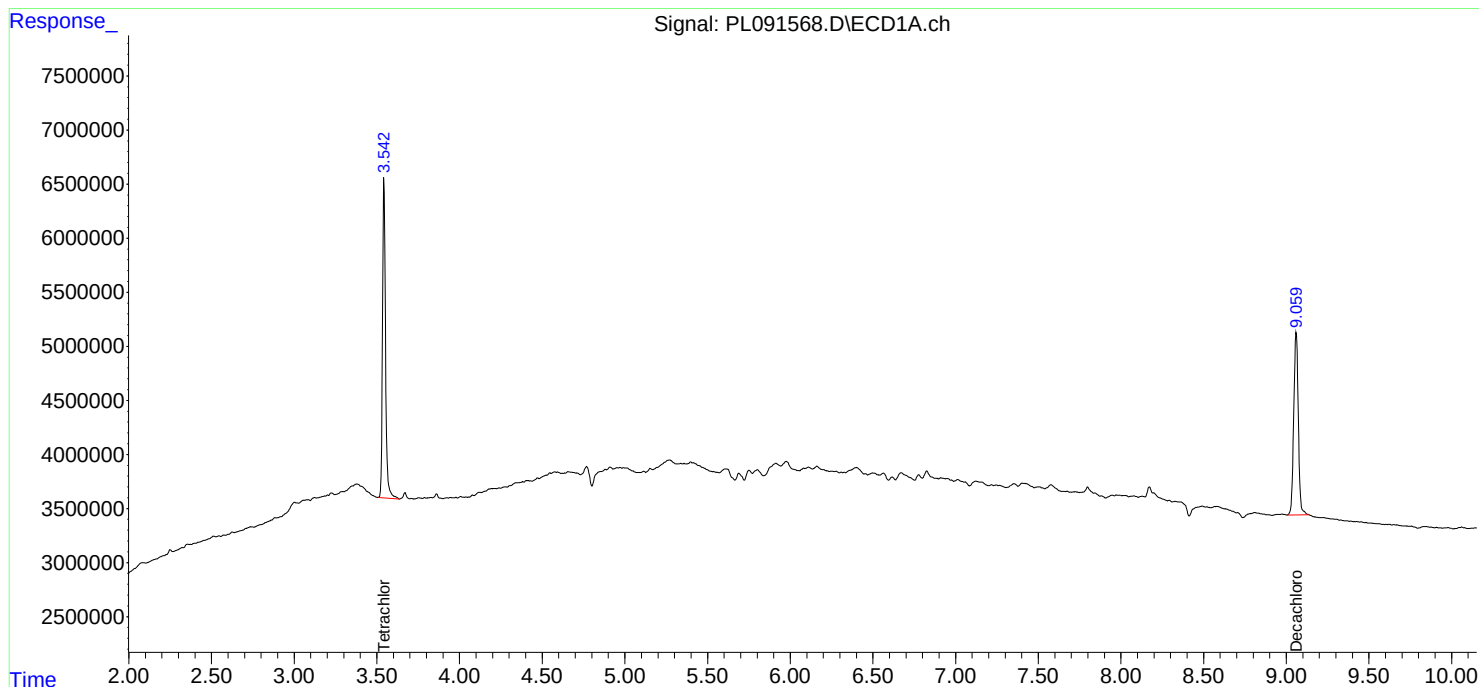
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

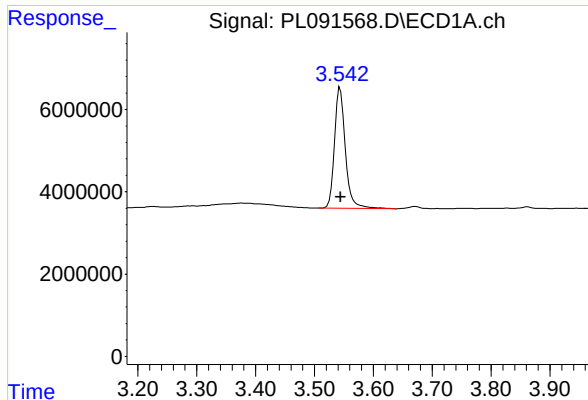
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL090924\  
Data File : PL091568.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 09 Sep 2024 14:50  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 09 18:05:14 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 17:50:55 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

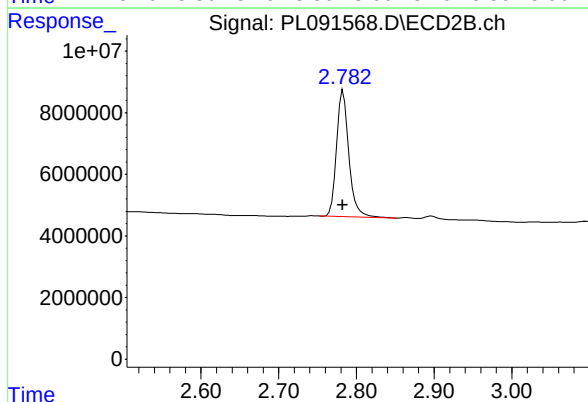




## #1 Tetrachloro-m-xylene

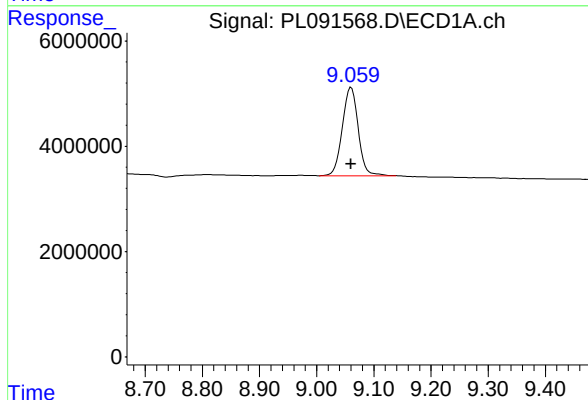
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 37715852  
Conc: 24.20 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK



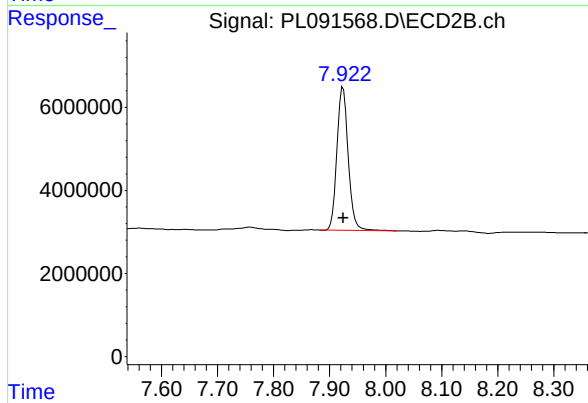
## #1 Tetrachloro-m-xylene

R.T.: 2.783 min  
Delta R.T.: 0.000 min  
Response: 45438208  
Conc: 24.29 ng/ml



## #28 Decachlorobiphenyl

R.T.: 9.060 min  
Delta R.T.: 0.000 min  
Response: 32431838  
Conc: 26.69 ng/ml



## #28 Decachlorobiphenyl

R.T.: 7.924 min  
Delta R.T.: 0.000 min  
Response: 48319649  
Conc: 26.17 ng/ml

## Report of Analysis

|                    |                           |           |                    |                  |           |
|--------------------|---------------------------|-----------|--------------------|------------------|-----------|
| Client:            | Chemtech Consulting Group |           | Date Collected:    | 09/10/24         |           |
| Project:           | NJ Waste Water PT         |           | Date Received:     | 09/10/24         |           |
| Client Sample ID:  | PIBLK-PL091604.D          |           | SDG No.:           | P3845            |           |
| Lab Sample ID:     | I.BLK-PL091604.D          |           | Matrix:            | WATER            |           |
| Analytical Method: | SW8081                    |           | % Solid:           | 0                | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: mL | Final Vol:         | 10000            | uL        |
| Soil Aliquot Vol:  |                           | uL        | Test:              | PESTICIDE Group2 |           |
| Extraction Type:   |                           |           | Injection Volume : |                  |           |
| GPC Factor :       | 1.0                       | PH :      |                    |                  |           |
| Prep Method :      | 3510C                     |           |                    |                  |           |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PL091604.D        | 1         |           | 09/10/24      | pl091024      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 18.4  |           | 43 - 140 | 92%        | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 19.0  |           | 77 - 126 | 95%        | 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\_L\Data\PL091024\  
Data File : PL091604.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 10 Sep 2024 10:57  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 11 05:30:07 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-------|-------|----------|----------|--------|--------|
| -----                       |       |       |          |          |        |        |
| System Monitoring Compounds |       |       |          |          |        |        |
| 1) SA Tetrachlo...          | 3.542 | 2.781 | 29671243 | 34654067 | 19.037 | 18.529 |
| 28) SA Decachlor...         | 9.055 | 7.922 | 22318962 | 31969536 | 18.365 | 17.313 |

Target Compounds

-----

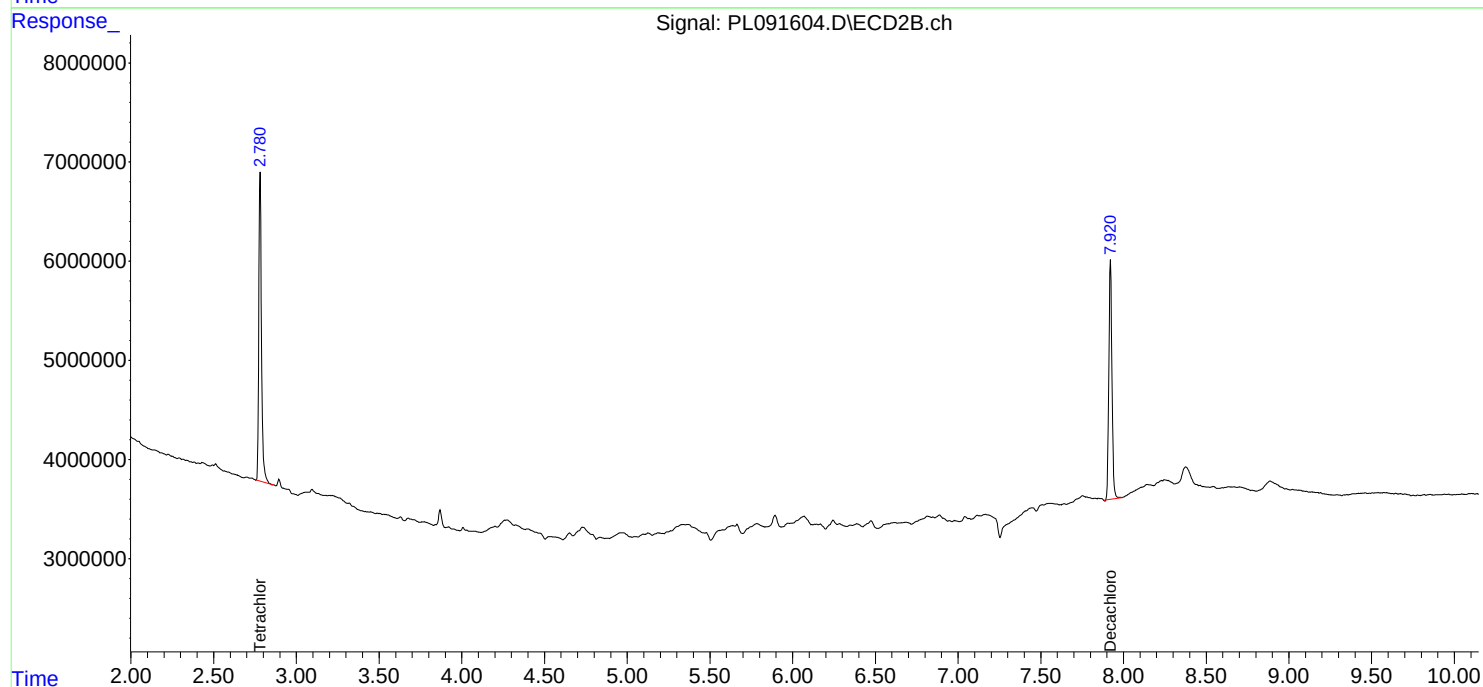
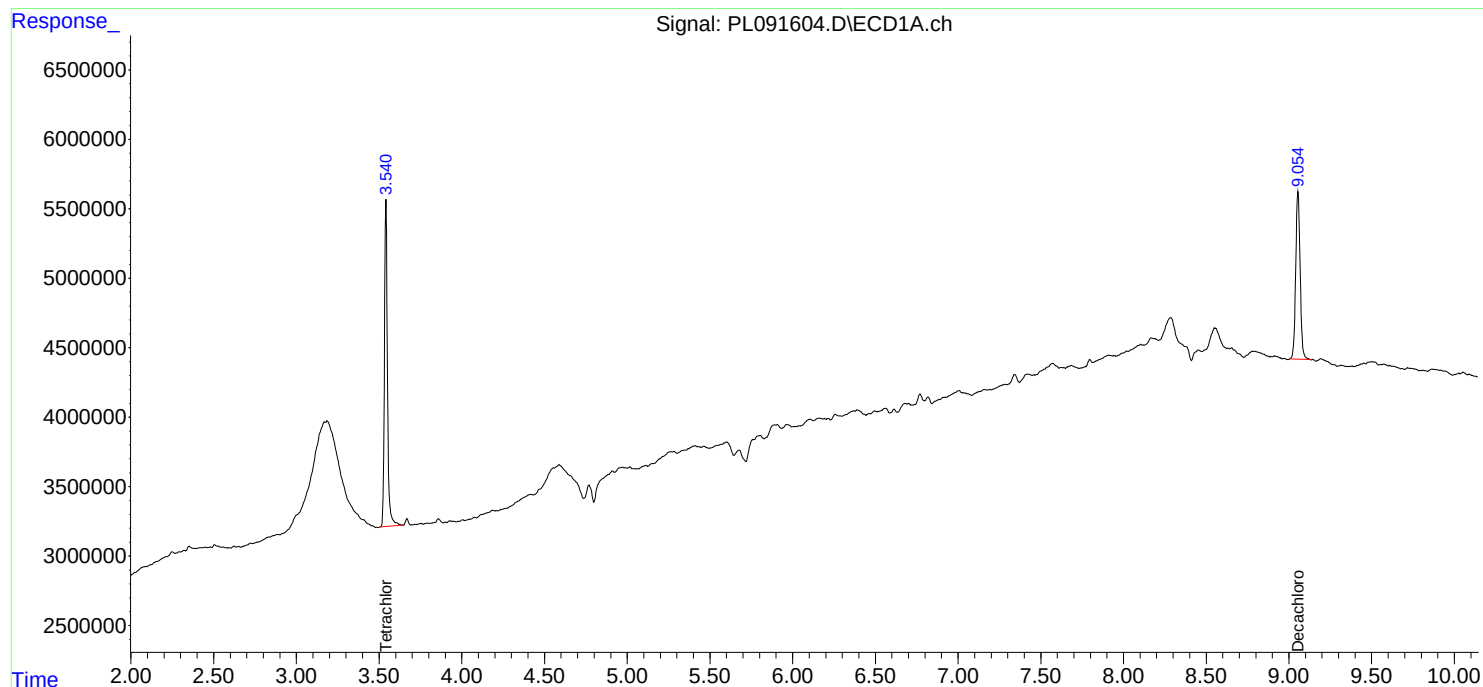
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091024\  
Data File : PL091604.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 10 Sep 2024 10:57  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

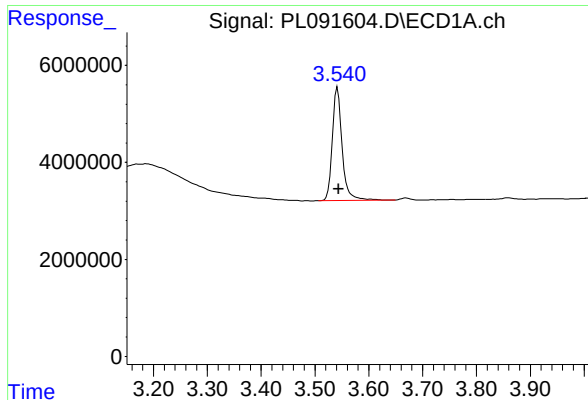
Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 11 05:30:07 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



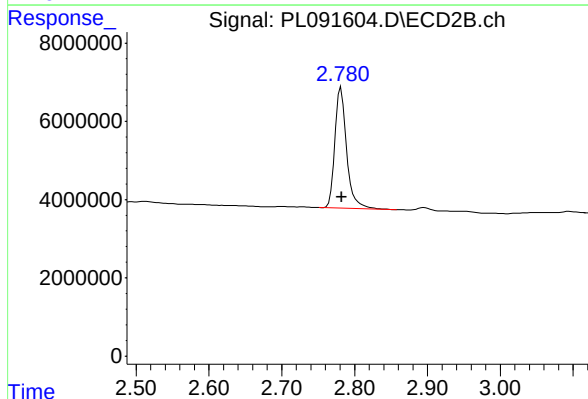




## #1 Tetrachloro-m-xylene

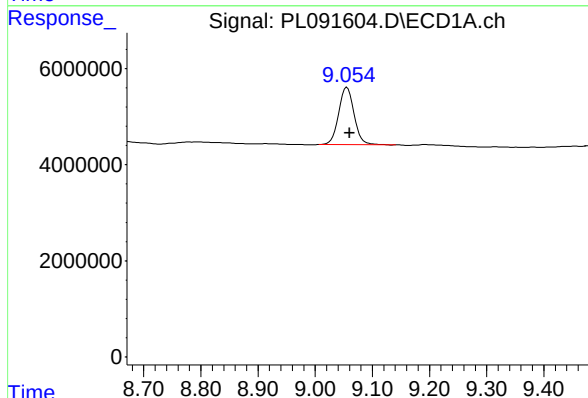
R.T.: 3.542 min  
Delta R.T.: -0.002 min  
Response: 29671243  
Conc: 19.04 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK



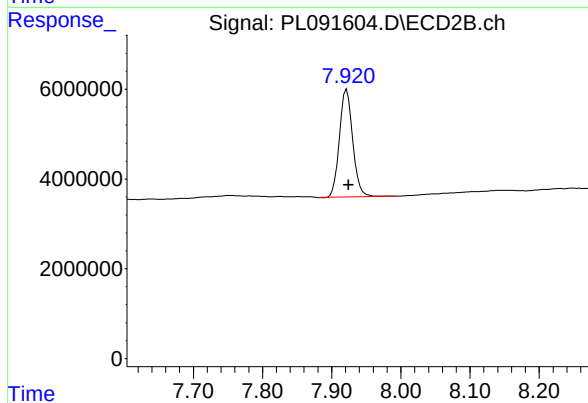
## #1 Tetrachloro-m-xylene

R.T.: 2.781 min  
Delta R.T.: -0.001 min  
Response: 34654067  
Conc: 18.53 ng/ml



## #28 Decachlorobiphenyl

R.T.: 9.055 min  
Delta R.T.: -0.005 min  
Response: 22318962  
Conc: 18.36 ng/ml



## #28 Decachlorobiphenyl

R.T.: 7.922 min  
Delta R.T.: -0.003 min  
Response: 31969536  
Conc: 17.31 ng/ml

## Report of Analysis

|                    |                           |        |    |                    |                  |           |
|--------------------|---------------------------|--------|----|--------------------|------------------|-----------|
| Client:            | Chemtech Consulting Group |        |    | Date Collected:    | 09/10/24         |           |
| Project:           | NJ Waste Water PT         |        |    | Date Received:     | 09/10/24         |           |
| Client Sample ID:  | PIBLK-PL091623.D          |        |    | SDG No.:           | P3845            |           |
| Lab Sample ID:     | I.BLK-PL091623.D          |        |    | Matrix:            | WATER            |           |
| Analytical Method: | SW8081                    |        |    | % Solid:           | 0                | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: | mL | Final Vol:         | 10000            | uL        |
| Soil Aliquot Vol:  |                           |        | uL | Test:              | PESTICIDE Group2 |           |
| Extraction Type:   |                           |        |    | Injection Volume : |                  |           |
| GPC Factor :       | 1.0                       | PH :   |    |                    |                  |           |
| Prep Method :      | 3510C                     |        |    |                    |                  |           |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|---------------|---------------|
| PL091623.D        | 1         |           | 09/10/24      | PL091024      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 20.3  |           | 43 - 140 | 102%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 19.6  |           | 77 - 126 | 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 OC 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\_L\Data\PL091024\  
Data File : PL091623.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 10 Sep 2024 16:56  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 12 07:03:12 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-------|-------|----------|----------|--------|--------|
| -----                       |       |       |          |          |        |        |
| System Monitoring Compounds |       |       |          |          |        |        |
| 1) SA Tetrachlo...          | 3.542 | 2.781 | 30600433 | 33515003 | 19.633 | 17.920 |
| 28) SA Decachlor...         | 9.057 | 7.922 | 24674384 | 36881684 | 20.303 | 19.973 |

Target Compounds

-----

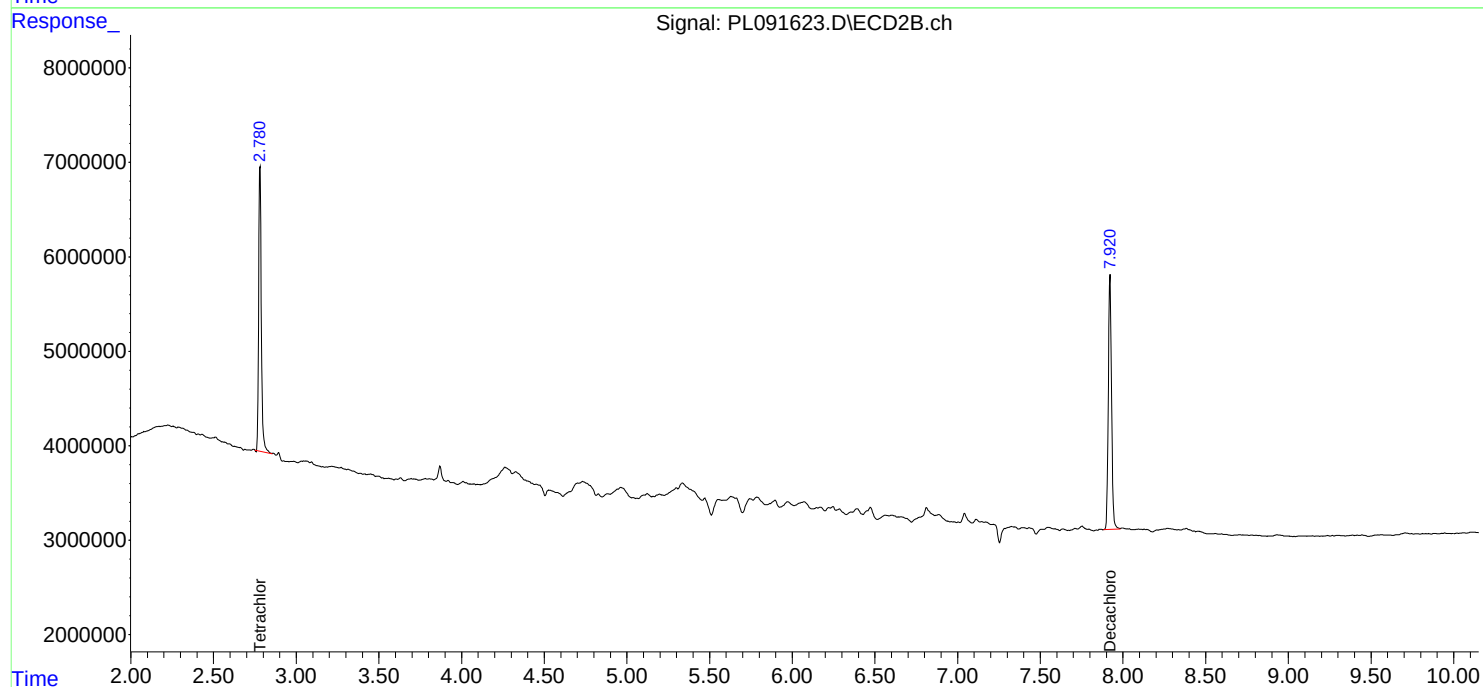
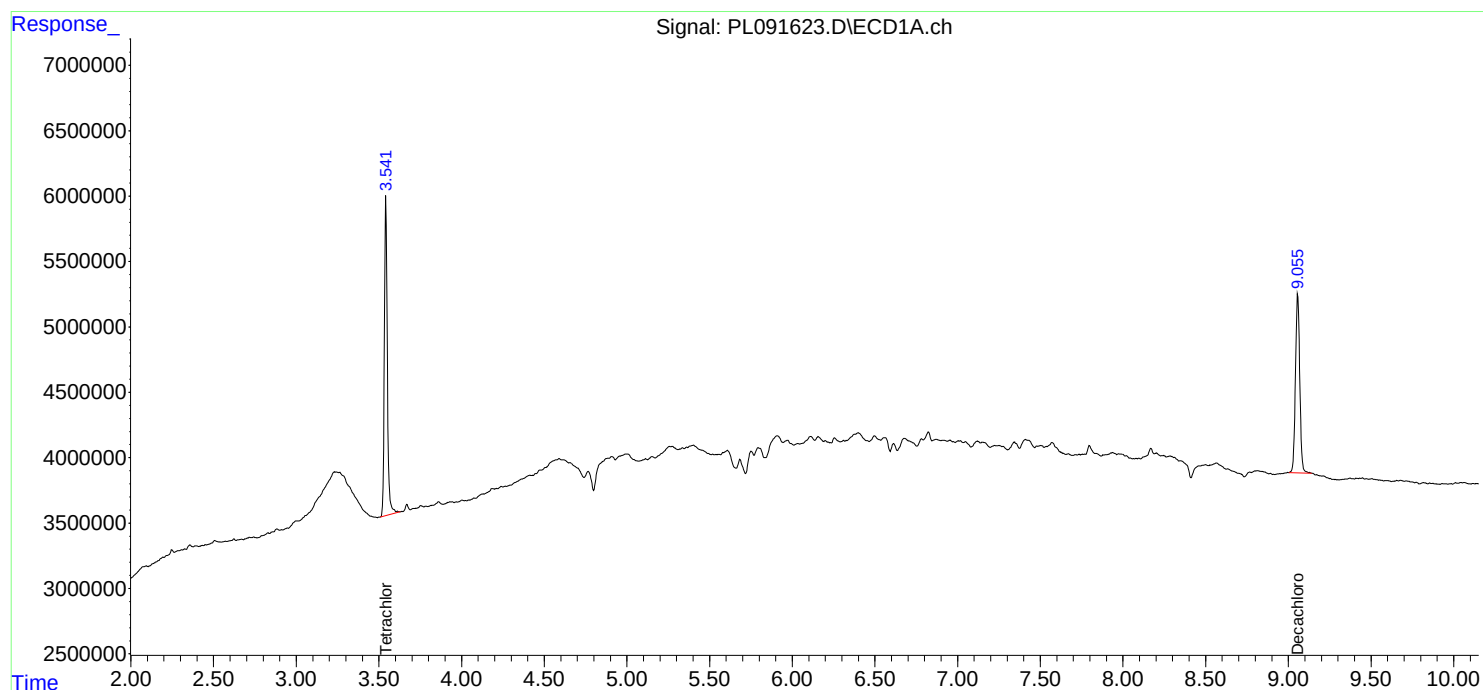
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

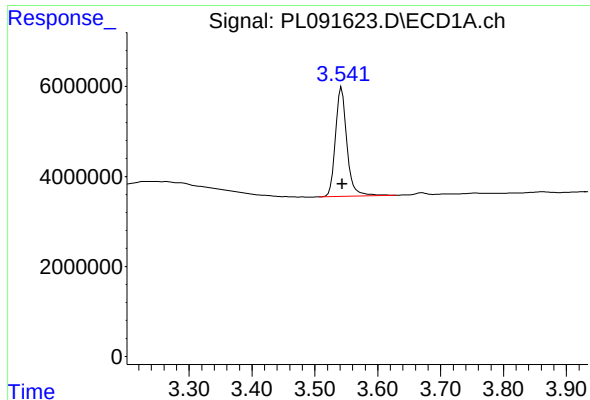
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091024\  
Data File : PL091623.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 10 Sep 2024 16:56  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 12 07:03:12 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

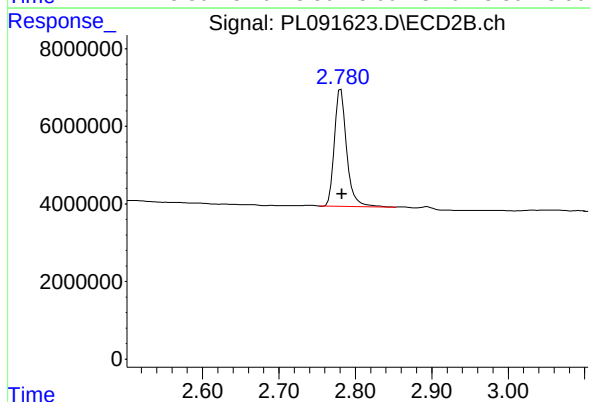




#1 Tetrachloro-m-xylene

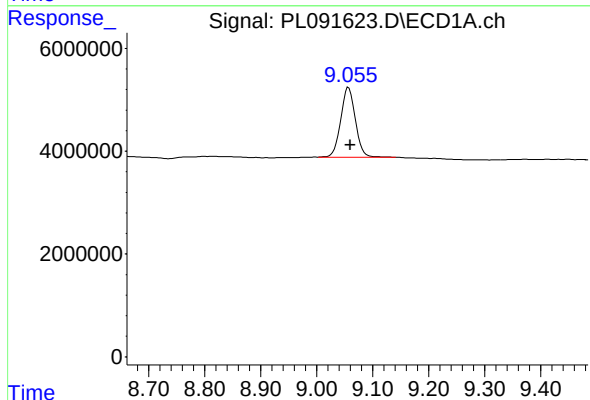
R.T.: 3.542 min  
Delta R.T.: -0.002 min  
Response: 30600433  
Conc: 19.63 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK



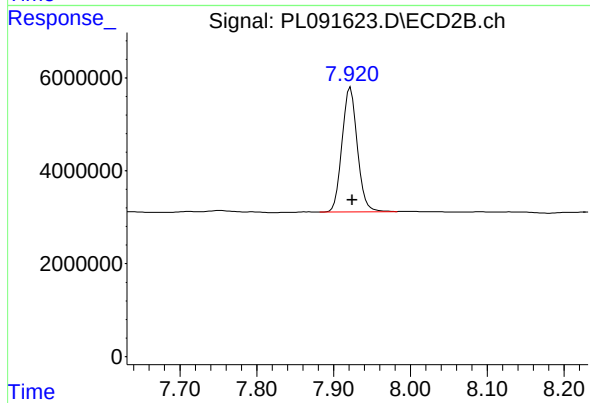
#1 Tetrachloro-m-xylene

R.T.: 2.781 min  
Delta R.T.: -0.002 min  
Response: 33515003  
Conc: 17.92 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.057 min  
Delta R.T.: -0.003 min  
Response: 24674384  
Conc: 20.30 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.922 min  
Delta R.T.: -0.003 min  
Response: 36881684  
Conc: 19.97 ng/ml

## Report of Analysis

|                    |                           |           |                    |                  |           |
|--------------------|---------------------------|-----------|--------------------|------------------|-----------|
| Client:            | Chemtech Consulting Group |           | Date Collected:    | 09/17/24         |           |
| Project:           | NJ Waste Water PT         |           | Date Received:     | 09/17/24         |           |
| Client Sample ID:  | PIBLK-PL091777.D          |           | SDG No.:           | P3845            |           |
| Lab Sample ID:     | I.BLK-PL091777.D          |           | Matrix:            | WATER            |           |
| Analytical Method: | SW8081                    |           | % Solid:           | 0                | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: mL | Final Vol:         | 10000            | uL        |
| Soil Aliquot Vol:  |                           | uL        | Test:              | PESTICIDE Group2 |           |
| Extraction Type:   |                           |           | Injection Volume : |                  |           |
| GPC Factor :       | 1.0                       | PH :      |                    |                  |           |
| Prep Method :      | 3510C                     |           |                    |                  |           |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PL091777.D        | 1         |           | 09/17/24      | pl091724      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 22.9  |           | 43 - 140 | 115%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 22.3  |           | 77 - 126 | 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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091724\  
Data File : PL091777.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 17 Sep 2024 11:20  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 18 01:09:39 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-------|-------|----------|----------|--------|--------|
| -----                       |       |       |          |          |        |        |
| System Monitoring Compounds |       |       |          |          |        |        |
| 1) SA Tetrachlo...          | 3.542 | 2.780 | 34711610 | 37484192 | 22.271 | 20.042 |
| 28) SA Decachlor...         | 9.057 | 7.922 | 27826432 | 40796037 | 22.896 | 22.093 |

Target Compounds

-----

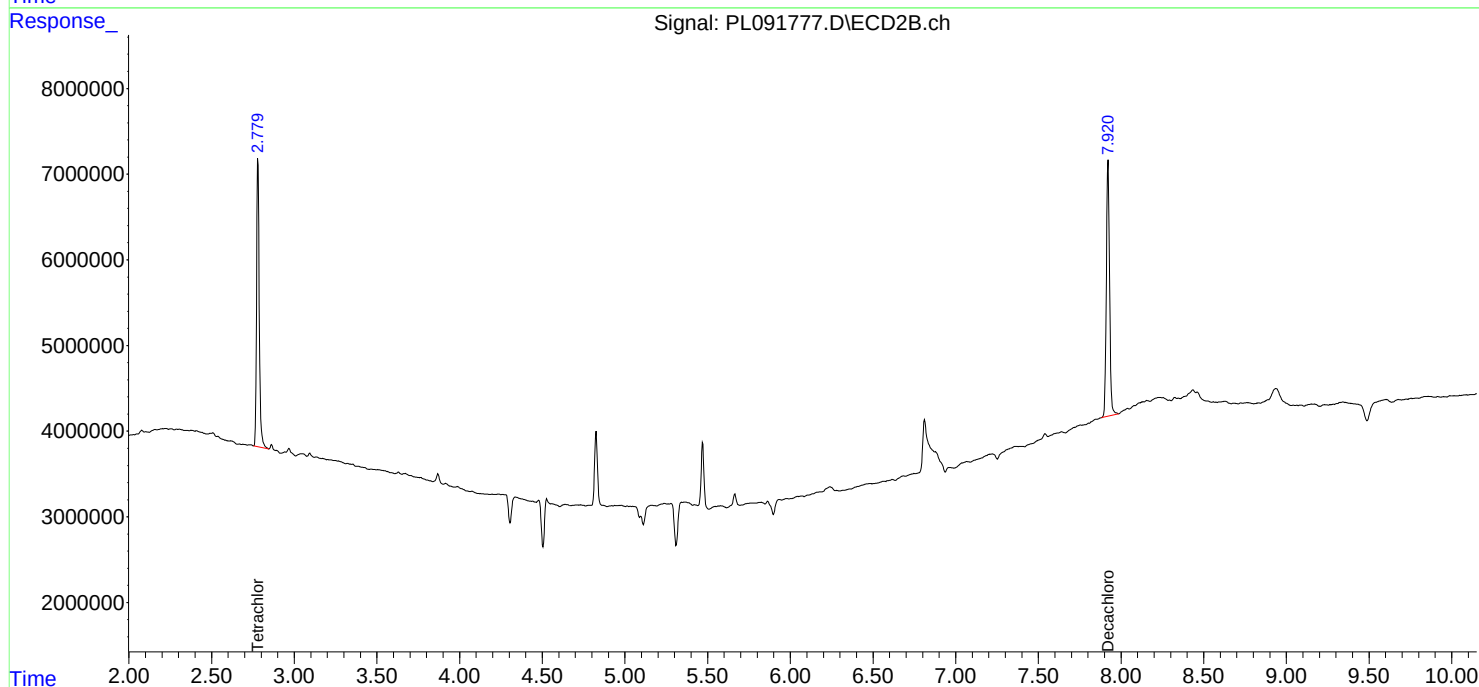
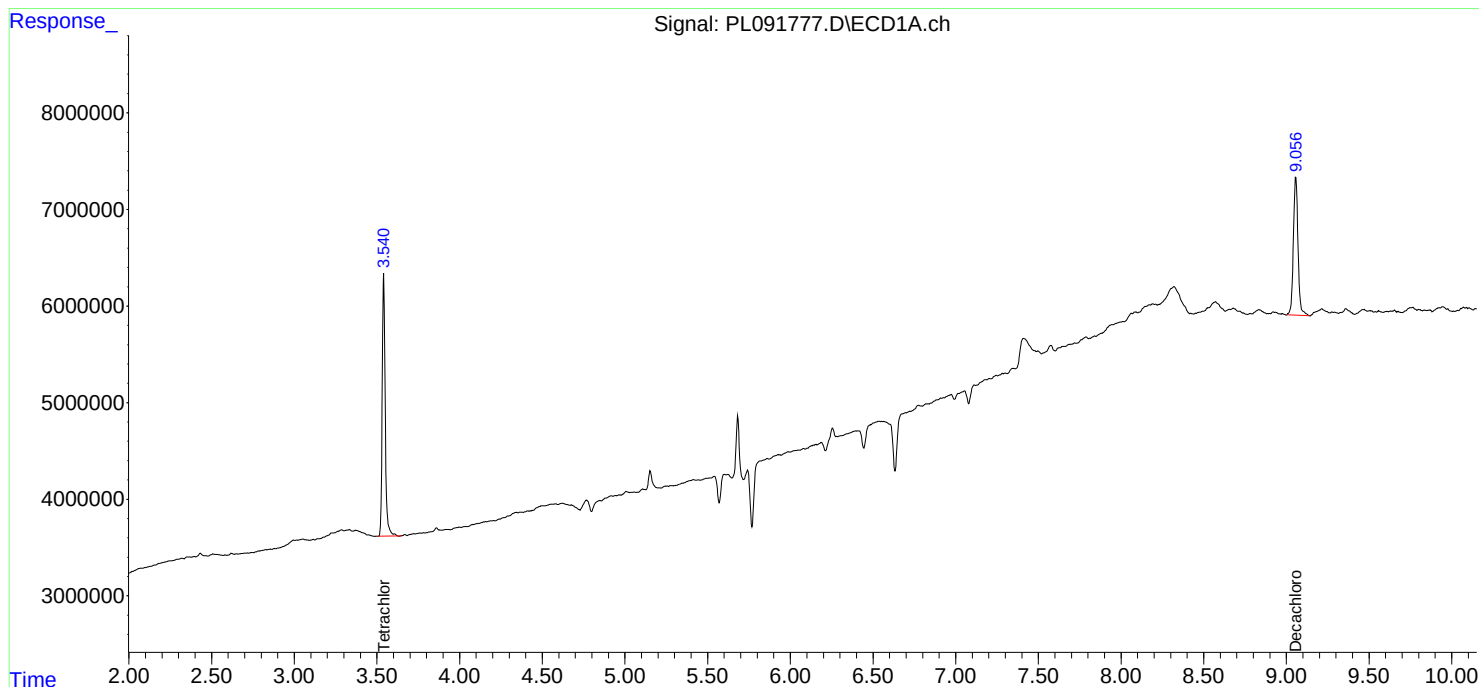
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091724\  
Data File : PL091777.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 17 Sep 2024 11:20  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

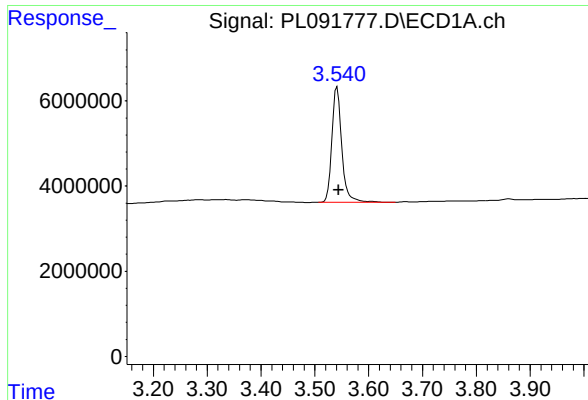
Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 18 01:09:39 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



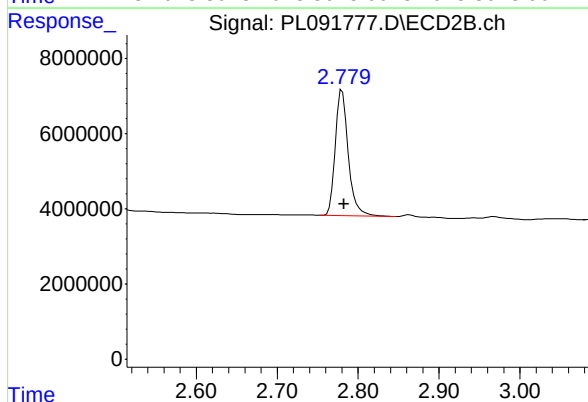




## #1 Tetrachloro-m-xylene

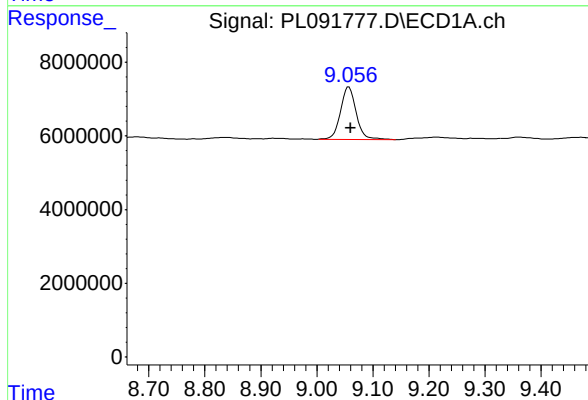
R.T.: 3.542 min  
Delta R.T.: -0.002 min  
Response: 34711610  
Conc: 22.27 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK



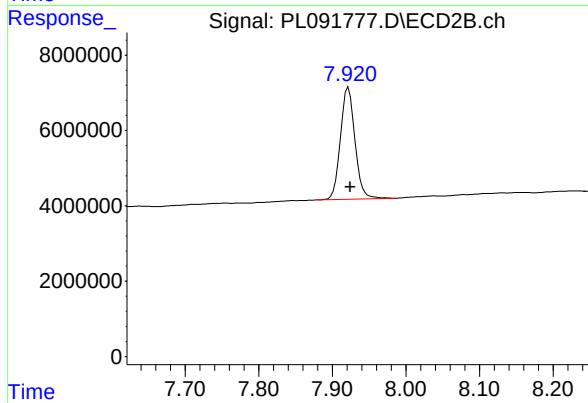
## #1 Tetrachloro-m-xylene

R.T.: 2.780 min  
Delta R.T.: -0.002 min  
Response: 37484192  
Conc: 20.04 ng/ml



## #28 Decachlorobiphenyl

R.T.: 9.057 min  
Delta R.T.: -0.003 min  
Response: 27826432  
Conc: 22.90 ng/ml



## #28 Decachlorobiphenyl

R.T.: 7.922 min  
Delta R.T.: -0.003 min  
Response: 40796037  
Conc: 22.09 ng/ml

## Report of Analysis

|                    |                           |        |    |                    |                  |           |
|--------------------|---------------------------|--------|----|--------------------|------------------|-----------|
| Client:            | Chemtech Consulting Group |        |    | Date Collected:    | 09/17/24         |           |
| Project:           | NJ Waste Water PT         |        |    | Date Received:     | 09/17/24         |           |
| Client Sample ID:  | PIBLK-PL091784.D          |        |    | SDG No.:           | P3845            |           |
| Lab Sample ID:     | I.BLK-PL091784.D          |        |    | Matrix:            | WATER            |           |
| Analytical Method: | SW8081                    |        |    | % Solid:           | 0                | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: | mL | Final Vol:         | 10000            | uL        |
| Soil Aliquot Vol:  |                           |        | uL | Test:              | PESTICIDE Group2 |           |
| Extraction Type:   |                           |        |    | Injection Volume : |                  |           |
| GPC Factor :       | 1.0                       | PH :   |    |                    |                  |           |
| Prep Method :      | 3510C                     |        |    |                    |                  |           |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|---------------|---------------|
| PL091784.D        | 1         |           | 09/17/24      | pl091724      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 24.3  |           | 43 - 140 | 122%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 24.0  |           | 77 - 126 | 120%       | 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 OC 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\_L\Data\PL091724\  
 Data File : PL091784.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 17 Sep 2024 14:50  
 Operator : AR\AJ  
 Sample : I.BLK  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 I.BLK

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 18 01:11:49 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 19:26:36 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-------|-------|----------|----------|--------|--------|
| -----                       |       |       |          |          |        |        |
| System Monitoring Compounds |       |       |          |          |        |        |
| 1) SA Tetrachlo...          | 3.539 | 2.781 | 37471378 | 40034118 | 24.042 | 21.405 |
| 28) SA Decachlor...         | 9.055 | 7.921 | 28647462 | 44901734 | 23.572 | 24.317 |

Target Compounds

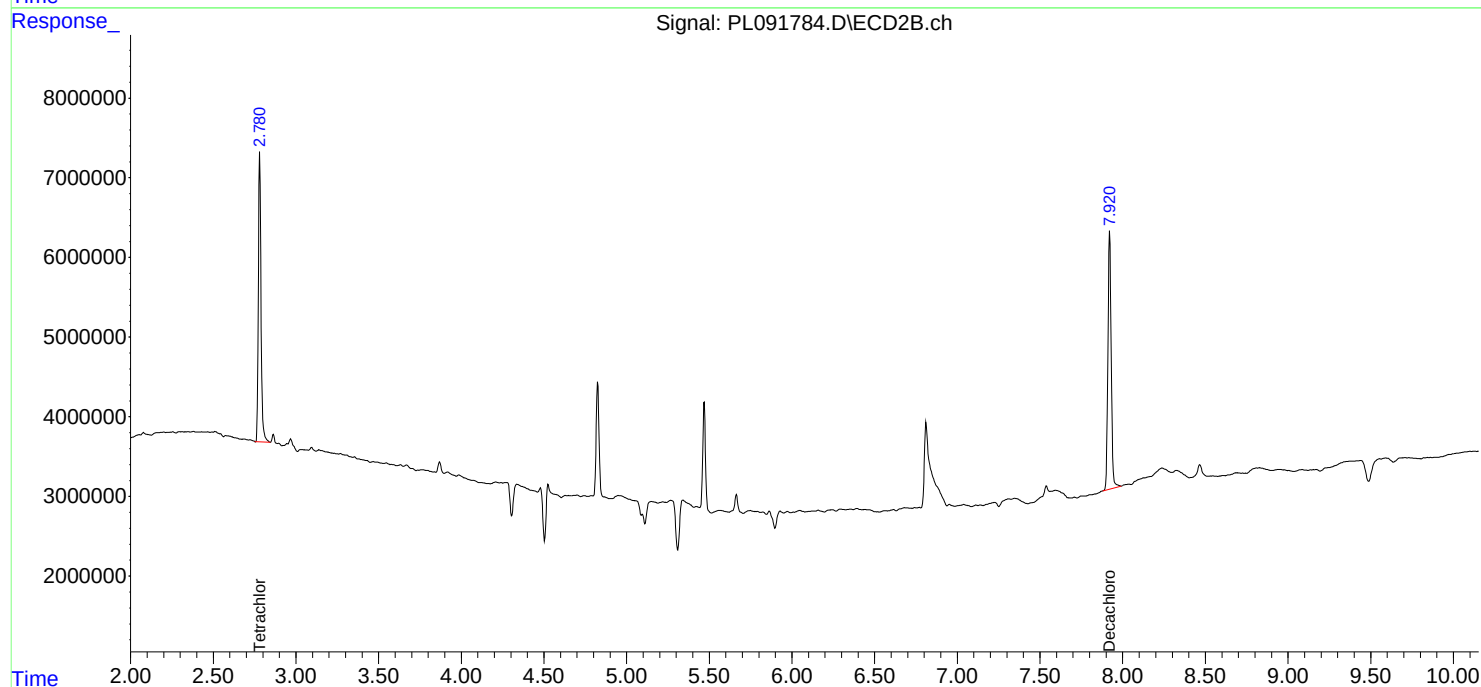
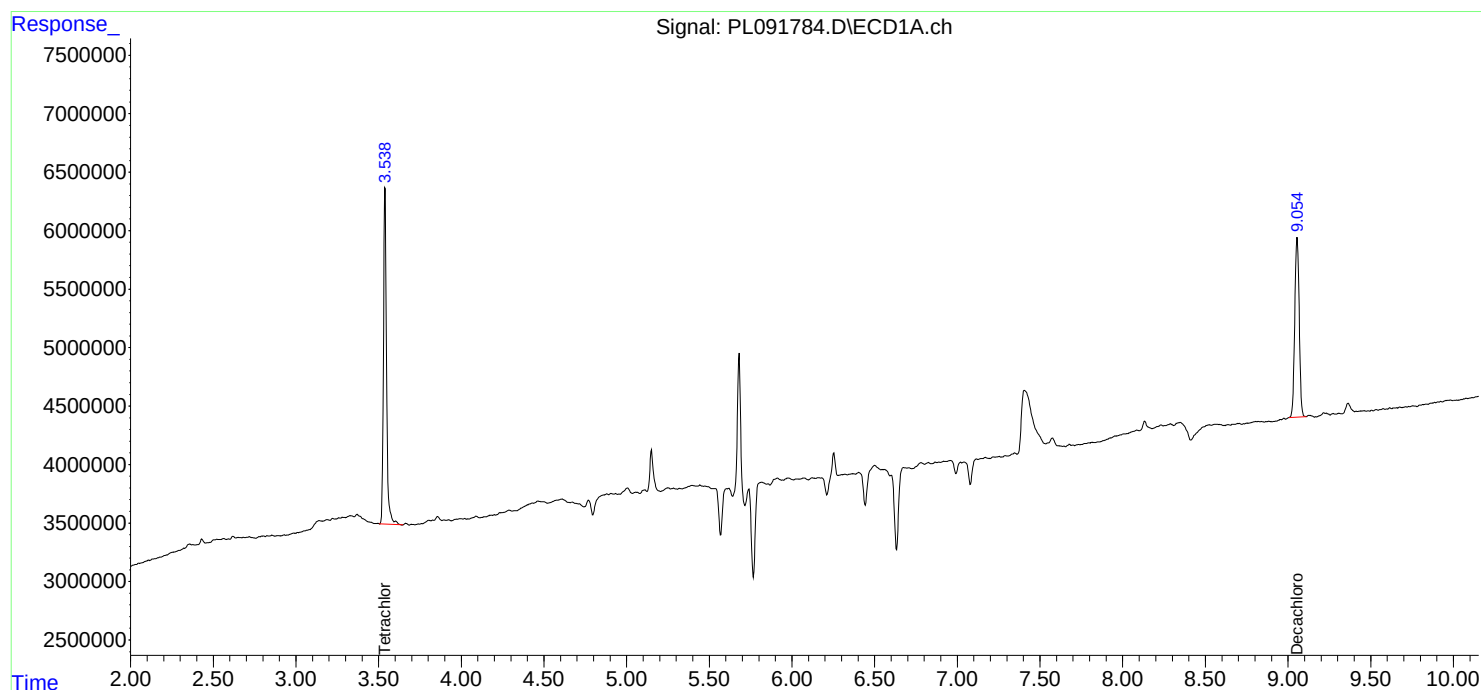
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

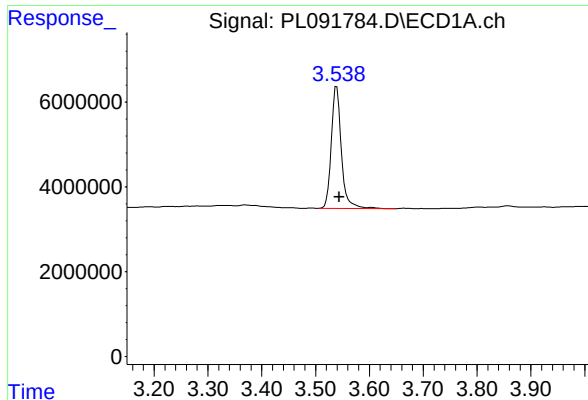
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091724\  
Data File : PL091784.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 17 Sep 2024 14:50  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 18 01:11:49 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

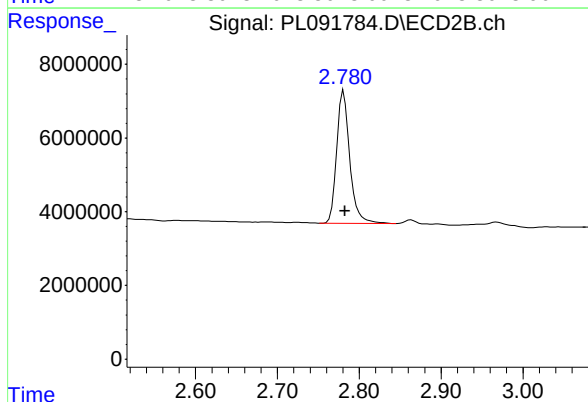




#1 Tetrachloro-m-xylene

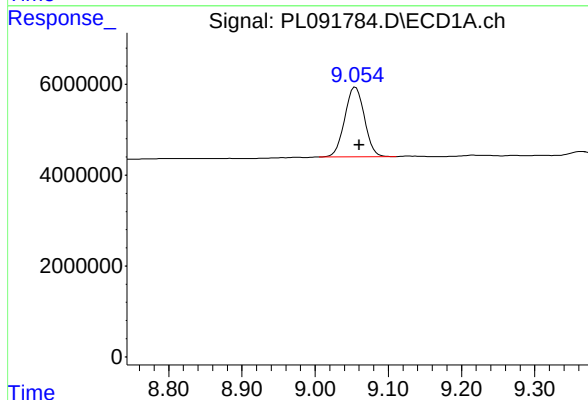
R.T.: 3.539 min  
Delta R.T.: -0.005 min  
Response: 37471378  
Conc: 24.04 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK



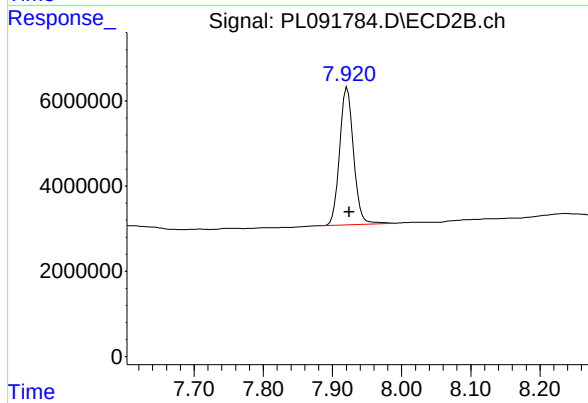
#1 Tetrachloro-m-xylene

R.T.: 2.781 min  
Delta R.T.: -0.002 min  
Response: 40034118  
Conc: 21.41 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.055 min  
Delta R.T.: -0.005 min  
Response: 28647462  
Conc: 23.57 ng/ml



#28 Decachlorobiphenyl

R.T.: 7.921 min  
Delta R.T.: -0.003 min  
Response: 44901734  
Conc: 24.32 ng/ml

## Report of Analysis

|                    |                           |                    |                  |
|--------------------|---------------------------|--------------------|------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 09/23/24         |
| Project:           | NJ Waste Water PT         | Date Received:     | 09/23/24         |
| Client Sample ID:  | PIBLK-PL091953.D          | SDG No.:           | P3845            |
| Lab Sample ID:     | I.BLK-PL091953.D          | Matrix:            | WATER            |
| Analytical Method: | SW8081                    | % Solid:           | 0                |
| Sample Wt/Vol:     | 1000                      | Units:             | mL               |
| Soil Aliquot Vol:  |                           |                    | uL               |
| Extraction Type:   |                           | Test:              | PESTICIDE Group2 |
| GPC Factor :       | 1.0                       | PH :               |                  |
| Prep Method :      | 3510C                     | Injection Volume : |                  |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PL091953.D        | 1         |           | 09/23/24      | PL092324      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 19.6  |           | 43 - 140 | 98%        | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 19.0  |           | 77 - 126 | 95%        | 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\_L\Data\PL092324\  
Data File : PL091953.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Sep 2024 10:52  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 23 14:04:12 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 14:03:20 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-------|-------|----------|----------|--------|--------|
| -----                       |       |       |          |          |        |        |
| System Monitoring Compounds |       |       |          |          |        |        |
| 1) SA Tetrachlo...          | 3.544 | 2.782 | 42236372 | 45921989 | 18.986 | 18.310 |
| 28) SA Decachlor...         | 9.060 | 7.923 | 32124664 | 46897103 | 19.609 | 18.744 |

Target Compounds

-----

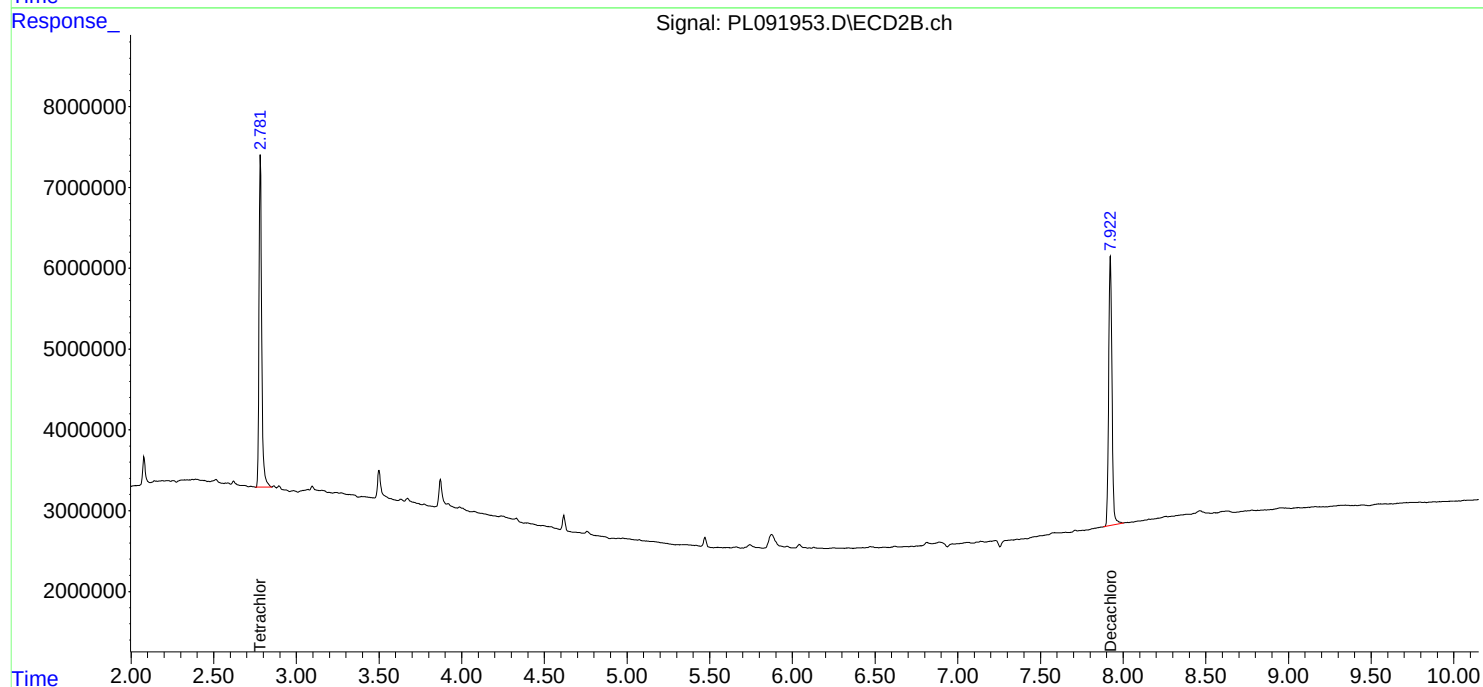
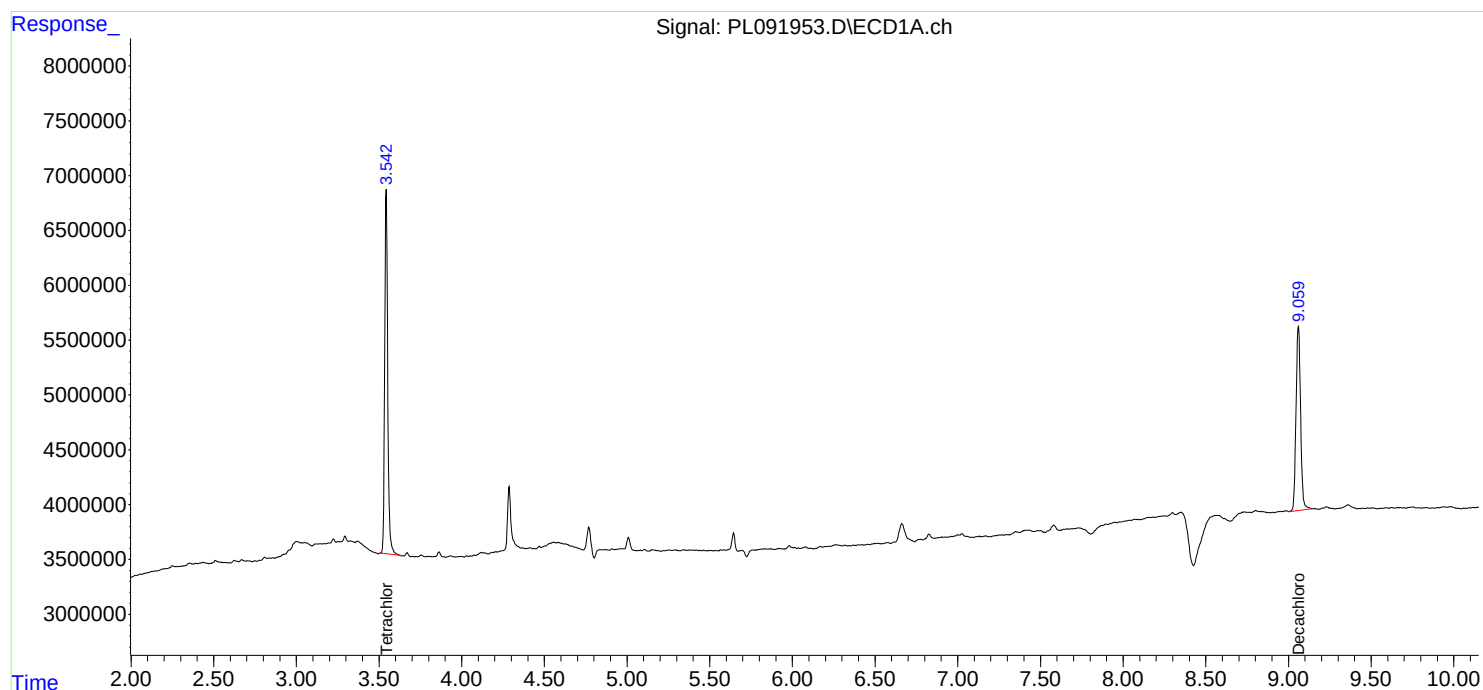
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092324\  
Data File : PL091953.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Sep 2024 10:52  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

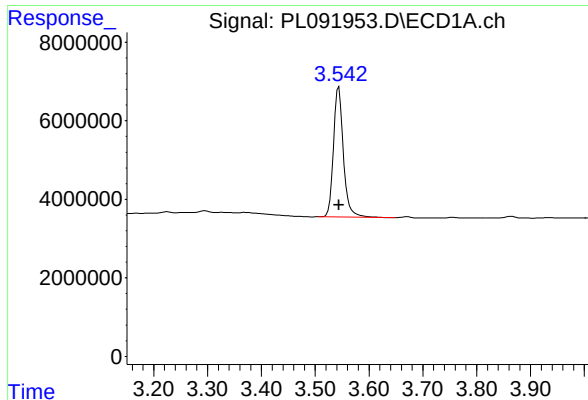
Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 23 14:04:12 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 14:03:20 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



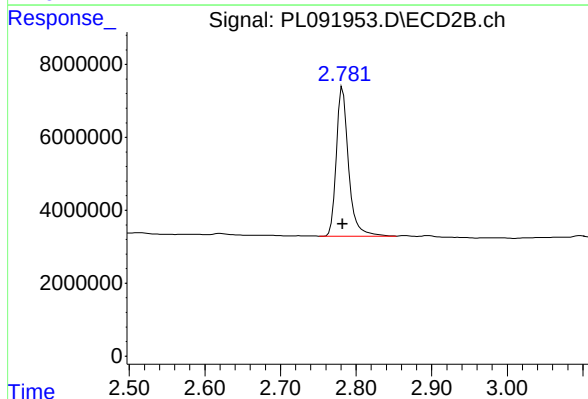




## #1 Tetrachloro-m-xylene

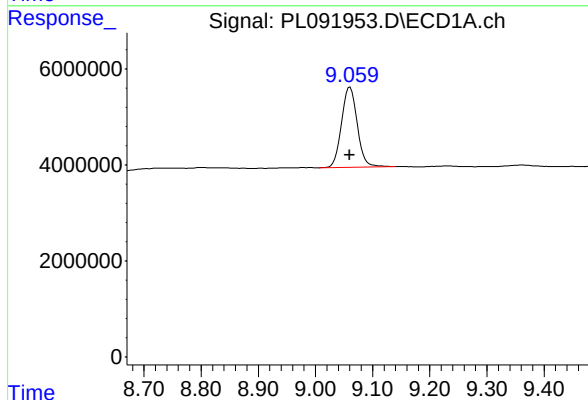
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 42236372  
Conc: 18.99 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK



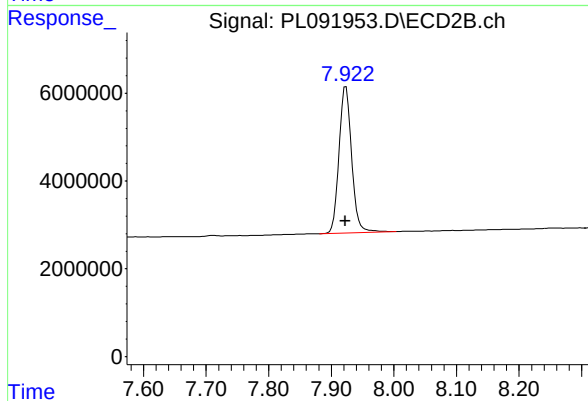
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 45921989  
Conc: 18.31 ng/ml



## #28 Decachlorobiphenyl

R.T.: 9.060 min  
Delta R.T.: 0.000 min  
Response: 32124664  
Conc: 19.61 ng/ml



## #28 Decachlorobiphenyl

R.T.: 7.923 min  
Delta R.T.: 0.000 min  
Response: 46897103  
Conc: 18.74 ng/ml

## Report of Analysis

|                    |                           |                    |                  |
|--------------------|---------------------------|--------------------|------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 09/24/24         |
| Project:           | NJ Waste Water PT         | Date Received:     | 09/24/24         |
| Client Sample ID:  | PIBLK-PL091991.D          | SDG No.:           | P3845            |
| Lab Sample ID:     | I.BLK-PL091991.D          | Matrix:            | WATER            |
| Analytical Method: | SW8081                    | % Solid:           | 0                |
| Sample Wt/Vol:     | 1000                      | Units:             | mL               |
| Soil Aliquot Vol:  |                           |                    | uL               |
| Extraction Type:   |                           | Test:              | PESTICIDE Group2 |
| GPC Factor :       | 1.0                       | PH :               |                  |
| Prep Method :      | 3510C                     | Injection Volume : |                  |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PL091991.D        | 1         |           | 09/24/24      | PL092424      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 20.7  |           | 43 - 140 | 104%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 20.3  |           | 77 - 126 | 101%       | 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\_L\Data\PL092424\  
Data File : PL091991.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 24 Sep 2024 09:28  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 25 01:16:23 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 16:44:57 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

|                             | Compound        | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-----------------|-------|-------|----------|----------|--------|--------|
| -----                       |                 |       |       |          |          |        |        |
| System Monitoring Compounds |                 |       |       |          |          |        |        |
| 1)                          | SA Tetrachlo... | 3.545 | 2.782 | 45103558 | 49097982 | 20.274 | 19.576 |
| 28)                         | SA Decachlor... | 9.061 | 7.923 | 33923814 | 48894949 | 20.708 | 19.543 |

Target Compounds

-----

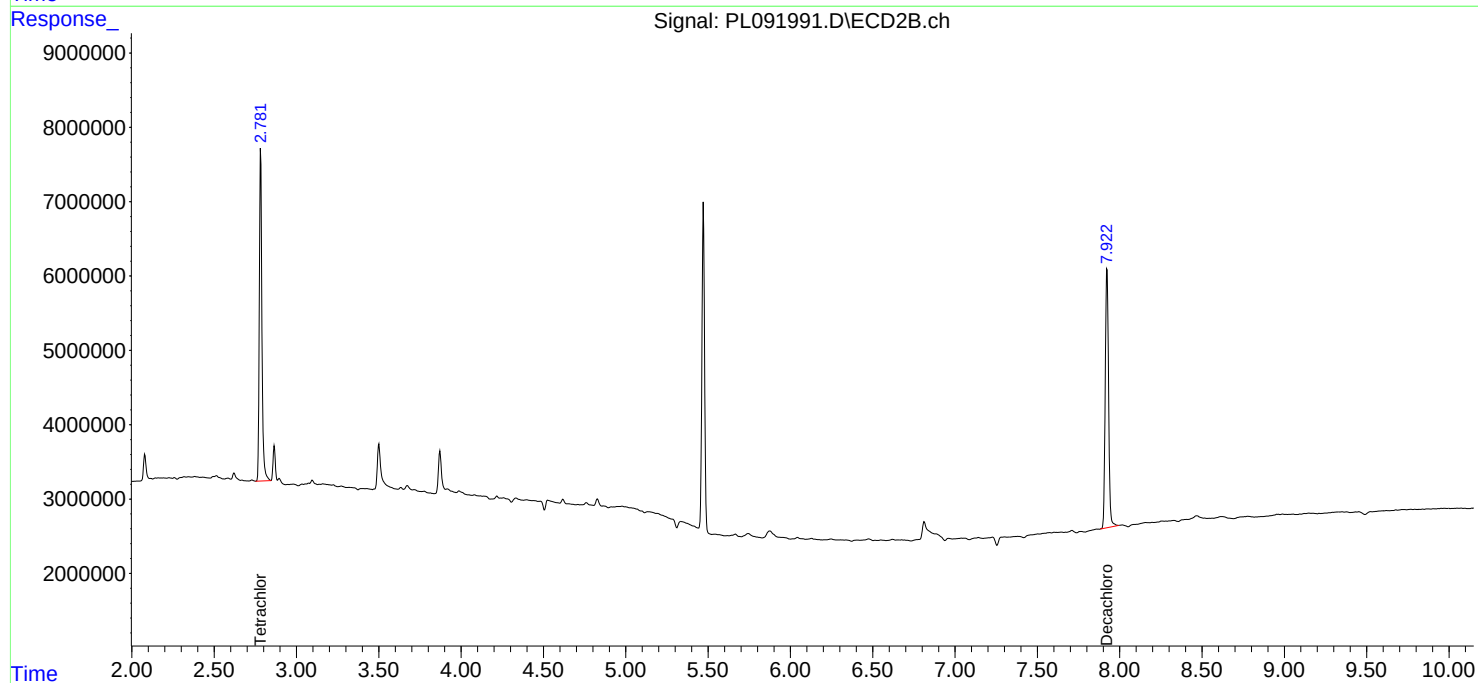
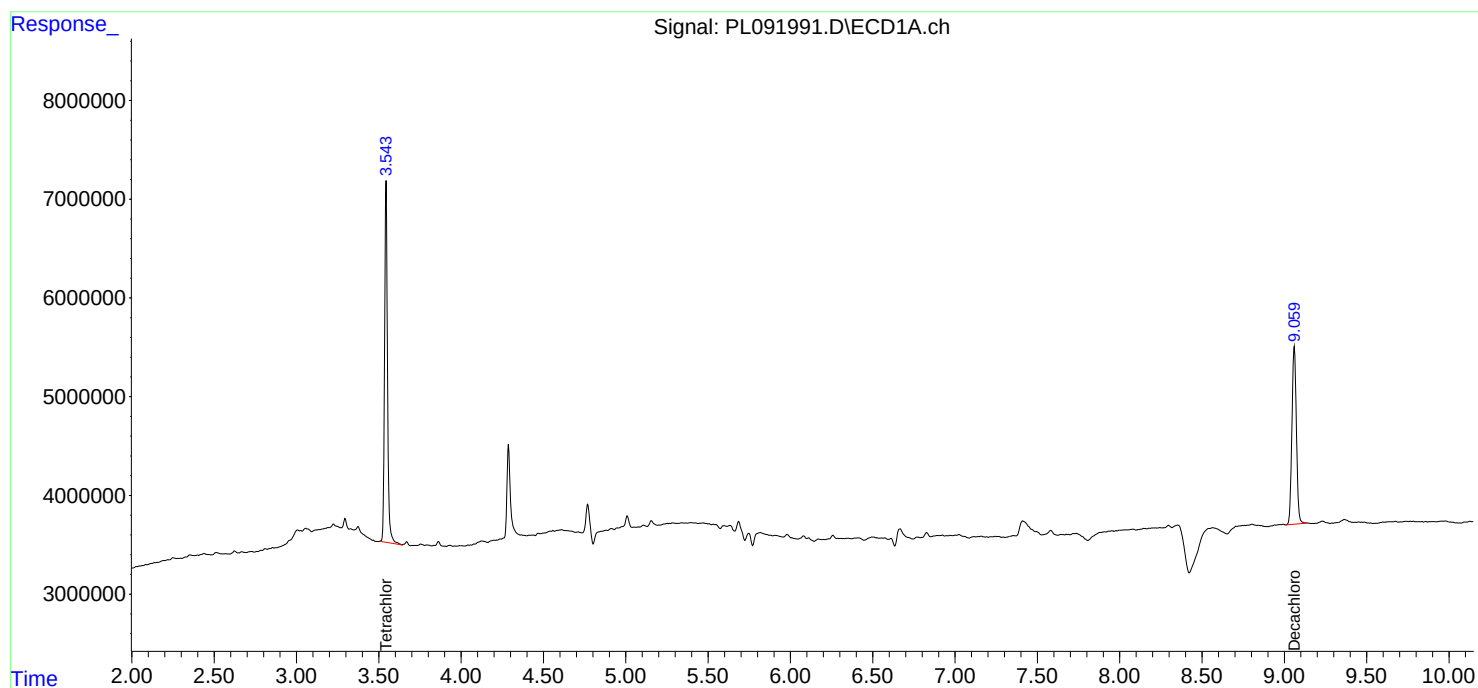
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

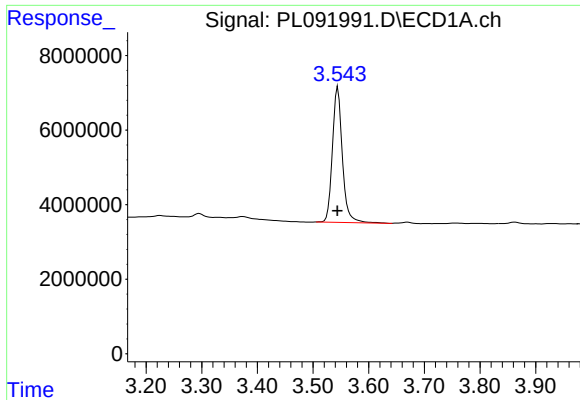
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092424\  
Data File : PL091991.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 24 Sep 2024 09:28  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 25 01:16:23 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 16:44:57 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

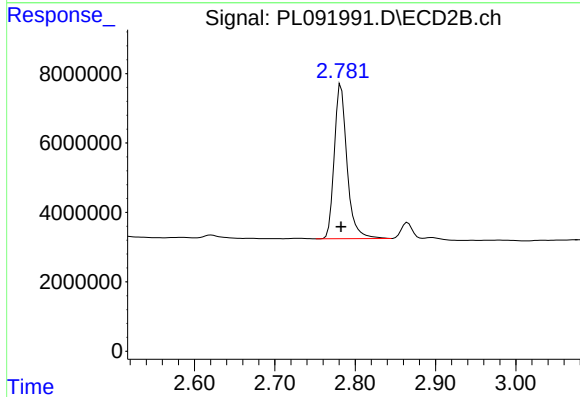




## #1 Tetrachloro-m-xylene

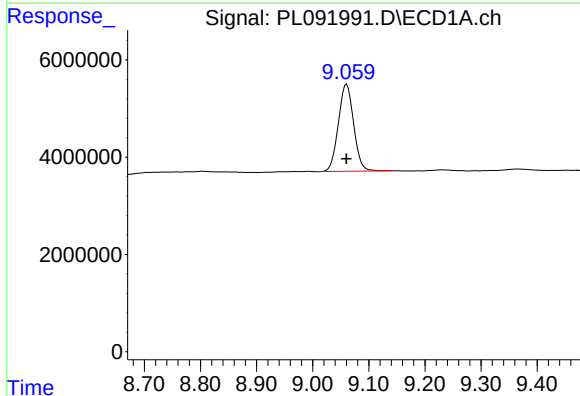
R.T.: 3.545 min  
Delta R.T.: 0.000 min  
Response: 45103558  
Conc: 20.27 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK



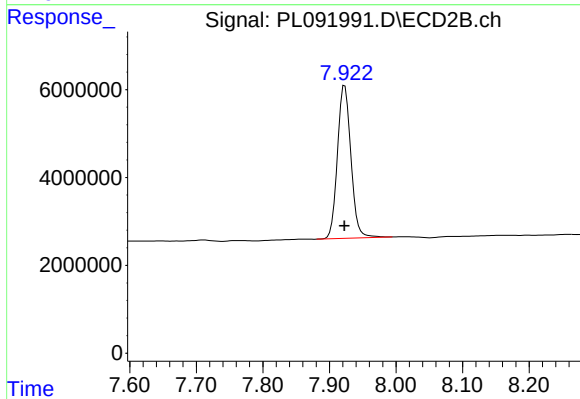
## #1 Tetrachloro-m-xylene

R.T.: 2.782 min  
Delta R.T.: 0.000 min  
Response: 49097982  
Conc: 19.58 ng/ml



## #28 Decachlorobiphenyl

R.T.: 9.061 min  
Delta R.T.: 0.000 min  
Response: 33923814  
Conc: 20.71 ng/ml



## #28 Decachlorobiphenyl

R.T.: 7.923 min  
Delta R.T.: 0.000 min  
Response: 48894949  
Conc: 19.54 ng/ml

## Report of Analysis

|                    |                           |                    |                  |
|--------------------|---------------------------|--------------------|------------------|
| Client:            | Chemtech Consulting Group | Date Collected:    | 09/24/24         |
| Project:           | NJ Waste Water PT         | Date Received:     | 09/24/24         |
| Client Sample ID:  | PIBLK-PL092002.D          | SDG No.:           | P3845            |
| Lab Sample ID:     | I.BLK-PL092002.D          | Matrix:            | WATER            |
| Analytical Method: | SW8081                    | % Solid:           | 0      Decanted: |
| Sample Wt/Vol:     | 1000      Units:    mL    | Final Vol:         | 10000      uL    |
| Soil Aliquot Vol:  | uL                        | Test:              | PESTICIDE Group2 |
| Extraction Type:   |                           | Injection Volume : |                  |
| GPC Factor :       | 1.0      PH :             |                    |                  |
| Prep Method :      | 3510C                     |                    |                  |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| PL092002.D        | 1         |           | 09/24/24      | PL092424      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 0.082 | U         | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 20.9  |           | 43 - 140 | 104%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 20.0  |           | 77 - 126 | 100%       | 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\_L\Data\PL092424\  
 Data File : PL092002.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 24 Sep 2024 14:08  
 Operator : AR\AJ  
 Sample : I.BLK  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 ECD\_L  
 ClientSampleId :  
 I.BLK

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 25 01:18:27 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 23 16:44:57 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

|                             | Compound        | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml  | ng/ml  |
|-----------------------------|-----------------|-------|-------|----------|----------|--------|--------|
| -----                       |                 |       |       |          |          |        |        |
| System Monitoring Compounds |                 |       |       |          |          |        |        |
| 1)                          | SA Tetrachlo... | 3.544 | 2.783 | 44399966 | 48843118 | 19.958 | 19.474 |
| 28)                         | SA Decachlor... | 9.061 | 7.923 | 34165687 | 50902131 | 20.855 | 20.345 |

Target Compounds

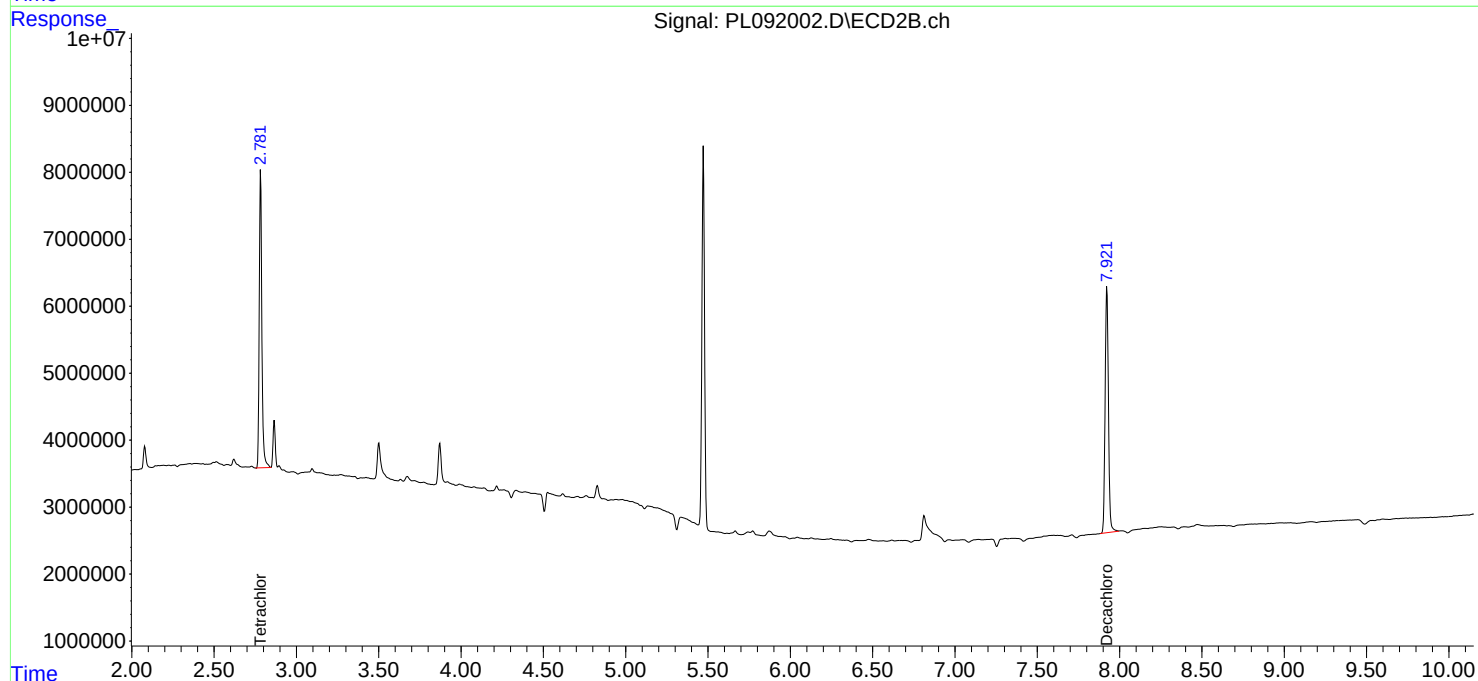
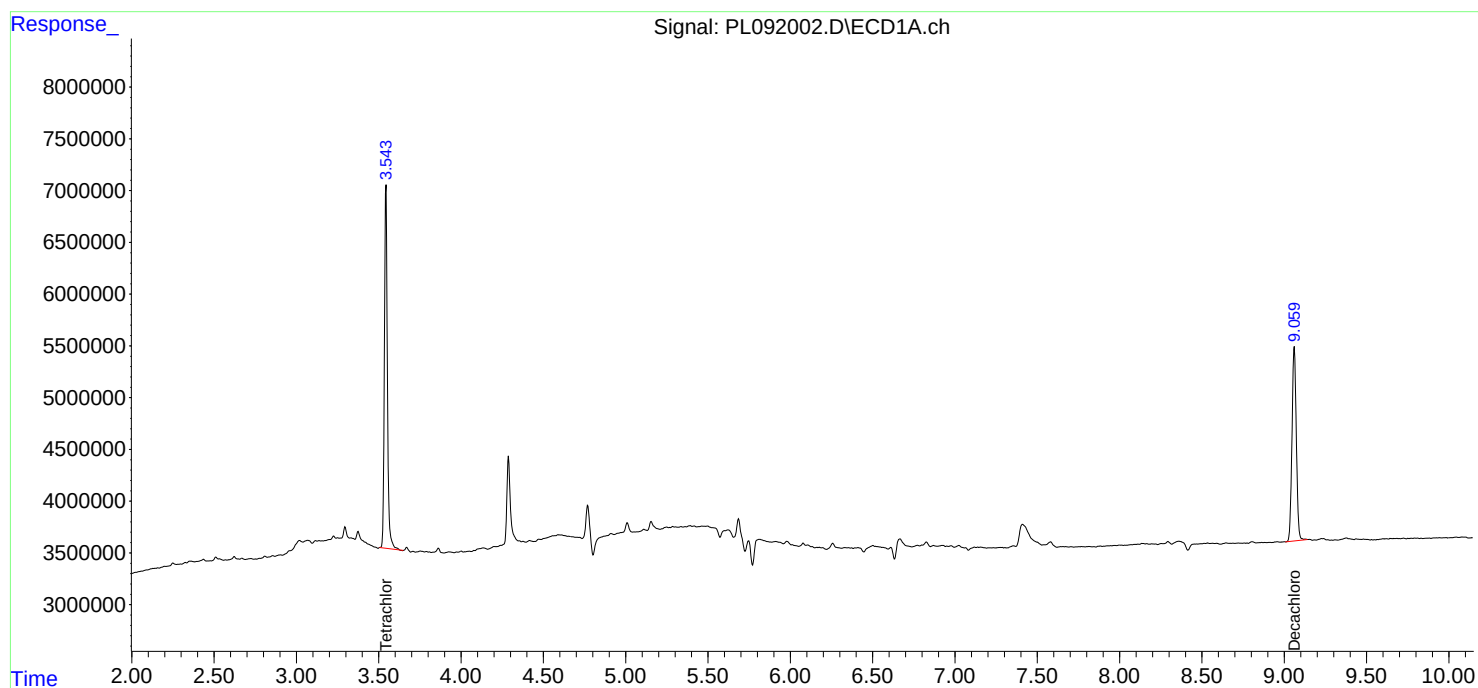
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL092424\  
Data File : PL092002.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 24 Sep 2024 14:08  
Operator : AR\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

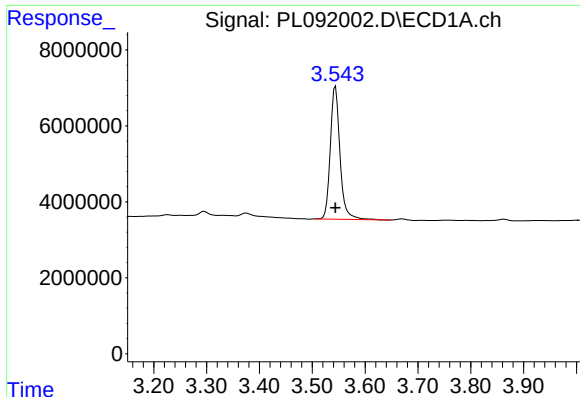
Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 25 01:18:27 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL092324.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 23 16:44:57 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm



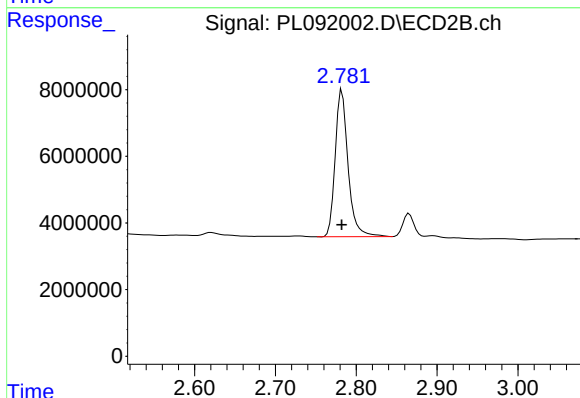




## #1 Tetrachloro-m-xylene

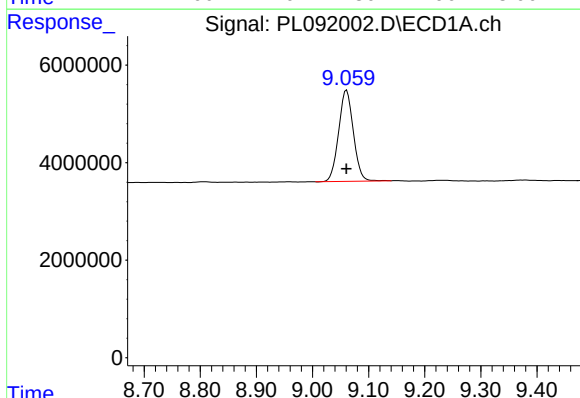
R.T.: 3.544 min  
Delta R.T.: 0.000 min  
Response: 44399966  
Conc: 19.96 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
I.BLK



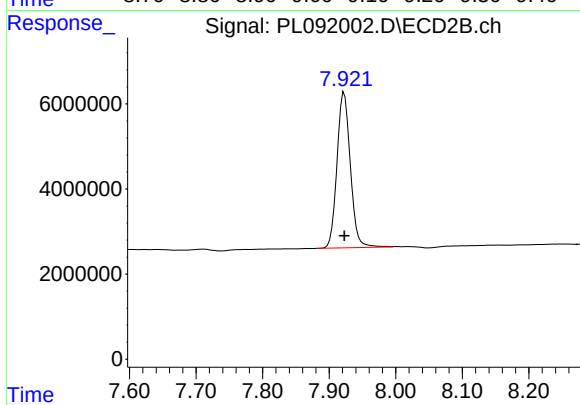
## #1 Tetrachloro-m-xylene

R.T.: 2.783 min  
Delta R.T.: 0.000 min  
Response: 48843118  
Conc: 19.47 ng/ml



## #28 Decachlorobiphenyl

R.T.: 9.061 min  
Delta R.T.: 0.000 min  
Response: 34165687  
Conc: 20.86 ng/ml



## #28 Decachlorobiphenyl

R.T.: 7.923 min  
Delta R.T.: 0.000 min  
Response: 50902131  
Conc: 20.35 ng/ml

## Report of Analysis

|                    |                           |           |                    |                  |           |
|--------------------|---------------------------|-----------|--------------------|------------------|-----------|
| Client:            | Chemtech Consulting Group |           | Date Collected:    |                  |           |
| Project:           | NJ Waste Water PT         |           | Date Received:     |                  |           |
| Client Sample ID:  | PB163230BS                |           | SDG No.:           | P3845            |           |
| Lab Sample ID:     | PB163230BS                |           | Matrix:            | WATER            |           |
| Analytical Method: | SW8081                    |           | % Solid:           | 0                | Decanted: |
| Sample Wt/Vol:     | 1000                      | Units: mL | Final Vol:         | 10000            | uL        |
| Soil Aliquot Vol:  |                           | uL        | Test:              | PESTICIDE Group2 |           |
| Extraction Type:   |                           |           | Injection Volume : |                  |           |
| GPC Factor :       | 1.0                       | PH :      |                    |                  |           |
| Prep Method :      | 3510C                     |           |                    |                  |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| PL091781.D        | 1         | 09/09/24 10:00 | 09/17/24 12:40 | PB163230      |

| CAS Number        | Parameter            | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|----------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                      |       |           |          |            |         |
| 57-74-9           | Chlordane            | 2.10  |           | 0.082    | 0.50       | ug/L    |
| <b>SURROGATES</b> |                      |       |           |          |            |         |
| 2051-24-3         | Decachlorobiphenyl   | 22.6  |           | 43 - 140 | 113%       | SPK: 20 |
| 877-09-8          | Tetrachloro-m-xylene | 23.6  |           | 77 - 126 | 118%       | 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\_L\Data\PL091724\  
 Data File : PL091781.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 17 Sep 2024 12:40  
 Operator : AR\AJ  
 Sample : PB163230BS  
 Misc : BS/CHLOR  
 ALS Vial : 6 Sample Multiplier: 1

**Instrument :**

ECD\_L

**ClientSampleId :**

PB163230BS

**Manual Integrations****APPROVED**

Reviewed By :Abdul Mirza 09/18/2024

Supervised By :Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e  
 Integration File signal 2: autoint2.e  
 Quant Time: Sep 18 01:11:02 2024  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
 Quant Title : GC Extractables  
 QLast Update : Mon Sep 09 19:26:36 2024  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
 Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm

| Compound                    | RT#1  | RT#2  | Resp#1   | Resp#2   | ng/ml    | ng/ml   |
|-----------------------------|-------|-------|----------|----------|----------|---------|
| -----                       |       |       |          |          |          |         |
| System Monitoring Compounds |       |       |          |          |          |         |
| 1) SA Tetrachlo...          | 3.548 | 2.780 | 32281365 | 44195133 | 20.712   | 23.630  |
| 28) SA Decachlor...         | 9.065 | 7.925 | 27458684 | 40212891 | 22.594   | 21.777  |
| Target Compounds            |       |       |          |          |          |         |
| 23) Chlordane-1             | 4.708 | 3.780 | 13705346 | 13334730 | 220.074m | 191.688 |
| 24) Chlordane-2             | 5.239 | 4.358 | 15235802 | 16062289 | 198.171  | 214.302 |
| 25) Chlordane-3             | 5.948 | 4.989 | 52542829 | 43962012 | 204.527m | 188.564 |
| 26) Chlordane-4             | 6.031 | 5.052 | 64122284 | 42838876 | 216.515  | 205.430 |
| 27) Chlordane-5             | 6.880 | 5.948 | 12311791 | 15608703 | 215.704  | 217.814 |
| -----                       |       |       |          |          |          |         |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD\_L\Data\PL091724\  
Data File : PL091781.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 17 Sep 2024 12:40  
Operator : AR\AJ  
Sample : PB163230BS  
Misc : BS/CHLOR  
ALS Vial : 6 Sample Multiplier: 1

## Instrument :

ECD\_L

## ClientSampleId :

PB163230BS

## Manual Integrations

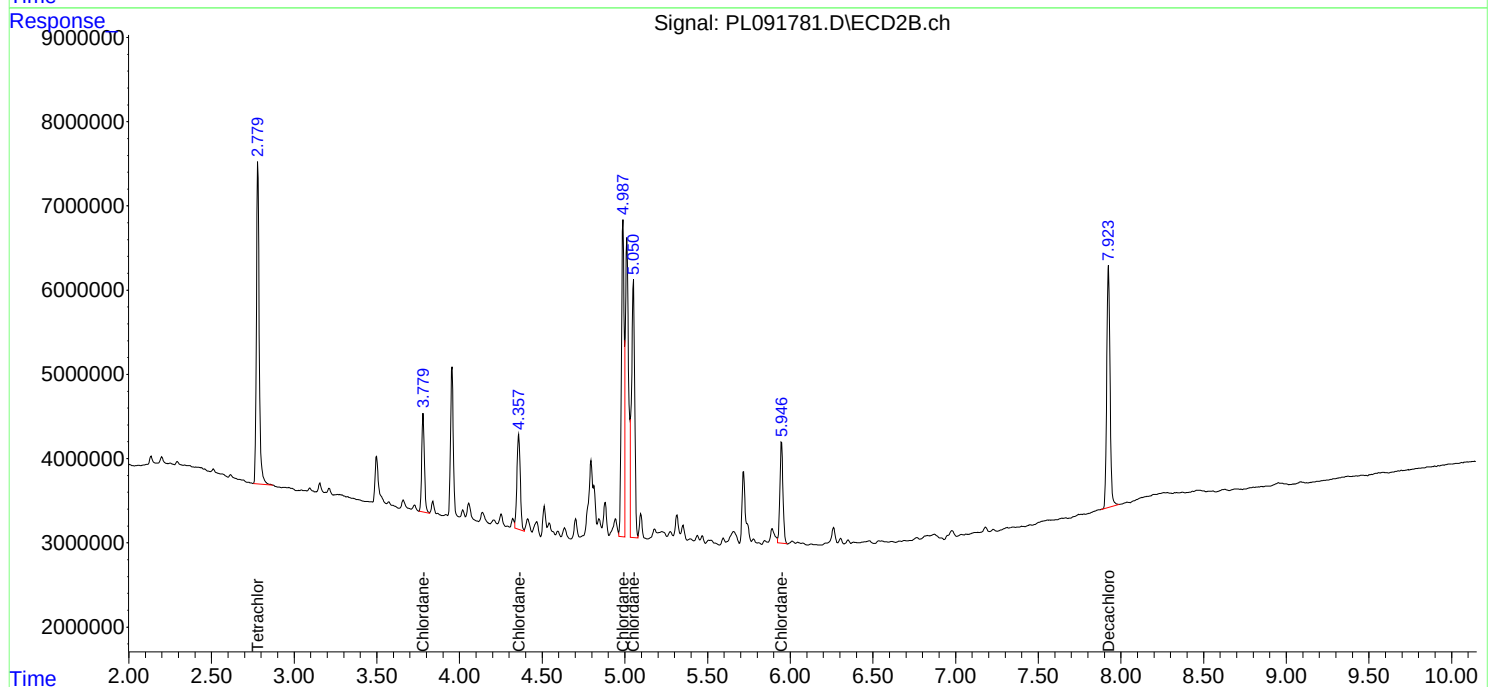
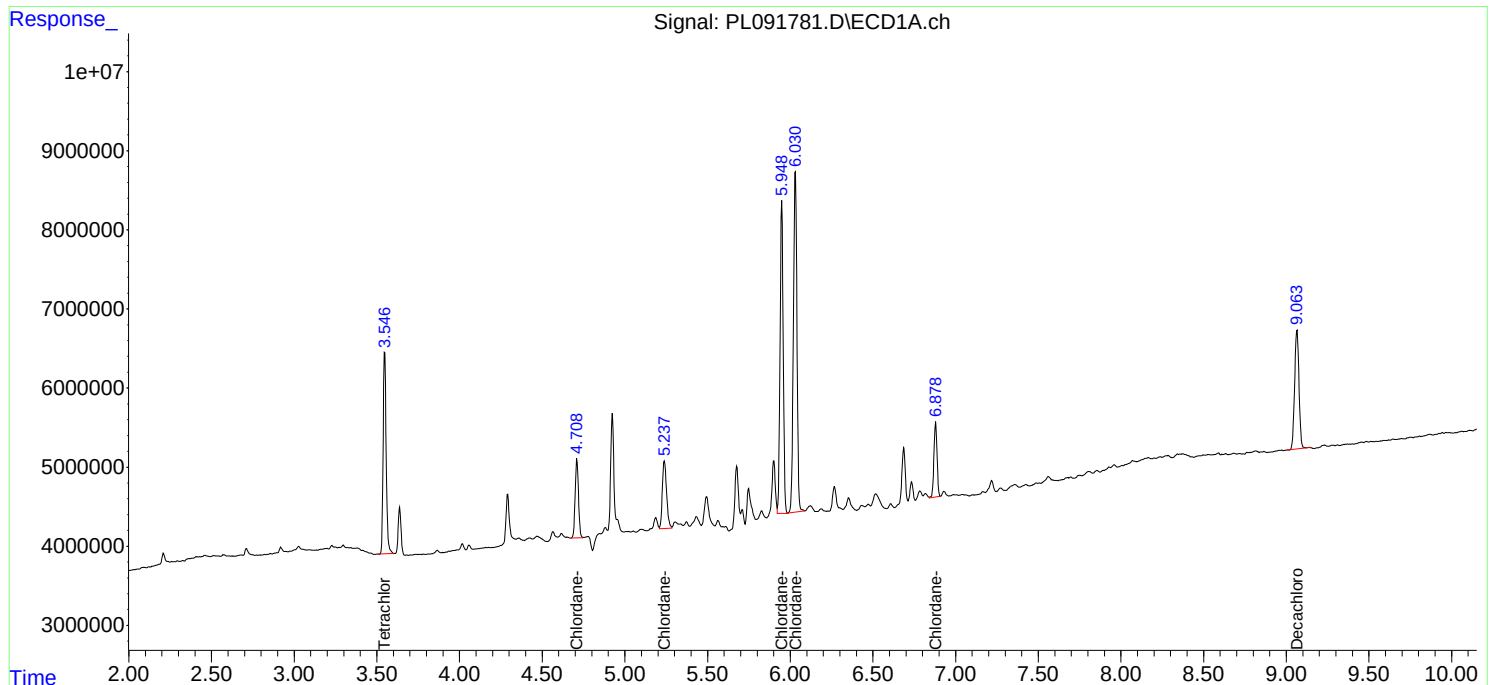
## APPROVED

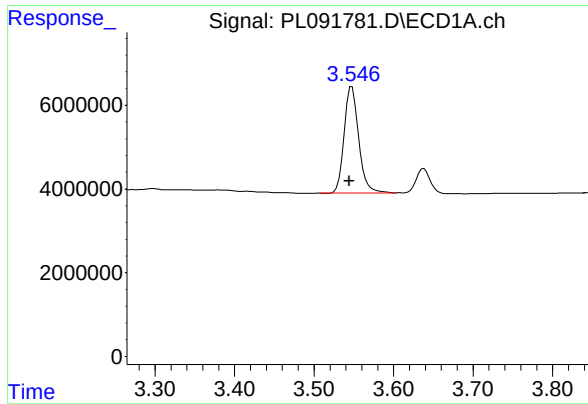
Reviewed By : Abdul Mirza 09/18/2024

Supervised By : Ankita Jodhani 09/18/2024

Integration File signal 1: autoint1.e  
Integration File signal 2: autoint2.e  
Quant Time: Sep 18 01:11:02 2024  
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD\_L\methods\PL090924.M  
Quant Title : GC Extractables  
QLast Update : Mon Sep 09 19:26:36 2024  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal #1 Phase : ZB-MR2 Signal #2 Phase: ZB-MR1  
Signal #1 Info : 30M x 0.32mm x0.2 Signal #2 Info : 30M x 0.32mm x0.5µm





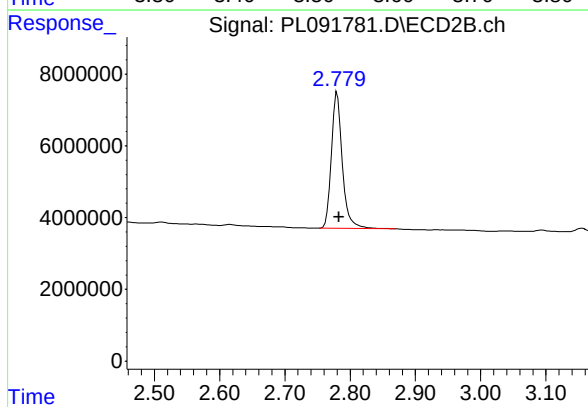
## #1 Tetrachloro-m-xylene

R.T.: 3.548 min  
Delta R.T.: 0.004 min  
Response: 32281365  
Conc: 20.71 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PB163230BS

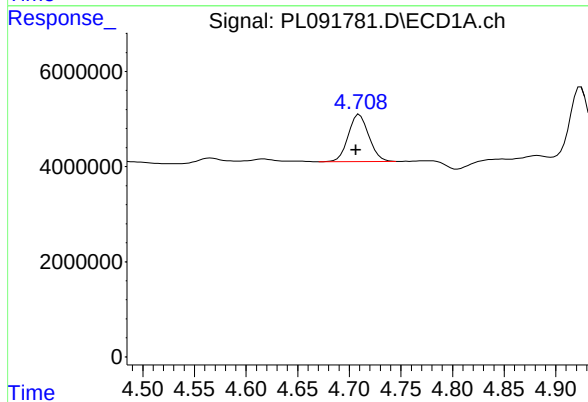
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



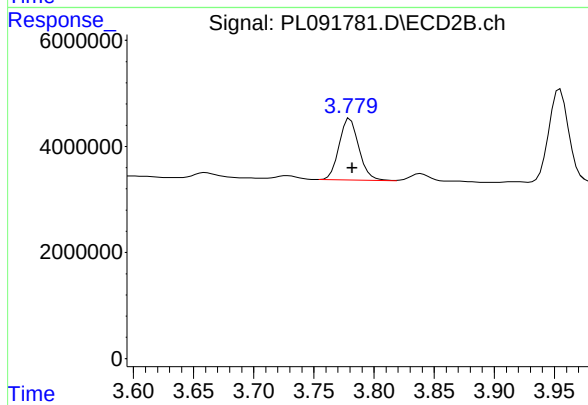
## #1 Tetrachloro-m-xylene

R.T.: 2.780 min  
Delta R.T.: -0.002 min  
Response: 44195133  
Conc: 23.63 ng/ml



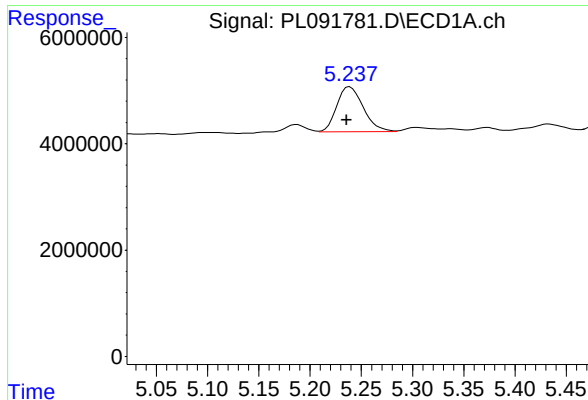
## #23 Chlordane-1

R.T.: 4.708 min  
Delta R.T.: 0.002 min  
Response: 13705346  
Conc: 220.07 ng/ml m



## #23 Chlordane-1

R.T.: 3.780 min  
Delta R.T.: -0.002 min  
Response: 13334730  
Conc: 191.69 ng/ml



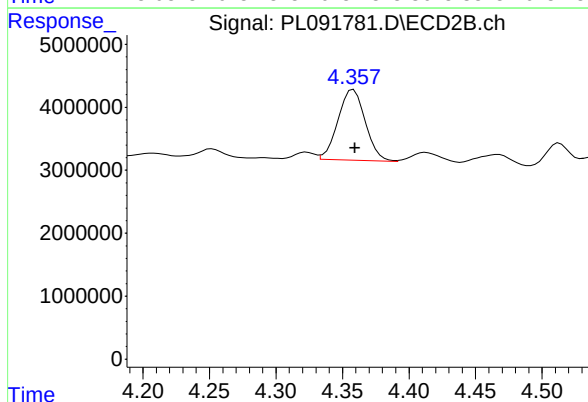
#24 Chlordane-2

R.T.: 5.239 min  
Delta R.T.: 0.003 min  
Response: 15235802  
Conc: 198.17 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PB163230BS

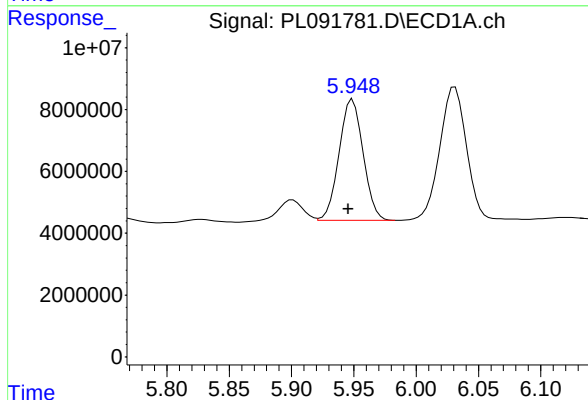
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



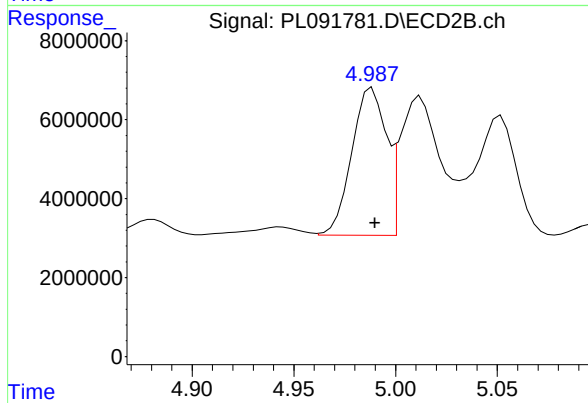
#24 Chlordane-2

R.T.: 4.358 min  
Delta R.T.: -0.001 min  
Response: 16062289  
Conc: 214.30 ng/ml



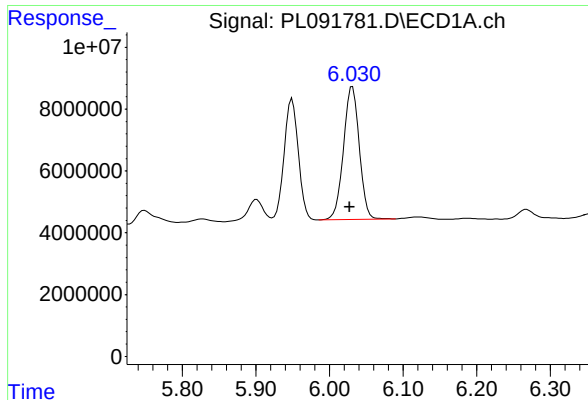
#25 Chlordane-3

R.T.: 5.948 min  
Delta R.T.: 0.002 min  
Response: 52542829  
Conc: 204.53 ng/ml m



#25 Chlordane-3

R.T.: 4.989 min  
Delta R.T.: -0.001 min  
Response: 43962012  
Conc: 188.56 ng/ml



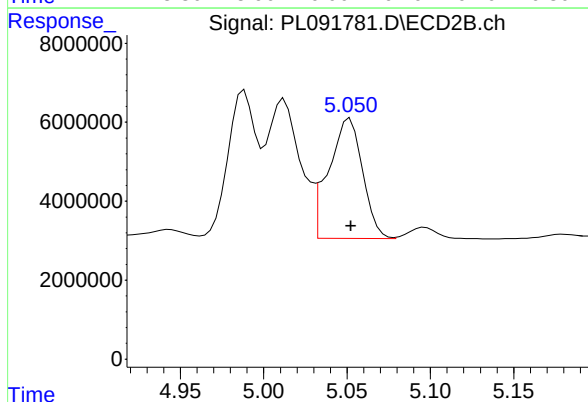
## #26 Chlordane-4

R.T.: 6.031 min  
Delta R.T.: 0.004 min  
Response: 64122284  
Conc: 216.51 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PB163230BS

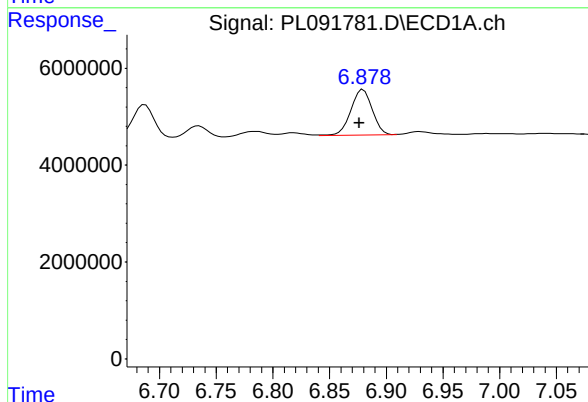
Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



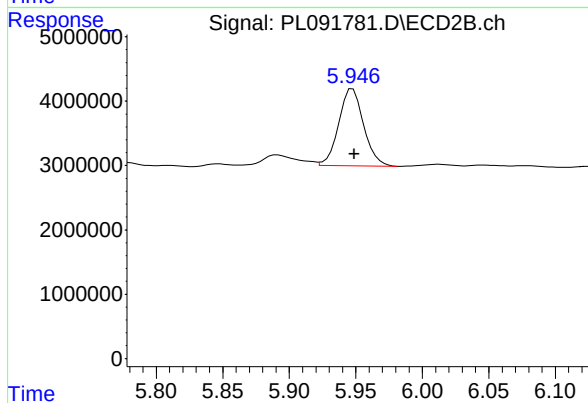
## #26 Chlordane-4

R.T.: 5.052 min  
Delta R.T.: 0.000 min  
Response: 42838876  
Conc: 205.43 ng/ml



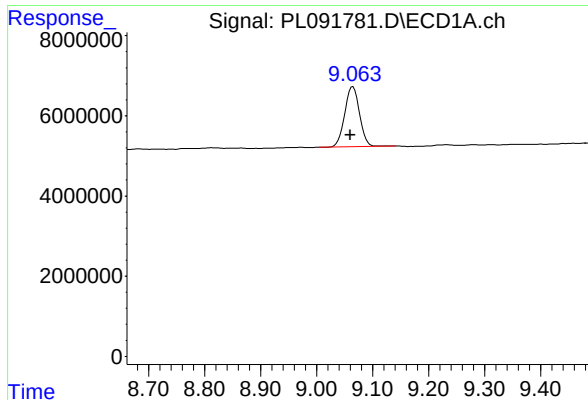
## #27 Chlordane-5

R.T.: 6.880 min  
Delta R.T.: 0.003 min  
Response: 12311791  
Conc: 215.70 ng/ml



## #27 Chlordane-5

R.T.: 5.948 min  
Delta R.T.: -0.001 min  
Response: 15608703  
Conc: 217.81 ng/ml



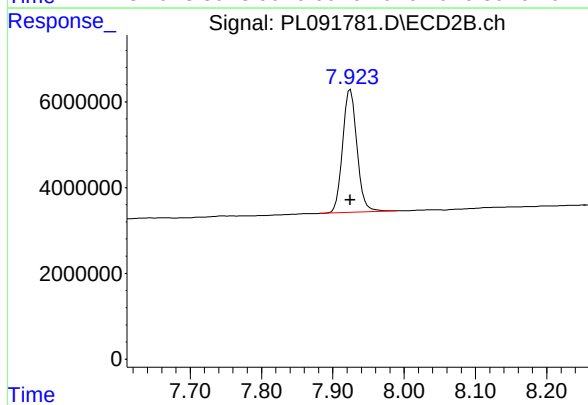
#28 Decachlorobiphenyl

R.T.: 9.065 min  
Delta R.T.: 0.004 min  
Response: 27458684  
Conc: 22.59 ng/ml

Instrument :  
ECD\_L  
ClientSampleId :  
PB163230BS

Manual Integrations  
APPROVED

Reviewed By :Abdul Mirza 09/18/2024  
Supervised By :Ankita Jodhani 09/18/2024



#28 Decachlorobiphenyl

R.T.: 7.925 min  
Delta R.T.: 0.000 min  
Response: 40212891  
Conc: 21.78 ng/ml



## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PL090924 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID        | File ID    | Parameter             | Review By | Review On                | Supervised By | Supervised On     | Reason                      |
|------------------|------------|-----------------------|-----------|--------------------------|---------------|-------------------|-----------------------------|
| PEM              | PL091569.D | Endrin ketone         | Abdul     | 9/11/2024<br>11:42:32 AM | Ankita        | 9/11/2024 1:51:36 | Peak Integrated by Software |
| RESCHK           | PL091570.D | gamma-Chlordane #2    | Abdul     | 9/11/2024<br>11:42:35 AM | Ankita        | 9/11/2024 1:51:37 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Chlordane-1           | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Chlordane-1 #2        | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Chlordane-2           | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Chlordane-2 #2        | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Chlordane-3           | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Chlordane-4           | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Chlordane-5           | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Decachlorobiphenyl    | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PCHLORICC05<br>0 | PL091580.D | Decachlorobiphenyl #2 | Abdul     | 9/11/2024<br>11:42:49 AM | Ankita        | 9/11/2024 1:51:44 | Peak Integrated by Software |
| PSTDICV050       | PL091586.D | gamma-Chlordane #2    | Abdul     | 9/11/2024<br>11:42:59 AM | Ankita        | 9/11/2024 1:51:45 | Peak Integrated by Software |
| I.BLK            | PL091589.D | Decachlorobiphenyl #2 | Abdul     | 9/11/2024<br>11:43:04 AM | Ankita        | 9/11/2024 1:51:47 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PL090924 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter               | Review By | Review On                | Supervised By | Supervised On     | Reason                      |
|------------|------------|-------------------------|-----------|--------------------------|---------------|-------------------|-----------------------------|
| I.BLK      | PL091589.D | Tetrachloro-m-xylene #2 | Abdul     | 9/11/2024<br>11:43:04 AM | Ankita        | 9/11/2024 1:51:47 | Peak Integrated by Software |
| PEM        | PL091590.D | 4,4"-DDD #2             | Abdul     | 9/11/2024<br>11:43:08 AM | Ankita        | 9/11/2024 1:51:48 | Peak Integrated by Software |
| PEM        | PL091590.D | Endrin aldehyde         | Abdul     | 9/11/2024<br>11:43:08 AM | Ankita        | 9/11/2024 1:51:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091591.D | 4,4"-DDE #2             | Abdul     | 9/11/2024<br>11:43:12 AM | Ankita        | 9/11/2024 1:51:50 | Peak Integrated by Software |
| PSTDCCC050 | PL091591.D | gamma-Chlordane #2      | Abdul     | 9/11/2024<br>11:43:12 AM | Ankita        | 9/11/2024 1:51:50 | Peak Integrated by Software |
| I.BLK      | PL091601.D | Decachlorobiphenyl #2   | Abdul     | 9/11/2024<br>11:43:47 AM | Ankita        | 9/11/2024 1:52:04 | Peak Integrated by Software |
| PSTDCCC050 | PL091602.D | 4,4"-DDT #2             | Abdul     | 9/11/2024<br>11:43:51 AM | Ankita        | 9/11/2024 1:52:06 | Peak Integrated by Software |
| PSTDCCC050 | PL091602.D | Aldrin                  | Abdul     | 9/11/2024<br>11:43:51 AM | Ankita        | 9/11/2024 1:52:06 | Peak Integrated by Software |
| PSTDCCC050 | PL091602.D | Endrin aldehyde         | Abdul     | 9/11/2024<br>11:43:51 AM | Ankita        | 9/11/2024 1:52:06 | Peak Integrated by Software |
| PSTDCCC050 | PL091602.D | Methoxychlor            | Abdul     | 9/11/2024<br>11:43:51 AM | Ankita        | 9/11/2024 1:52:06 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | pl091024 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID    | File ID    | Parameter             | Review By | Review On            | Supervised By | Supervised On      | Reason                      |
|--------------|------------|-----------------------|-----------|----------------------|---------------|--------------------|-----------------------------|
| PEM          | PL091605.D | 4,4"-DDD #2           | Abdul     | 9/11/2024 9:20:40 AM | Ankita        | 9/11/2024 11:32:09 | Peak Integrated by Software |
| PEM          | PL091605.D | 4,4"-DDE              | Abdul     | 9/11/2024 9:20:40 AM | Ankita        | 9/11/2024 11:32:09 | Peak Integrated by Software |
| PEM          | PL091605.D | 4,4"-DDE #2           | Abdul     | 9/11/2024 9:20:40 AM | Ankita        | 9/11/2024 11:32:09 | Peak Integrated by Software |
| PEM          | PL091605.D | Endrin                | Abdul     | 9/11/2024 9:20:40 AM | Ankita        | 9/11/2024 11:32:09 | Peak Integrated by Software |
| PSTDCCC050   | PL091606.D | 4,4"-DDD #2           | Abdul     | 9/11/2024 9:20:43 AM | Ankita        | 9/11/2024 11:32:11 | Peak Integrated by Software |
| PSTDCCC050   | PL091606.D | Aldrin #2             | Abdul     | 9/11/2024 9:20:43 AM | Ankita        | 9/11/2024 11:32:11 | Peak Integrated by Software |
| PSTDCCC050   | PL091606.D | Endosulfan II         | Abdul     | 9/11/2024 9:20:43 AM | Ankita        | 9/11/2024 11:32:11 | Peak Integrated by Software |
| PSTDCCC050   | PL091606.D | Endrin                | Abdul     | 9/11/2024 9:20:43 AM | Ankita        | 9/11/2024 11:32:11 | Peak Integrated by Software |
| PSTDCCC050   | PL091606.D | Endrin #2             | Abdul     | 9/11/2024 9:20:43 AM | Ankita        | 9/11/2024 11:32:11 | Peak Integrated by Software |
| PSTDCCC050   | PL091606.D | Endrin aldehyde       | Abdul     | 9/11/2024 9:20:43 AM | Ankita        | 9/11/2024 11:32:11 | Peak Integrated by Software |
| PSTDCCC050   | PL091606.D | gamma-Chlordane #2    | Abdul     | 9/11/2024 9:20:43 AM | Ankita        | 9/11/2024 11:32:11 | Peak Integrated by Software |
| PSTDCCC050   | PL091606.D | Heptachlor epoxide #2 | Abdul     | 9/11/2024 9:20:43 AM | Ankita        | 9/11/2024 11:32:11 | Peak Integrated by Software |
| PCHLORCCC500 | PL091607.D | Chlordane-3           | Abdul     | 9/11/2024 9:20:47 AM | Ankita        | 9/11/2024 11:32:13 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | pl091024 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID    | File ID    | Parameter          | Review By | Review On            | Supervised By | Supervised On      | Reason                      |
|--------------|------------|--------------------|-----------|----------------------|---------------|--------------------|-----------------------------|
| PTOXCCC500   | PL091608.D | Toxaphene-1        | Abdul     | 9/12/2024 9:38:57 AM | Ankita        | 9/12/2024 11:58:31 | Peak Integrated by Software |
| PSTDCCC050   | PL091624.D | Aldrin             | Abdul     | 9/12/2024 3:02:46 PM | Ankita        | 9/13/2024 11:00:08 | Peak Integrated by Software |
| PSTDCCC050   | PL091624.D | gamma-Chlordane #2 | Abdul     | 9/12/2024 3:02:46 PM | Ankita        | 9/13/2024 11:00:08 | Peak Integrated by Software |
| PSTDCCC050   | PL091624.D | Heptachlor         | Abdul     | 9/12/2024 3:02:46 PM | Ankita        | 9/13/2024 11:00:08 | Peak Integrated by Software |
| PCHLORCCC500 | PL091625.D | Chlordane-3        | Abdul     | 9/11/2024 9:21:29 AM | Ankita        | 9/11/2024 11:32:33 | Peak Integrated by Software |
| PTOXCCC500   | PL091626.D | Toxaphene-1        | Abdul     | 9/12/2024 9:39:12 AM | Ankita        | 9/12/2024 11:58:39 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | pl091724 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter          | Review By | Review On                | Supervised By | Supervised On         | Reason                      |
|------------|------------|--------------------|-----------|--------------------------|---------------|-----------------------|-----------------------------|
| PEM        | PL091778.D | 4,4"-DDD #2        | Abdul     | 9/18/2024<br>10:33:55 AM | Ankita        | 9/18/2024<br>11:57:59 | Peak Integrated by Software |
| PEM        | PL091778.D | beta-BHC #2        | Abdul     | 9/18/2024<br>10:33:55 AM | Ankita        | 9/18/2024<br>11:57:59 | Peak Integrated by Software |
| PEM        | PL091778.D | Endrin             | Abdul     | 9/18/2024<br>10:33:55 AM | Ankita        | 9/18/2024<br>11:57:59 | Peak Integrated by Software |
| PEM        | PL091778.D | Endrin aldehyde    | Abdul     | 9/18/2024<br>10:33:55 AM | Ankita        | 9/18/2024<br>11:57:59 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | 4,4"-DDE #2        | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | Aldrin             | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | Aldrin #2          | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | delta-BHC #2       | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | Endosulfan II #2   | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | Endrin             | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | Endrin ketone #2   | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | Heptachlor         | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |
| PSTDCCC050 | PL091779.D | Heptachlor epoxide | Abdul     | 9/18/2024<br>10:33:57 AM | Ankita        | 9/18/2024<br>11:58:01 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | pl091724 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID    | File ID    | Parameter        | Review By | Review On                | Supervised By | Supervised On         | Reason                      |
|--------------|------------|------------------|-----------|--------------------------|---------------|-----------------------|-----------------------------|
| PCHLORCCC500 | PL091780.D | Chlordane-1      | Abdul     | 9/18/2024<br>10:34:01 AM | Ankita        | 9/18/2024<br>11:58:04 | Peak Integrated by Software |
| PCHLORCCC500 | PL091780.D | Chlordane-3      | Abdul     | 9/18/2024<br>10:34:01 AM | Ankita        | 9/18/2024<br>11:58:04 | Peak Integrated by Software |
| PB163230BS   | PL091781.D | Chlordane-1      | Abdul     | 9/18/2024<br>10:34:05 AM | Ankita        | 9/18/2024<br>11:58:06 | Peak Integrated by Software |
| PB163230BS   | PL091781.D | Chlordane-3      | Abdul     | 9/18/2024<br>10:34:05 AM | Ankita        | 9/18/2024<br>11:58:06 | Peak Integrated by Software |
| PSTDCCC050   | PL091785.D | Aldrin           | Abdul     | 9/18/2024<br>10:34:45 AM | Ankita        | 9/18/2024<br>11:58:10 | Peak Integrated by Software |
| PSTDCCC050   | PL091785.D | Dieldrin         | Abdul     | 9/18/2024<br>10:34:45 AM | Ankita        | 9/18/2024<br>11:58:10 | Peak Integrated by Software |
| PSTDCCC050   | PL091785.D | Endrin           | Abdul     | 9/18/2024<br>10:34:45 AM | Ankita        | 9/18/2024<br>11:58:10 | Peak Integrated by Software |
| PCHLORCCC500 | PL091786.D | Chlordane-3      | Abdul     | 9/18/2024<br>10:34:12 AM | Ankita        | 9/18/2024<br>11:58:43 | Peak Integrated by Software |
| PSTDCCC050   | PL091794.D | Aldrin           | Abdul     | 9/18/2024<br>10:34:32 AM | Ankita        | 9/18/2024<br>11:58:31 | Peak Integrated by Software |
| PSTDCCC050   | PL091794.D | Endrin           | Abdul     | 9/18/2024<br>10:34:32 AM | Ankita        | 9/18/2024<br>11:58:31 | Peak Integrated by Software |
| PSTDCCC050   | PL091794.D | Endrin ketone #2 | Abdul     | 9/18/2024<br>10:34:32 AM | Ankita        | 9/18/2024<br>11:58:31 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PL092324 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter            | Review By | Review On             | Supervised By | Supervised On      | Reason                      |
|------------|------------|----------------------|-----------|-----------------------|---------------|--------------------|-----------------------------|
| PEM        | PL091954.D | Endrin ketone #2     | Abdul     | 9/24/2024 9:17:41 AM  | Ankita        | 9/24/2024 11:06:36 | Peak Integrated by Software |
| PEM        | PL091975.D | 4,4"-DDE             | Abdul     | 9/25/2024 12:23:38 PM | Ankita        | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM        | PL091975.D | 4,4"-DDE #2          | Abdul     | 9/25/2024 12:23:38 PM | Ankita        | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM        | PL091975.D | 4,4"-DDT #2          | Abdul     | 9/25/2024 12:23:38 PM | Ankita        | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM        | PL091975.D | Endrin ketone #2     | Abdul     | 9/25/2024 12:23:38 PM | Ankita        | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM        | PL091975.D | gamma-BHC (Lindane)  | Abdul     | 9/25/2024 12:23:38 PM | Ankita        | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PEM        | PL091975.D | Methoxychlor #2      | Abdul     | 9/25/2024 12:23:38 PM | Ankita        | 9/25/2024 12:24:20 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | 4,4"-DDE #2          | Abdul     | 9/24/2024 9:18:08 AM  | Ankita        | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Aldrin #2            | Abdul     | 9/24/2024 9:18:08 AM  | Ankita        | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | delta-BHC #2         | Abdul     | 9/24/2024 9:18:08 AM  | Ankita        | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Endrin aldehyde      | Abdul     | 9/24/2024 9:18:08 AM  | Ankita        | 9/24/2024 11:06:48 | Peak Integrated by Software |
| PSTDCCC050 | PL091976.D | Endrin ketone #2     | Abdul     | 9/24/2024 9:18:08 AM  | Ankita        | 9/24/2024 11:06:48 | Peak Integrated by Software |
| I.BLK      | PL091988.D | Tetrachloro-m-xylene | Abdul     | 9/24/2024 9:23:07 AM  | Ankita        | 9/24/2024 11:07:26 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PL092324 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter        | Review By | Review On            | Supervised By | Supervised On      | Reason                      |
|------------|------------|------------------|-----------|----------------------|---------------|--------------------|-----------------------------|
| PSTDCCC050 | PL091989.D | 4,4"-DDD         | Abdul     | 9/24/2024 9:23:10 AM | Ankita        | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | 4,4"-DDE #2      | Abdul     | 9/24/2024 9:23:10 AM | Ankita        | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Aldrin #2        | Abdul     | 9/24/2024 9:23:10 AM | Ankita        | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | delta-BHC #2     | Abdul     | 9/24/2024 9:23:10 AM | Ankita        | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endosulfan II    | Abdul     | 9/24/2024 9:23:10 AM | Ankita        | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endosulfan II #2 | Abdul     | 9/24/2024 9:23:10 AM | Ankita        | 9/24/2024 11:07:29 | Peak Integrated by Software |
| PSTDCCC050 | PL091989.D | Endrin           | Abdul     | 9/24/2024 9:23:10 AM | Ankita        | 9/24/2024 11:07:29 | Peak Integrated by Software |



## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PL092424 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID    | File ID    | Parameter          | Review By | Review On                | Supervised By | Supervised On     | Reason                      |
|--------------|------------|--------------------|-----------|--------------------------|---------------|-------------------|-----------------------------|
| PEM          | PL091992.D | 4,4"-DDE           | Abdul     | 9/25/2024<br>10:47:14 AM | Ankita        | 9/25/2024 2:17:24 | Peak Integrated by Software |
| PEM          | PL091992.D | 4,4"-DDE #2        | Abdul     | 9/25/2024<br>10:47:14 AM | Ankita        | 9/25/2024 2:17:24 | Peak Integrated by Software |
| PEM          | PL091992.D | Endrin ketone #2   | Abdul     | 9/25/2024<br>10:47:14 AM | Ankita        | 9/25/2024 2:17:24 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | 4,4"-DDD           | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | 4,4"-DDE #2        | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | Aldrin #2          | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | Endosulfan II #2   | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | Endrin             | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | Endrin ketone #2   | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | gamma-Chlordane    | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | Heptachlor epoxide | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PSTDCCC050   | PL091993.D | Methoxychlor       | Abdul     | 9/25/2024<br>10:47:17 AM | Ankita        | 9/25/2024 2:17:25 | Peak Integrated by Software |
| PCHLORCCC500 | PL091994.D | Chlordane-1        | Abdul     | 9/25/2024<br>10:47:20 AM | Ankita        | 9/25/2024 2:17:27 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PL092424 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter          | Review By | Review On                | Supervised By | Supervised On     | Reason                      |
|------------|------------|--------------------|-----------|--------------------------|---------------|-------------------|-----------------------------|
| P3845-11   | PL091997.D | Chlordane-1        | Abdul     | 9/25/2024<br>10:47:31 AM | Ankita        | 9/25/2024 2:17:30 | Peak Integrated by Software |
| PSTDCCC050 | PL092003.D | 4,4"-DDD           | Abdul     | 9/25/2024<br>10:47:50 AM | Ankita        | 9/25/2024 2:17:43 | Peak Integrated by Software |
| PSTDCCC050 | PL092003.D | 4,4"-DDE #2        | Abdul     | 9/25/2024<br>10:47:50 AM | Ankita        | 9/25/2024 2:17:43 | Peak Integrated by Software |
| PSTDCCC050 | PL092003.D | Aldrin #2          | Abdul     | 9/25/2024<br>10:47:50 AM | Ankita        | 9/25/2024 2:17:43 | Peak Integrated by Software |
| PSTDCCC050 | PL092003.D | alpha-Chlordane    | Abdul     | 9/25/2024<br>10:47:50 AM | Ankita        | 9/25/2024 2:17:43 | Peak Integrated by Software |
| PSTDCCC050 | PL092003.D | Endrin             | Abdul     | 9/25/2024<br>10:47:50 AM | Ankita        | 9/25/2024 2:17:43 | Peak Integrated by Software |
| PSTDCCC050 | PL092003.D | Endrin ketone #2   | Abdul     | 9/25/2024<br>10:47:50 AM | Ankita        | 9/25/2024 2:17:43 | Peak Integrated by Software |
| PSTDCCC050 | PL092003.D | gamma-Chlordane    | Abdul     | 9/25/2024<br>10:47:50 AM | Ankita        | 9/25/2024 2:17:43 | Peak Integrated by Software |
| PSTDCCC050 | PL092003.D | Heptachlor epoxide | Abdul     | 9/25/2024<br>10:47:50 AM | Ankita        | 9/25/2024 2:17:43 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | 4,4"-DDD           | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | 4,4"-DDE #2        | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | Aldrin             | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | Aldrin #2          | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | PL092424 | Instrument | ECD_I |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter          | Review By | Review On                | Supervised By | Supervised On     | Reason                      |
|------------|------------|--------------------|-----------|--------------------------|---------------|-------------------|-----------------------------|
| PSTDCCC050 | PL092015.D | alpha-Chlordane    | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | Endosulfan II #2   | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | Endrin             | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | Endrin ketone #2   | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | gamma-Chlordane    | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | Heptachlor epoxide | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092015.D | Methoxychlor       | Abdul     | 9/25/2024<br>10:48:24 AM | Ankita        | 9/25/2024 2:17:56 | Peak Integrated by Software |
| PSTDCCC050 | PL092021.D | 4,4"-DDD           | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |
| PSTDCCC050 | PL092021.D | 4,4"-DDE #2        | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |
| PSTDCCC050 | PL092021.D | Aldrin #2          | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |
| PSTDCCC050 | PL092021.D | Endosulfan I #2    | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |
| PSTDCCC050 | PL092021.D | Endrin             | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |
| PSTDCCC050 | PL092021.D | Endrin ketone #2   | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |

## Manual Integration Report

Sequence:

PL092424

Instrument

ECD\_I

| Sample ID  | File ID    | Parameter          | Review By | Review On                | Supervised By | Supervised On     | Reason                      |
|------------|------------|--------------------|-----------|--------------------------|---------------|-------------------|-----------------------------|
| PSTDCCC050 | PL092021.D | gamma-Chlordane    | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |
| PSTDCCC050 | PL092021.D | Heptachlor epoxide | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |
| PSTDCCC050 | PL092021.D | Mirex #2           | Abdul     | 9/25/2024<br>10:48:40 AM | Ankita        | 9/25/2024 2:18:03 | Peak Integrated by Software |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL090924**

|                          |                                                                                 |                   |                                    |
|--------------------------|---------------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                | Abdul                                                                           | Review On         | 9/11/2024 11:44:26 AM              |
| Supervise By             | Ankita                                                                          | Supervise On      | 9/11/2024 1:52:24 PM               |
| SubDirectory             | PL090924                                                                        | HP Acquire Method | HP Processing Method pl090924 8081 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                                                |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                 |                   |                                    |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |                   |                                    |
| CCC                      | PP23484,PP23489,PP23494                                                         |                   |                                    |
| Internal Standard/PEM    |                                                                                 |                   |                                    |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |                   |                                    |
| Surrogate Standard       |                                                                                 |                   |                                    |
| MS/MSD Standard          |                                                                                 |                   |                                    |
| LCS Standard             |                                                                                 |                   |                                    |

| Sr# | SampleId      | Data File Name | Date-Time         | Operator | Status |
|-----|---------------|----------------|-------------------|----------|--------|
| 1   | HEXANE        | PL091567.D     | 09 Sep 2024 10:14 | AR\AJ    | Ok     |
| 2   | I.BLK         | PL091568.D     | 09 Sep 2024 14:50 | AR\AJ    | Ok     |
| 3   | PEM           | PL091569.D     | 09 Sep 2024 15:03 | AR\AJ    | Ok,M   |
| 4   | RESCHK        | PL091570.D     | 09 Sep 2024 15:17 | AR\AJ    | Ok,M   |
| 5   | PSTDICC100    | PL091571.D     | 09 Sep 2024 15:31 | AR\AJ    | Ok     |
| 6   | PSTDICC075    | PL091572.D     | 09 Sep 2024 15:44 | AR\AJ    | Ok,M   |
| 7   | PSTDICC050    | PL091573.D     | 09 Sep 2024 15:58 | AR\AJ    | Ok     |
| 8   | PSTDICC025    | PL091574.D     | 09 Sep 2024 16:11 | AR\AJ    | Ok,M   |
| 9   | PSTDICC005    | PL091575.D     | 09 Sep 2024 16:25 | AR\AJ    | Ok,M   |
| 10  | PCHLORICC1000 | PL091576.D     | 09 Sep 2024 16:39 | AR\AJ    | Ok     |
| 11  | PCHLORICC750  | PL091577.D     | 09 Sep 2024 16:52 | AR\AJ    | Ok     |
| 12  | PCHLORICC500  | PL091578.D     | 09 Sep 2024 17:06 | AR\AJ    | Ok     |
| 13  | PCHLORICC250  | PL091579.D     | 09 Sep 2024 17:19 | AR\AJ    | Ok     |
| 14  | PCHLORICC050  | PL091580.D     | 09 Sep 2024 17:33 | AR\AJ    | Ok,M   |
| 15  | PTOXICC1000   | PL091581.D     | 09 Sep 2024 17:47 | AR\AJ    | Ok     |
| 16  | PTOXICC750    | PL091582.D     | 09 Sep 2024 18:01 | AR\AJ    | Ok,M   |
| 17  | PTOXICC500    | PL091583.D     | 09 Sep 2024 18:14 | AR\AJ    | Ok,M   |
| 18  | PTOXICC250    | PL091584.D     | 09 Sep 2024 18:28 | AR\AJ    | Ok     |
| 19  | PTOXICC100    | PL091585.D     | 09 Sep 2024 18:42 | AR\AJ    | Ok,M   |
| 20  | PSTDICV050    | PL091586.D     | 09 Sep 2024 18:56 | AR\AJ    | Ok,M   |
| 21  | PCHLORICV500  | PL091587.D     | 09 Sep 2024 19:10 | AR\AJ    | Ok     |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL090924**

| Review By                | Abdul                                                                           | Review On         | 9/11/2024 11:44:26 AM              |
|--------------------------|---------------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By             | Ankita                                                                          | Supervise On      | 9/11/2024 1:52:24 PM               |
| SubDirectory             | PL090924                                                                        | HP Acquire Method | HP Processing Method pl090924 8081 |
| STD. NAME                | STD REF.#                                                                       |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                 |                   |                                    |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |                   |                                    |
| CCC                      | PP23484,PP23489,PP23494                                                         |                   |                                    |
| Internal Standard/PEM    |                                                                                 |                   |                                    |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |                   |                                    |
| Surrogate Standard       |                                                                                 |                   |                                    |
| MS/MSD Standard          |                                                                                 |                   |                                    |
| LCS Standard             |                                                                                 |                   |                                    |

|    |             |            |                   |       |        |
|----|-------------|------------|-------------------|-------|--------|
| 22 | PTOXICV500  | PL091588.D | 09 Sep 2024 19:23 | AR\AJ | Ok     |
| 23 | I.BLK       | PL091589.D | 09 Sep 2024 19:37 | AR\AJ | Not Ok |
| 24 | PEM         | PL091590.D | 09 Sep 2024 19:51 | AR\AJ | Ok,M   |
| 25 | PSTDCCC050  | PL091591.D | 09 Sep 2024 20:05 | AR\AJ | Ok,M   |
| 26 | PB163178BS  | PL091592.D | 09 Sep 2024 20:18 | AR\AJ | Not Ok |
| 27 | P3861-01    | PL091593.D | 09 Sep 2024 20:32 | AR\AJ | Not Ok |
| 28 | PB163218BL  | PL091594.D | 09 Sep 2024 20:46 | AR\AJ | Not Ok |
| 29 | PB163218BS  | PL091595.D | 09 Sep 2024 21:00 | AR\AJ | Not Ok |
| 30 | P3888-01    | PL091596.D | 09 Sep 2024 21:13 | AR\AJ | Not Ok |
| 31 | P3888-02    | PL091597.D | 09 Sep 2024 21:27 | AR\AJ | Not Ok |
| 32 | P3888-02MS  | PL091598.D | 09 Sep 2024 21:41 | AR\AJ | Not Ok |
| 33 | P3888-02MSD | PL091599.D | 09 Sep 2024 21:55 | AR\AJ | Not Ok |
| 34 | P3892-02    | PL091600.D | 09 Sep 2024 22:08 | AR\AJ | Not Ok |
| 35 | I.BLK       | PL091601.D | 09 Sep 2024 22:22 | AR\AJ | Ok,M   |
| 36 | PSTDCCC050  | PL091602.D | 09 Sep 2024 22:36 | AR\AJ | Ok,M   |

M : Manual Integration

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL091024**

|                          |                                                                                 |                   |                                    |
|--------------------------|---------------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                | Abdul                                                                           | Review On         | 9/11/2024 9:23:53 AM               |
| Supervise By             | Ankita                                                                          | Supervise On      | 9/12/2024 11:58:50 AM              |
| SubDirectory             | PL091024                                                                        | HP Acquire Method | HP Processing Method pl090924 8081 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                                                |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                 |                   |                                    |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |                   |                                    |
| CCC                      | PP23484,PP23489,PP23494                                                         |                   |                                    |
| Internal Standard/PEM    |                                                                                 |                   |                                    |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |                   |                                    |
| Surrogate Standard       |                                                                                 |                   |                                    |
| MS/MSD Standard          |                                                                                 |                   |                                    |
| LCS Standard             |                                                                                 |                   |                                    |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | HEXANE       | PL091603.D     | 10 Sep 2024 10:43 | AR\AJ    | Ok     |
| 2   | I.BLK        | PL091604.D     | 10 Sep 2024 10:57 | AR\AJ    | Ok     |
| 3   | PEM          | PL091605.D     | 10 Sep 2024 11:10 | AR\AJ    | Ok,M   |
| 4   | PSTDCCC050   | PL091606.D     | 10 Sep 2024 11:24 | AR\AJ    | Ok,M   |
| 5   | PCHLORCCC500 | PL091607.D     | 10 Sep 2024 11:56 | AR\AJ    | Ok,M   |
| 6   | PTOXCCC500   | PL091608.D     | 10 Sep 2024 12:12 | AR\AJ    | Ok,M   |
| 7   | PB163178BS   | PL091609.D     | 10 Sep 2024 12:26 | AR\AJ    | Ok,M   |
| 8   | PB163229BL   | PL091610.D     | 10 Sep 2024 12:40 | AR\AJ    | Ok     |
| 9   | PB163229BS   | PL091611.D     | 10 Sep 2024 12:57 | AR\AJ    | Ok,M   |
| 10  | PB163229BSD  | PL091612.D     | 10 Sep 2024 13:11 | AR\AJ    | Not Ok |
| 11  | P3845-09     | PL091613.D     | 10 Sep 2024 13:25 | AR\AJ    | Not Ok |
| 12  | P3853-01     | PL091614.D     | 10 Sep 2024 13:38 | AR\AJ    | Ok     |
| 13  | PB163230BL   | PL091615.D     | 10 Sep 2024 13:52 | AR\AJ    | Ok     |
| 14  | PB163230BS   | PL091616.D     | 10 Sep 2024 15:02 | AR\AJ    | Not Ok |
| 15  | P3845-11     | PL091617.D     | 10 Sep 2024 15:16 | AR\AJ    | Not Ok |
| 16  | PB163231BL   | PL091618.D     | 10 Sep 2024 15:29 | AR\AJ    | Ok     |
| 17  | PB163231BS   | PL091619.D     | 10 Sep 2024 15:43 | AR\AJ    | Ok     |
| 18  | P3845-13     | PL091620.D     | 10 Sep 2024 15:57 | AR\AJ    | Not Ok |
| 19  | P3845-13DL   | PL091621.D     | 10 Sep 2024 16:23 | AR\AJ    | Not Ok |
| 20  | P3845-13DL2  | PL091622.D     | 10 Sep 2024 16:43 | AR\AJ    | Not Ok |
| 21  | I.BLK        | PL091623.D     | 10 Sep 2024 16:56 | AR\AJ    | Ok     |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL091024**

| Review By                | Abdul                                                                           | Review On         | 9/11/2024 9:23:53 AM               |
|--------------------------|---------------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By             | Ankita                                                                          | Supervise On      | 9/12/2024 11:58:50 AM              |
| SubDirectory             | PL091024                                                                        | HP Acquire Method | HP Processing Method pl090924 8081 |
| STD. NAME                | STD REF.#                                                                       |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                 |                   |                                    |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |                   |                                    |
| CCC                      | PP23484,PP23489,PP23494                                                         |                   |                                    |
| Internal Standard/PEM    |                                                                                 |                   |                                    |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |                   |                                    |
| Surrogate Standard       |                                                                                 |                   |                                    |
| MS/MSD Standard          |                                                                                 |                   |                                    |
| LCS Standard             |                                                                                 |                   |                                    |

|    |              |            |                   |       |      |
|----|--------------|------------|-------------------|-------|------|
| 22 | PSTDCCC050   | PL091624.D | 10 Sep 2024 17:10 | AR\AJ | Ok,M |
| 23 | PCHLORCCC500 | PL091625.D | 10 Sep 2024 17:24 | AR\AJ | Ok,M |
| 24 | PTOXCCC500   | PL091626.D | 10 Sep 2024 17:54 | AR\AJ | Ok,M |

M : Manual Integration



Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL091724**

|                          |                                                                                 |                   |                                    |
|--------------------------|---------------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                | Abdul                                                                           | Review On         | 9/18/2024 10:35:50 AM              |
| Supervise By             | Ankita                                                                          | Supervise On      | 9/18/2024 11:58:49 AM              |
| SubDirectory             | PL091724                                                                        | HP Acquire Method | HP Processing Method pl090924 8081 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                                                |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                 |                   |                                    |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |                   |                                    |
| CCC                      | PP23484,PP23489,PP23494                                                         |                   |                                    |
| Internal Standard/PEM    |                                                                                 |                   |                                    |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |                   |                                    |
| Surrogate Standard       |                                                                                 |                   |                                    |
| MS/MSD Standard          |                                                                                 |                   |                                    |
| LCS Standard             |                                                                                 |                   |                                    |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | HEXANE       | PL091776.D     | 17 Sep 2024 11:07 | AR\AJ    | Ok     |
| 2   | I.BLK        | PL091777.D     | 17 Sep 2024 11:20 | AR\AJ    | Ok     |
| 3   | PEM          | PL091778.D     | 17 Sep 2024 11:34 | AR\AJ    | Ok,M   |
| 4   | PSTDCCC050   | PL091779.D     | 17 Sep 2024 11:47 | AR\AJ    | Ok,M   |
| 5   | PCHLORCCC500 | PL091780.D     | 17 Sep 2024 12:21 | AR\AJ    | Ok,M   |
| 6   | PB163230BS   | PL091781.D     | 17 Sep 2024 12:40 | AR\AJ    | Ok,M   |
| 7   | PB163453BL   | PL091782.D     | 17 Sep 2024 14:11 | AR\AJ    | Ok     |
| 8   | PB163453BS   | PL091783.D     | 17 Sep 2024 14:24 | AR\AJ    | Not Ok |
| 9   | I.BLK        | PL091784.D     | 17 Sep 2024 14:50 | AR\AJ    | Ok     |
| 10  | PSTDCCC050   | PL091785.D     | 17 Sep 2024 15:24 | AR\AJ    | Ok,M   |
| 11  | PCHLORCCC500 | PL091786.D     | 17 Sep 2024 15:37 | AR\AJ    | Ok,M   |
| 12  | P4014-01     | PL091787.D     | 17 Sep 2024 15:51 | AR\AJ    | Ok,M   |
| 13  | P4023-01     | PL091788.D     | 17 Sep 2024 16:05 | AR\AJ    | Ok,M   |
| 14  | P4023-03     | PL091789.D     | 17 Sep 2024 16:18 | AR\AJ    | Ok,M   |
| 15  | P4027-01     | PL091790.D     | 17 Sep 2024 16:31 | AR\AJ    | Ok,M   |
| 16  | P4027-01MS   | PL091791.D     | 17 Sep 2024 16:45 | AR\AJ    | Ok,M   |
| 17  | P4027-01MSD  | PL091792.D     | 17 Sep 2024 16:58 | AR\AJ    | Ok,M   |
| 18  | I.BLK        | PL091793.D     | 17 Sep 2024 17:12 | AR\AJ    | Ok     |
| 19  | PSTDCCC050   | PL091794.D     | 17 Sep 2024 17:25 | AR\AJ    | Ok,M   |

M : Manual Integration

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092324**

|                          |                                                                                         |                   |                                    |
|--------------------------|-----------------------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                | Abdul                                                                                   | Review On         | 9/24/2024 9:27:05 AM               |
| Supervise By             | Ankita                                                                                  | Supervise On      | 9/24/2024 11:07:44 AM              |
| SubDirectory             | PL092324                                                                                | HP Acquire Method | HP Processing Method pl092324 8081 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                                                        |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                         |                   |                                    |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |                   |                                    |
| CCC                      | PP23686,PP23690,PP23695                                                                 |                   |                                    |
| Internal Standard/PEM    |                                                                                         |                   |                                    |
| ICV/I.BLK                | PP23687,PP23693,PP23698                                                                 |                   |                                    |
| Surrogate Standard       |                                                                                         |                   |                                    |
| MS/MSD Standard          |                                                                                         |                   |                                    |
| LCS Standard             |                                                                                         |                   |                                    |

| Sr# | SampleId      | Data File Name | Date-Time         | Operator | Status |
|-----|---------------|----------------|-------------------|----------|--------|
| 1   | HEXANE        | PL091952.D     | 23 Sep 2024 10:38 | AR\AJ    | Ok     |
| 2   | I.BLK         | PL091953.D     | 23 Sep 2024 10:52 | AR\AJ    | Ok     |
| 3   | PEM           | PL091954.D     | 23 Sep 2024 11:05 | AR\AJ    | Ok,M   |
| 4   | RESCHK        | PL091955.D     | 23 Sep 2024 11:19 | AR\AJ    | Ok     |
| 5   | PSTDICC100    | PL091956.D     | 23 Sep 2024 11:32 | AR\AJ    | Ok     |
| 6   | PSTDICC075    | PL091957.D     | 23 Sep 2024 11:45 | AR\AJ    | Ok     |
| 7   | PSTDICC050    | PL091958.D     | 23 Sep 2024 11:59 | AR\AJ    | Ok     |
| 8   | PSTDICC025    | PL091959.D     | 23 Sep 2024 12:12 | AR\AJ    | Ok,M   |
| 9   | PSTDICC005    | PL091960.D     | 23 Sep 2024 12:26 | AR\AJ    | Ok,M   |
| 10  | PCHLORICC1000 | PL091961.D     | 23 Sep 2024 12:39 | AR\AJ    | Ok     |
| 11  | PCHLORICC750  | PL091962.D     | 23 Sep 2024 12:52 | AR\AJ    | Ok     |
| 12  | PCHLORICC500  | PL091963.D     | 23 Sep 2024 13:06 | AR\AJ    | Ok     |
| 13  | PCHLORICC250  | PL091964.D     | 23 Sep 2024 13:19 | AR\AJ    | Ok     |
| 14  | PCHLORICC050  | PL091965.D     | 23 Sep 2024 13:33 | AR\AJ    | Ok     |
| 15  | PTOXICC1000   | PL091966.D     | 23 Sep 2024 13:46 | AR\AJ    | Ok     |
| 16  | PTOXICC750    | PL091967.D     | 23 Sep 2024 13:59 | AR\AJ    | Ok     |
| 17  | PTOXICC500    | PL091968.D     | 23 Sep 2024 14:13 | AR\AJ    | Ok     |
| 18  | PTOXICC250    | PL091969.D     | 23 Sep 2024 14:26 | AR\AJ    | Ok     |
| 19  | PTOXICC100    | PL091970.D     | 23 Sep 2024 14:40 | AR\AJ    | Ok,M   |
| 20  | PSTDICV050    | PL091971.D     | 23 Sep 2024 14:53 | AR\AJ    | Ok     |
| 21  | PCHLORICV500  | PL091972.D     | 23 Sep 2024 15:20 | AR\AJ    | Ok     |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092324**

| Review By                | Abdul                                                                                   | Review On         | 9/24/2024 9:27:05 AM               |
|--------------------------|-----------------------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By             | Ankita                                                                                  | Supervise On      | 9/24/2024 11:07:44 AM              |
| SubDirectory             | PL092324                                                                                | HP Acquire Method | HP Processing Method pl092324 8081 |
| STD. NAME                | STD REF.#                                                                               |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                         |                   |                                    |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |                   |                                    |
| CCC                      | PP23686,PP23690,PP23695                                                                 |                   |                                    |
| Internal Standard/PEM    |                                                                                         |                   |                                    |
| ICV/I.BLK                | PP23687,PP23693,PP23698                                                                 |                   |                                    |
| Surrogate Standard       |                                                                                         |                   |                                    |
| MS/MSD Standard          |                                                                                         |                   |                                    |
| LCS Standard             |                                                                                         |                   |                                    |

|    |             |            |                   |       |      |
|----|-------------|------------|-------------------|-------|------|
| 22 | PTOXICV500  | PL091973.D | 23 Sep 2024 15:47 | AR\AJ | Ok   |
| 23 | I.BLK       | PL091974.D | 23 Sep 2024 16:13 | AR\AJ | Ok   |
| 24 | PEM         | PL091975.D | 23 Sep 2024 16:27 | AR\AJ | Ok,M |
| 25 | PSTDCCC050  | PL091976.D | 23 Sep 2024 16:40 | AR\AJ | Ok,M |
| 26 | PB163572BL  | PL091977.D | 23 Sep 2024 16:54 | AR\AJ | Ok   |
| 27 | PB163572BS  | PL091978.D | 23 Sep 2024 17:07 | AR\AJ | Ok,M |
| 28 | P4103-02    | PL091979.D | 23 Sep 2024 17:20 | AR\AJ | Ok,M |
| 29 | P4103-02MS  | PL091980.D | 23 Sep 2024 17:34 | AR\AJ | Ok,M |
| 30 | P4103-02MSD | PL091981.D | 23 Sep 2024 17:47 | AR\AJ | Ok,M |
| 31 | P4103-05    | PL091982.D | 23 Sep 2024 18:01 | AR\AJ | Ok   |
| 32 | P4103-08    | PL091983.D | 23 Sep 2024 18:14 | AR\AJ | Ok,M |
| 33 | P4103-11    | PL091984.D | 23 Sep 2024 18:28 | AR\AJ | Ok,M |
| 34 | P4103-14    | PL091985.D | 23 Sep 2024 18:41 | AR\AJ | Ok,M |
| 35 | P4103-17    | PL091986.D | 23 Sep 2024 18:55 | AR\AJ | Ok,M |
| 36 | PB163511TB  | PL091987.D | 23 Sep 2024 19:08 | AR\AJ | Ok,M |
| 37 | I.BLK       | PL091988.D | 23 Sep 2024 19:21 | AR\AJ | Ok,M |
| 38 | PSTDCCC050  | PL091989.D | 23 Sep 2024 19:35 | AR\AJ | Ok,M |

M : Manual Integration

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092424**

|                          |                                                                                         |                   |                                    |
|--------------------------|-----------------------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                | Abdul                                                                                   | Review On         | 9/25/2024 10:49:05 AM              |
| Supervise By             | Ankita                                                                                  | Supervise On      | 9/25/2024 2:18:21 PM               |
| SubDirectory             | PL092424                                                                                | HP Acquire Method | HP Processing Method pl092324 8081 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                                                        |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                         |                   |                                    |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |                   |                                    |
| CCC                      | PP23686,PP23690,PP23695                                                                 |                   |                                    |
| Internal Standard/PEM    |                                                                                         |                   |                                    |
| ICV/I.BLK                | PP23687,PP23693,PP23698                                                                 |                   |                                    |
| Surrogate Standard       |                                                                                         |                   |                                    |
| MS/MSD Standard          |                                                                                         |                   |                                    |
| LCS Standard             |                                                                                         |                   |                                    |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status   |
|-----|--------------|----------------|-------------------|----------|----------|
| 1   | HEXANE       | PL091990.D     | 24 Sep 2024 09:15 | AR\AJ    | Ok       |
| 2   | I.BLK        | PL091991.D     | 24 Sep 2024 09:28 | AR\AJ    | Ok       |
| 3   | PEM          | PL091992.D     | 24 Sep 2024 09:41 | AR\AJ    | Ok,M     |
| 4   | PSTDCCC050   | PL091993.D     | 24 Sep 2024 09:55 | AR\AJ    | Ok,M     |
| 5   | PCHLORCCC500 | PL091994.D     | 24 Sep 2024 12:02 | AR\AJ    | Ok,M     |
| 6   | PTOXCCC500   | PL091995.D     | 24 Sep 2024 12:16 | AR\AJ    | Ok       |
| 7   | P3845-09     | PL091996.D     | 24 Sep 2024 12:35 | AR\AJ    | Dilution |
| 8   | P3845-11     | PL091997.D     | 24 Sep 2024 12:49 | AR\AJ    | Ok,M     |
| 9   | P3845-13     | PL091998.D     | 24 Sep 2024 13:02 | AR\AJ    | Dilution |
| 10  | P3845-09DL   | PL091999.D     | 24 Sep 2024 13:19 | AR\AJ    | Dilution |
| 11  | P3845-09DL2  | PL092000.D     | 24 Sep 2024 13:32 | AR\AJ    | Ok,M     |
| 12  | P3845-13DL   | PL092001.D     | 24 Sep 2024 13:54 | AR\AJ    | Ok,M     |
| 13  | I.BLK        | PL092002.D     | 24 Sep 2024 14:08 | AR\AJ    | Ok       |
| 14  | PSTDCCC050   | PL092003.D     | 24 Sep 2024 14:21 | AR\AJ    | Ok,M     |
| 15  | PCHLORCCC500 | PL092004.D     | 24 Sep 2024 14:35 | AR\AJ    | Ok       |
| 16  | PTOXCCC500   | PL092005.D     | 24 Sep 2024 14:48 | AR\AJ    | Ok       |
| 17  | PB163645BL   | PL092006.D     | 24 Sep 2024 15:01 | AR\AJ    | Ok       |
| 18  | PB163645BS   | PL092007.D     | 24 Sep 2024 15:32 | AR\AJ    | Not Ok   |
| 19  | P4149-13     | PL092008.D     | 24 Sep 2024 15:45 | AR\AJ    | Ok,M     |
| 20  | P4149-14     | PL092009.D     | 24 Sep 2024 15:59 | AR\AJ    | Dilution |
| 21  | P4149-15     | PL092010.D     | 24 Sep 2024 16:12 | AR\AJ    | Ok,M     |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092424**

| Review By                | Abdul                                                                                   | Review On         | 9/25/2024 10:49:05 AM              |
|--------------------------|-----------------------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By             | Ankita                                                                                  | Supervise On      | 9/25/2024 2:18:21 PM               |
| SubDirectory             | PL092424                                                                                | HP Acquire Method | HP Processing Method pl092324 8081 |
| STD. NAME                | STD REF.#                                                                               |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                         |                   |                                    |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |                   |                                    |
| CCC                      | PP23686,PP23690,PP23695                                                                 |                   |                                    |
| Internal Standard/PEM    |                                                                                         |                   |                                    |
| ICV/I.BLK                | PP23687,PP23693,PP23698                                                                 |                   |                                    |
| Surrogate Standard       |                                                                                         |                   |                                    |
| MS/MSD Standard          |                                                                                         |                   |                                    |
| LCS Standard             |                                                                                         |                   |                                    |

|    |             |            |                      |       |      |
|----|-------------|------------|----------------------|-------|------|
| 22 | P4149-15MS  | PL092011.D | 24 Sep 2024 16:26    | AR\AJ | Ok,M |
| 23 | P4149-15MSD | PL092012.D | 24 Sep 2024 16:39    | AR\AJ | Ok,M |
| 24 | PB163645BS  | PL092013.D | 24 Sep 2024 16:52    | AR\AJ | Ok,M |
| 25 | I.BLK       | PL092014.D | 24 Sep 2024 17:06    | AR\AJ | Ok   |
| 26 | PSTDCCC050  | PL092015.D | 24 Sep 2024 17:19    | AR\AJ | Ok,M |
| 27 | P4142-01    | PL092016.D | 24 Sep 2024 05:46 pm | AR\AJ | Ok,M |
| 28 | P4146-01    | PL092017.D | 24 Sep 2024 18:00    | AR\AJ | Ok,M |
| 29 | P4148-01    | PL092018.D | 24 Sep 2024 18:13    | AR\AJ | Ok,M |
| 30 | P4150-01    | PL092019.D | 24 Sep 2024 18:27    | AR\AJ | Ok   |
| 31 | I.BLK       | PL092020.D | 24 Sep 2024 18:40    | AR\AJ | Ok   |
| 32 | PSTDCCC050  | PL092021.D | 24 Sep 2024 19:20    | AR\AJ | Ok,M |

M : Manual Integration

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL090924**

|              |          |                   |                                   |
|--------------|----------|-------------------|-----------------------------------|
| Review By    | Abdul    | Review On         | 9/11/2024 11:44:26 AM             |
| Supervise By | Ankita   | Supervise On      | 9/11/2024 1:52:24 PM              |
| SubDirectory | PL090924 | HP Acquire Method | HP Processing Method p090924 8081 |

| STD. NAME                | STD REF.#                                                                       |
|--------------------------|---------------------------------------------------------------------------------|
| Tune/Reschk              | PP23282,PP23517                                                                 |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |
| CCC                      | PP23484,PP23489,PP23494                                                         |
| Internal Standard/PEM    |                                                                                 |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |
| Surrogate Standard       |                                                                                 |
| MS/MSD Standard          |                                                                                 |
| LCS Standard             |                                                                                 |

| Sr# | SampleId      | ClientID      | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|---------------|---------------|----------------|-------------------|---------|----------|--------|
| 1   | HEXANE        | HEXANE        | PL091567.D     | 09 Sep 2024 10:14 |         | AR\AJ    | Ok     |
| 2   | I.BLK         | I.BLK         | PL091568.D     | 09 Sep 2024 14:50 |         | AR\AJ    | Ok     |
| 3   | PEM           | PEM           | PL091569.D     | 09 Sep 2024 15:03 |         | AR\AJ    | Ok,M   |
| 4   | RESCHK        | RESCHK        | PL091570.D     | 09 Sep 2024 15:17 |         | AR\AJ    | Ok,M   |
| 5   | PSTDICC100    | PSTDICC100    | PL091571.D     | 09 Sep 2024 15:31 |         | AR\AJ    | Ok     |
| 6   | PSTDICC075    | PSTDICC075    | PL091572.D     | 09 Sep 2024 15:44 |         | AR\AJ    | Ok,M   |
| 7   | PSTDICC050    | PSTDICC050    | PL091573.D     | 09 Sep 2024 15:58 |         | AR\AJ    | Ok     |
| 8   | PSTDICC025    | PSTDICC025    | PL091574.D     | 09 Sep 2024 16:11 |         | AR\AJ    | Ok,M   |
| 9   | PSTDICC005    | PSTDICC005    | PL091575.D     | 09 Sep 2024 16:25 |         | AR\AJ    | Ok,M   |
| 10  | PCHLORICC1000 | PCHLORICC1000 | PL091576.D     | 09 Sep 2024 16:39 |         | AR\AJ    | Ok     |
| 11  | PCHLORICC750  | PCHLORICC750  | PL091577.D     | 09 Sep 2024 16:52 |         | AR\AJ    | Ok     |
| 12  | PCHLORICC500  | PCHLORICC500  | PL091578.D     | 09 Sep 2024 17:06 |         | AR\AJ    | Ok     |
| 13  | PCHLORICC250  | PCHLORICC250  | PL091579.D     | 09 Sep 2024 17:19 |         | AR\AJ    | Ok     |
| 14  | PCHLORICC050  | PCHLORICC050  | PL091580.D     | 09 Sep 2024 17:33 |         | AR\AJ    | Ok,M   |
| 15  | PTOXICC1000   | PTOXICC1000   | PL091581.D     | 09 Sep 2024 17:47 |         | AR\AJ    | Ok     |
| 16  | PTOXICC750    | PTOXICC750    | PL091582.D     | 09 Sep 2024 18:01 |         | AR\AJ    | Ok,M   |
| 17  | PTOXICC500    | PTOXICC500    | PL091583.D     | 09 Sep 2024 18:14 |         | AR\AJ    | Ok,M   |
| 18  | PTOXICC250    | PTOXICC250    | PL091584.D     | 09 Sep 2024 18:28 |         | AR\AJ    | Ok     |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL090924**

| Review By                | Abdul                                                                           | Review On         | 9/11/2024 11:44:26 AM |
|--------------------------|---------------------------------------------------------------------------------|-------------------|-----------------------|
| Supervise By             | Ankita                                                                          | Supervise On      | 9/11/2024 1:52:24 PM  |
| SubDirectory             | PL090924                                                                        | HP Acquire Method | HP Processing Method  |
|                          |                                                                                 |                   | pl090924 8081         |
| STD. NAME                | STD REF.#                                                                       |                   |                       |
| Tune/Reschk              | PP23282,PP23517                                                                 |                   |                       |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |                   |                       |
| CCC                      | PP23484,PP23489,PP23494                                                         |                   |                       |
| Internal Standard/PEM    |                                                                                 |                   |                       |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |                   |                       |
| Surrogate Standard       |                                                                                 |                   |                       |
| MS/MSD Standard          |                                                                                 |                   |                       |
| LCS Standard             |                                                                                 |                   |                       |

|    |              |             |            |                   |                                                                                         |       |        |
|----|--------------|-------------|------------|-------------------|-----------------------------------------------------------------------------------------|-------|--------|
| 19 | PTOXICC100   | PTOXICC100  | PL091585.D | 09 Sep 2024 18:42 |                                                                                         | AR\AJ | Ok,M   |
| 20 | PSTDICV050   | ICVPL090924 | PL091586.D | 09 Sep 2024 18:56 |                                                                                         | AR\AJ | Ok,M   |
| 21 | PCHLORICV500 | ICVPL090924 | PL091587.D | 09 Sep 2024 19:10 |                                                                                         | AR\AJ | Ok     |
| 22 | PTOXICV500   | ICVPL090924 | PL091588.D | 09 Sep 2024 19:23 |                                                                                         | AR\AJ | Ok     |
| 23 | I.BLK        | I.BLK       | PL091589.D | 09 Sep 2024 19:37 | F flag coming in second column<br>tcmx, surrogate high in dcb and<br>tcmx in 1st column | AR\AJ | Not Ok |
| 24 | PEM          | PEM         | PL091590.D | 09 Sep 2024 19:51 |                                                                                         | AR\AJ | Ok,M   |
| 25 | PSTDCCC050   | PSTDCCC050  | PL091591.D | 09 Sep 2024 20:05 |                                                                                         | AR\AJ | Ok,M   |
| 26 | PB163178BS   | PB163178BS  | PL091592.D | 09 Sep 2024 20:18 |                                                                                         | AR\AJ | Not Ok |
| 27 | P3861-01     | DN-B-37     | PL091593.D | 09 Sep 2024 20:32 |                                                                                         | AR\AJ | Not Ok |
| 28 | PB163218BL   | PB163218BL  | PL091594.D | 09 Sep 2024 20:46 |                                                                                         | AR\AJ | Not Ok |
| 29 | PB163218BS   | PB163218BS  | PL091595.D | 09 Sep 2024 21:00 |                                                                                         | AR\AJ | Not Ok |
| 30 | P3888-01     | DN-B-36     | PL091596.D | 09 Sep 2024 21:13 | need 2x dilution                                                                        | AR\AJ | Not Ok |
| 31 | P3888-02     | DN-W-02     | PL091597.D | 09 Sep 2024 21:27 |                                                                                         | AR\AJ | Not Ok |
| 32 | P3888-02MS   | DN-W-02MS   | PL091598.D | 09 Sep 2024 21:41 |                                                                                         | AR\AJ | Not Ok |
| 33 | P3888-02MSD  | DN-W-02MSD  | PL091599.D | 09 Sep 2024 21:55 |                                                                                         | AR\AJ | Not Ok |
| 34 | P3892-02     | ARS20-005   | PL091600.D | 09 Sep 2024 22:08 | typo P3892-01                                                                           | AR\AJ | Not Ok |
| 35 | I.BLK        | I.BLK       | PL091601.D | 09 Sep 2024 22:22 | TCMX HIGH in both column                                                                | AR\AJ | Ok,M   |
| 36 | PSTDCCC050   | PSTDCCC050  | PL091602.D | 09 Sep 2024 22:36 |                                                                                         | AR\AJ | Ok,M   |

M : Manual Integration

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL091024**

|              |          |                   |                                    |
|--------------|----------|-------------------|------------------------------------|
| Review By    | Abdul    | Review On         | 9/11/2024 9:23:53 AM               |
| Supervise By | Ankita   | Supervise On      | 9/12/2024 11:58:50 AM              |
| SubDirectory | PL091024 | HP Acquire Method | HP Processing Method p1090924 8081 |

| STD. NAME                | STD REF.#                                                                       |
|--------------------------|---------------------------------------------------------------------------------|
| Tune/Reschk              | PP23282,PP23517                                                                 |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |
| CCC                      | PP23484,PP23489,PP23494                                                         |
| Internal Standard/PEM    |                                                                                 |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |
| Surrogate Standard       |                                                                                 |
| MS/MSD Standard          |                                                                                 |
| LCS Standard             |                                                                                 |

| Sr# | SampleId     | ClientID     | Data File Name | Date-Time         | Comment       | Operator | Status |
|-----|--------------|--------------|----------------|-------------------|---------------|----------|--------|
| 1   | HEXANE       | HEXANE       | PL091603.D     | 10 Sep 2024 10:43 |               | AR\AJ    | Ok     |
| 2   | I.BLK        | I.BLK        | PL091604.D     | 10 Sep 2024 10:57 |               | AR\AJ    | Ok     |
| 3   | PEM          | PEM          | PL091605.D     | 10 Sep 2024 11:10 |               | AR\AJ    | Ok,M   |
| 4   | PSTDCCC050   | PSTDCCC050   | PL091606.D     | 10 Sep 2024 11:24 |               | AR\AJ    | Ok,M   |
| 5   | PCHLORCCC500 | PCHLORCCC500 | PL091607.D     | 10 Sep 2024 11:56 |               | AR\AJ    | Ok,M   |
| 6   | PTOXCCC500   | PTOXCCC500   | PL091608.D     | 10 Sep 2024 12:12 |               | AR\AJ    | Ok,M   |
| 7   | PB163178BS   | PB163178BS   | PL091609.D     | 10 Sep 2024 12:26 |               | AR\AJ    | Ok,M   |
| 8   | PB163229BL   | PB163229BL   | PL091610.D     | 10 Sep 2024 12:40 |               | AR\AJ    | Ok     |
| 9   | PB163229BS   | PB163229BS   | PL091611.D     | 10 Sep 2024 12:57 |               | AR\AJ    | Ok,M   |
| 10  | PB163229BSD  | PB163229BSD  | PL091612.D     | 10 Sep 2024 13:11 | Recovery fail | AR\AJ    | Not Ok |
| 11  | P3845-09     | PT-PEST-WP   | PL091613.D     | 10 Sep 2024 13:25 | not used      | AR\AJ    | Not Ok |
| 12  | P3853-01     | 252805       | PL091614.D     | 10 Sep 2024 13:38 |               | AR\AJ    | Ok     |
| 13  | PB163230BL   | PB163230BL   | PL091615.D     | 10 Sep 2024 13:52 |               | AR\AJ    | Ok     |
| 14  | PB163230BS   | PB163230BS   | PL091616.D     | 10 Sep 2024 15:02 | Recovery fail | AR\AJ    | Not Ok |
| 15  | P3845-11     | PT-CHLR-WP   | PL091617.D     | 10 Sep 2024 15:16 | not used      | AR\AJ    | Not Ok |
| 16  | PB163231BL   | PB163231BL   | PL091618.D     | 10 Sep 2024 15:29 |               | AR\AJ    | Ok     |
| 17  | PB163231BS   | PB163231BS   | PL091619.D     | 10 Sep 2024 15:43 |               | AR\AJ    | Ok     |
| 18  | P3845-13     | PT-TXP-WP    | PL091620.D     | 10 Sep 2024 15:57 | not used      | AR\AJ    | Not Ok |



Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL091024**

| Review By                | Abdul                                                                           | Review On         | 9/11/2024 9:23:53 AM               |
|--------------------------|---------------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By             | Ankita                                                                          | Supervise On      | 9/12/2024 11:58:50 AM              |
| SubDirectory             | PL091024                                                                        | HP Acquire Method | HP Processing Method pl090924 8081 |
| STD. NAME                | STD REF.#                                                                       |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                 |                   |                                    |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |                   |                                    |
| CCC                      | PP23484,PP23489,PP23494                                                         |                   |                                    |
| Internal Standard/PEM    |                                                                                 |                   |                                    |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |                   |                                    |
| Surrogate Standard       |                                                                                 |                   |                                    |
| MS/MSD Standard          |                                                                                 |                   |                                    |
| LCS Standard             |                                                                                 |                   |                                    |

|    |              |              |            |                   |               |       |        |
|----|--------------|--------------|------------|-------------------|---------------|-------|--------|
| 19 | P3845-13DL   | PT-TXP-WPDL  | PL091621.D | 10 Sep 2024 16:23 | not used      | AR\AJ | Not Ok |
| 20 | P3845-13DL2  | PT-TXP-WPDL2 | PL091622.D | 10 Sep 2024 16:43 | Not required. | AR\AJ | Not Ok |
| 21 | I.BLK        | I.BLK        | PL091623.D | 10 Sep 2024 16:56 |               | AR\AJ | Ok     |
| 22 | PSTDCCC050   | PSTDCCC050   | PL091624.D | 10 Sep 2024 17:10 |               | AR\AJ | Ok,M   |
| 23 | PCHLORCCC500 | PCHLORCCC500 | PL091625.D | 10 Sep 2024 17:24 |               | AR\AJ | Ok,M   |
| 24 | PTOXCCC500   | PTOXCCC500   | PL091626.D | 10 Sep 2024 17:54 |               | AR\AJ | Ok,M   |

M : Manual Integration

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL091724**

|              |          |                   |                                    |
|--------------|----------|-------------------|------------------------------------|
| Review By    | Abdul    | Review On         | 9/18/2024 10:35:50 AM              |
| Supervise By | Ankita   | Supervise On      | 9/18/2024 11:58:49 AM              |
| SubDirectory | PL091724 | HP Acquire Method | HP Processing Method p1090924 8081 |

| STD. NAME                | STD REF.#                                                                       |
|--------------------------|---------------------------------------------------------------------------------|
| Tune/Reschk              | PP23282,PP23517                                                                 |
| Initial Calibration Stds | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |
| CCC                      | PP23484,PP23489,PP23494                                                         |
| Internal Standard/PEM    |                                                                                 |
| ICV/I.BLK                | PP23487,PP23497,PP23498                                                         |
| Surrogate Standard       |                                                                                 |
| MS/MSD Standard          |                                                                                 |
| LCS Standard             |                                                                                 |

| Sr# | SampleId     | ClientID       | Data File Name | Date-Time         | Comment                     | Operator | Status |
|-----|--------------|----------------|----------------|-------------------|-----------------------------|----------|--------|
| 1   | HEXANE       | HEXANE         | PL091776.D     | 17 Sep 2024 11:07 |                             | AR\AJ    | Ok     |
| 2   | I.BLK        | I.BLK          | PL091777.D     | 17 Sep 2024 11:20 |                             | AR\AJ    | Ok     |
| 3   | PEM          | PEM            | PL091778.D     | 17 Sep 2024 11:34 |                             | AR\AJ    | Ok,M   |
| 4   | PSTDCCC050   | PSTDCCC050     | PL091779.D     | 17 Sep 2024 11:47 |                             | AR\AJ    | Ok,M   |
| 5   | PCHLORCCC500 | PCHLORCCC500   | PL091780.D     | 17 Sep 2024 12:21 |                             | AR\AJ    | Ok,M   |
| 6   | PB163230BS   | PB163230BS     | PL091781.D     | 17 Sep 2024 12:40 |                             | AR\AJ    | Ok,M   |
| 7   | PB163453BL   | PB163453BL     | PL091782.D     | 17 Sep 2024 14:11 |                             | AR\AJ    | Ok     |
| 8   | PB163453BS   | PB163453BS     | PL091783.D     | 17 Sep 2024 14:24 | recovery fail               | AR\AJ    | Not Ok |
| 9   | I.BLK        | I.BLK          | PL091784.D     | 17 Sep 2024 14:50 |                             | AR\AJ    | Ok     |
| 10  | PSTDCCC050   | PSTDCCC050     | PL091785.D     | 17 Sep 2024 15:24 |                             | AR\AJ    | Ok,M   |
| 11  | PCHLORCCC500 | PCHLORCCC500   | PL091786.D     | 17 Sep 2024 15:37 |                             | AR\AJ    | Ok,M   |
| 12  | P4014-01     | OR-03-09162024 | PL091787.D     | 17 Sep 2024 15:51 |                             | AR\AJ    | Ok,M   |
| 13  | P4023-01     | TP-9           | PL091788.D     | 17 Sep 2024 16:05 |                             | AR\AJ    | Ok,M   |
| 14  | P4023-03     | CONCRETE-TP-9  | PL091789.D     | 17 Sep 2024 16:18 |                             | AR\AJ    | Ok,M   |
| 15  | P4027-01     | DN-B-49        | PL091790.D     | 17 Sep 2024 16:31 |                             | AR\AJ    | Ok,M   |
| 16  | P4027-01MS   | DN-B-49MS      | PL091791.D     | 17 Sep 2024 16:45 | Some compound recovery fail | AR\AJ    | Ok,M   |
| 17  | P4027-01MSD  | DN-B-49MSD     | PL091792.D     | 17 Sep 2024 16:58 | Some compound recovery fail | AR\AJ    | Ok,M   |
| 18  | I.BLK        | I.BLK          | PL091793.D     | 17 Sep 2024 17:12 |                             | AR\AJ    | Ok     |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL091724**

|                          |          |                                                                                 |                       |  |               |  |  |
|--------------------------|----------|---------------------------------------------------------------------------------|-----------------------|--|---------------|--|--|
| Review By                | Abdul    | Review On                                                                       | 9/18/2024 10:35:50 AM |  |               |  |  |
| Supervise By             | Ankita   | Supervise On                                                                    | 9/18/2024 11:58:49 AM |  |               |  |  |
| SubDirectory             | PL091724 | HP Acquire Method                                                               | HP Processing Method  |  | pl090924 8081 |  |  |
| STD. NAME                |          | STD REF.#                                                                       |                       |  |               |  |  |
| Tune/Reschk              |          | PP23282,PP23517                                                                 |                       |  |               |  |  |
| Initial Calibration Stds |          | PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,PP23481,PP23482 |                       |  |               |  |  |
| CCC                      |          | PP23484,PP23489,PP23494                                                         |                       |  |               |  |  |
| Internal Standard/PEM    |          |                                                                                 |                       |  |               |  |  |
| ICV/I.BLK                |          | PP23487,PP23497,PP23498                                                         |                       |  |               |  |  |
| Surrogate Standard       |          |                                                                                 |                       |  |               |  |  |
| MS/MSD Standard          |          |                                                                                 |                       |  |               |  |  |
| LCS Standard             |          |                                                                                 |                       |  |               |  |  |

|    |            |            |            |                   |  |       |      |
|----|------------|------------|------------|-------------------|--|-------|------|
| 19 | PSTDCCC050 | PSTDCCC050 | PL091794.D | 17 Sep 2024 17:25 |  | AR\AJ | Ok,M |
|----|------------|------------|------------|-------------------|--|-------|------|

M : Manual Integration

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092324**

|              |          |                   |                                    |
|--------------|----------|-------------------|------------------------------------|
| Review By    | Abdul    | Review On         | 9/24/2024 9:27:05 AM               |
| Supervise By | Ankita   | Supervise On      | 9/24/2024 11:07:44 AM              |
| SubDirectory | PL092324 | HP Acquire Method | HP Processing Method pl092324 8081 |

| STD. NAME                | STD REF.#                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------|
| Tune/Reschk              | PP23282,PP23517                                                                         |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC                      | PP23686,PP23690,PP23695                                                                 |
| Internal Standard/PEM    |                                                                                         |
| ICV/I.BLK                | PP23687,PP23693,PP23698                                                                 |
| Surrogate Standard       |                                                                                         |
| MS/MSD Standard          |                                                                                         |
| LCS Standard             |                                                                                         |

| Sr# | Sampleld      | ClientID      | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|---------------|---------------|----------------|-------------------|---------|----------|--------|
| 1   | HEXANE        | HEXANE        | PL091952.D     | 23 Sep 2024 10:38 |         | AR\AJ    | Ok     |
| 2   | I.BLK         | I.BLK         | PL091953.D     | 23 Sep 2024 10:52 |         | AR\AJ    | Ok     |
| 3   | PEM           | PEM           | PL091954.D     | 23 Sep 2024 11:05 |         | AR\AJ    | Ok,M   |
| 4   | RESCHK        | RESCHK        | PL091955.D     | 23 Sep 2024 11:19 |         | AR\AJ    | Ok     |
| 5   | PSTDICC100    | PSTDICC100    | PL091956.D     | 23 Sep 2024 11:32 |         | AR\AJ    | Ok     |
| 6   | PSTDICC075    | PSTDICC075    | PL091957.D     | 23 Sep 2024 11:45 |         | AR\AJ    | Ok     |
| 7   | PSTDICC050    | PSTDICC050    | PL091958.D     | 23 Sep 2024 11:59 |         | AR\AJ    | Ok     |
| 8   | PSTDICC025    | PSTDICC025    | PL091959.D     | 23 Sep 2024 12:12 |         | AR\AJ    | Ok,M   |
| 9   | PSTDICC005    | PSTDICC005    | PL091960.D     | 23 Sep 2024 12:26 |         | AR\AJ    | Ok,M   |
| 10  | PCHLORICC1000 | PCHLORICC1000 | PL091961.D     | 23 Sep 2024 12:39 |         | AR\AJ    | Ok     |
| 11  | PCHLORICC750  | PCHLORICC750  | PL091962.D     | 23 Sep 2024 12:52 |         | AR\AJ    | Ok     |
| 12  | PCHLORICC500  | PCHLORICC500  | PL091963.D     | 23 Sep 2024 13:06 |         | AR\AJ    | Ok     |
| 13  | PCHLORICC250  | PCHLORICC250  | PL091964.D     | 23 Sep 2024 13:19 |         | AR\AJ    | Ok     |
| 14  | PCHLORICC050  | PCHLORICC050  | PL091965.D     | 23 Sep 2024 13:33 |         | AR\AJ    | Ok     |
| 15  | PTOXICC1000   | PTOXICC1000   | PL091966.D     | 23 Sep 2024 13:46 |         | AR\AJ    | Ok     |
| 16  | PTOXICC750    | PTOXICC750    | PL091967.D     | 23 Sep 2024 13:59 |         | AR\AJ    | Ok     |
| 17  | PTOXICC500    | PTOXICC500    | PL091968.D     | 23 Sep 2024 14:13 |         | AR\AJ    | Ok     |
| 18  | PTOXICC250    | PTOXICC250    | PL091969.D     | 23 Sep 2024 14:26 |         | AR\AJ    | Ok     |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092324**

| Review By                | Abdul                                                                                   | Review On         | 9/24/2024 9:27:05 AM               |
|--------------------------|-----------------------------------------------------------------------------------------|-------------------|------------------------------------|
| Supervise By             | Ankita                                                                                  | Supervise On      | 9/24/2024 11:07:44 AM              |
| SubDirectory             | PL092324                                                                                | HP Acquire Method | HP Processing Method pl092324 8081 |
| STD. NAME                | STD REF.#                                                                               |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                         |                   |                                    |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |                   |                                    |
| CCC                      | PP23686,PP23690,PP23695                                                                 |                   |                                    |
| Internal Standard/PEM    |                                                                                         |                   |                                    |
| ICV/I.BLK                | PP23687,PP23693,PP23698                                                                 |                   |                                    |
| Surrogate Standard       |                                                                                         |                   |                                    |
| MS/MSD Standard          |                                                                                         |                   |                                    |
| LCS Standard             |                                                                                         |                   |                                    |

|    |              |                  |            |                   |                     |       |      |
|----|--------------|------------------|------------|-------------------|---------------------|-------|------|
| 19 | PTOXICC100   | PTOXICC100       | PL091970.D | 23 Sep 2024 14:40 |                     | AR\AJ | Ok,M |
| 20 | PSTDICV050   | ICVPL092324      | PL091971.D | 23 Sep 2024 14:53 |                     | AR\AJ | Ok   |
| 21 | PCHLORICV500 | ICVPL092324CHLOR | PL091972.D | 23 Sep 2024 15:20 |                     | AR\AJ | Ok   |
| 22 | PTOXICV500   | ICVPL092324TOX   | PL091973.D | 23 Sep 2024 15:47 |                     | AR\AJ | Ok   |
| 23 | I.BLK        | I.BLK            | PL091974.D | 23 Sep 2024 16:13 |                     | AR\AJ | Ok   |
| 24 | PEM          | PEM              | PL091975.D | 23 Sep 2024 16:27 |                     | AR\AJ | Ok,M |
| 25 | PSTDCCC050   | PSTDCCC050       | PL091976.D | 23 Sep 2024 16:40 |                     | AR\AJ | Ok,M |
| 26 | PB163572BL   | PB163572BL       | PL091977.D | 23 Sep 2024 16:54 |                     | AR\AJ | Ok   |
| 27 | PB163572BS   | PB163572BS       | PL091978.D | 23 Sep 2024 17:07 |                     | AR\AJ | Ok,M |
| 28 | P4103-02     | WC-22A           | PL091979.D | 23 Sep 2024 17:20 | TCMX low 1st column | AR\AJ | Ok,M |
| 29 | P4103-02MS   | WC-22AMS         | PL091980.D | 23 Sep 2024 17:34 | TCMX low 1st column | AR\AJ | Ok,M |
| 30 | P4103-02MSD  | WC-22AMSD        | PL091981.D | 23 Sep 2024 17:47 | TCMX low 1st column | AR\AJ | Ok,M |
| 31 | P4103-05     | WC-14-5-7.5A     | PL091982.D | 23 Sep 2024 18:01 |                     | AR\AJ | Ok   |
| 32 | P4103-08     | WC-14-5-7.5B     | PL091983.D | 23 Sep 2024 18:14 |                     | AR\AJ | Ok,M |
| 33 | P4103-11     | WC-14-7.5-10A    | PL091984.D | 23 Sep 2024 18:28 |                     | AR\AJ | Ok,M |
| 34 | P4103-14     | WC-14-7.5-10B    | PL091985.D | 23 Sep 2024 18:41 |                     | AR\AJ | Ok,M |
| 35 | P4103-17     | WC-23            | PL091986.D | 23 Sep 2024 18:55 |                     | AR\AJ | Ok,M |
| 36 | PB163511TB   | PB163511TB       | PL091987.D | 23 Sep 2024 19:08 |                     | AR\AJ | Ok,M |
| 37 | I.BLK        | I.BLK            | PL091988.D | 23 Sep 2024 19:21 |                     | AR\AJ | Ok,M |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092324**

|                          |          |                                                                                         |                       |  |               |  |  |
|--------------------------|----------|-----------------------------------------------------------------------------------------|-----------------------|--|---------------|--|--|
| Review By                | Abdul    | Review On                                                                               | 9/24/2024 9:27:05 AM  |  |               |  |  |
| Supervise By             | Ankita   | Supervise On                                                                            | 9/24/2024 11:07:44 AM |  |               |  |  |
| SubDirectory             | PL092324 | HP Acquire Method                                                                       | HP Processing Method  |  | pl092324 8081 |  |  |
| STD. NAME                |          | STD REF.#                                                                               |                       |  |               |  |  |
| Tune/Reschk              |          | PP23282,PP23517                                                                         |                       |  |               |  |  |
| Initial Calibration Stds |          | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |                       |  |               |  |  |
| CCC                      |          | PP23686,PP23690,PP23695                                                                 |                       |  |               |  |  |
| Internal Standard/PEM    |          |                                                                                         |                       |  |               |  |  |
| ICV/I.BLK                |          | PP23687,PP23693,PP23698                                                                 |                       |  |               |  |  |
| Surrogate Standard       |          |                                                                                         |                       |  |               |  |  |
| MS/MSD Standard          |          |                                                                                         |                       |  |               |  |  |
| LCS Standard             |          |                                                                                         |                       |  |               |  |  |

|    |            |            |            |                   |  |       |      |
|----|------------|------------|------------|-------------------|--|-------|------|
| 38 | PSTDCCC050 | PSTDCCC050 | PL091989.D | 23 Sep 2024 19:35 |  | AR\AJ | Ok,M |
|----|------------|------------|------------|-------------------|--|-------|------|

M : Manual Integration

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092424**

|              |          |                   |                                    |
|--------------|----------|-------------------|------------------------------------|
| Review By    | Abdul    | Review On         | 9/25/2024 10:49:05 AM              |
| Supervise By | Ankita   | Supervise On      | 9/25/2024 2:18:21 PM               |
| SubDirectory | PL092424 | HP Acquire Method | HP Processing Method p1092324 8081 |

| STD. NAME                | STD REF.#                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------|
| Tune/Reschk              | PP23282,PP23517                                                                         |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |
| CCC                      | PP23686,PP23690,PP23695                                                                 |
| Internal Standard/PEM    |                                                                                         |
| ICV/I.BLK                | PP23687,PP23693,PP23698                                                                 |
| Surrogate Standard       |                                                                                         |
| MS/MSD Standard          |                                                                                         |
| LCS Standard             |                                                                                         |

| Sr# | SampleID     | ClientID      | Data File Name | Date-Time         | Comment                                    | Operator | Status   |
|-----|--------------|---------------|----------------|-------------------|--------------------------------------------|----------|----------|
| 1   | HEXANE       | HEXANE        | PL091990.D     | 24 Sep 2024 09:15 |                                            | AR\AJ    | Ok       |
| 2   | I.BLK        | I.BLK         | PL091991.D     | 24 Sep 2024 09:28 |                                            | AR\AJ    | Ok       |
| 3   | PEM          | PEM           | PL091992.D     | 24 Sep 2024 09:41 |                                            | AR\AJ    | Ok,M     |
| 4   | PSTDCCC050   | PSTDCCC050    | PL091993.D     | 24 Sep 2024 09:55 |                                            | AR\AJ    | Ok,M     |
| 5   | PCHLORCCC500 | PCHLORCCC500  | PL091994.D     | 24 Sep 2024 12:02 |                                            | AR\AJ    | Ok,M     |
| 6   | PTOXCCC500   | PTOXCCC500    | PL091995.D     | 24 Sep 2024 12:16 |                                            | AR\AJ    | Ok       |
| 7   | P3845-09     | PT-PEST-WP    | PL091996.D     | 24 Sep 2024 12:35 | TCMX high in 1st column, Need dilution     | AR\AJ    | Dilution |
| 8   | P3845-11     | PT-CHLR-WP    | PL091997.D     | 24 Sep 2024 12:49 | TCMX high in 2nd column                    | AR\AJ    | Ok,M     |
| 9   | P3845-13     | PT-TXP-WP     | PL091998.D     | 24 Sep 2024 13:02 | Need Dilution                              | AR\AJ    | Dilution |
| 10  | P3845-09DL   | PT-PEST-WPDL  | PL091999.D     | 24 Sep 2024 13:19 | TCMX high in first column , need dilution. | AR\AJ    | Dilution |
| 11  | P3845-09DL2  | PT-PEST-WPDL2 | PL092000.D     | 24 Sep 2024 13:32 | TCMX high in first column                  | AR\AJ    | Ok,M     |
| 12  | P3845-13DL   | PT-TXP-WPDL   | PL092001.D     | 24 Sep 2024 13:54 |                                            | AR\AJ    | Ok,M     |
| 13  | I.BLK        | I.BLK         | PL092002.D     | 24 Sep 2024 14:08 |                                            | AR\AJ    | Ok       |
| 14  | PSTDCCC050   | PSTDCCC050    | PL092003.D     | 24 Sep 2024 14:21 |                                            | AR\AJ    | Ok,M     |
| 15  | PCHLORCCC500 | PCHLORCCC500  | PL092004.D     | 24 Sep 2024 14:35 |                                            | AR\AJ    | Ok       |
| 16  | PTOXCCC500   | PTOXCCC500    | PL092005.D     | 24 Sep 2024 14:48 |                                            | AR\AJ    | Ok       |
| 17  | PB163645BL   | PB163645BL    | PL092006.D     | 24 Sep 2024 15:01 |                                            | AR\AJ    | Ok       |

Instrument ID: ECD\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # PL092424**

|                          |                                                                                         |                   |                                    |
|--------------------------|-----------------------------------------------------------------------------------------|-------------------|------------------------------------|
| Review By                | Abdul                                                                                   | Review On         | 9/25/2024 10:49:05 AM              |
| Supervise By             | Ankita                                                                                  | Supervise On      | 9/25/2024 2:18:21 PM               |
| SubDirectory             | PL092424                                                                                | HP Acquire Method | HP Processing Method pl092324 8081 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                                                        |                   |                                    |
| Tune/Reschk              | PP23282,PP23517                                                                         |                   |                                    |
| Initial Calibration Stds | PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683 |                   |                                    |
| CCC                      | PP23686,PP23690,PP23695                                                                 |                   |                                    |
| Internal Standard/PEM    |                                                                                         |                   |                                    |
| ICV/I.BLK                | PP23687,PP23693,PP23698                                                                 |                   |                                    |
| Surrogate Standard       |                                                                                         |                   |                                    |
| MS/MSD Standard          |                                                                                         |                   |                                    |
| LCS Standard             |                                                                                         |                   |                                    |

|    |             |                |            |                      |                            |       |          |
|----|-------------|----------------|------------|----------------------|----------------------------|-------|----------|
| 18 | PB163645BS  | PB163645BS     | PL092007.D | 24 Sep 2024 15:32    | Some compound Recovry fail | AR\AJ | Not Ok   |
| 19 | P4149-13    | COMP-6         | PL092008.D | 24 Sep 2024 15:45    |                            | AR\AJ | Ok,M     |
| 20 | P4149-14    | COMP-7         | PL092009.D | 24 Sep 2024 15:59    | Need dilution              | AR\AJ | Dilution |
| 21 | P4149-15    | COMP-8         | PL092010.D | 24 Sep 2024 16:12    |                            | AR\AJ | Ok,M     |
| 22 | P4149-15MS  | COMP-8MS       | PL092011.D | 24 Sep 2024 16:26    |                            | AR\AJ | Ok,M     |
| 23 | P4149-15MSD | COMP-8MSD      | PL092012.D | 24 Sep 2024 16:39    |                            | AR\AJ | Ok,M     |
| 24 | PB163645BS  | PB163645BS     | PL092013.D | 24 Sep 2024 16:52    |                            | AR\AJ | Ok,M     |
| 25 | I.BLK       | I.BLK          | PL092014.D | 24 Sep 2024 17:06    |                            | AR\AJ | Ok       |
| 26 | PSTDCCC050  | PSTDCCC050     | PL092015.D | 24 Sep 2024 17:19    |                            | AR\AJ | Ok,M     |
| 27 | P4142-01    | OR-02-09202024 | PL092016.D | 24 Sep 2024 05:46 pm |                            | AR\AJ | Ok,M     |
| 28 | P4146-01    | CL-02-092024   | PL092017.D | 24 Sep 2024 18:00    |                            | AR\AJ | Ok,M     |
| 29 | P4148-01    | STOCK-PILE     | PL092018.D | 24 Sep 2024 18:13    |                            | AR\AJ | Ok,M     |
| 30 | P4150-01    | OK-02-09132024 | PL092019.D | 24 Sep 2024 18:27    |                            | AR\AJ | Ok       |
| 31 | I.BLK       | I.BLK          | PL092020.D | 24 Sep 2024 18:40    |                            | AR\AJ | Ok       |
| 32 | PSTDCCC050  | PSTDCCC050     | PL092021.D | 24 Sep 2024 19:20    |                            | AR\AJ | Ok,M     |

M : Manual Integration



SOP ID: M3510C,3580A-Extraction Pesticide-16

Clean Up SOP #: Florisil

Extraction Start Date : 09/09/2024

Matrix : Water

Extraction Start Time : 10:00

Weigh By: N/A

Extraction By: RS

Extraction End Date : 09/09/2024

Balance check: N/A

Filter By: RJ

Extraction End Time : 15:00

Balance ID: N/A

pH Meter ID: N/A

Concentration By: RS

pH Strp Lot#: E3574

Hood ID: 4,6,7

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 2.0ML    | 1000 PPB            | PP23504             |
| Surrogate     | 1.0ML    | 200 PPB             | PP23608             |
| 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            | E3790      |
| Baked Na2SO4       | N/A            | EP2532     |
| Hexane             | N/A            | E3789      |
| Florisil           | N/A            | E3713      |
| 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:

40ML Vial Lot # 03-40BTS721.

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 |
|-------------|-----------------------------------------|----------------------|
| 09/09/24    | RP (Ext 705)                            | Y.P. Peltier         |
| 15:05       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction Pesticide-16

Concentration Date: 09/09/2024

| Sample ID  | Client Sample ID | Test                | g / mL | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|------------|------------------|---------------------|--------|----|----------------|------------|--------------------|-------|----------|-------------|
|            |                  |                     |        |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB163230BL | PBLK230          | PESTICIDE<br>Group2 | 1000   | 6  | RUPESH         | ritesh     | 10                 |       |          | SEP-6       |
| PB163230BS | PLCS230          | PESTICIDE<br>Group2 | 1000   | 6  | RUPESH         | ritesh     | 10                 |       |          | 7           |
| P3845-11   | PT-CHLR-WP       | PESTICIDE<br>Group2 | 1000   | 6  | RUPESH         | ritesh     | 10                 |       |          | 8           |

\* Extracts relinquished on the same date as received.

8/9/24

Chie  
08/22/24  
10:16:20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p3845      WorkList ID : 183286      Department : Extraction      Date : 09-09-2024 10:03:18

| Sample   | Customer Sample | Matrix | Test             | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|----------|-----------------|--------|------------------|--------------|----------|-----------------------------|--------------|--------|
| P3845-09 | PT-PEST-WP      | Water  | PESTICIDE Group1 | Cool 4 deg C | CHEM02   | QA Of                       | 09/03/2024   | 8081B  |
| P3845-11 | PT-CHLR-WP      | Water  | PESTICIDE Group2 | Cool 4 deg C | CHEM02   | QA Of                       | 09/03/2024   | 8081B  |
| P3845-13 | PT-TXP-WP       | Water  | PESTICIDE Group3 | Cool 4 deg C | CHEM02   | QA Of                       | 09/03/2024   | 8081B  |
| P3853-01 | 252805          | Water  | Pesticide-TCL    | Cool 4 deg C | PSEG03   | H53                         | 09/05/2024   | 8081B  |

Date/Time 09/09/24 10:05  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

Date/Time 09/09/24 10:20  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

## Prep Standard - Chemical Standard Summary

**Order ID :** P3845

**Test :** PESTICIDE Group2

**Prepbatch ID :** PB163230,

**Sequence ID/Qc Batch ID:** pl091024,pl091724,PL092424,

**Standard ID :**

EP2532,PP23215,PP23282,PP23472,PP23473,PP23474,PP23475,PP23476,PP23477,PP23478,PP23479,PP23480,P  
P23481,PP23482,PP23484,PP23487,PP23489,PP23494,PP23497,PP23498,PP23504,PP23517,PP23608,PP23673,P  
P23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683,PP23686,PP23687,P  
P23690,PP23693,PP23695,PP23698,

**Chemical ID :**

E3551,E3713,E3735,E3762,E3763,E3770,E3772,E3789,E3790,E3792,P11065,P11145,P11146,P11815,P11895,P11896  
,P12599,P12810,P12812,P12814,P13035,P13036,P13039,P13244,P13349,P13358,P13359,P13402,P9051,

## Extractions STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-----------------------------------|
| 3923             | Baked Sodium Sulfate | <a href="#">EP2532</a> | 08/30/2024       | 01/03/2025             | Rajesh Parikh      | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | RUPESHKUMAR<br>SHAH<br>08/30/2024 |

**FROM** 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

| <u>Recipe ID</u> | <u>NAME</u>                     | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|---------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 84               | Pest/PCB Surrogate Stock 20 PPM | <a href="#">PP23215</a> | 04/22/2024       | 10/22/2024             | Ankita Jodhani     | None           | None             | Yogesh Patel<br>04/22/2024 |

**FROM** 1.00000ml of P12810 + 9.00000ml of E3735 = Final Quantity: 10.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 518              | Pest/PCB I.BLK 20 PPB | <a href="#">PP23282</a> | 04/22/2024       | 10/22/2024             | Ankita Jodhani     | None           | None             | Yogesh Patel         |
|                  |                       |                         |                  |                        |                    |                |                  | 04/22/2024           |

**FROM** 99.90000ml of E3735 + 0.10000ml of PP23215 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                     | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 84               | Pest/PCB Surrogate Stock 20 PPM | <a href="#">PP23472</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                 |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 1.00000ml of P12812 + 9.00000ml of E3762 = Final Quantity: 10.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                                   | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3629             | 20 PPM PEST stock Solution 1st source(RESTEK) | <a href="#">PP23473</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                               |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 1.00000ml of P11065 + 9.00000ml of E3762 = Final Quantity: 10.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                           | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1472             | 20 PPM Pest Stock Solution 2nd Source | <a href="#">PP23474</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                       |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 1.00000ml of P13035 + 9.00000ml of E3762 = Final Quantity: 10.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                         | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1273             | 20 PPM Mirex Stock (Primary Source) | <a href="#">PP23475</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                     |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 0.20000ml of P9051 + 9.80000ml of E3762 = Final Quantity: 10.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                               | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3663             | 20 PPM MIREX Stock STD (Secondary source) | <a href="#">PP23476</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                           |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 0.20000ml of P11145 + 9.80000ml of E3762 = Final Quantity: 10.000 ml





| <u>Recipe ID</u> | <u>NAME</u>                                     | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|-------------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 3630             | 100/100 PPB PEST Working std.1st Source(RESTEK) | <a href="#">PP23477</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani<br>06/21/2024 |

|             |                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>FROM</b> | 98.50000ml of E3762 + 0.50000ml of PP23472 + 0.50000ml of PP23473 + 0.50000ml of PP23475 = Final Quantity: 100.000 ml |
|-------------|-----------------------------------------------------------------------------------------------------------------------|

| <u>Recipe ID</u> | <u>NAME</u>                                       | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------|---------------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 80               | 100/100 PPB Pesticide Working Solution 2nd Source | <a href="#">PP23478</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani<br>06/21/2024 |

|                    |                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b><u>FROM</u></b> | 98.50000ml of E3762 + 0.50000ml of PP23472 + 0.50000ml of PP23474 + 0.50000ml of PP23476 = Final Quantity: 100.000 ml |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                         | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 386              | 1000/100 PPB Chlordane STD (Restek) | <a href="#">PP23479</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                     |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 0.10000ml of P11895 + 99.40000ml of E3762 + 0.50000ml of PP23472 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                  | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3746             | 1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE | <a href="#">PP23480</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                              |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 0.10000ml of P12599 + 99.40000ml of E3762 + 0.50000ml of PP23472 = Final Quantity: 100.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                         | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 383              | 1000/100 PPB Toxaphene STD (Restek) | <a href="#">PP23481</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                     |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 0.10000ml of P11815 + 99.40000ml of E3762 + 0.50000ml of PP23472 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                    | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3669             | 1000/100 PPB TOXAPHENE STD 2nd source (RESTEK) | <a href="#">PP23482</a> | 06/20/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                                |                         |                  |                        |                    |                |                  | 06/21/2024           |

**FROM** 0.10000ml of P13358 + 99.40000ml of E3762 + 0.50000ml of PP23472 = Final Quantity: 100.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                  | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3632             | 50 PPB ICAL PEST STD(RESTEK) | <a href="#">PP23484</a> | 06/24/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                              |                         |                  |                        |                    |                |                  | 06/24/2024           |

**FROM** 0.50000ml of E3762 + 0.50000ml of PP23477 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                 | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3988             | 50 PPB PEST ICV STD(RESTEK) | <a href="#">PP23487</a> | 06/24/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                             |                         |                  |                        |                    |                |                  | 06/24/2024           |

**FROM** 0.50000ml of E3762 + 0.50000ml of PP23478 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>       | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 529              | CHLOR 500 PPB STD | <a href="#">PP23489</a> | 06/24/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                   |                         |                  |                        |                    |                |                  | 06/24/2024           |

**FROM** 0.50000ml of E3762 + 0.50000ml of PP23479 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>     | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 534              | TOX 500 PPB STD | <a href="#">PP23494</a> | 06/24/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                 |                         |                  |                        |                    |                |                  | 06/24/2024           |

**FROM** 0.50000ml of E3762 + 0.50000ml of PP23481 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 532              | CHLOR 500 PPB ICV STD | <a href="#">PP23497</a> | 06/24/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                       |                         |                  |                        |                    |                |                  | 06/24/2024           |

**FROM** 0.50000ml of E3762 + 0.50000ml of PP23480 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                   | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3670             | TOX 500 PPB ICV std ( RESTEK) | <a href="#">PP23498</a> | 06/24/2024       | 12/18/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                               |                         |                  |                        |                    |                |                  | 06/24/2024           |

**FROM** 0.50000ml of E3762 + 0.50000ml of PP23482 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                       | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1501             | 1000 ppb CHLORDANE SPIKE (RESTEK) | <a href="#">PP23504</a> | 07/01/2024       | 12/20/2024             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                   |                         |                  |                        |                    |                |                  | 07/02/2024           |

**FROM** 0.10000ml of P12599 + 99.90000ml of E3763 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                             | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 4027             | Pesticide resolution Check Mixture 8081 | <a href="#">PP23517</a> | 07/12/2024       | 01/12/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                         |                         |                  |                        |                    |                |                  | 07/16/2024           |

**FROM** 1.00000ml of E3770 + 99.00000ml of P13244 = Final Quantity: 100.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                      | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 465              | 200 PPB Pest/PCB Surrogate Spike | <a href="#">PP23608</a> | 08/08/2024       | 02/01/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                  |                         |                  |                        |                    |                |                  | 08/08/2024           |

**FROM** 1.00000ml of P12814 + 999.00000ml of E3772 = Final Quantity: 1000.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                     | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 84               | Pest/PCB Surrogate Stock 20 PPM | <a href="#">PP23673</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                 |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 1.00000ml of P13349 + 9.00000ml of E3792 = Final Quantity: 10.000 ml



## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                                   | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3629             | 20 PPM PEST stock Solution 1st source(RESTEK) | <a href="#">PP23674</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                               |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 1.00000ml of P13036 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                           | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 1472             | 20 PPM Pest Stock Solution 2nd Source | <a href="#">PP23675</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                       |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 1.00000ml of P13039 + 9.00000ml of E3792 = Final Quantity: 10.000 ml



| <u>Recipe ID</u>                                                                        | <u>NAME</u>                         | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|-----------------------------------------------------------------------------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 1273                                                                                    | 20 PPM Mirex Stock (Primary Source) | <a href="#">PP23676</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani<br>10/01/2024 |
| <b><u>FROM</u></b> 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 ml |                                     |                         |                  |                        |                    |                |                  |                              |

| <u>Recipe ID</u>                                                                        | <u>NAME</u>                                  | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|-----------------------------------------------------------------------------------------|----------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 3663                                                                                    | 20 PPM MIREX Stock STD<br>(Secondary source) | <a href="#">PP23677</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani<br>10/01/2024 |
| <b><u>FROM</u></b> 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 ml |                                              |                         |                  |                        |                    |                |                  |                              |

[illegible]

| <u>Recipe ID</u>                                                                                                                         | <u>NAME</u>                                       | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>         |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|------------------------------|
| 80                                                                                                                                       | 100/100 PPB Pesticide Working Solution 2nd Source | <a href="#">PP23679</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani<br>10/01/2024 |
| <b><u>FROM</u></b> 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23675 + 0.50000ml of PP23677 = Final Quantity: 100.000 ml |                                                   |                         |                  |                        |                    |                |                  |                              |

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                         | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 386              | 1000/100 PPB Chlordane STD (Restek) | <a href="#">PP23680</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                     |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                  | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3746             | 1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE | <a href="#">PP23681</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                              |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                         | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 383              | 1000/100 PPB Toxaphene STD (Restek) | <a href="#">PP23682</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                     |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.10000ml of P13359 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                    | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3669             | 1000/100 PPB TOXAPHENE STD 2nd source (RESTEK) | <a href="#">PP23683</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                                                |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.10000ml of P13402 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                  | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3632             | 50 PPB ICAL PEST STD(RESTEK) | <a href="#">PP23686</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                              |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23678 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                 | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3988             | 50 PPB PEST ICV STD(RESTEK) | <a href="#">PP23687</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                             |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23679 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>       | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 529              | CHLOR 500 PPB STD | <a href="#">PP23690</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                   |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23680 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 532              | CHLOR 500 PPB ICV STD | <a href="#">PP23693</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                       |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23681 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>     | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 534              | TOX 500 PPB STD | <a href="#">PP23695</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                 |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23682 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                   | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3670             | TOX 500 PPB ICV std ( RESTEK) | <a href="#">PP23698</a> | 09/21/2024       | 03/11/2025             | Abdul Mirza        | None           | None             | Ankita Jodhani       |
|                  |                               |                         |                  |                        |                    |                |                  | 10/01/2024           |

**FROM** 0.50000ml of E3792 + 0.50000ml of PP23683 = Final Quantity: 1.000 ml



## 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 | 01/03/2025      | 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 # |
|------------|-------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| phenomenex | FS0006 / Cleanert SPE Silica, 1000 mg/6ml, 30PK | M06485 | 10/08/2024      | 04/08/2024 / Rajesh     | 03/08/2024 / Rajesh         | E3713          |

| 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) | 24C1862008 | 10/22/2024      | 04/22/2024 / Rajesh     | 04/19/2024 / Rajesh         | E3735          |

| 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) | 24C1862008 | 12/18/2024      | 06/18/2024 / Rajesh     | 06/17/2024 / Rajesh         | E3762          |

| 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 | 12/25/2024      | 06/25/2024 / Rajesh     | 06/20/2024 / Rajesh         | E3763          |

| 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) | 24C1862008 | 04/15/2025      | 07/12/2024 / Rajesh     | 07/02/2024 / Rajesh         | E3770          |

## CHEMICAL RECEIPT LOG BOOK

| 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) | 22L2862006 | 02/01/2025      | 08/01/2024 / Rajesh     | 07/19/2024 / Rajesh         | E3772          |

| 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) | 24C1862008 | 02/13/2025      | 08/13/2024 / Rajesh     | 08/13/2024 / Rajesh         | E3789          |

| 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) | 24G0862022 | 02/26/2025      | 08/26/2024 / Rajesh     | 08/07/2024 / Rajesh         | E3790          |

| 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) | 24C1862008 | 03/11/2025      | 09/12/2024 / Rajesh     | 09/11/2024 / Rajesh         | E3792          |

| Supplier | ItemCode / ItemName                                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul | A0168439 | 12/20/2024      | 06/20/2024 / Abdul      | 09/29/2021 / Abdul          | P11065         |

| Supplier                 | ItemCode / ItemName       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 79136 / Mirex, 1000 ug/ml | 102821 | 12/20/2024      | 06/20/2024 / Abdul      | 10/29/2021 / Abdul          | P11145         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 79136 / Mirex, 1000 ug/ml | 102821 | 03/21/2025      | 09/21/2024 / Abdul      | 10/29/2021 / Abdul          | P11146         |

| Supplier | ItemCode / ItemName        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32005 / Toxaphene Standard | A0177326 | 12/20/2024      | 06/20/2024 / Abdul      | 06/17/2022 / Ankita         | P11815         |

| Supplier | ItemCode / ItemName    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32021 / Chlordane Std. | A0181737 | 12/20/2024      | 06/20/2024 / Abdul      | 06/17/2022 / Abdul          | P11895         |

| Supplier | ItemCode / ItemName    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32021 / Chlordane Std. | A0181737 | 03/21/2025      | 09/21/2024 / Abdul      | 06/17/2022 / Abdul          | P11896         |

| Supplier | ItemCode / ItemName    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32021 / Chlordane Std. | A0193299 | 12/20/2024      | 06/20/2024 / Abdul      | 07/03/2023 / Abdul          | P12599         |

| 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 | A0200112 | 10/22/2024      | 04/22/2024 / Ankita     | 09/25/2023 / Abdul          | P12810         |

## 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 | A0200112 | 12/20/2024      | 06/20/2024 / Abdul      | 09/25/2023 / Abdul          | P12812         |

| 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 | A0200112 | 02/08/2025      | 08/08/2024 / Abdul      | 09/25/2023 / Abdul          | P12814         |

| Supplier | ItemCode / ItemName                                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul | A0200423 | 12/20/2024      | 06/20/2024 / Abdul      | 12/26/2023 / Abdul          | P13035         |

| Supplier | ItemCode / ItemName                                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul | A0200423 | 03/21/2025      | 09/21/2024 / Abdul      | 12/26/2023 / Abdul          | P13036         |

| Supplier | ItemCode / ItemName                                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul | A0199099 | 03/21/2025      | 09/21/2024 / Abdul      | 12/26/2023 / Abdul          | P13039         |

| Supplier                 | ItemCode / ItemName                             | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 19161 / 8081 pesticide resolution check mixture | 013124 | 01/12/2025      | 07/12/2024 / Abdul      | 02/09/2024 / Abdul          | P13244         |

## 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 | A0206810 | 03/21/2025      | 09/21/2024 / Abdul      | 04/22/2024 / Abdul          | P13349         |

| Supplier | ItemCode / ItemName        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32005 / Toxaphene Standard | A0203830 | 12/20/2024      | 06/20/2024 / Abdul      | 05/03/2024 / Abdul          | P13358         |

| Supplier | ItemCode / ItemName        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32005 / Toxaphene Standard | A0203830 | 03/21/2025      | 09/21/2024 / Abdul      | 05/03/2024 / Abdul          | P13359         |

| Supplier | ItemCode / ItemName        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 32005 / Toxaphene Standard | A0203038 | 03/21/2025      | 09/21/2024 / Abdul      | 05/15/2024 / Abdul          | P13402         |

| Supplier                 | ItemCode / ItemName       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 79136 / Mirex, 1000 ug/ml | 112018 | 12/20/2024      | 06/20/2024 / Abdul      | 11/01/2019 / Stephen        | P9051          |



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

### Certificate of Analysis chromatographic plus



#### 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. :** 32021 **Lot No.:** A0193299

**Description :** Chlordane Standard  
Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2029 **Storage:** 10°C or colder  
**Ship:** Ambient

P12596  
↓  
P12602  
⑦  
Kauf  
7/3/2023

#### CERTIFIED VALUES

| Elution Order | Compound                                                              | CAS #   | Lot #  | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------------------------------------------------------------------|---------|--------|--------|-----------------------------|----------------------------------------|
| 1             | Chlordane<br>10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers | 57-74-9 | 978545 | ---%   | 1,010.0 µg/mL               | +/- 56.0475                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%

#### Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.

## Quality Confirmation Test

**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:**

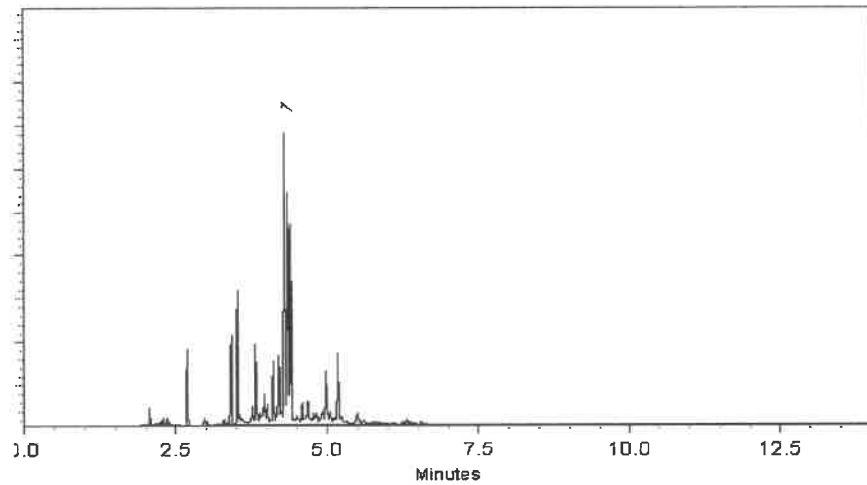
ECD

**Split Vent:**

300 ml/min.

**Inj. Vol**

0.2µl



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.

  
Bryan Snyder - Operations Tech I

Date Mixed: 06-Jan-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 09-Jan-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### 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.:** A0200112

**Description :** Pesticide Surrogate Mix  
Pesticide Surrogate Mix 200 µg/mL; Acetone, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** October 31, 2029 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

P 12806  
P 12815  
10  
W. R. AUF  
9/25/2023

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8  | RP220407 | 99%    | 201.3 µg/mL                 | +/- 11.1676                            |
| 2             | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30679    | 99%    | 201.5 µg/mL                 | +/- 11.1787                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone  
**CAS #** 67-64-1  
**Purity** 99%

### Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.



## Quality Confirmation Test

**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:**

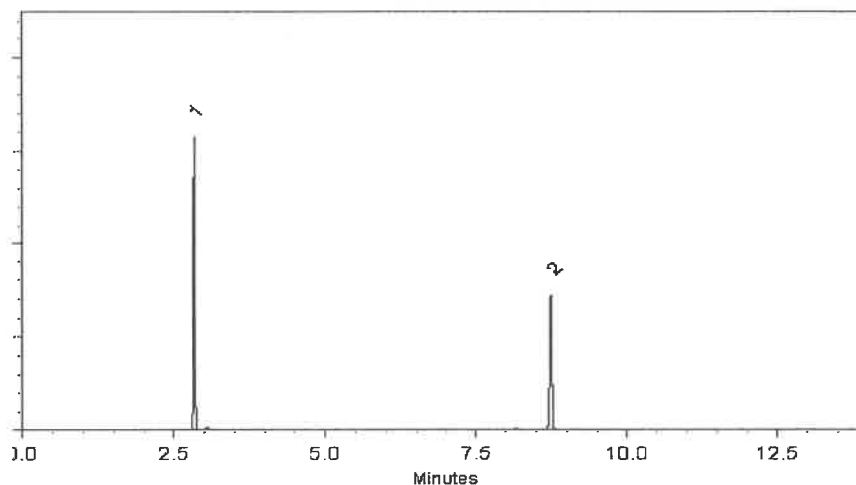
ECD

**Split Vent:**

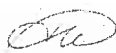
10 ml/min.

**Inj. Vol**

1µl



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.

  
Jess Hoy - Operations Tech I

Date Mixed: 20-Jul-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jul-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P12806 } (10)  
↓  
P12815  
1  
W. Stuef  
9/25/2023



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### 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.:** A0200112

**Description :** Pesticide Surrogate Mix  
Pesticide Surrogate Mix 200 µg/mL; Acetone, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** October 31, 2029 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

P 12806  
P 12815  
10  
W. R. AUF  
9/25/2023

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8  | RP220407 | 99%    | 201.3 µg/mL                 | +/- 11.1676                            |
| 2             | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30679    | 99%    | 201.5 µg/mL                 | +/- 11.1787                            |

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**CAS #** 67-64-1  
**Purity** 99%

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30m x .25mm x .2um  
Rtx-CLP II (cat.# 11323)

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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:**

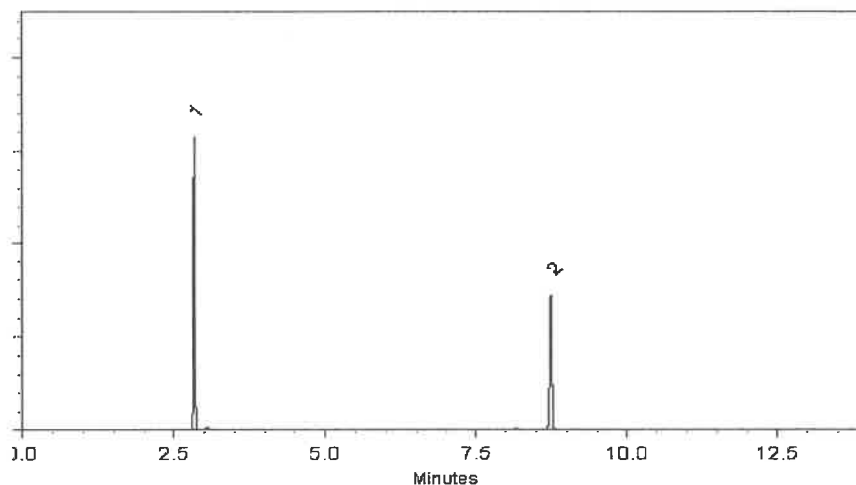
ECD

**Split Vent:**

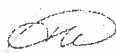
10 ml/min.

**Inj. Vol**

1µl



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Jess Hoy - Operations Tech I

Date Mixed: 20-Jul-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jul-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P12806 } (10)  
↓  
P12815  
1  
W. Stuef  
9/25/2023



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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P 12806  
P 12815 / 10  
W. R. AUF  
9/25/2023

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
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200°C to 300°C  
@ 25°C/min. (hold 10 min.)

**Inj. Temp:**

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**Det. Temp:**

300°C

**Det. Type:**

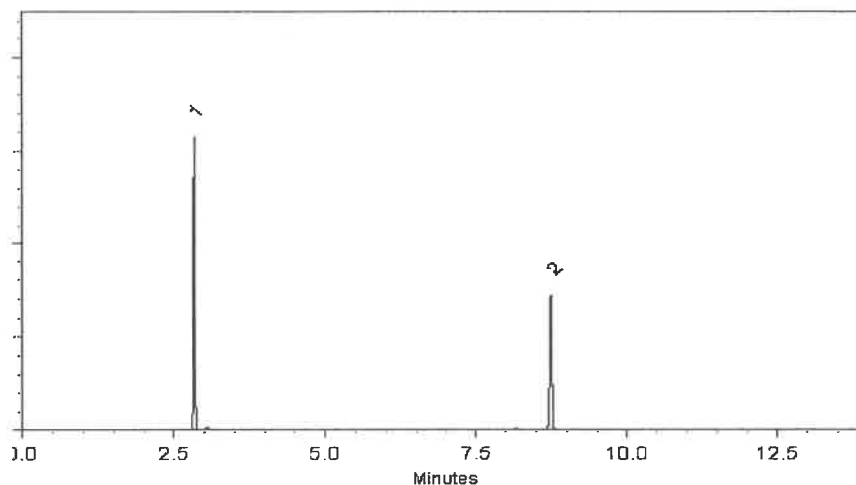
ECD

**Split Vent:**

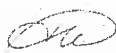
10 ml/min.

**Inj. Vol**

1µl



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.

  
Jess Hoy - Operations Tech I

Date Mixed: 20-Jul-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jul-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P12806 } (10)  
↓  
P12815  
1  
W. Stuef  
9/25/2023



**PRODUCTOS  
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MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
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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 <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER : | 6399                              | RELEASE DATE: | ABR/21/2023                     |
| LOT NUMBER :           | 313201                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | 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 <sub>4</sub> )             | 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 foreign 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.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Hexanes (95% n-hexane)  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis



Material No.: 9262-03  
Batch No.: 24C1862008  
Manufactured Date: 2024-01-30  
Expiration Date: 2025-04-30  
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           | 1           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)     | ≥ 99.5 %      | 99.7 %      |
| Assay (as n-Hexane) (by GC, corrected for water)                                | ≥ 95 %        | 98 %        |
| Color (APHA)                                                                    | ≤ 10          | 5           |
| Residue after Evaporation                                                       | ≤ 1.0 ppm     | 0.4 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                           | 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 4/19/24

E3735

Jamie Croak  
Director Quality Operations, Bioscience Production

Hexanes (95% n-hexane)  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

Avantor™



Material No.: 9262-03  
Batch No.: 24C1862008  
Manufactured Date: 2024-01-30  
Expiration Date: 2025-04-30  
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           | 1           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)     | ≥ 99.5 %      | 99.7 %      |
| Assay (as n-Hexane) (by GC, corrected for water)                                | ≥ 95 %        | 98 %        |
| Color (APHA)                                                                    | ≤ 10          | 5           |
| Residue after Evaporation                                                       | ≤ 1.0 ppm     | 0.4 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                           | 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 6/11/24

E 3762

Jamie Croak  
Director Quality Operations, Bioscience Production



Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

 **avantor™**



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 <sub>3</sub> ) <sub>2</sub> CO) (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 |
| Titration Acid (μeq/g)                                                  | ≤ 0.3         | 0.1         |
| Titration Base (μeq/g)                                                  | ≤ 0.6         | < 0.1       |
| Water (H <sub>2</sub> O)                                                | ≤ 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           |

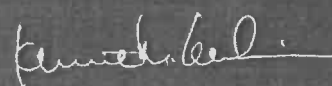
For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3763

Recd. by RP on 6/20/24



Ken Koehnlein  
Sr. Manager, Quality Assurance

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



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 <sub>3</sub> ) <sub>2</sub> CO) (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 |
| Titration Acid (µeq/g)                                                  | ≤ 0.3         | 0.1         |
| Titration Base (µeq/g)                                                  | ≤ 0.6         | < 0.1       |
| Water (H <sub>2</sub> O)                                                | ≤ 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 7/21/24

E 3769

Ken Koehnlein  
Sr. Manager, Quality Assurance

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis



Material No.: 9254-03  
Batch No.: 22L2862006  
Manufactured Date: 2022-12-19  
Expiration Date: 2025-12-18  
Revision No.: 0

## Certificate of Analysis

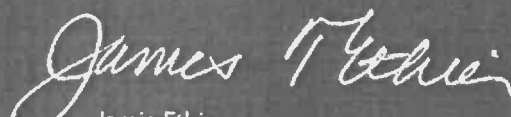
| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | ≥ 99.4 %      | 99.7 %      |
| Color (APHA)                                                            | ≤ 10          | 5           |
| Residue after Evaporation                                               | ≤ 1.0 ppm     | 0.2 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (μeq/g)                                                  | ≤ 0.3         | 0.1         |
| Titration Base (μeq/g)                                                  | ≤ 0.6         | < 0.1       |
| Water (H <sub>2</sub> O)                                                | ≤ 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          | 4           |

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 7/19/24

E3772

  
Jamie Ethier  
Vice President Global Quality

Material No.: 926  
Batch No.: 24C186  
Manufactured Date: 2024-0  
Expiration Date: 2025-0  
Revision N

## 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           | 1           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)     | ≥ 99.5 %      | 99.7 %      |
| Assay (as n-Hexane) (by GC, corrected for water)                                | ≥ 95 %        | 98 %        |
| Color (APHA)                                                                    | ≤ 10          | 5           |
| Residue after Evaporation                                                       | ≤ 1.0 ppm     | 0.4 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                           | 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 8/13/24

E 3789



Jamie Croak  
Director Quality Operations, Bioscience Products

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

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 24G0862022  
Manufactured Date: 2024-06-05  
Expiration Date: 2025-09-04  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                             | Specification  | Result   |
|--------------------------------------------------------------------------------------------------|----------------|----------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                             | $\leq 5$       | 3        |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                             | $\leq 10$      | 4        |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$ | 100.0 %  |
| Color (APHA)                                                                                     | $\leq 10$      | 5        |
| Residue after Evaporation                                                                        | $\leq 1.0$ ppm | 0.3 ppm  |
| Titration Acid ( $\mu$ eq/g)                                                                     | $\leq 0.3$     | < 0.1    |
| Chloride (Cl)                                                                                    | $\leq 10$ ppm  | < 5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$ | < 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: MG24F05012

E 3790

Jamie Croak  
Director Quality Operations, Bioscience Production

Hexanes (95% n-hexane)  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

Avantor™



Material No.: 9262-03  
Batch No.: 24C1862008  
Manufactured Date: 2024-01-30  
Expiration Date: 2025-04-30  
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           | 1           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)     | ≥ 99.5 %      | 99.7 %      |
| Assay (as n-Hexane) (by GC, corrected for water)                                | ≥ 95 %        | 98 %        |
| Color (APHA)                                                                    | ≤ 10          | 5           |
| Residue after Evaporation                                                       | ≤ 1.0 ppm     | 0.4 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                           | 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 09/11/24

E 3192

Jamie Croak  
Director Quality Operations, Bioscience Production



CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# Certificate of Analysis



## 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. : 32021 Lot No.: A0181737  
Description : Chlordane Standard  
Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : May 31, 2028 Storage: 10°C or colder  
Ship: Ambient

## CERTIFIED VALUES

| Elution Order | Compound                                                | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                       |
|---------------|---------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------|
| 1             | Chlordane<br>CAS # 57-74-9 (Lot 978545)<br>Purity ----% | 1,006.0 µg/mL               | +/- 5.9753 µg/mL Gravimetric<br>+/- 31.8975 µg/mL Unstressed<br>+/- 41.6615 µg/mL Stressed |

Solvent: Hexane  
CAS # 110-54-3  
Purity 99%

### Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.

P 11892  
↓  
P 11896  
5

06/17/2022

**Column:**  
30m x .25mm x .2um  
Rtx-CLP II (cat.# 11323)

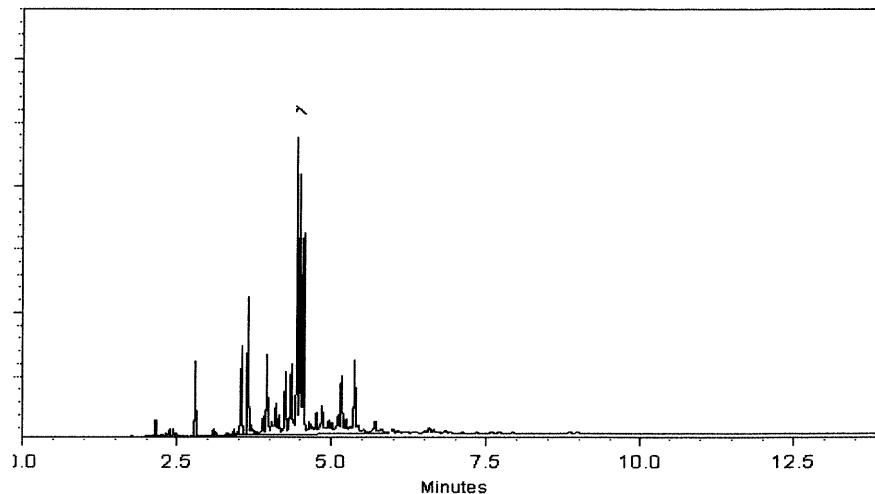
**Carrier Gas:**  
helium-constant pressure 20 psi.

**Temp. Program:**  
200°C to 300°C  
@ 25°C/min. ( hold 10 min.)

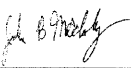
**Inj. Temp:**  
250°C

**Det. Temp:**  
300°C

**Det. Type:**  
ECD

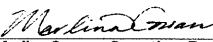


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Josh McCloskey - Operations Technician I

**Date Mixed:** 11-Feb-2022

**Balance:** B442140311

  
Marlene Cowan - Operations Tech I

**Date Passed:** 24-Feb-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P 11892 / (5)  
↓  
P 11896 / 1

  
06/17/2022





# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### 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. : 32021 Lot No.: A0181737  
Description : Chlordane Standard  
Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul  
Container Size : 2 mL Pkg Amt: > 1 mL  
Expiration Date : May 31, 2028 Storage: 10°C or colder  
Ship: Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                       |
|---------------|---------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------|
| 1             | Chlordane<br>CAS # 57-74-9 (Lot 978545)<br>Purity ----% | 1,006.0 µg/mL               | +/- 5.9753 µg/mL Gravimetric<br>+/- 31.8975 µg/mL Unstressed<br>+/- 41.6615 µg/mL Stressed |

Solvent: Hexane  
CAS # 110-54-3  
Purity 99%

#### Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.

P 11892  
↓  
P 11896  
5

06/17/2022

**Column:**  
30m x .25mm x .2um  
Rtx-CLP II (cat.# 11323)

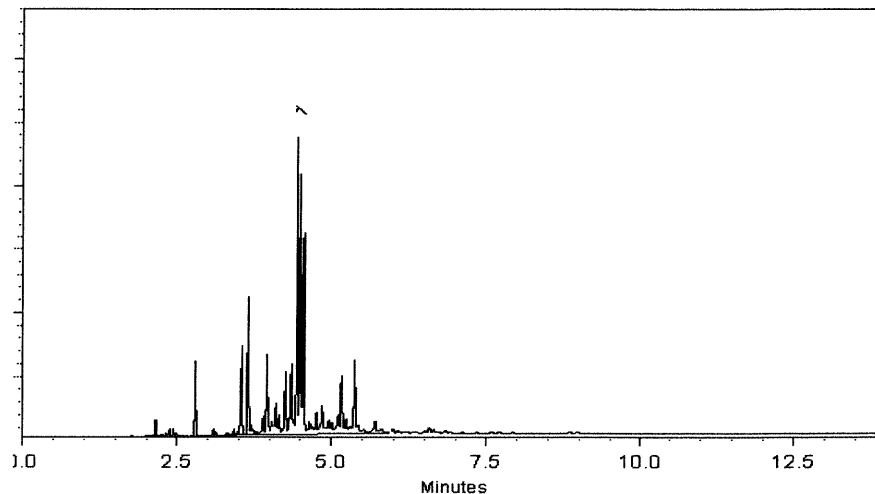
**Carrier Gas:**  
helium-constant pressure 20 psi.

**Temp. Program:**  
200°C to 300°C  
@ 25°C/min. ( hold 10 min.)

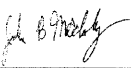
**Inj. Temp:**  
250°C

**Det. Temp:**  
300°C

**Det. Type:**  
ECD

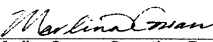


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Josh McCloskey - Operations Technician I

**Date Mixed:** 11-Feb-2022

**Balance:** B442140311

  
Marlene Cowan - Operations Tech I

**Date Passed:** 24-Feb-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P 11892 / (5)  
↓  
P 11896 / 1

  
06/17/2022



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### 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. : 32291

Lot No.: A0199099

Description : Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : June 30, 2027

Storage: 10°C or colder

Ship: Ambient

P130397 5  
↓  
P13043 1  
✓  
12.26.2023

### CERTIFIED VALUES

| Elution Order | Compound                      | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | alpha-BHC                     | 319-84-6   | 14434500   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 2             | gamma-BHC (Lindane)           | 58-89-9    | 14184400   | 98%    | 200.1 µg/mL                 | +/- 8.9762                             |
| 3             | beta-BHC                      | 319-85-7   | BCCC6425   | 99%    | 200.3 µg/mL                 | +/- 8.9844                             |
| 4             | delta-BHC                     | 319-86-8   | 14450800   | 98%    | 200.0 µg/mL                 | +/- 8.9740                             |
| 5             | Heptachlor                    | 76-44-8    | 813251     | 99%    | 200.1 µg/mL                 | +/- 8.9754                             |
| 6             | Aldrin                        | 309-00-2   | 14389400   | 98%    | 200.0 µg/mL                 | +/- 8.9718                             |
| 7             | Heptachlor epoxide (isomer B) | 1024-57-3  | 14448800   | 99%    | 200.1 µg/mL                 | +/- 8.9754                             |
| 8             | trans-Chlordane               | 5103-74-2  | 32943      | 98%    | 199.9 µg/mL                 | +/- 8.9696                             |
| 9             | cis-Chlordane                 | 5103-71-9  | 31766      | 98%    | 200.1 µg/mL                 | +/- 8.9762                             |
| 10            | Endosulfan I                  | 959-98-8   | BCCF4060   | 99%    | 200.1 µg/mL                 | +/- 8.9754                             |
| 11            | 4,4'-DDE                      | 72-55-9    | GHYQG      | 99%    | 200.1 µg/mL                 | +/- 8.9777                             |
| 12            | Dieldrin                      | 60-57-1    | 11129900   | 98%    | 200.0 µg/mL                 | +/- 8.9718                             |
| 13            | Endrin                        | 72-20-8    | 14123200   | 98%    | 199.9 µg/mL                 | +/- 8.9696                             |
| 14            | 4,4'-DDD                      | 72-54-8    | HAN02      | 99%    | 200.1 µg/mL                 | +/- 8.9777                             |
| 15            | Endosulfan II                 | 33213-65-9 | 14374700   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 16            | 4,4'-DDT                      | 50-29-3    | 230410JLMA | 98%    | 200.0 µg/mL                 | +/- 8.9718                             |

|    |                    |            |            |     |             |            |
|----|--------------------|------------|------------|-----|-------------|------------|
| 17 | Endrin aldehyde    | 7421-93-4  | 30720      | 98% | 200.1 µg/mL | +/- 8.9784 |
| 18 | Endosulfan sulfate | 1031-07-8  | BCCH9010   | 99% | 200.0 µg/mL | +/- 8.9732 |
| 19 | Methoxychlor       | 72-43-5    | 13668200   | 99% | 200.1 µg/mL | +/- 8.9777 |
| 20 | Endrin ketone      | 53494-70-5 | 1-ABS-16-7 | 98% | 200.0 µg/mL | +/- 8.9740 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane/Toluene (50:50)  
**CAS #** 110-54-3/108-88-3  
**Purity** 99%

P13039  
 ↓  
 P13043  
 5  
 1  
 JAW  
 12/26/23

## Quality Confirmation Test

**Column:**  
 30m x .25mm x .2um  
 Rtx-CLP II (cat.# 11323)

**Carrier Gas:**  
 helium-constant pressure 20 psi.

**Temp. Program:**  
 150°C to 300°C  
 @ 4°C/min. ( hold 5 min.)

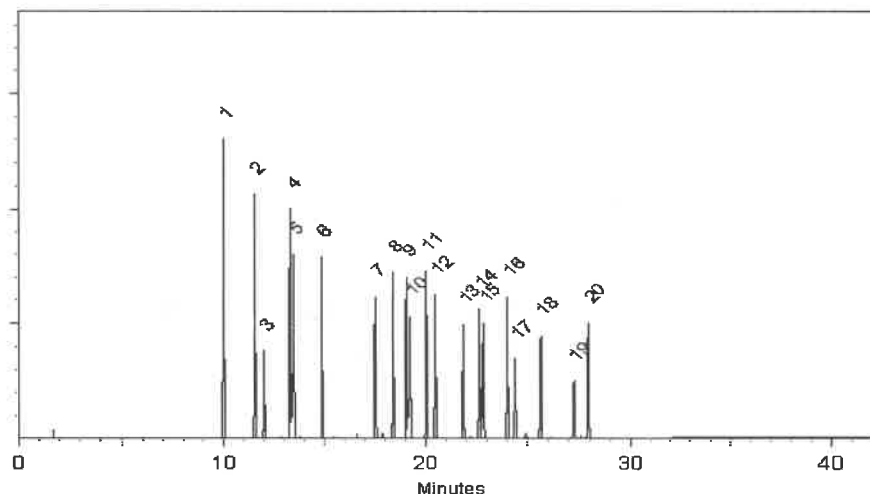
**Inj. Temp:**  
 200°C

**Det. Temp:**  
 300°C

**Det. Type:**  
 ECD

**Split Vent:**  
 Split ratio 50:1

**Inj. Vol**  
 1µl



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.

*Josh McCloskey*  
 Josh McCloskey - Operations Technician I

**Date Mixed:** 19-Jun-2023

**Balance Serial #** 1128360905

*Jennifer Pollino*  
 Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 23-Jun-2023

Manufactured under Restek's ISO 9001:2015  
 Registered Quality System  
 Certificate #FM 80397



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

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## Certificate of Analysis



### 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. :** 32291 **Lot No.:** A0168439

**Description :** Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2025 **Storage:** 10°C or colder

**Ship:** Ambient

P11061  
↓  
P11065  
AR  
9/30/2024

### CERTIFIED VALUES

| Elution Order | Compound                                                                      | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                      |                                       |
|---------------|-------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------|---------------------------------------|
| 1             | alpha-BHC<br>CAS # 319-84-6 (Lot 0012018BHC)<br>Purity 99%                    | 200.5 µg/mL                 | +/- 1.4217 µg/mL<br>+/- 9.1674 µg/mL<br>+/- 13.2104 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 2             | gamma-BHC (Lindane)<br>CAS # 58-89-9 (Lot 10972000)<br>Purity 97%             | 200.8 µg/mL                 | +/- 1.4238 µg/mL<br>+/- 9.1807 µg/mL<br>+/- 13.2295 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 3             | beta-BHC<br>CAS # 319-85-7 (Lot SL210106)<br>Purity 99%                       | 200.0 µg/mL                 | +/- 1.4182 µg/mL<br>+/- 9.1446 µg/mL<br>+/- 13.1774 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 4             | delta-BHC<br>CAS # 319-86-8 (Lot ER02101401)<br>Purity 98%                    | 199.9 µg/mL                 | +/- 1.4176 µg/mL<br>+/- 9.1409 µg/mL<br>+/- 13.1722 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 5             | Heptachlor<br>CAS # 76-44-8 (Lot 0006540595)<br>Purity 99%                    | 200.0 µg/mL                 | +/- 1.4182 µg/mL<br>+/- 9.1446 µg/mL<br>+/- 13.1774 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 6             | Aldrin<br>CAS # 309-00-2 (Lot 11129800)<br>Purity 97%                         | 199.8 µg/mL                 | +/- 1.4169 µg/mL<br>+/- 9.1363 µg/mL<br>+/- 13.1656 µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 7             | Heptachlor epoxide (isomer B)<br>CAS # 1024-57-3 (Lot 10039000)<br>Purity 99% | 200.5 µg/mL                 | +/- 1.4217 µg/mL<br>+/- 9.1674 µg/mL<br>+/- 13.2104 µg/mL | Gravimetric<br>Unstressed<br>Stressed |

|                                                                                               |                                                                   |                |             |                   |                             |                         |                                       |
|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------|-------------|-------------------|-----------------------------|-------------------------|---------------------------------------|
| 8                                                                                             | trans-Chlordane<br><b>CAS #</b> 5103-74-2<br><b>Purity</b> 99%    | (Lot 32095)    | 200.5 µg/mL | +/-<br>+/-<br>+/- | 1.4217<br>9.1674<br>13.2104 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 9                                                                                             | cis-Chlordane<br><b>CAS #</b> 5103-71-9<br><b>Purity</b> 99%      | (Lot 31707)    | 200.0 µg/mL | +/-<br>+/-<br>+/- | 1.4182<br>9.1446<br>13.1774 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 10                                                                                            | Endosulfan I<br><b>CAS #</b> 959-98-8<br><b>Purity</b> 99%        | (Lot BCBS8631) | 200.5 µg/mL | +/-<br>+/-<br>+/- | 1.4217<br>9.1674<br>13.2104 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 11                                                                                            | 4,4'-DDE<br><b>CAS #</b> 72-55-9<br><b>Purity</b> 99%             | (Lot GHYQG)    | 200.0 µg/mL | +/-<br>+/-<br>+/- | 1.4182<br>9.1446<br>13.1774 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 12                                                                                            | Dieldrin<br><b>CAS #</b> 60-57-1<br><b>Purity</b> 98%             | (Lot 10714300) | 200.4 µg/mL | +/-<br>+/-<br>+/- | 1.4211<br>9.1633<br>13.2045 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 13                                                                                            | Endrin<br><b>CAS #</b> 72-20-8<br><b>Purity</b> 98%               | (Lot 11129700) | 199.9 µg/mL | +/-<br>+/-<br>+/- | 1.4176<br>9.1409<br>13.1722 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 14                                                                                            | 4,4'-DDD<br><b>CAS #</b> 72-54-8<br><b>Purity</b> 99%             | (Lot HAN02)    | 200.5 µg/mL | +/-<br>+/-<br>+/- | 1.4217<br>9.1674<br>13.2104 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 15                                                                                            | Endosulfan II<br><b>CAS #</b> 33213-65-9<br><b>Purity</b> 99%     | (Lot 11129400) | 201.0 µg/mL | +/-<br>+/-<br>+/- | 1.4253<br>9.1903<br>13.2433 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 16                                                                                            | 4,4'-DDT<br><b>CAS #</b> 50-29-3<br><b>Purity</b> 99%             | (Lot S37912V)  | 200.0 µg/mL | +/-<br>+/-<br>+/- | 1.4182<br>9.1446<br>13.1774 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 17                                                                                            | Endrin aldehyde<br><b>CAS #</b> 7421-93-4<br><b>Purity</b> 98%    | (Lot 30455)    | 200.9 µg/mL | +/-<br>+/-<br>+/- | 1.4245<br>9.1857<br>13.2367 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 18                                                                                            | Endosulfan sulfate<br><b>CAS #</b> 1031-07-8<br><b>Purity</b> 99% | (Lot BCCB0424) | 200.0 µg/mL | +/-<br>+/-<br>+/- | 1.4182<br>9.1446<br>13.1774 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 19                                                                                            | Methoxychlor<br><b>CAS #</b> 72-43-5<br><b>Purity</b> 97%         | (Lot 10720900) | 199.8 µg/mL | +/-<br>+/-<br>+/- | 1.4169<br>9.1363<br>13.1656 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| 20                                                                                            | Endrin ketone<br><b>CAS #</b> 53494-70-5<br><b>Purity</b> 97%     | (Lot 11129600) | 199.8 µg/mL | +/-<br>+/-<br>+/- | 1.4169<br>9.1363<br>13.1656 | µg/mL<br>µg/mL<br>µg/mL | Gravimetric<br>Unstressed<br>Stressed |
| <b>Solvent:</b> Hexane/Toluene (50:50)<br><b>CAS #</b> 110-54-3/108-88-3<br><b>Purity</b> 99% |                                                                   |                |             |                   |                             |                         |                                       |

**Column:**  
30m x .25mm x .2um  
Rtx-CLP II (cat.# 11323)

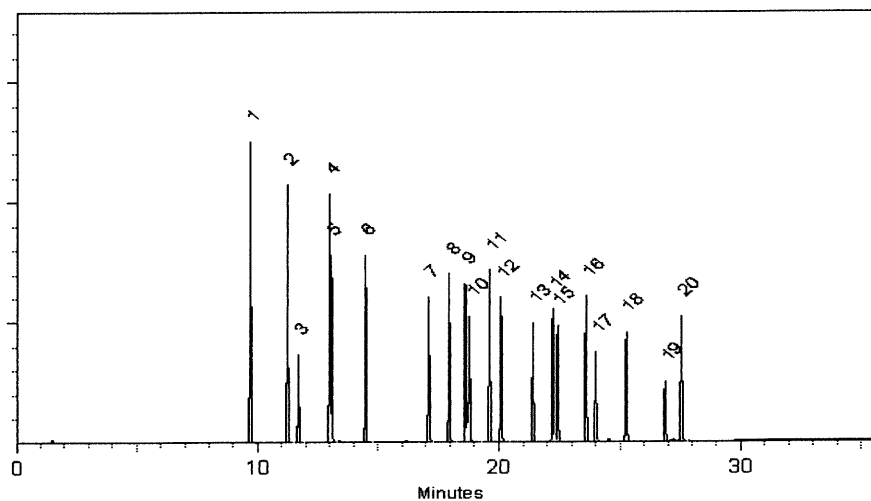
**Carrier Gas:**  
helium-constant pressure 20 psi.

**Temp. Program:**  
150°C to 300°C  
@ 4°C/min. ( hold 5 min.)

**Inj. Temp:**  
200°C

**Det. Temp:**  
300°C

**Det. Type:**  
ECD

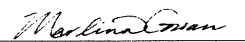


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Matt Fragassi - Mix Technician

Date Mixed: 25-Jan-2021

Balance: 1128342314

  
Marlene Cowan - Operations Tech I

Date Passed: 29-Jan-2021

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P11061  
↓  
P11065  
AR  
9/30/2021

## 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/ $\mu$ ECD, 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:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  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](http://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](http://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.





**Certified Reference Material CRM**



**CERTIFIED WEIGHT REPORT**

**Part Number:**  
**Lot Number:**  
**Description:**

**79136**  
**102821**  
**Mirex**

**Solvent(s):**  
**Lot#**  
**Acetone** **81025**

**Expiration Date:**  
**Recommended Storage:**  
**Nominal Concentration (µg/mL):**  
**NIST Test ID#:**

**102826**  
**Refrigerate (4 °C)**  
**1000**  
**6UTB**

**5E-05** **Balance Uncertainty**  
**0.006** **Flask Uncertainty**

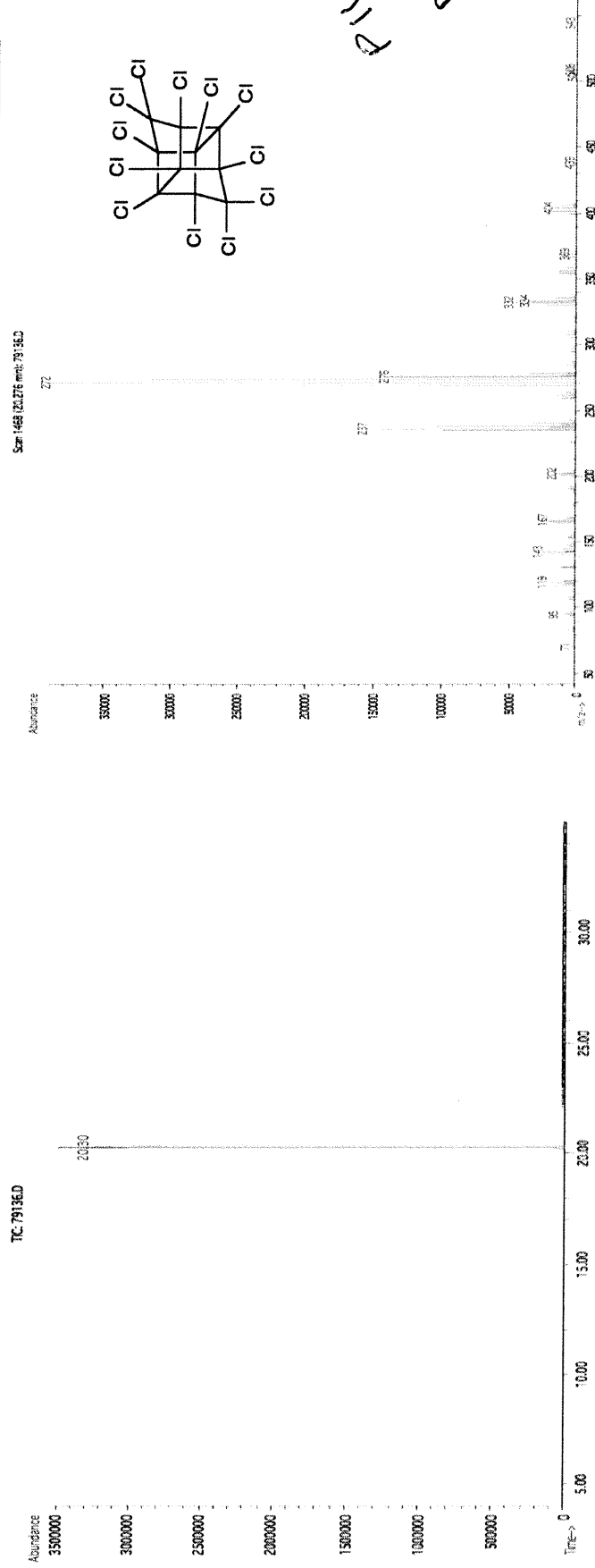
**Weight(s) shown below were combined and diluted to (mL):**

**50.0**

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty | Target Weight (g) | Actual Weight (g) | Actual Conc (µg/mL) | Expanded SDS Information  |                                        |                      |
|----------|-----|------------|----------------------|------------|-------------|-------------------|-------------------|---------------------|---------------------------|----------------------------------------|----------------------|
|          |     |            |                      |            |             |                   |                   |                     | Uncertainty (+/-) (µg/mL) | (Solvent Safety Info. On Attached pg.) | (SHA PEL (TWA) LD50) |

|          |     |         |      |      |     |         |         |        |      |           |     |                  |
|----------|-----|---------|------|------|-----|---------|---------|--------|------|-----------|-----|------------------|
| 1. Mirex | 437 | 9492400 | 1000 | 99.4 | 0.5 | 0.05034 | 0.05039 | 1000.9 | 10.3 | 2385-85-5 | N/A | orl-rat 306mg/kg |
|----------|-----|---------|------|------|-----|---------|---------|--------|------|-----------|-----|------------------|

**Method GC7MSD-1.M:** Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B = 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.



- 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 Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



# CERTIFIED WEIGHT REPORT

**Part Number:**  
**Lot Number:**  
**Description:**

**79136**  
**102821**  
**Mirex**

|                    |             |
|--------------------|-------------|
| <b>Solvent(s):</b> | <b>Lot#</b> |
| Acetone            | 81025       |

Expiration Date: 102826  
Recommended Storage: Refrigerate (4 °C)

Nominal Concentration ( $\mu\text{g/mL}$ ):  
NIST Test ID#:

**Weight(s) shown below were combined and diluted to (mL):**

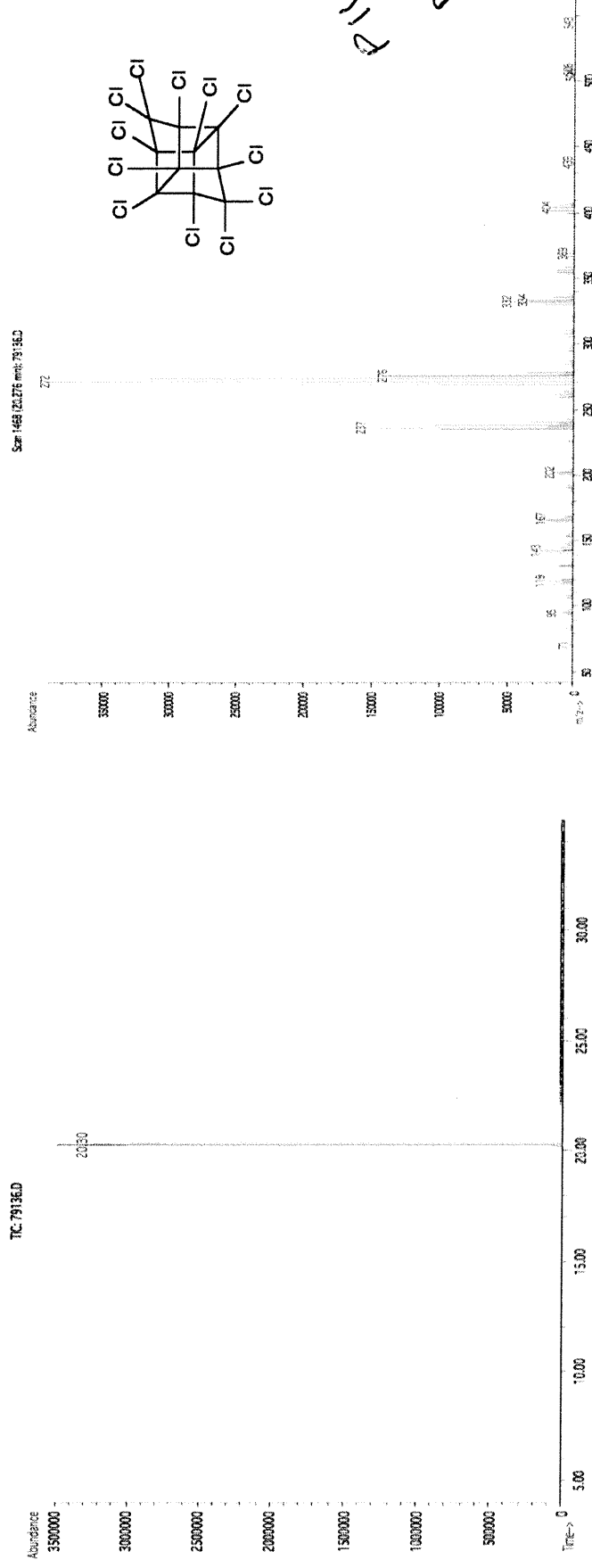
|       |                     |
|-------|---------------------|
| 5E-05 | Balance Uncertainty |
| 0.006 | Flask Uncertainty   |

|                 |                |
|-----------------|----------------|
| 102821          | DATE           |
| Elh Allaga      | Formulated By: |
| 102821          | DATE           |
| Pedro L. Rentas | Reviewed By:   |

## SDS Information

[illegible][illegible]

**Method GC7MSD-1.M:** Column: SPB-608 (30m X 0.25mm ID X 0.25 $\mu$ m film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.



- 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 Measurement Result, NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC. (1994).



**CERTIFIED REFERENCE MATERIAL**

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### 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. :** 32005 **Lot No.:** A0177326

**Description :** Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

P11811  
✓  
P11819  
AJ  
06/17/22

### CERTIFIED VALUES

| Elution Order | Compound                      | Grav. Conc.<br>(weight/volume) | Expanded Uncertainty<br>(95% C.L.; K=2) |
|---------------|-------------------------------|--------------------------------|-----------------------------------------|
| 1             | Toxaphene                     | 1,004.7 µg/mL                  | +/- 5.9674 µg/mL Gravimetric            |
|               | CAS # 8001-35-2 (Lot 1051817) |                                | +/- 31.8552 µg/mL Unstressed            |
|               | Purity ----%                  |                                | +/- 41.6063 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:**

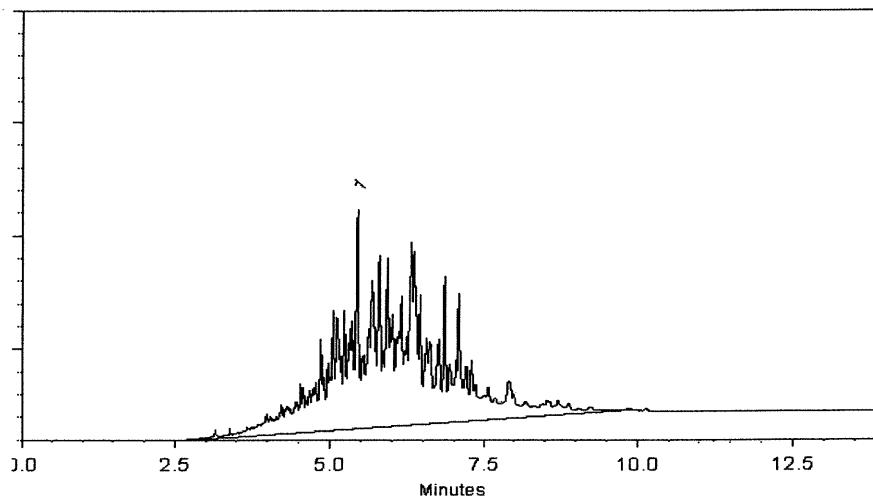
250°C

**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.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 11-Oct-2021

Balance: B442140311

*Marlina Cowan*

Marlina Cowan - Operations Tech I

Date Passed: 14-Oct-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:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  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](http://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](http://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.





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### 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. :** 32291 **Lot No.:** A0200423

**Description :** Organochlorine Pesticide Mix AB #1  
Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

P 13034  
↓  
P 13038  
12.26.2023

### CERTIFIED VALUES

| Elution Order | Compound                      | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | alpha-BHC                     | 319-84-6   | 14434500   | 99%    | 200.5 µg/mL                 | +/- 8.9956                             |
| 2             | gamma-BHC (Lindane)           | 58-89-9    | 14184400   | 98%    | 199.9 µg/mL                 | +/- 8.9696                             |
| 3             | beta-BHC                      | 319-85-7   | BCCC6425   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 4             | delta-BHC                     | 319-86-8   | 14450800   | 98%    | 199.9 µg/mL                 | +/- 8.9696                             |
| 5             | Heptachlor                    | 76-44-8    | 813251     | 99%    | 202.0 µg/mL                 | +/- 9.0629                             |
| 6             | Aldrin                        | 309-00-2   | 14389400   | 98%    | 200.9 µg/mL                 | +/- 9.0136                             |
| 7             | Heptachlor epoxide (isomer B) | 1024-57-3  | 14448800   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 8             | trans-Chlordane               | 5103-74-2  | 34616      | 99%    | 200.5 µg/mL                 | +/- 8.9956                             |
| 9             | cis-Chlordane                 | 5103-71-9  | 31766      | 98%    | 201.4 µg/mL                 | +/- 9.0356                             |
| 10            | Endosulfan I                  | 959-98-8   | BCCF4060   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 11            | 4,4'-DDE                      | 72-55-9    | GHYQG      | 99%    | 201.5 µg/mL                 | +/- 9.0405                             |
| 12            | Dieldrin                      | 60-57-1    | 14515000   | 98%    | 199.9 µg/mL                 | +/- 8.9696                             |
| 13            | Endrin                        | 72-20-8    | 14485300   | 98%    | 200.4 µg/mL                 | +/- 8.9916                             |
| 14            | 4,4'-DDD                      | 72-54-8    | HAN02      | 99%    | 200.5 µg/mL                 | +/- 8.9956                             |
| 15            | Endosulfan II                 | 33213-65-9 | 14374700   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 16            | 4,4'-DDT                      | 50-29-3    | 230410JLMA | 98%    | 201.9 µg/mL                 | +/- 9.0575                             |

|    |                    |            |          |     |             |            |
|----|--------------------|------------|----------|-----|-------------|------------|
| 17 | Endrin aldehyde    | 7421-93-4  | 30720    | 98% | 201.4 µg/mL | +/- 9.0356 |
| 18 | Endosulfan sulfate | 1031-07-8  | BCCH9010 | 99% | 200.5 µg/mL | +/- 8.9956 |
| 19 | Methoxychlor       | 72-43-5    | 14563200 | 98% | 200.9 µg/mL | +/- 9.0136 |
| 20 | Endrin ketone      | 53494-70-5 | 14537700 | 98% | 199.9 µg/mL | +/- 8.9696 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane/Toluene (50:50)  
**CAS #** 110-54-3/108-88-3  
**Purity** 99%

P13034  
P13038  
1  
5  
12/26/2023

## Quality Confirmation Test

**Column:**  
30m x .25mm x .2µm  
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**  
helium-constant pressure 20 psi.

**Temp. Program:**  
150°C to 300°C  
@ 4°C/min. ( hold 5 min.)

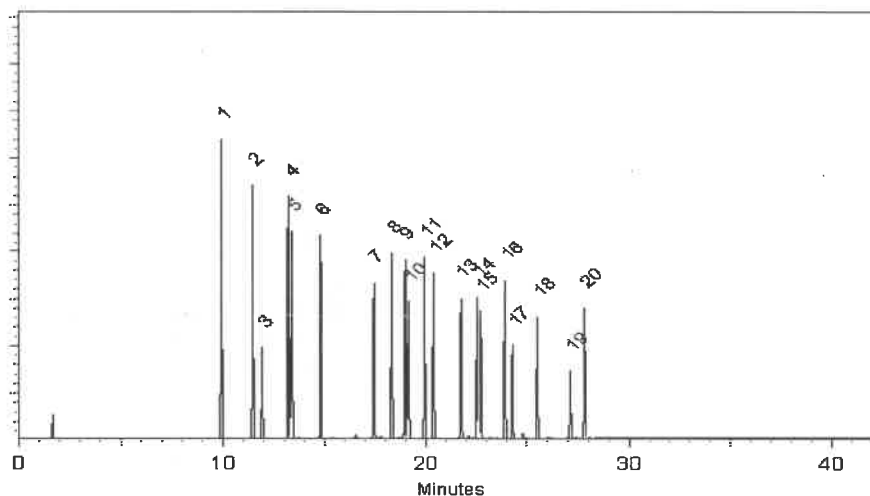
**Inj. Temp:**  
200°C

**Det. Temp:**  
300°C

**Det. Type:**  
ECD

**Split Vent:**  
Split ratio 50:1

**Inj. Vol**  
1µl



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*  
Sam Moodler - Operations Tech I

**Date Mixed:** 31-Jul-2023

**Balance Serial #** B442140311

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 03-Aug-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### 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. :** 32291 **Lot No.:** A0200423

**Description :** Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

P 13034  
↓  
P 13038  
12.26.2023

### CERTIFIED VALUES

| Elution Order | Compound                      | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | alpha-BHC                     | 319-84-6   | 14434500   | 99%    | 200.5 µg/mL                 | +/- 8.9956                             |
| 2             | gamma-BHC (Lindane)           | 58-89-9    | 14184400   | 98%    | 199.9 µg/mL                 | +/- 8.9696                             |
| 3             | beta-BHC                      | 319-85-7   | BCCC6425   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 4             | delta-BHC                     | 319-86-8   | 14450800   | 98%    | 199.9 µg/mL                 | +/- 8.9696                             |
| 5             | Heptachlor                    | 76-44-8    | 813251     | 99%    | 202.0 µg/mL                 | +/- 9.0629                             |
| 6             | Aldrin                        | 309-00-2   | 14389400   | 98%    | 200.9 µg/mL                 | +/- 9.0136                             |
| 7             | Heptachlor epoxide (isomer B) | 1024-57-3  | 14448800   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 8             | trans-Chlordane               | 5103-74-2  | 34616      | 99%    | 200.5 µg/mL                 | +/- 8.9956                             |
| 9             | cis-Chlordane                 | 5103-71-9  | 31766      | 98%    | 201.4 µg/mL                 | +/- 9.0356                             |
| 10            | Endosulfan I                  | 959-98-8   | BCCF4060   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 11            | 4,4'-DDE                      | 72-55-9    | GHYQG      | 99%    | 201.5 µg/mL                 | +/- 9.0405                             |
| 12            | Dieldrin                      | 60-57-1    | 14515000   | 98%    | 199.9 µg/mL                 | +/- 8.9696                             |
| 13            | Endrin                        | 72-20-8    | 14485300   | 98%    | 200.4 µg/mL                 | +/- 8.9916                             |
| 14            | 4,4'-DDD                      | 72-54-8    | HAN02      | 99%    | 200.5 µg/mL                 | +/- 8.9956                             |
| 15            | Endosulfan II                 | 33213-65-9 | 14374700   | 99%    | 200.0 µg/mL                 | +/- 8.9732                             |
| 16            | 4,4'-DDT                      | 50-29-3    | 230410JLMA | 98%    | 201.9 µg/mL                 | +/- 9.0575                             |

|    |                    |            |          |     |             |            |
|----|--------------------|------------|----------|-----|-------------|------------|
| 17 | Endrin aldehyde    | 7421-93-4  | 30720    | 98% | 201.4 µg/mL | +/- 9.0356 |
| 18 | Endosulfan sulfate | 1031-07-8  | BCCH9010 | 99% | 200.5 µg/mL | +/- 8.9956 |
| 19 | Methoxychlor       | 72-43-5    | 14563200 | 98% | 200.9 µg/mL | +/- 9.0136 |
| 20 | Endrin ketone      | 53494-70-5 | 14537700 | 98% | 199.9 µg/mL | +/- 8.9696 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane/Toluene (50:50)  
**CAS #** 110-54-3/108-88-3  
**Purity** 99%

P13034  
P13038  
1  
5  
12/26/2023

## Quality Confirmation Test

**Column:**  
30m x .25mm x .2µm  
Rtx-CLP II (cat.# 11323)

**Carrier Gas:**  
helium-constant pressure 20 psi.

**Temp. Program:**  
150°C to 300°C  
@ 4°C/min. ( hold 5 min.)

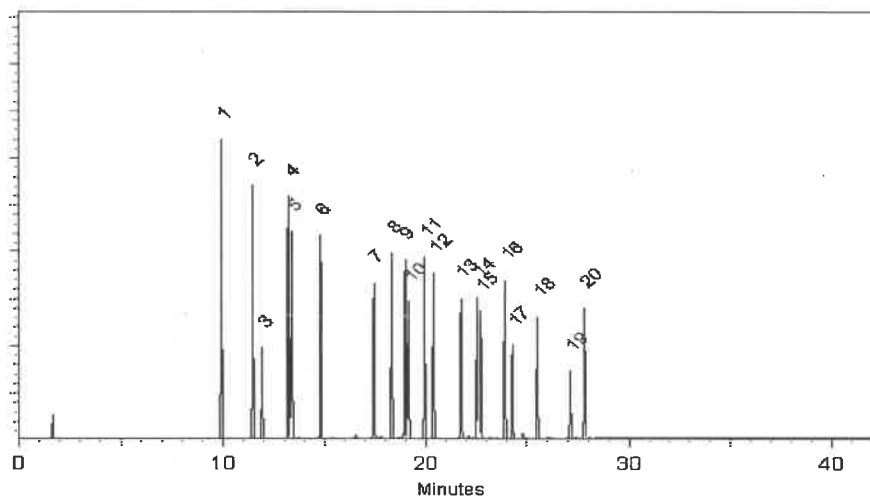
**Inj. Temp:**  
200°C

**Det. Temp:**  
300°C

**Det. Type:**  
ECD

**Split Vent:**  
Split ratio 50:1

**Inj. Vol**  
1µl



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*  
Sam Moodler - Operations Tech I

**Date Mixed:** 31-Jul-2023

**Balance Serial #** B442140311

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 03-Aug-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



**CERTIFIED WEIGHT REPORT**

Part Number:  
Lot Number:  
Description:

**19161**  
**013124**

CLP Pesticides & PCBs Resolution Check Standard

9 components

Solvent(s):

Lot#

Expiration Date:

013129

Hexane

273615

Recommended Storage:

Refrigerate (4 °C)

Toluene

28508

(50%)  
(50%)

Nominal Concentration (µg/mL):

Varied

NIST Test ID#:

6UTB

5E-05

Balance Uncertainty  
Pipet Uncertainty

Volume(s) shown below were combined and diluted to (mL):

100.0

0.021

|                                      |  |        |
|--------------------------------------|--|--------|
| Formulated By: <i>Lawrence Barry</i> |  | 013124 |
| Reviewed By: <i>Pedro L. Rentes</i>  |  | 013124 |
| DATE                                 |  | DATE   |

| Compound | Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Uncertainty (mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty (±) µg/mL | (Solvent Safety Info. On Attached pg.) | SDS Information | LD50 |
|----------|-------------|------------|-------------|-------------------|------------------|-----------------------|---------------------|--------------------------------|----------------------------------------|-----------------|------|
|----------|-------------|------------|-------------|-------------------|------------------|-----------------------|---------------------|--------------------------------|----------------------------------------|-----------------|------|

|                                 |       |        |       |      |       |        |      |      |            |                  |                   |
|---------------------------------|-------|--------|-------|------|-------|--------|------|------|------------|------------------|-------------------|
| 1. trans-Chlordane              | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 101.3  | 1.0  | 0.02 | 5103-74-2  | 0.5mg/m3 (skin)  | or-rat 500mg/kg   |
| 2. Endosulfan I                 | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 101.3  | 1.0  | 0.02 | 959-98-8   | 0.1mg/m3 (skin)  | or-rat 18mg/kg    |
| 3. 4,4'-DDE                     | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 201.6  | 2.0  | 0.03 | 72-55-9    | N/A              | or-rat 880mg/kg   |
| 4. Dieldrin                     | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.8  | 2.0  | 0.03 | 60-57-1    | 0.25mg/m3 (skin) | or-rat 36300µg/kg |
| 5. Endosulfan sulfate           | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 204.2  | 2.0  | 0.03 | 1031-07-8  | N/A              | or-rat 18mg/kg    |
| 6. Endrin ketone                | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.6  | 2.0  | 0.03 | 53494-70-5 | N/A              | N/A               |
| 7. 4,4-Methoxychlor             | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 1000.7 | 10.0 | 0.09 | 72-43-5    | 10mg/m3          | or-rat 6000mg/kg  |
| 8. 2,4,5,6-Tetrachloro-m-xylene | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.6  | 2.0  | 0.03 | 877-09-8   | N/A              | N/A               |
| 9. Decachlorobiphenyl (209)     | 19361 | 013124 | 0.010 | 1.00 | 0.004 | 202.0  | 2.0  | 0.03 | 2051-24-3  | N/A              | N/A               |

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110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### 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.:** A0206810

**Description :** Pesticide Surrogate Mix  
Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Contains PCBs - sonicate prior to use. **Ship:** Ambient

P13348  
↓  
P13357  
10  
DAUF  
04/25/2024

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8  | RP220407 | 99%    | 200.3 µg/mL                 | +/- 11.1143                            |
| 2             | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30638    | 99%    | 200.6 µg/mL                 | +/- 11.1298                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone  
**CAS #** 67-64-1  
**Purity** 99%

### Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

## Quality Confirmation Test

**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:**

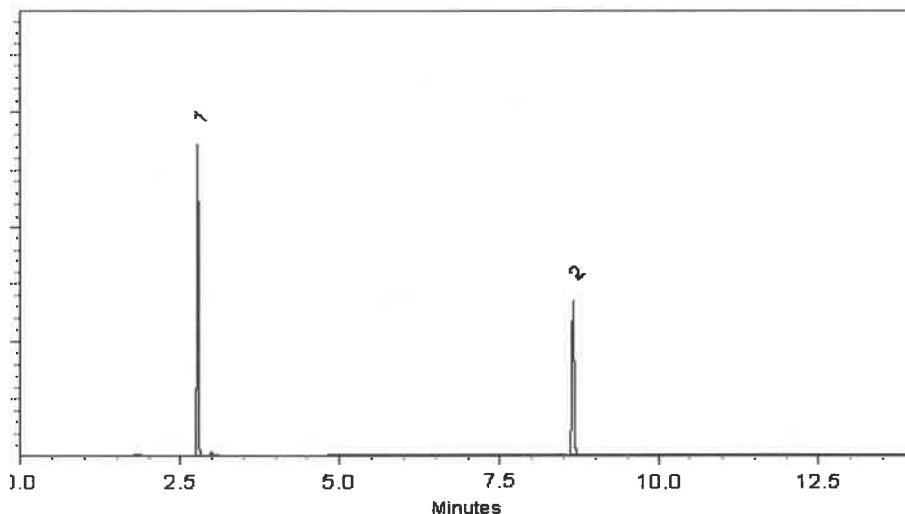
ECD

**Split Vent:**

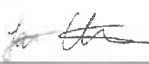
10 ml/min.

**Inj. Vol**

1µl

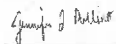


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024

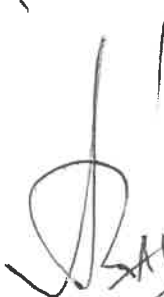
Balance Serial # 1128360905

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P 13348  
↓  
P 13357  
10

  
SAUF  
04/25/2025



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 32005 **Lot No.:** A0203038

**Description :** Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound  | CAS #     | Lot #   | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------|-----------|---------|--------|-----------------------------|----------------------------------------|
| 1             | Toxaphene | 8001-35-2 | 1051817 | ----%  | 1,009.0 µg/mL               | +/- 55.9920                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%

P 13358  
↓  
P 13369  
(12)

✓  
05-06-2024



## Quality Confirmation Test

**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:**

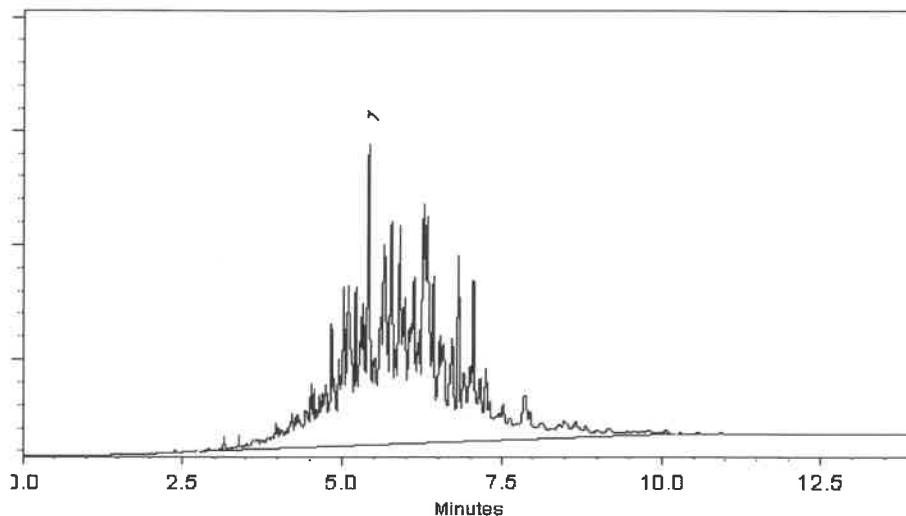
ECD

**Split Vent:**

300 ml/min.

**Inj. Vol**

0.2µl



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.

  
Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P13358  
↓  
P13369  
↓  
(12)

  
05-06-2024







110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



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**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound  | CAS #     | Lot #   | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------|-----------|---------|--------|-----------------------------|----------------------------------------|
| 1             | Toxaphene | 8001-35-2 | 1051817 | ----%  | 1,009.0 µg/mL               | +/- 55.9920                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%

P 13358  
↓  
P 13369  
(12)

*[Signature]*  
05-06-2024



## Quality Confirmation Test

**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:**

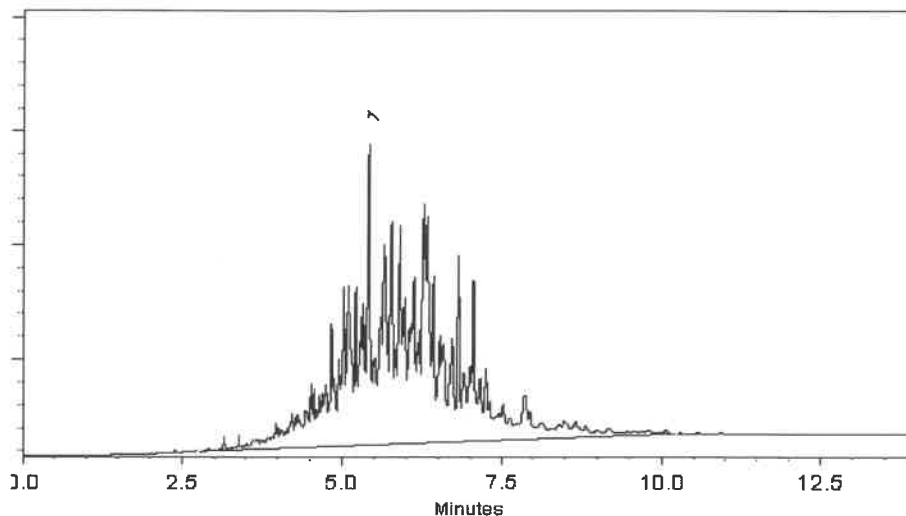
ECD

**Split Vent:**

300 ml/min.

**Inj. Vol**

0.2µl



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.

  
Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P13358  
↓  
P13369  
↓  
(12)

  
05-06-2024





110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
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www.restek.com

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chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Description :** Toxaphene Standard  
Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2028 **Storage:** 10°C or colder  
**Ship:** Ambient

P13402 } (5)  
P13406 }  
5/22/2024

### CERTIFIED VALUES

| Elution Order | Compound  | CAS #     | Lot #   | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-----------|-----------|---------|--------|-----------------------------|----------------------------------------|
| 1             | Toxaphene | 8001-35-2 | 1051817 | ---%   | 1,009.0 µg/mL               | +/- 55.9920                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%

## Quality Confirmation Test

**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:**

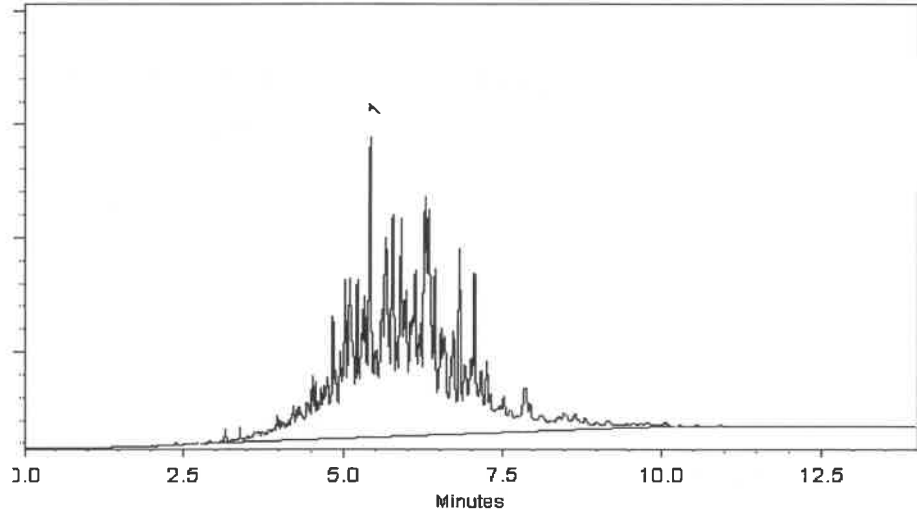
ECD

**Split Vent:**

300 ml/min.

**Inj. Vol**

0.2µl

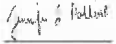


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 10-Oct-2023

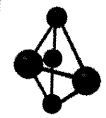
Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Oct-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

P13402  
↓  
P13406 } (5)  
  
5/22/2024



CERTIFIED WEIGHT REPORT

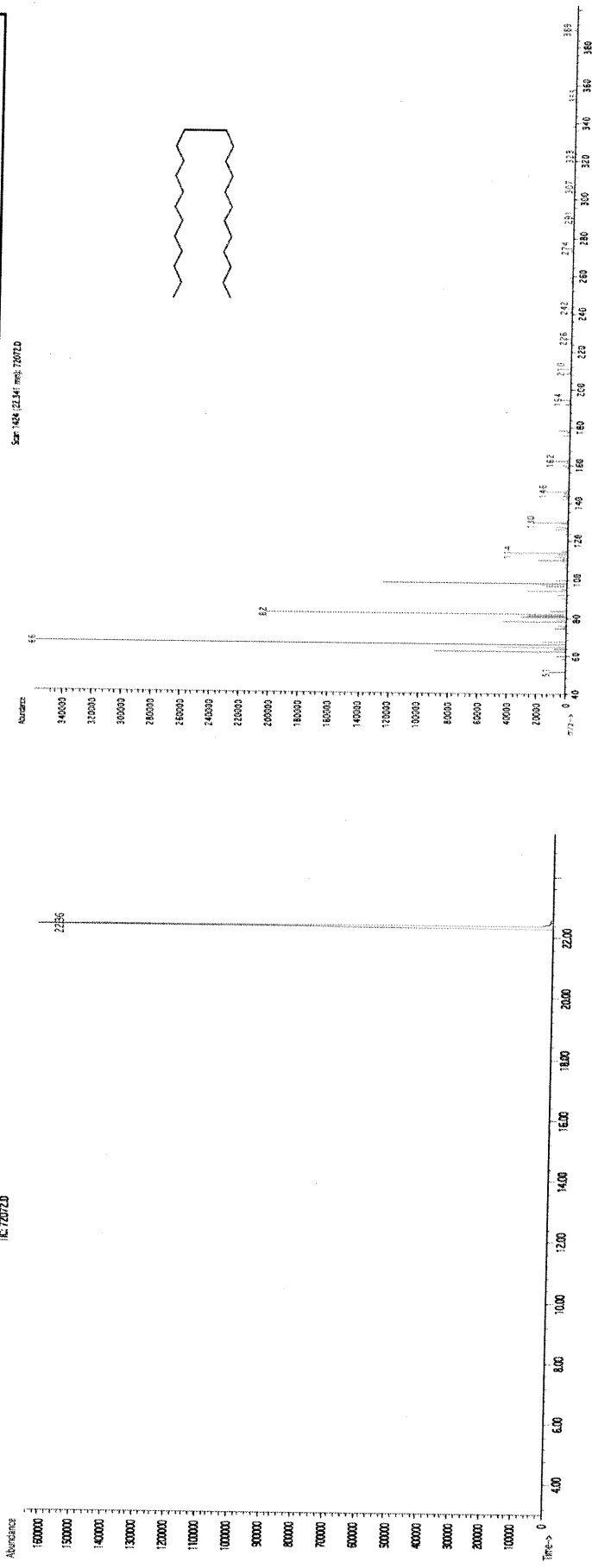
Part Number: **72072**  
Lot Number: **112018**  
Description: **n-Tetracosane-d50**  
  
Expiration Date: **112028**  
Recommended Storage: **Ambient (20 °C)**  
Nominal Concentration (µg/mL): **1000**  
NIST Test ID#: **2684186**  
  
Weight(s) shown below were combined and diluted to (mL):

Solvent(s): **Methylene chloride**  
Lot# **102669**  
  
*Received by*  
*SG on 11/11/19*  
*p9044-p9053*  
5E-05 Balance Uncertainty  
0.058 Flask Uncertainty

|                         |                  |
|-------------------------|------------------|
| <i>Prashant Chauhan</i> |                  |
| Formulated By:          | Prashant Chauhan |
| DATE                    | 112018           |
| <i>Pedro Rentas</i>     |                  |
| Reviewed By:            | Pedro Rentas     |
| DATE                    | 112018           |

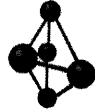
| Compound                                                                                                                                                                                                                                                     | RM#  | Lot Number        | Nominal Conc (µg/mL) | Purity (%) | Uncertainty | Target Weight (g) | Actual Weight (g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------|----------------------|------------|-------------|-------------------|-------------------|---------------------|------------------------------------|--------------------------------------------------------|
| 1. n-Tetracosane-d50                                                                                                                                                                                                                                         | 2072 | PR-17753/09216TC1 | 1000                 | 98         | 0.2         | 0.20411           | 0.20415           | 1000.2              | 4.2                                | 18416-32-3 N/A                                         |
| Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren. |      |                   |                      |            |             |                   |                   |                     |                                    |                                                        |

TC 720720



• 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).  
• 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).





## Run 40, "P72072 L112018 [1000µg/mL in MeCl2]"

Run Length: 35.00 min, 20999 points at 10 points/second.

Created: Thu, Nov 22, 2018 at 7:23:18 AM.

Sampled: Sequence "112018-GC4M1", Method "GC4-M1".

Analyzed using Method "GC4-M1".

### Comments

GC4-M1 Analysis by Melissa Stonier

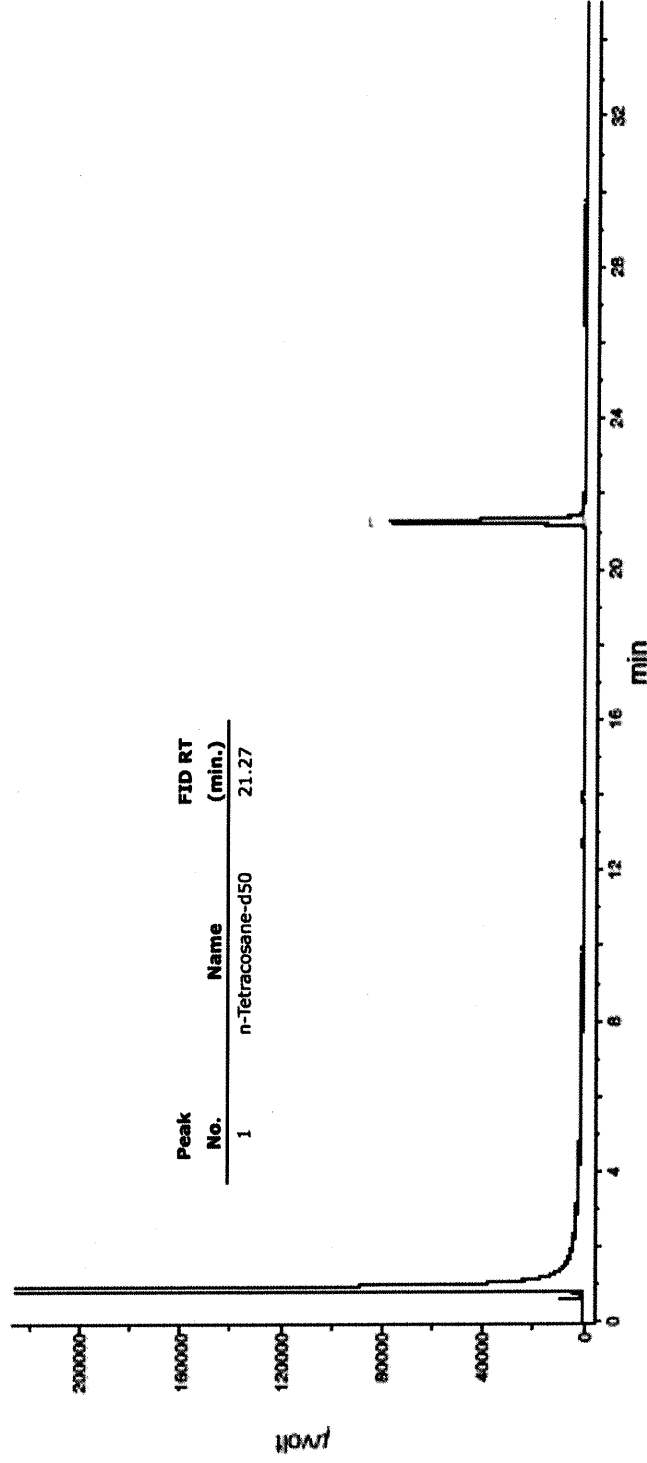
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5µm Film Thickness

Flow rates: Total Flow = 300 mL/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) = 360 mL

Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.

Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDAQ Channel 1.

Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 µL, Range = 3





# SHIPPING DOCUMENTS

# Packing List

6390 Joyce Dr., #100  
Golden, CO 80403

Tel: +1-303-940-0033  
Fax: +1-303-940-0043  
info@phenova.com  
www.phenova.com

For terms and conditions of your order, please visit:  
www.phenova.com/home/termsofsale

| Date       | Order # |
|------------|---------|
| 09/03/2024 | 318988  |



## Ship To

Chemtech - NJ  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

Received by: SJ  
9/5/2024  
9:50

| Customer PO # | Terms  | PT Acct # | Customer # | Ship Via      | F.O.B.     |
|---------------|--------|-----------|------------|---------------|------------|
| 240802-01     | Net 30 | ZCM-100   | 1500470    | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number  | Part Description                         | Study Number | Lot Number |
|-------------|-------------|---------------|--------------|------------------------------------------|--------------|------------|
|             |             |               | PT-TMSET-WP  | WP Trace Metals Set : (TM1, HG and SNTI) |              |            |
| 1           | 1           | 0             | PT-TM1-WP    | WP Trace Metals 1                        | WP0924       | 8259-04    |
| 1           | 1           | 0             | PT-HG-WP     | WP Mercury                               | WP0924       | 8259-05    |
| 1           | 1           | 0             | PT-SNTI-WP   | WP Tin & Titanium                        | WP0924       | 8259-38    |
| 1           | 1           | 0             | PT-CR6-WP    | WP Hexavalent Chromium                   | WP0924       | 8259-06    |
| 1           | 1           | 0             | PT-DEM-WP    | WP Demand                                | WP0924       | 8259-07    |
|             |             |               | PT-MINSET-WP | WP Minerals Set : (MIN1, MIN2 and COND)  |              |            |
| 1           | 1           | 0             | PT-MIN1-WP   | WP Minerals 1 Only                       | WP0924       | 8259-08    |
| 1           | 1           | 0             | PT-MIN2-WP   | WP Minerals 2 Only                       | WP0924       | 8259-102   |
| 1           | 1           | 0             | PT-COND-WP   | WP Conductivity Only                     | WP0924       | 8259-72    |
| 1           | 1           | 0             | PT-SOL-WP    | WP Solids                                | WP0924       | 8259-09    |
|             |             |               | PT-NUTSET-WP | WP Nutrients Set : (NUT1, NUT2 and NUT3) |              |            |
| 1           | 1           | 0             | PT-NUT1-WP   | WP NUT1 Simple Nutrients Only            | WP0924       | 8259-10    |
| 1           | 1           | 0             | PT-NUT2-WP   | WP NUT2 - Complex Nutrients              | WP0924       | 8259-11    |
| 1           | 1           | 0             | PT-NUT3-WP   | WP NUT3 - Nitrite Only                   | WP0924       | 8259-69    |
| 1           | 1           | 0             | PT-OGR1L-WP  | WP Oil and Grease 1L                     | WP0924       | 8259-103   |
| 1           | 1           | 0             | PT-CL-WP     | WP Residual Chlorine                     | WP0924       | 8259-13    |
| 1           | 1           | 0             | PT-PH-WP     | WP pH                                    | WP0924       | 8259-15    |
| 1           | 1           | 0             | PT-CN-WP     | WP Cyanide                               | WP0924       | 8259-14    |
| 1           | 1           | 0             | PT-PHEN-WP   | WP Phenolics                             | WP0924       | 8259-16    |

# Packing List

6390 Joyce Dr., #100  
Golden, CO 80403

Tel: +1-303-940-0033  
Fax: +1-303-940-0043  
info@phenova.com  
www.phenova.com

For terms and conditions of your order, please visit:  
www.phenova.com/home/termsofsale

| Date       | Order # |
|------------|---------|
| 09/03/2024 | 318988  |



## Ship To

Chemtech - NJ  
ATTN: Sohil Jodhani  
284 Sheffield St., #1  
Mountainside, NJ 07092  
USA

Received by: SJ  
9/5/2024  
9:50

| Customer PO # | Terms  | PT Acct # | Customer # | Ship Via      | F.O.B.     |
|---------------|--------|-----------|------------|---------------|------------|
| 240802-01     | Net 30 | ZCM-100   | 1500470    | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number    | Part Description           | Study Number | Lot Number |
|-------------|-------------|---------------|----------------|----------------------------|--------------|------------|
| 1           | 1           | 0             | PT-S2-WP       | WP Sulfide                 | WP0924       | 8259-22    |
| 1           | 1           | 0             | PT-SSOL-WP     | WP Settleable Solids       | WP0924       | 8259-17    |
| 1           | 1           | 0             | PT-VSOL-WP     | WP Volatile Solids         | WP0924       | 8259-18    |
| 1           | 1           | 0             | PT-TURB-WP     | WP Turbidity               | WP0924       | 8259-20    |
| 1           | 1           | 0             | PT-SIO2-WP     | WP Silica                  | WP0924       | 8259-21    |
| 1           | 1           | 0             | PT-COL-WP      | WP Color                   | WP0924       | 8259-51    |
| 1           | 1           | 0             | PT-VOA-WP      | WP Volatiles               | WP0924       | 8259-26    |
| 1           | 1           | 0             | PT-BN-WP       | WP Base Neutrals           | WP0924       | 8259-27    |
| 1           | 1           | 0             | PT-ACIDS-WP    | WP Acids                   | WP0924       | 8259-28    |
| 1           | 1           | 0             | PT-PEST-WP     | WP Pesticides              | WP0924       | 8259-29    |
| 1           | 1           | 0             | PT-CHLR-WP     | WP Chlordane               | WP0924       | 8259-30    |
| 1           | 1           | 0             | PT-TXP-WP      | WP Toxaphene               | WP0924       | 8259-31    |
| 1           | 1           | 0             | PT-PCBW-WP     | WP PCBs in Water           | WP0924       | 8259-32    |
| 1           | 1           | 0             | PT-HERB-WP     | WP Herbicides              | WP0924       | 8259-36    |
| 1           | 1           | 0             | RR-TPH1L-WP    | WP TPH 1L                  | R39151       | R39151-104 |
| 1           | 1           | 0             | RR-PAH-WP      | WP PAH-Low Level           | R39151       | R39151-37  |
| 1           | 1           | 0             | RR-GAS-WP      | WP Gasoline Range Organics | R39151       | R39151-62  |
| 1           | 1           | 0             | RR-DIES-WP     | WP Diesel Range Organics   | R39151       | R39151-63  |
| 1           | 1           | 0             | RR-8011-WP     | WP EDB/DBCP/TCP            | R39151       | R39151-98  |
| 1           | 1           | 0             | RR-TRIAZINE-WP | WP Triazine Pesticides     | R39151       | R39151-108 |



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-0830          |
|                      |                  |
| DOD ELAP (L-A-B)     | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255423           |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |