


SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Cas No.: 48033 MA No. : _____ SDG No.: A41T4
 SOW No. : SOM02.4

| EPA Sample No. | Lab Sample ID | Trace VOA | Low Med VOA | Analysis Method | | | |
|----------------|---------------|-----------|-------------|-----------------|----------|------|-----|
| | | | | SVOA | SVOA SIM | PEST | ARO |
| A41T4 | J6428-01 | | | | | | X |
| A41T5 | J6428-02 | | | | | | X |
| A41T7 | J6428-03 | | | | | | X |
| A41T8 | J6428-04 | | | | | | X |
| A41T9 | J6428-05 | | | | | | X |
| A41W0 | J6428-06 | | | | | | X |
| A41W1 | J6428-07 | | | | | | X |
| A41W2 | J6428-08 | | | | | | X |
| A41W2MS | J6428-09 | | | | | | X |
| A41W2MSD | J6428-10 | | | | | | X |
| A41W3 | J6428-11 | | | | | | X |
| A41W5 | J6428-12 | | | | | | X |
| A41W6 | J6428-13 | | | | | | X |
| A41W7 | J6428-14 | | | | | | X |
| A41W8 | J6428-15 | | | | | | X |
| A41W9 | J6428-16 | | | | | | X |
| A41Z3 | J6428-17 | | | | | | X |

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:  Name: Nimisha Panslye
 Date: 01/03/19 Title: QA/QC

SDG-H A41TA

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 1-121218-133018-0001

Date Shipped: 12/14/2018

Lab: Chemtech Consulting Group

Carrier Name: Hand Delivered

Case #: 48033

Lab Contact: Divya Mehta

Airbill No: NA

Cooler #: 0002

Lab Phone: 908-789-8900

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|-------------------|----------------|-----------------|--------------|----------------------------|--------------------------|----------|----------------------|------------------|
| 0252-0002 | A41T4 | Soil/ START | Grab | ARO(21) | 1001 (4 C) (1) | EW-02 | 12/12/2018 08:45 | Lo. TAG |
| 0252-0003 | A41T5 | Soil/ START | Grab | ARO(21) | 1002 (4 C) (1) | EW-03 | 12/12/2018 08:47 | |
| 0252-0005 | A41T7 | Soil/ START | Grab | ARO(21) | 1004 (4 C) (1) | EW-05 | 12/12/2018 08:55 | |
| 0252-0006 | A41T8 | Soil/ START | Grab | ARO(21) | 1005 (4 C) (1) | EW-06 | 12/12/2018 09:05 | |
| 0252-0007 | A41T9 | Soil/ START | Grab | ARO(21) | 1006 (4 C) (1) | EW-07 | 12/12/2018 09:00 | |
| 0252-0008 | A41W0 | Soil/ START | Grab | ARO(21) | 1007 (4 C) (1) | WW-01 | 12/12/2018 09:10 | |
| 0252-0009 | A41W1 | Soil/ START | Grab | ARO(21) | 1008 (4 C) (1) | WW-101 | 12/12/2018 09:10 | |
| 0252-0010 | A41W2 | Soil/ START | Grab | ARO(21) | 1009 (4 C) (2) | WW-02 | 12/12/2018 09:12 | |
| 0252-0012 | A41W3 | Soil/ START | Grab | ARO(21) | 1010 (4 C) (1) | WW-03 | 12/12/2018 09:15 | |
| 0252-0015 | A41W5 | Soil/ START | Grab | ARO(21) | 1012 (4 C) (1) | WW-06 | 12/12/2018 09:40 | |
| 0252-0016 | A41W6 | Soil/ START | Grab | ARO(21) | 1013 (4 C) (1) | WW-05 | 12/12/2018 09:35 | |
| 0252-0017 | A41W7 | Soil/ START | Grab | ARO(21) | 1014 (4 C) (1) | WW-07 | 12/12/2018 09:40 | |
| 0252-0018 | A41W8 | Soil/ START | Grab | ARO(21) | 1015 (4 C) (1) | SW-01 | 12/12/2018 09:35 | |
| 0252-0019 | A41W9 | Soil/ START | Grab | ARO(21) | 1016 (4 C) (1) | NW-01 | 12/12/2018 09:55 | |
| 0252-0044 | A41Z3 | Lab Sand/ START | Grab | ARO(21) | 1040 (4 C) (1) | AS1668 | 12/12/2018 12:00 | PE |

Sample(s) to be used for Lab QC: 0252-0010 Tag 1009 - Special Instructions: Cooler# 0002 contains all of samples from COC# - 0001 and a portion of samples from COC# -0002

Analysis Key: ARO=CLP Aroclors

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|--------------|--|------------------|--|-------------------|-------------------------------|
| | <i>Tyler Evans</i> | 12/13/18 1500 | <i>CR</i> | 13:00 12-14-18 | 3.1 C |
| | | | | | |
| | | | | | |

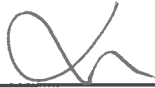
Sample Delivery Group (SDG) Cover Sheet

SDG Number A41T4 Case Number 48033 Contract Number EP-W-14-030
 Lab Code CHM SDG Turnaround 21 days Delivery CLIN(s) H
 First Sample Received in SDG A41T4 Last Sample Received in SDG A41Z3
 First Sample Receipt Date 12/14/2018 13:00 Last Sample Receipt Date 12/14/2018 13:00

USEPA Sample Numbers in SDG (Listed in Numerical Order)

| CLP Sample ID | Sample Type | Requested Analytical CLIN(s)/SubCLIN(s) | Solicitation Number | MA Number(s) |
|---------------|--------------|---|---------------------|--------------|
| A41T4 | Field Sample | 0020AB | N/A | N/A |
| A41T5 | Field Sample | 0020AB | N/A | N/A |
| A41T7 | Field Sample | 0020AB | N/A | N/A |
| A41T8 | Field Sample | 0020AB | N/A | N/A |
| A41T9 | Field Sample | 0020AB | N/A | N/A |
| A41W0 | Field Sample | 0020AB | N/A | N/A |
| A41W1 | Field Sample | 0020AB | N/A | N/A |
| A41W2 | Field Sample | 0020AB | N/A | N/A |
| A41W2MS | Field Sample | 0020AB | N/A | N/A |
| A41W2MSD | Field Sample | 0020AB | N/A | N/A |
| A41W3 | Field Sample | 0020AB | N/A | N/A |
| A41W5 | Field Sample | 0020AB | N/A | N/A |
| A41W6 | Field Sample | 0020AB | N/A | N/A |
| A41W7 | Field Sample | 0020AB | N/A | N/A |
| A41W8 | Field Sample | 0020AB | N/A | N/A |
| A41W9 | Field Sample | 0020AB | N/A | N/A |
| A41Z3 | PE SAMPLE | 0020AB | N/A | N/A |

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature 

Date 12/14/18

FORM DC-1
SAMPLE LOG-IN SHEET

| | | |
|--|----------------------|-------------------------------|
| Lab Name CHEMTECH CONSULTING GROUP | | Page <u>1</u> of <u>1</u> |
| Received By (Print Name) <u>Cassandra Pera</u> | | Log-in Date <u>12/14/2018</u> |
| Received By (Signature) <u>[Signature]</u> | | |
| Case Number <u>48033</u> | SDG No. <u>A41T4</u> | MA No. <u>N/A</u> |

| | |
|--|------------------------------------|
| Remarks: | |
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | <u>N/A</u> |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. | <u>HAND-DELIVERED</u> |
| 6. Sample Tags Sample Tag # | Absent Listed on Traffic Report |
| 7. Sample Condition | Intact |
| 8. Shipping Container Temperature Indicator Bottle | Present |
| 9. Shipping Container Temperature | <u>3.1</u> Degree C |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | <u>12/14/2018</u> |
| 12. Time Received | <u>13:00</u> |

| | EPA Sample # | Corresponding | | Remarks: Condition of Sample shipment, etc. |
|----|--------------|---------------|----------------|---|
| | | Sample Tag # | Assigned Lab # | |
| 1 | A41T4 | 1001 | J6428-01 | Intact |
| 2 | A41T5 | 1002 | J6428-02 | Intact |
| 3 | A41T7 | 1004 | J6428-03 | Intact |
| 4 | A41T8 | 1005 | J6428-04 | Intact |
| 5 | A41T9 | 1006 | J6428-05 | Intact |
| 6 | A41W0 | 1007 | J6428-06 | Intact |
| 7 | A41W1 | 1008 | J6428-07 | Intact |
| 8 | A41W2 | 1009 | J6428-08 | Intact |
| 9 | A41W2MS | 1009 | J6428-09 | Intact |
| 10 | A41W2MSD | 1009 | J6428-10 | Intact |
| 11 | A41W3 | 1010 | J6428-11 | Intact |
| 12 | A41W5 | 1012 | J6428-12 | Intact |
| 13 | A41W6 | 1013 | J6428-13 | Intact |
| 14 | A41W7 | 1014 | J6428-14 | Intact |
| 15 | A41W8 | 1015 | J6428-15 | Intact |
| 16 | A41W9 | 1016 | J6428-16 | Intact |
| 17 | A41Z3 | 1040 | J6428-17 | Intact |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |

* Contact SMO and attach record of resolution

| | |
|--------------------------------|---------------------------|
| Reviewed By <u>[Signature]</u> | Logbook No. <u>2</u> |
| Date <u>12/14/18</u> | Logbook Page No. <u>2</u> |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | | | |
|--------------|---------------------------|---------|-------|
| LAB NAME | CHEMTECH CONSULTING GROUP | | |
| LAB CODE | CHM | | |
| CONTRACT NO. | EPW14030 | | |
| CASE NO. | 48033 | SDG NO. | A41T4 |
| MA NO. | | | |
| SOW NO. | SOM02.4 | | |

All documents delivered in the complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

| | PAGE NOS. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 1. SDG Cover Page | 1 | 1 | ✓ | |
| 2. Traffic Report/Chain of Custody Record(s) | 2 | 3 | ✓ | |
| 3. Sample Log-In Sheet (DC-1) | 4 | 4 | ✓ | |
| 4. CSF Inventory Sheet (DC-2) | 5 | 11 | ✓ | |
| 5. SDG Narrative | 12 | 26 | ✓ | |

Organic Analysis

Trace Volatiles

Quality Control Summary

| | | | | |
|--|----|----|---|--|
| 6. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 7. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region) | NA | NA | ✓ | |
| 8. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 9. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 10. Internal Standard Area and Retention Summary (Form 8A-OR) | NA | NA | ✓ | |

Sample Data

| | | | | |
|---|----|----|---|--|
| 11. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 12. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 13. Raw Data for each sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | | | | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |

Standards Data (All Instruments)

| | | | | |
|---|----|----|---|--|
| 14. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 15. RICs and Quantitation Reports for all Standards | | | | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|---|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 16. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7-OR) | NA | NA | ✓ | |
| 17. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 18. Performance Check | NA | NA | ✓ | |
| 19. Blank Data | NA | NA | ✓ | |
| 20. Matrix Spike/Matrix Spike Duplicate Data (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 21. Original Preparation and analysis forms or copies of preparation and analysis logbook pages (including screening records if applicable) | NA | NA | ✓ | |
| Low-Medium Volatiles | | | | |
| Quality Control Summary | | | | |
| 22. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 23. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 24. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 25. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 26. Internal Standard Area and Retention Time Summary (Form 8A-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 27. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 28. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 29. Raw Data for Each Sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | | | | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |
| Standards Data (All Instruments) | | | | |
| 30. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 31. RICs and Quantitation Reports for all Standards | | | | |
| 32. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7A-OR) | NA | NA | ✓ | |
| 33. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 34. Performance Check | NA | NA | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 35. Blank Data | NA | NA | ✓ | |
| 36. Matrix Spike/Matrix Spike Duplicate Data (if requested by EPA Region) | NA | NA | ✓ | |
| 37. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Semivolatiles | | | | |
| Quality Control Summary | | | | |
| 38. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 39. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 40. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 41. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 42. Internal Standard Area and Retention Time Summary (Form 8A-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 43. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 44. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 45. Raw Data for Each sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | NA | NA | ✓ | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |
| GPC chromatograms (if GPC is required) | | | | |
| Standards Data (All Instruments) | | | | |
| 46. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 47. RICs and Quantitation Reports for all Standards | | | | |
| 48. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7A-OR) | NA | NA | ✓ | |
| 49. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 50. Performance Check | NA | NA | ✓ | |
| 51. Blank Data | NA | NA | ✓ | |
| 52. Matrix Spike/Matrix Spike Duplicate Data (if requested by EPA Region) | NA | NA | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 53. Raw GPC Data | NA | NA | ✓ | |
| 54. For SIM analysis (if requested), at the same sequence as listed above, except for that Form 1B-OR and TIC spectra data which are not required for SIM method. | NA | NA | ✓ | |
| 55. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Pesticides | | | | |
| Quality Control Summary | | | | |
| 56. Surrogate Recovery (Form 2C-OR) | NA | NA | ✓ | |
| 57. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR each columns) | NA | NA | ✓ | |
| 58. Laboratory Control Sample Recovery (Form 3B-OR each column) | NA | NA | ✓ | |
| 59. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 60. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 61. Raw Data for Each Sample: | | | | |
| Chromatograms (Primary Column) | | | | |
| Chromatograms (Secondary Column) | | | | |
| Quantitation Reports | | | | |
| Manual Worksheets | | | | |
| 62. For Pesticides by GC/MS Confirmation: | | | | |
| Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards) | | | | |
| Standards Data | | | | |
| 63. Initial Calibration of Single Component Analytes (Form 6B-OR and 6C-OR) | NA | NA | ✓ | |
| 64. Initial Calibration of Multicomponent Analytes (Form 6D-OR and 6E-OR) | NA | NA | ✓ | |
| 65. Analyte Resolution Summary (Form 6G-OR) | NA | NA | ✓ | |
| 66. Pesticide Performance Evaluation Mixture Calibration Verification Summary (Form 7B-OR) | NA | NA | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET


| | PAGE NOS. | | CHECK | |
|--|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 67. Continuing Calibration Verification Summary (Form 7C-OR) | NA | NA | ✓ | |
| 68. Multicomponent Continuing Calibration Verification Summary (Form 7D-OR) | NA | NA | ✓ | |
| 69. Analytical Sequence (Form 8B-OR) | NA | NA | ✓ | |
| 70. Florisil Cartridge Check (Form 9A-OR) | NA | NA | ✓ | |
| 71. GPC Calibration Verification (Form 9B-OR) | NA | NA | ✓ | |
| 72. Identification Summary for Single Component Analytes (Form 10A-OR) | NA | NA | ✓ | |
| 73. Identification Summary for Multicomponent Analytes (Form 10B-OR) | | | | |
| 74. Chromatograms and Quantitation Reports: A printout of Retention Times and corresponding peak areas or peak heights | NA | NA | ✓ | |
| Quality Control Data | | | | |
| 75. Blank Data | NA | NA | ✓ | |
| 76. Matrix Spike/Matrix Spike Duplicate Data | NA | NA | ✓ | |
| 77. Laboratory Control Sample | NA | NA | ✓ | |
| 78. Raw GPC Data | NA | NA | ✓ | |
| 79. Raw Florisil Data | NA | NA | ✓ | |
| 80. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Aroclor Data | | | | |
| Quality Control Summary | | | | |
| 81. Surrogate Recovery (Form 2C-OR) | 27 | 28 | ✓ | |
| 82. Matrix Spike/Matrix Spike Duplicate Summary (Form 3A-OR) | 29 | 30 | ✓ | |
| 83. Laboratory Control Sample Recovery (Form 3B-OR for each column) | 31 | 31 | ✓ | |
| 84. Method Blank Summary (Form 4-OR) | 32 | 33 | ✓ | |
| Sample Data | | | | |
| 85. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | 34 | 535 | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|---|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 86. Raw Data for Each Sample: | NA | NA | ✓ | |
| Chromatograms (Primary Column) | NA | NA | ✓ | |
| Chromatograms (Secondary Column) | NA | NA | ✓ | |
| Quantitation Reports | NA | NA | ✓ | |
| Manual Worksheets | NA | NA | ✓ | |
| 87. For Aroclors by GC/MS Confirmation: | NA | NA | ✓ | |
| Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards) | NA | NA | ✓ | |
| Standards Data | | | | |
| 88. Initial Calibration of Multicomponent Analytes (Form 6D-OR, Form 6E-OR, and Form 6F-OR) | 536 | 545 | ✓ | |
| 89. Multicomponent Continuing Calibration Verification Summary (Form 7D-OR) | 546 | 571 | ✓ | |
| 90. Analytical Sequence (Form 8B-OR) | 572 | 585 | ✓ | |
| 91. Identification Summary for Multicomponent Analytes (Form 10B-OR) | 586 | 624 | ✓ | |
| 92. Chromatograms and data system printouts: | 625 | 727 | ✓ | |
| A printout of Retention Times and corresponding peak areas or peak heights | | | | |
| Quality Control Data | | | | |
| 93. Blank Data | 728 | 769 | ✓ | |
| 94. Matrix Spike/Matrix Spike Duplicate Data | 770 | 777 | ✓ | |
| 95. Laboratory Control Sample (LCS) Data | 778 | 781 | ✓ | |
| 96. Raw GPC Data (if performed) | NA | NA | ✓ | |
| 97. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including Percent Solid Determinations logs and screening records if applicable) | 782 | 851 | ✓ | |
| Additional | | | | |
| 98. EPA Shipping/Receiving Documents Airbills (No. of shipments NA) | NA | NA | ✓ | |
| Sample Tags | NA | NA | ✓ | |
| Sample Log-In Sheet (Lab) | 852 | 853 | ✓ | |

FORM DC-2
 FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|---|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 99. Misc. Shipping/Receiving Records (list all individual records) Communication Logs | NA | NA | ✓ | |
| 100. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list) | 854 | 854 | ✓ | |
| 101. PE/PT Instruction Forms | 855 | 856 | ✓ | |
| 102. Other Records (describe or list) Communication Log | NA | NA | ✓ | |
| 103. Comments | | | | |

Completed by:  (Signature) Nimisha Pandya SA/oe (Printed Name/Title) 01/03/19 (Date)
 (CLP Lab)

Audited by: _____ (Signature) _____ (Printed Name/Title) _____ (Date)
 (EPA)

SDG NARRATIVE**LAB NAME: CHEMTECH CONSULTING GROUP****CASE: 48033****SDG: A41T4****CONTRACT: EPW14030****LAB CODE: CHM****CHEMTECH PROJECT: J6428****MODIFICATION REF. NUMBER: NA**

| Sample ID | EPA Sample ID | pH |
|------------------|----------------------|-----------|
| J6428-01 | A41T4 | |
| J6428-02 | A41T5 | |
| J6428-02DL | A41T5DL | |
| J6428-02DL2 | A41T5DL2 | |
| J6428-03 | A41T7 | |
| J6428-04 | A41T8 | |
| J6428-04DL | A41T8DL | |
| J6428-04DL2 | A41T8DL2 | |
| J6428-05 | A41T9 | |
| J6428-05DL | A41T9DL | |
| J6428-05DL2 | A41T9DL2 | |
| J6428-06 | A41W0 | |
| J6428-06DL | A41W0DL | |
| J6428-07 | A41W1 | |
| J6428-07DL | A41W1DL | |
| J6428-08 | A41W2 | |
| J6428-08DL | A41W2DL | |
| J6428-08DL2 | A41W2DL2 | |
| J6428-09MS | A41W2MS | |
| J6428-10MSD | A41W2MSD | |
| J6428-11 | A41W3 | |
| J6428-11DL | A41W3DL | |
| J6428-11DL2 | A41W3DL2 | |
| J6428-12 | A41W5 | |
| J6428-12DL | A41W5DL | |
| J6428-12DL2 | A41W5DL2 | |
| J6428-13 | A41W6 | |
| J6428-13DL | A41W6DL | |
| J6428-14 | A41W7 | |

| | | |
|-------------|----------|--|
| J6428-14DL | A41W7DL | |
| J6428-14DL2 | A41W7DL2 | |
| J6428-15 | A41W8 | |
| J6428-15DL | A41W8DL | |
| J6428-15DL2 | A41W8DL2 | |
| J6428-16 | A41W9 | |
| J6428-16DL | A41W9DL | |
| J6428-17 | A41Z3 | |
| J6428-17DL | A41Z3DL | |
| J6428-17DL2 | A41Z3DL2 | |

17 Soil samples were delivered to the laboratory intact on 12/14/2018.

Test requested on the Chain of Custody was Aroclor by Method SOM02.4.

Sample Tags were not received with the samples.

The temperature of the samples was measured using an I R Gun. The samples temperature was 3.1 degrees Celsius.

Shipping Discrepancies and/or QC issues:

Issue 1: Sample tags were not received with samples at the laboratory. Sample tag numbers may or may not be listed on the TR/COC.

Resolution 1: In accordance with previous direction from Region 1, the laboratory will note the issue in the SDG Narrative, and proceed with the analysis of the sample. The Resolution will be applied to all samples received for this Case.

Aroclors:

The analyses were performed on instrument GCECD_R. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.

Samples were analyzed on a single injection dual column system. To distinguish the second column analysis from the first column a -2 suffix was added to the file id on the form 8 and form 1. This refers to forms where both columns are reported. Form 1s for the IBLK, MS, MSD and ALCS have the -2 on the form as per the method section 3.3.7.1 foot notes.

Aroclor sample were extracted by Method SOM02.4 on 12/16/2018 and analyzed on 12/28,29/2018. All the samples were subjected to a Sulfuric acid cleanup. The samples were extracted and analyzed within contractual holding time.

The Surrogate recoveries met the acceptable criteria except for;

A41T5DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
A41T8 [Decachlorobiphenyl(2) - 805%],
A41T8DL [Decachlorobiphenyl(2) - 740%],
A41T8DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
A41T9 [Decachlorobiphenyl(2) - 774%],
A41T9DL [Decachlorobiphenyl(1) - 179%, Decachlorobiphenyl(2) - 651%],
A41T9DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
A41W0 [Decachlorobiphenyl(1) - 4206%],
A41W2DL2 [Decachlorobiphenyl(1) - 246%, Tetrachloro-m-xylene(1) - 153%, Tetrachloro-m-xylene(2) - 193%],
A41W3DL2 [Decachlorobiphenyl(1) - 199%],
A41W5DL [Decachlorobiphenyl(1) - 163%, Tetrachloro-m-xylene(2) - 188%], A41W5DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],
A41W7DL2 [Decachlorobiphenyl(1) - 213%, Decachlorobiphenyl(2) - 165%, Tetrachloro-m-xylene(1) - 185%, Tetrachloro-m-xylene(2) - 255%],
A41W8 [Decachlorobiphenyl(2) - 195%],
A41W8DL [Decachlorobiphenyl(2) - 184%],
A41W8DL2 [Decachlorobiphenyl(1) - 236%, Decachlorobiphenyl(2) - 270%, Tetrachloro-m-xylene(1) - 168%, Tetrachloro-m-xylene(2) - 193%],
A41W9DL [Decachlorobiphenyl(1) - 426%],
A41Z3DL2 [Tetrachloro-m-xylene(2) - 160%].

The SOW allows one surrogate to fail to meet the criteria per column. (Section 11.3.6 of Exhibit D Aroclor Analysis). No further corrective action was taken.

A41W2MS/MSD did not meet the requirements in either column. No corrective action is required for failure to meet the MS/MSD criteria by the SOW. (Section 12.2.5.5 of Exhibit D Aroclor Analysis).

The RPD met the requirements except for AR1260 on both columns. No corrective action is required for failure to meet the MS/MSD criteria by the SOW.

The Retention Times met requirements.

The Laboratory Control Sample met requirements.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuing Calibrations met the requirements.

Samples A41T5, A41T5DL, A41T8, A41T8DL, A41T9, A41T9DL, A41W0, A41W1, A41W2, A41W2DL, A41W3, A41W3DL, A41W5, A41W5DL, A41W6, A41W7, A41W7DL, A41W8, A41W8DL, A41W9, A41Z3 and A41Z3DL were diluted due to the high concentration of AR1260, AR1254 and AR1248.

Samples A41T7, A41T8, A1T8DL2, A41T9, A41T9, A41W22MS, A41W2MSD, failed to meet the %D for the results between the two columns criteria.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

Calculation for Concentration in Soil samples:

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)}$$

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vt = Volume of the concentrated extract in uL

Vi = Volume of extract injected (uL). (If a single injection is made onto two columns, use ½ the volume in the syringe as the volume injected onto each column).

Ws = Weight of sample extracted (g).

D = % dry weight or $\frac{100 - \% \text{Moisture}}{100}$

GPC = $\frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, GPC=1)

DF = Dilution Factor

Example of AR1260 calculation for Peak 1

Calibration factor Peak 1 100ppb ISTD= $\frac{\text{peak area}}{\text{Mass injected ng}}$
Column 2

$$= \frac{25538159}{0.100}$$

$$= 255381590 \text{ calibration factor for Peak 1 100ppb AR1254}$$

$$\text{Average of 5 peaks} = 214972196$$

Sample A41T7

Ax = 380000000

CF = 214972196

Vt = 10000

Vi = 1.0

Ws = 30.1

D = 0.785
GPC = 1.0
DF = 1.0

$$\begin{aligned} \text{Concentration ug/Kg (Dry weight basis)} &= \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)} \\ &= \frac{(380000000)(10000)(1.0)(1.0)}{(214972196)(1.0)(30.1)(0.785)} \end{aligned}$$

Peak 1 = 748.1095

Average of 5 peaks = 610.0117

Reported results = 610 ug/kg

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

Signature  Name: Mildred V. Reyes

Date: 01/03/19 Title: Document Control Officer



Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | PR121818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | pr122818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|--------------------------|---------------|------------------------|---|
| AIBLK51/ AIBLK51 | PR035050.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:02:28 AM | Sohil | 12/29/2018 12:17:26 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660334 | PR035051.D | AR-1260-2 #2 | Ankita | 1/2/2019 8:44:44 AM | Sohil | 1/2/2019 8:45:02 | Peak Integrated by Software incorrectly |
| AR1248CCC400 / AR1248334 | PR035052.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:02:29 AM | Sohil | 12/29/2018 12:17:28 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254334 | PR035053.D | AR-1254-1 | somina | 12/29/2018 8:02:32 AM | Sohil | 12/29/2018 12:17:28 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254334 | PR035053.D | AR-1254-2 #2 | somina | 12/29/2018 8:02:32 AM | Sohil | 12/29/2018 12:17:28 | Peak Integrated by Software incorrectly |
| J6428-05/ A41T9 | PR035054.D | AR-1248-1 | somina | 12/29/2018 8:02:34 AM | Sohil | 12/29/2018 12:17:29 | Peak Integrated by Software incorrectly |
| J6428-05/ A41T9 | PR035054.D | AR-1248-1 #2 | somina | 12/29/2018 8:02:34 AM | Sohil | 12/29/2018 12:17:29 | Peak Integrated by Software incorrectly |
| J6428-05/ A41T9 | PR035054.D | AR-1248-2 | somina | 12/29/2018 8:02:34 AM | Sohil | 12/29/2018 12:17:29 | Peak Integrated by Software incorrectly |
| J6428-05/ A41T9 | PR035054.D | AR-1248-3 | somina | 12/29/2018 8:02:34 AM | Sohil | 12/29/2018 12:17:29 | Peak Integrated by Software incorrectly |
| J6428-05/ A41T9 | PR035054.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:02:34 AM | Sohil | 12/29/2018 12:17:29 | Peak Integrated by Software incorrectly |
| J6428-06/ A41W0 | PR035055.D | AR-1260-1 | somina | 12/29/2018 8:02:36 AM | Sohil | 12/29/2018 12:17:31 | Peak Integrated by Software incorrectly |
| J6428-06/ A41W0 | PR035055.D | AR-1260-2 | somina | 12/29/2018 8:02:36 AM | Sohil | 12/29/2018 12:17:31 | Peak Integrated by Software incorrectly |
| J6428-06/ A41W0 | PR035055.D | AR-1260-4 | somina | 12/29/2018 8:02:36 AM | Sohil | 12/29/2018 12:17:31 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | pr122818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|----------------|------------|-------------------------|-----------|-----------------------|---------------|---------------------|---|
| J6428-06/A41W0 | PR035055.D | Decachlorobiphenyl | somina | 12/29/2018 8:02:36 AM | Sohil | 12/29/2018 12:17:31 | Peak Integrated by Software incorrectly |
| J6428-06/A41W0 | PR035055.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:02:36 AM | Sohil | 12/29/2018 12:17:31 | Peak Integrated by Software incorrectly |
| J6428-11/A41W3 | PR035058.D | AR-1248-1 | somina | 12/29/2018 8:02:38 AM | Sohil | 12/29/2018 12:17:32 | Peak Integrated by Software incorrectly |
| J6428-11/A41W3 | PR035058.D | AR-1248-1 #2 | somina | 12/29/2018 8:02:38 AM | Sohil | 12/29/2018 12:17:32 | Peak Integrated by Software incorrectly |
| J6428-11/A41W3 | PR035058.D | AR-1248-2 | somina | 12/29/2018 8:02:38 AM | Sohil | 12/29/2018 12:17:32 | Peak Integrated by Software incorrectly |
| J6428-11/A41W3 | PR035058.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:02:38 AM | Sohil | 12/29/2018 12:17:32 | Peak Integrated by Software incorrectly |
| J6428-11/A41W3 | PR035058.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:02:38 AM | Sohil | 12/29/2018 12:17:32 | Peak Integrated by Software incorrectly |
| J6428-15/A41W8 | PR035061.D | AR-1248-1 #2 | somina | 12/29/2018 8:02:39 AM | Sohil | 12/29/2018 12:17:33 | Peak Integrated by Software incorrectly |
| J6428-16/A41W9 | PR035062.D | AR-1248-1 #2 | somina | 12/29/2018 8:02:41 AM | Sohil | 12/29/2018 12:17:34 | Peak Integrated by Software incorrectly |
| J6428-16/A41W9 | PR035062.D | AR-1248-2 | somina | 12/29/2018 8:02:41 AM | Sohil | 12/29/2018 12:17:34 | Peak Integrated by Software incorrectly |
| J6428-16/A41W9 | PR035062.D | AR-1260-4 | somina | 12/29/2018 8:02:41 AM | Sohil | 12/29/2018 12:17:34 | Peak Integrated by Software incorrectly |
| J6428-16/A41W9 | PR035062.D | AR-1260-5 | somina | 12/29/2018 8:02:41 AM | Sohil | 12/29/2018 12:17:34 | Peak Integrated by Software incorrectly |
| J6428-16/A41W9 | PR035062.D | Decachlorobiphenyl #2 | somina | 12/29/2018 8:02:41 AM | Sohil | 12/29/2018 12:17:34 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | pr122818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|--------------------------|------------|----------------------|-----------|--------------------------|---------------|------------------------|---|
| J6428-02DL/ A41T5DL | PR035064.D | AR-1248-1 #2 | somina | 12/29/2018 8:02:44 AM | Sohil | 12/29/2018 12:17:36 | Peak Integrated by Software incorrectly |
| J6428-02DL/ A41T5DL | PR035064.D | AR-1248-4 #2 | somina | 12/29/2018 8:02:44 AM | Sohil | 12/29/2018 12:17:36 | Peak Integrated by Software incorrectly |
| J6428-02DL/ A41T5DL | PR035064.D | Decachlorobiphenyl | somina | 12/29/2018 8:02:44 AM | Sohil | 12/29/2018 12:17:36 | Peak Integrated by Software incorrectly |
| J6428-02DL/ A41T5DL | PR035064.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:02:44 AM | Sohil | 12/29/2018 12:17:36 | Peak Integrated by Software incorrectly |
| J6428-02DL2/ A41T5DL2 | PR035065.D | AR-1248-1 #2 | somina | 12/29/2018 8:02:46 AM | Sohil | 12/29/2018 12:17:37 | Peak Integrated by Software incorrectly |
| J6428-02DL2/ A41T5DL2 | PR035065.D | AR-1260-1 | somina | 12/29/2018 8:02:46 AM | Sohil | 12/29/2018 12:17:37 | Peak Integrated by Software incorrectly |
| J6428-02DL2/ A41T5DL2 | PR035065.D | AR-1260-4 | somina | 12/29/2018 8:02:46 AM | Sohil | 12/29/2018 12:17:37 | Peak Integrated by Software incorrectly |
| J6428-04DL/ A41T8DL | PR035067.D | AR-1248-1 #2 | somina | 12/29/2018 8:03:11 AM | Sohil | 12/29/2018 12:17:39 | Peak Integrated by Software incorrectly |
| J6428-04DL/ A41T8DL | PR035067.D | AR-1248-4 #2 | somina | 12/29/2018 8:03:11 AM | Sohil | 12/29/2018 12:17:39 | Peak Integrated by Software incorrectly |
| J6428-17/ A41Z3 | PR035073.D | AR-1254-2 #2 | somina | 12/29/2018 8:03:14 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17/ A41Z3 | PR035073.D | AR-1254-5 #2 | somina | 12/29/2018 8:03:14 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17/ A41Z3 | PR035073.D | AR-1260-1 | somina | 12/29/2018 8:03:14 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17/ A41Z3 | PR035073.D | AR-1260-1 #2 | somina | 12/29/2018 8:03:14 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | pr122818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|----------------------|-----------|--------------------------|---------------|------------------------|---|
| J6428-17/ A41Z3 | PR035073.D | AR-1260-4 | somina | 12/29/2018 8:03:14 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17/ A41Z3 | PR035073.D | AR-1260-5 | somina | 12/29/2018 8:03:14 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17DL/ A41Z3DL | PR035076.D | AR-1254-1 | somina | 12/29/2018 8:03:15 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17DL/ A41Z3DL | PR035076.D | AR-1254-2 #2 | somina | 12/29/2018 8:03:15 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17DL/ A41Z3DL | PR035076.D | AR-1254-4 | somina | 12/29/2018 8:03:15 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17DL/ A41Z3DL | PR035076.D | AR-1260-1 #2 | somina | 12/29/2018 8:03:15 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17DL/ A41Z3DL | PR035076.D | AR-1260-5 | somina | 12/29/2018 8:03:15 AM | Sohil | 12/29/2018 12:17:42 | Peak Integrated by Software incorrectly |
| J6428-17DL2/ A41Z3DL2 | PR035077.D | AR-1254-2 #2 | somina | 12/29/2018 8:03:16 AM | Sohil | 12/29/2018 12:17:44 | Peak Integrated by Software incorrectly |
| J6428-17DL2/ A41Z3DL2 | PR035077.D | AR-1260-1 #2 | somina | 12/29/2018 8:03:16 AM | Sohil | 12/29/2018 12:17:44 | Peak Integrated by Software incorrectly |
| J6428-17DL2/ A41Z3DL2 | PR035077.D | AR-1260-5 | somina | 12/29/2018 8:03:16 AM | Sohil | 12/29/2018 12:17:44 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254336 | PR035097.D | AR-1254-1 | somina | 12/29/2018 8:07:41 AM | Sohil | 12/29/2018 12:18:19 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254336 | PR035097.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:07:41 AM | Sohil | 12/29/2018 12:18:19 | Peak Integrated by Software incorrectly |
| J6428-14/ A41W7 | PR035098.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:07:42 AM | Sohil | 12/29/2018 12:18:21 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | pr122818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|----------------------|------------|----------------------|-----------|-----------------------|---------------|---------------------|---|
| J6428-03/A41T7 | PR035099.D | AR-1248-1 | Ankita | 1/2/2019 8:44:53 AM | Sohil | 1/2/2019 8:45:13 | Peak Integrated by Software incorrectly |
| J6428-03/A41T7 | PR035099.D | AR-1248-1 #2 | Ankita | 1/2/2019 8:44:53 AM | Sohil | 1/2/2019 8:45:13 | Peak Integrated by Software incorrectly |
| J6428-03/A41T7 | PR035099.D | AR-1248-2 | Ankita | 1/2/2019 8:44:53 AM | Sohil | 1/2/2019 8:45:13 | Peak Integrated by Software incorrectly |
| J6428-03/A41T7 | PR035099.D | AR-1248-2 #2 | Ankita | 1/2/2019 8:44:53 AM | Sohil | 1/2/2019 8:45:13 | Peak Integrated by Software incorrectly |
| J6428-03/A41T7 | PR035099.D | AR-1248-3 #2 | Ankita | 1/2/2019 8:44:53 AM | Sohil | 1/2/2019 8:45:13 | Peak Integrated by Software incorrectly |
| J6428-03/A41T7 | PR035099.D | AR-1254-4 | Ankita | 1/2/2019 8:44:53 AM | Sohil | 1/2/2019 8:45:13 | Peak Integrated by Software incorrectly |
| J6428-03/A41T7 | PR035099.D | AR-1260-1 | Ankita | 1/2/2019 8:44:53 AM | Sohil | 1/2/2019 8:45:13 | Peak Integrated by Software incorrectly |
| J6428-03/A41T7 | PR035099.D | AR-1260-4 | Ankita | 1/2/2019 8:44:53 AM | Sohil | 1/2/2019 8:45:13 | Peak Integrated by Software incorrectly |
| J6428-02/A41T5 | PR035101.D | AR-1248-1 #2 | somina | 12/29/2018 8:07:47 AM | Sohil | 12/29/2018 12:18:27 | Peak Integrated by Software incorrectly |
| J6428-02/A41T5 | PR035101.D | AR-1248-2 | somina | 12/29/2018 8:07:47 AM | Sohil | 12/29/2018 12:18:27 | Peak Integrated by Software incorrectly |
| J6428-02/A41T5 | PR035101.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:07:47 AM | Sohil | 12/29/2018 12:18:27 | Peak Integrated by Software incorrectly |
| J6428-05DL/A41T9DL | PR035104.D | AR-1248-1 #2 | somina | 12/29/2018 8:07:48 AM | Sohil | 12/29/2018 12:18:28 | Peak Integrated by Software incorrectly |
| J6428-05DL2/A41T9DL2 | PR035105.D | AR-1248-1 #2 | somina | 12/29/2018 8:07:50 AM | Sohil | 12/29/2018 12:18:30 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | pr122818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|--------------------------|------------|-------------------------|-----------|--------------------------|---------------|------------------------|---|
| J6428-05DL2/ A41T9DL2 | PR035105.D | AR-1260-4 | somina | 12/29/2018 8:07:50 AM | Sohil | 12/29/2018 12:18:30 | Peak Integrated by Software incorrectly |
| J6428-08DL/ A41W2DL | PR035109.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:08:12 AM | Sohil | 12/29/2018 12:18:36 | Peak Integrated by Software incorrectly |
| J6428-08DL/ A41W2DL | PR035109.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:08:12 AM | Sohil | 12/29/2018 12:18:36 | Peak Integrated by Software incorrectly |
| J6428-08DL2/ A41W2DL2 | PR035110.D | AR-1260-2 #2 | somina | 12/29/2018 8:08:13 AM | Sohil | 12/29/2018 12:18:38 | Peak Integrated by Software incorrectly |
| J6428-11DL/ A41W3DL | PR035111.D | AR-1248-1 #2 | somina | 12/29/2018 8:08:15 AM | Sohil | 12/29/2018 12:18:40 | Peak Integrated by Software incorrectly |
| J6428-11DL/ A41W3DL | PR035111.D | AR-1248-4 #2 | somina | 12/29/2018 8:08:15 AM | Sohil | 12/29/2018 12:18:40 | Peak Integrated by Software incorrectly |
| J6428-11DL/ A41W3DL | PR035111.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:08:15 AM | Sohil | 12/29/2018 12:18:40 | Peak Integrated by Software incorrectly |
| J6428-11DL2/ A41W3DL2 | PR035112.D | AR-1248-1 #2 | somina | 12/29/2018 8:08:16 AM | Sohil | 12/29/2018 12:18:41 | Peak Integrated by Software incorrectly |
| J6428-11DL2/ A41W3DL2 | PR035112.D | AR-1248-4 #2 | somina | 12/29/2018 8:08:16 AM | Sohil | 12/29/2018 12:18:41 | Peak Integrated by Software incorrectly |
| J6428-11DL2/ A41W3DL2 | PR035112.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:08:16 AM | Sohil | 12/29/2018 12:18:41 | Peak Integrated by Software incorrectly |
| J6428-13DL/ A41W6DL | PR035117.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:08:22 AM | Sohil | 12/29/2018 12:18:50 | Peak Integrated by Software incorrectly |
| J6428-13DL/ A41W6DL | PR035117.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:08:22 AM | Sohil | 12/29/2018 12:18:50 | Peak Integrated by Software incorrectly |
| J6428-14DL/ A41W7DL | PR035118.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:08:23 AM | Sohil | 12/29/2018 12:18:52 | Peak Integrated by Software incorrectly |

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | pr122818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|--------------------------|---------------|------------------------|---|
| J6428-15DL/ A41W8DL | PR035120.D | AR-1248-1 #2 | somina | 12/29/2018 8:08:42 AM | Sohil | 12/29/2018 12:19:08 | Peak Integrated by Software incorrectly |
| J6428-15DL/ A41W8DL | PR035120.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:08:42 AM | Sohil | 12/29/2018 12:19:08 | Peak Integrated by Software incorrectly |
| J6428-15DL2/ A41W8DL2 | PR035121.D | AR-1248-1 #2 | somina | 12/29/2018 8:08:43 AM | Sohil | 12/29/2018 12:19:11 | Peak Integrated by Software incorrectly |
| J6428-16DL/ A41W9DL | PR035123.D | AR-1248-2 | somina | 12/29/2018 8:08:44 AM | Sohil | 12/29/2018 12:19:13 | Peak Integrated by Software incorrectly |
| J6428-16DL/ A41W9DL | PR035123.D | AR-1248-3 | somina | 12/29/2018 8:08:44 AM | Sohil | 12/29/2018 12:19:13 | Peak Integrated by Software incorrectly |
| J6428-16DL/ A41W9DL | PR035123.D | AR-1248-5 | somina | 12/29/2018 8:08:44 AM | Sohil | 12/29/2018 12:19:13 | Peak Integrated by Software incorrectly |
| J6428-16DL/ A41W9DL | PR035123.D | AR-1260-4 | somina | 12/29/2018 8:08:44 AM | Sohil | 12/29/2018 12:19:13 | Peak Integrated by Software incorrectly |
| J6428-16DL/ A41W9DL | PR035123.D | AR-1260-5 | somina | 12/29/2018 8:08:44 AM | Sohil | 12/29/2018 12:19:13 | Peak Integrated by Software incorrectly |
| J6428-16DL/ A41W9DL | PR035123.D | AR-1260-5 #2 | somina | 12/29/2018 8:08:44 AM | Sohil | 12/29/2018 12:19:13 | Peak Integrated by Software incorrectly |
| J6428-16DL/ A41W9DL | PR035123.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:08:44 AM | Sohil | 12/29/2018 12:19:13 | Peak Integrated by Software incorrectly |
| AR1248CCC400 / AR1248337 | PR035126.D | AR-1248-4 #2 | somina | 12/29/2018 8:08:46 AM | Sohil | 12/29/2018 12:19:15 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254337 | PR035127.D | AR-1254-2 #2 | somina | 12/29/2018 8:08:47 AM | Sohil | 12/29/2018 12:19:17 | Peak Integrated by Software incorrectly |

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | PR122918 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|---------------------------|---------------|------------------------|---|
| AIBLK55/ AIBLK55 | PR035128.D | Tetrachloro-m-xylene | Sohil | 12/31/2018 10:58:11 AM | mohammad | 12/31/2018 11:10:44 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660338 | PR035129.D | AR-1016-1 #2 | Sohil | 12/31/2018 10:58:16 AM | mohammad | 12/31/2018 11:10:47 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660338 | PR035129.D | AR-1016-2 #2 | Sohil | 12/31/2018 10:58:16 AM | mohammad | 12/31/2018 11:10:47 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660338 | PR035129.D | AR-1016-5 #2 | Sohil | 12/31/2018 10:58:16 AM | mohammad | 12/31/2018 11:10:47 | Peak Integrated by Software incorrectly |
| J6428-12DL/ A41W5DL | PR035156.D | Tetrachloro-m-xylene | Sohil | 12/31/2018 10:59:32 AM | mohammad | 12/31/2018 11:11:32 | Peak Integrated by Software incorrectly |
| AIBLK56/ AIBLK56 | PR035158.D | Decachlorobiphenyl | Sohil | 12/31/2018 10:59:10 AM | mohammad | 12/31/2018 11:11:35 | Peak Integrated by Software incorrectly |
| AIBLK56/ AIBLK56 | PR035158.D | Tetrachloro-m-xylene | Sohil | 12/31/2018 10:59:10 AM | mohammad | 12/31/2018 11:11:35 | Peak Integrated by Software incorrectly |
| AIBLK56/ AIBLK56 | PR035158.D | Tetrachloro-m-xylene #2 | Sohil | 12/31/2018 10:59:10 AM | mohammad | 12/31/2018 11:11:35 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660339 | PR035159.D | AR-1016-1 #2 | Sohil | 12/31/2018 10:59:13 AM | mohammad | 12/31/2018 11:11:39 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660339 | PR035159.D | AR-1016-2 #2 | Sohil | 12/31/2018 10:59:13 AM | mohammad | 12/31/2018 11:11:39 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660339 | PR035159.D | AR-1016-5 #2 | Sohil | 12/31/2018 10:59:13 AM | mohammad | 12/31/2018 11:11:39 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660339 | PR035159.D | Decachlorobiphenyl #2 | Sohil | 12/31/2018 10:59:13 AM | mohammad | 12/31/2018 11:11:39 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660339 | PR035159.D | Tetrachloro-m-xylene | Sohil | 12/31/2018 10:59:13 AM | mohammad | 12/31/2018 11:11:39 | Peak Integrated by Software incorrectly |

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | PR122918 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|---------------------------|---------------|------------------------|---|
| AR1660CCC400 / AR1660339 | PR035159.D | Tetrachloro-m-xylene #2 | Sohil | 12/31/2018 10:59:13 AM | mohammad | 12/31/2018 11:11:39 | Peak Integrated by Software incorrectly |
| AR1248CCC400 / AR1248339 | PR035160.D | AR-1248-1 #2 | Sohil | 12/31/2018 10:59:14 AM | mohammad | 12/31/2018 11:11:43 | Peak Integrated by Software incorrectly |
| AR1248CCC400 / AR1248339 | PR035160.D | Decachlorobiphenyl #2 | Sohil | 12/31/2018 10:59:14 AM | mohammad | 12/31/2018 11:11:43 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254339 | PR035161.D | AR-1254-4 #2 | Sohil | 12/31/2018 10:59:17 AM | mohammad | 12/31/2018 11:11:49 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254339 | PR035161.D | Decachlorobiphenyl #2 | Sohil | 12/31/2018 10:59:17 AM | mohammad | 12/31/2018 11:11:49 | Peak Integrated by Software incorrectly |

FORM 2C-OR
SURROGATE RECOVERY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Matrix: Soil
 GC Column (1) : ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

| EPA SAMPLE | SUR (TCX) 1-1 %R | SUR (TCX) 1-2 %R | SUR (DCB) 2-1 %R | SUR (DCB) 2-2 %R | OTHER (1) | OTHER (2) | TOT OUT |
|------------|------------------|------------------|------------------|------------------|-----------|-----------|---------|
| A41T4 | 106 | 122 | 56 | 55 | | | 0 |
| A41T5 | 90 | 97 | 80 | 88 | | | 0 |
| A41T5DL | 76 | 87 | 89 | 85 | | | 0 |
| A41T5DL2 | 0 D | 0 D | 0 D | 0 D | | | 4 |
| A41T7 | 51 | 81 | 64 | 50 | | | 0 |
| A41T8 | 72 | 94 | 141 | 805 * | | | 1 |
| A41T8DL | 101 | 109 | 134 | 740 D | | | 1 |
| A41T8DL2 | 0 D | 0 D | 0 D | 0 D | | | 4 |
| A41T9 | 65 | 92 | 123 | 774 * | | | 1 |
| A41T9DL | 81 | 137 | 179 D | 651 D | | | 2 |
| A41T9DL2 | 0 D | 0 D | 0 D | 0 D | | | 4 |
| A41W0 | 45 | 60 | 4206 * | 41 | | | 1 |
| A41W0DL | 55 | 78 | 49 | 45 | | | 0 |
| A41W1 | 77 | 121 | 77 | 79 | | | 0 |
| A41W1DL | 104 | 132 | 133 | 83 | | | 0 |
| A41W2 | 85 | 116 | 78 | 72 | | | 0 |
| A41W2DL | 94 | 121 | 81 | 74 | | | 0 |
| A41W2DL2 | 153 D | 193 D | 246 D | 110 | | | 3 |
| A41W2MS | 76 | 101 | 80 | 64 | | | 0 |
| A41W2MSD | 74 | 98 | 71 | 62 | | | 0 |
| A41W3 | 89 | 93 | 83 | 94 | | | 0 |
| A41W3DL | 125 | 121 | 87 | 95 | | | 0 |
| A41W3DL2 | 114 | 126 | 199 D | 94 | | | 1 |
| A41W5 | 80 | 125 | 103 | 78 | | | 0 |
| A41W5DL | 146 | 188 D | 163 D | 118 | | | 2 |
| A41W5DL2 | 0 D | 0 D | 0 D | 0 D | | | 4 |
| A41W6 | 55 | 89 | 62 | 57 | | | 0 |

QC LIMITS

TCX = Tetrachloro-m-xylene

(30-150)

DCB = Decachlorobiphenyl

(30-150)

FORM 2C-OR
SURROGATE RECOVERY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Matrix: Soil
 GC Column (1) : ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

| EPA SAMPLE | SUR (TCX) 1-1 %R | SUR (TCX) 1-2 %R | SUR (DCB) 2-1 %R | SUR (DCB) 2-2 %R | OTHER (1) | OTHER (2) | TOT OUT |
|------------|------------------|------------------|------------------|------------------|-----------|-----------|---------|
| A41W6DL | 77 | 105 | 65 | 60 | | | 0 |
| A41W7 | 84 | 113 | 97 | 94 | | | 0 |
| A41W7DL | 94 | 131 | 115 | 96 | | | 0 |
| A41W7DL2 | 185 D | 255 D | 213 D | 165 D | | | 4 |
| A41W8 | 78 | 108 | 71 | 195 * | | | 1 |
| A41W8DL | 101 | 124 | 81 | 184 D | | | 1 |
| A41W8DL2 | 168 D | 193 D | 236 D | 270 D | | | 4 |
| A41W9 | 83 | 120 | 115 | 85 | | | 0 |
| A41W9DL | 90 | 117 | 426 D | 68 | | | 1 |
| A41Z3 | 102 | 112 | 79 | 77 | | | 0 |
| A41Z3DL | 103 | 113 | 79 | 77 | | | 0 |
| A41Z3DL2 | 129 | 160 D | 98 | 98 | | | 1 |
| ABLK40 | 125 | 140 | 100 | 98 | | | 0 |
| ALCS40 | 133 | 149 | 99 | 96 | | | 0 |

QC LIMITS

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

(30-150)
 (30-150)

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No .: _____ SDG No. : A41T4
 Analytical Method : ARO Level : _____
 Matrix Soil
 EPA Sample No. (Matrix Spike/Matrix Spike Duplicate): A41W2
 Instrument ID : ECD_R GC Column ZB-MR1 ID : 0.32 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/kg

| ANALYTE | SPIKE ADDED | SAMPLE CONCENTRATION | MS CONCENTRATION | MS %R # | QC |
|---------|----------------|-------------------------|---------------------|---------|-----------|
| | | | | | Limits %R |
| AR1016 | 160 | 0.0 | 640 | 394 * | 29 - 135 |
| AR1260 | 160 | 13000 | 9000 | 0 * | 29 - 135 |

| ANALYTE | SPIKE AADDED | MSD CONCENTRATION | MSD %R # | RPD | QC Limits | |
|---------|-----------------|----------------------|----------|-------|-----------|----------|
| | | | | | RPD | %R |
| AR1016 | 160 | 630 | 387 * | 6 | 15 | 29 - 135 |
| AR1260 | 160 | 8800 | 0 * | 200 * | 20 | 29 - 135 |

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No .: _____ SDG No. : A41T4
 Analytical Method : ARO Level : _____
 Matrix Soil
 EPA Sample No. (Matrix Spike/Matrix Spike Duplicate): A41W2
 Instrument ID : ECD_R GC Column ZB-MR2 ID : 0.32 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/kg

| ANALYTE | SPIKE | SAMPLE | MS | MS %R # | | QC |
|---------|-------|---------------|---------------|---------|---|-----------|
| | ADDED | CONCENTRATION | CONCENTRATION | | | Limits %R |
| AR1016 | 160 | 0.0 | 1000 | 630 | * | 29 - 135 |
| AR1260 | 160 | 14000 | 9400 | 0 | * | 29 - 135 |

| ANALYTE | SPIKE AADDDED | MSD CONCENTRATION | MSD %R # | | RPD | QC Limits | |
|---------|------------------|----------------------|----------|---|-------|-----------|----------|
| | | | | | | RPD | %R |
| AR1016 | 160 | 1000 | 618 | * | 1 | 15 | 29 - 135 |
| AR1260 | 160 | 9300 | 0 | * | 200 * | 20 | 29 - 135 |

FORM 3B-OR
 LABORATORY CONTROL
 SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS40

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No. : _____ SDG No. : A41T4
 Analytical Method: ARO
 Matrix : Soil Lab Sample ID : PB115740BS
 LCS Lot No. : PP14582 Date Extracted : 12/16/2018
 Concentration Units (ug/L,mg/L,ug/kg): ug/kg

Instrument ID (1) : ECD_R GC Column (1) : ZB-MR1 ID : 0.32 (mm)
 Date Analyzed (1) : 12/29/2018

| ANALYTE | AMOUNT ADDED | AMOUNT RECOVERED | % R | QC LIMITS |
|---------|--------------|------------------|-----|-----------|
| AR1016 | 33.33 | 48 | 144 | 50-150 |
| AR1260 | 33.33 | 45 | 135 | 50-150 |

Instrument ID (2) : ECD_R GC Column (2) : ZB-MR2 ID : 0.32 (mm)
 Date Analyzed (2) : 12/29/2018

| ANALYTE | AMOUNT ADDED | AMOUNT RECOVERED | % R | QC LIMITS |
|---------|--------------|------------------|-----|-----------|
| AR1016 | 33.33 | 49 | 147 | 50-150 |
| AR1260 | 33.33 | 43 | 128 | 50-150 |

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK40

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115740BL
 Instrument ID: ECD_R Lab File ID : PR035074.D
 Extraction Type: SOXH Date Extracted : 12/16/2018
 GC Column (1) : ZB-MR1 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 GC Column (2) : ZB-MR2 ID : 0.32 (mm) Time Analyzed : 10:17
 Heated Purge : (Y/N) _____ Cleanup(Y/N) : Y Cleanup Types : Acid

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED |
|----------------|---------------|-------------|----------------------|
| A41T9 | J6428-05 | PR035054.D | 12/28/2018 04:18 |
| A41W0 | J6428-06 | PR035055.D | 12/28/2018 04:32 |
| A41W1 | J6428-07 | PR035056.D | 12/28/2018 04:46 |
| A41W3 | J6428-11 | PR035058.D | 12/28/2018 05:15 |
| A41W5 | J6428-12 | PR035059.D | 12/28/2018 05:30 |
| A41W6 | J6428-13 | PR035060.D | 12/28/2018 05:44 |
| A41W8 | J6428-15 | PR035061.D | 12/28/2018 05:58 |
| A41W9 | J6428-16 | PR035062.D | 12/28/2018 06:13 |
| A41T5DL | J6428-02DL | PR035064.D | 12/28/2018 06:42 |
| A41T5DL2 | J6428-02DL2 | PR035065.D | 12/28/2018 06:56 |
| A41T8DL | J6428-04DL | PR035067.D | 12/28/2018 07:25 |
| A41Z3 | J6428-17 | PR035073.D | 12/28/2018 10:02 |
| A41Z3DL | J6428-17DL | PR035076.D | 12/28/2018 10:46 |
| A41Z3DL2 | J6428-17DL2 | PR035077.D | 12/28/2018 11:00 |
| A41T4 | J6428-01 | PR035078.D | 12/28/2018 11:14 |
| A41W2 | J6428-08 | PR035079.D | 12/28/2018 11:29 |
| A41W2MS | J6428-09MS | PR035080.D | 12/28/2018 11:43 |
| A41W2MSD | J6428-10MSD | PR035081.D | 12/28/2018 11:58 |
| A41W7 | J6428-14 | PR035098.D | 12/28/2018 17:25 |
| A41T7 | J6428-03 | PR035099.D | 12/28/2018 17:39 |
| A41T5 | J6428-02 | PR035101.D | 12/28/2018 18:08 |
| A41T8 | J6428-04 | PR035102.D | 12/28/2018 18:22 |
| A41T8DL2 | J6428-04DL2 | PR035103.D | 12/28/2018 18:37 |
| A41T9DL | J6428-05DL | PR035104.D | 12/28/2018 18:51 |
| A41T9DL2 | J6428-05DL2 | PR035105.D | 12/28/2018 19:06 |
| A41W1DL | J6428-07DL | PR035107.D | 12/28/2018 19:35 |
| A41W2DL | J6428-08DL | PR035109.D | 12/28/2018 20:04 |
| A41W2DL2 | J6428-08DL2 | PR035110.D | 12/28/2018 20:18 |
| A41W3DL | J6428-11DL | PR035111.D | 12/28/2018 20:32 |

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK40

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115740BL
 Instrument ID: ECD_R Lab File ID : PR035074.D
 Extraction Type: SOXH Date Extracted : 12/16/2018
 GC Column (1) : ZB-MR1 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 GC Column (2) : ZB-MR2 ID : 0.32 (mm) Time Analyzed : 20:47
 Heated Purge : (Y/N) _____ Cleanup(Y/N) : Y Cleanup Types : Acid

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED |
|----------------|---------------|-------------|----------------------|
| A41W3DL2 | J6428-11DL2 | PR035112.D | 12/28/2018 20:47 |
| A41W6DL | J6428-13DL | PR035117.D | 12/28/2018 21:59 |
| A41W7DL | J6428-14DL | PR035118.D | 12/28/2018 22:13 |
| A41W7DL2 | J6428-14DL2 | PR035119.D | 12/28/2018 22:28 |
| A41W8DL | J6428-15DL | PR035120.D | 12/28/2018 22:42 |
| A41W8DL2 | J6428-15DL2 | PR035121.D | 12/28/2018 22:57 |
| A41W9DL | J6428-16DL | PR035123.D | 12/28/2018 23:26 |
| ALCS40 | PB115740BS | PR035144.D | 12/29/2018 06:03 |
| A41W0DL | J6428-06DL | PR035155.D | 12/29/2018 09:12 |
| A41W5DL | J6428-12DL | PR035156.D | 12/29/2018 09:27 |
| A41W5DL2 | J6428-12DL2 | PR035157.D | 12/29/2018 09:42 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T4

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-01
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035078.D
 % Solids : 75.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

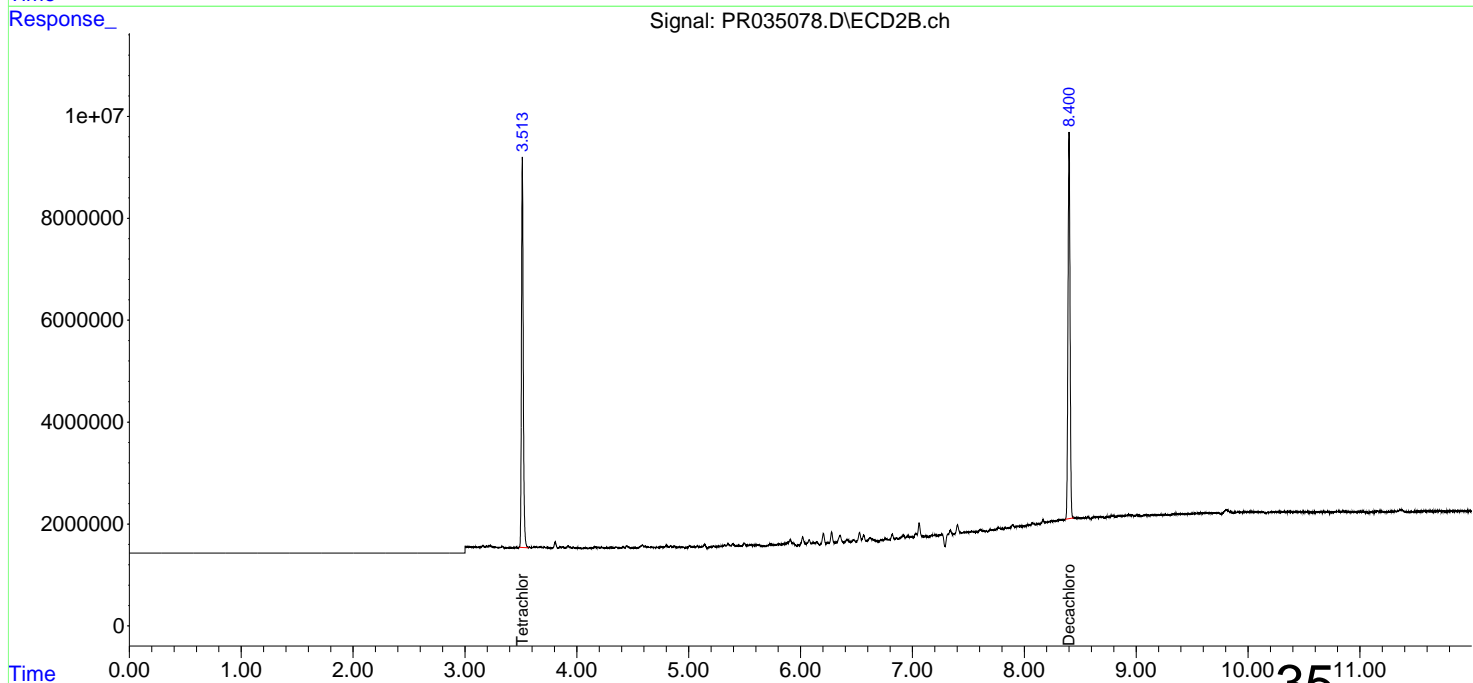
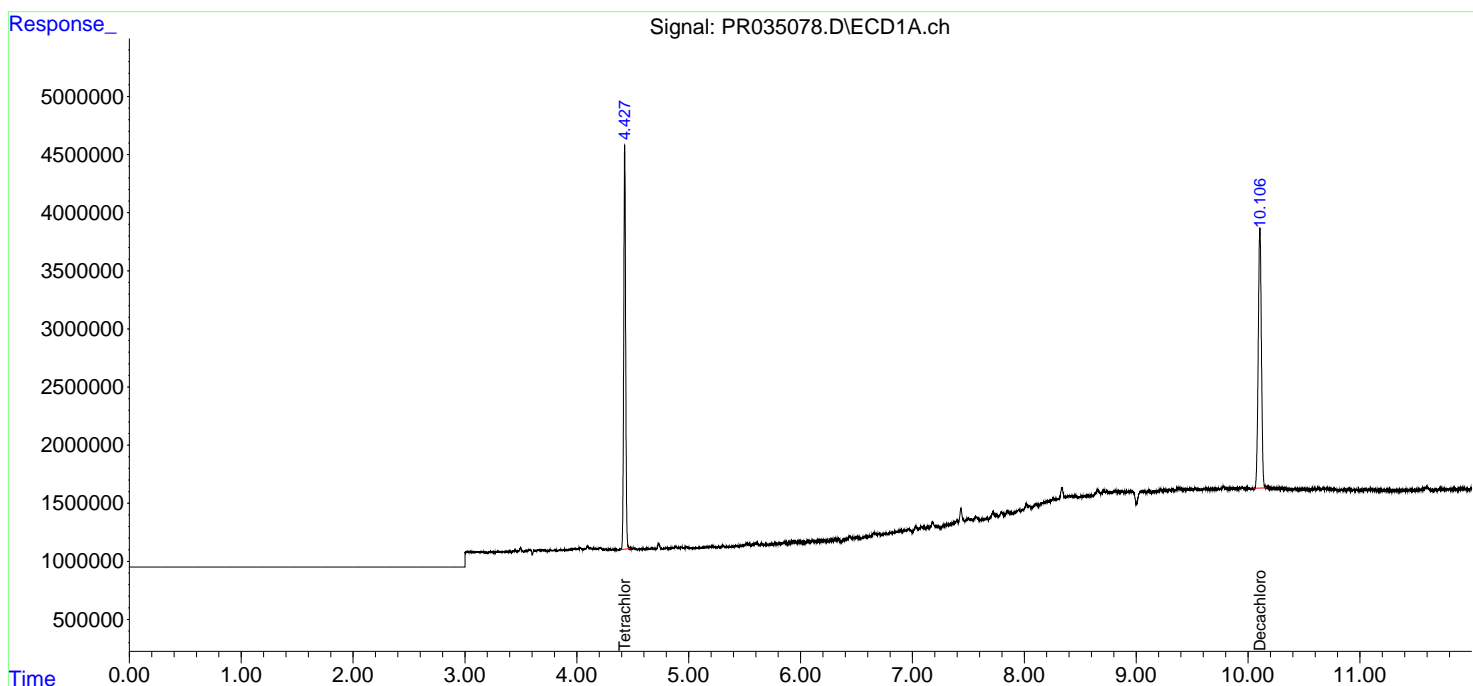
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 44 | U |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035078.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:14
 Operator : SM\SJ
 Sample : J6428-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T4

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035078.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:14
 Operator : SM\SJ
 Sample : J6428-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41T4

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 41366978 | 85354302 | 21.268 | 24.485 |
| 2) SA Decachlor... | 10.106 | 8.401 | 43890668 | 96081149 | 22.326 | 21.853 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T5

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-02
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035101.D
 % Solids : 84.8 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 39 | U |
| 11104-28-2 | Aroclor-1221 | 39 | U |
| 11141-16-5 | Aroclor-1232 | 39 | U |
| 53469-21-9 | Aroclor-1242 | 39 | U |
| 12672-29-6 | Aroclor-1248 | 3400 | E |
| 11097-69-1 | Aroclor-1254 | 39 | U |
| 11096-82-5 | Aroclor-1260 | 12000 | EC |
| 37324-23-5 | Aroclor-1262 | 39 | U |
| 11100-14-4 | Aroclor-1268 | 39 | U |

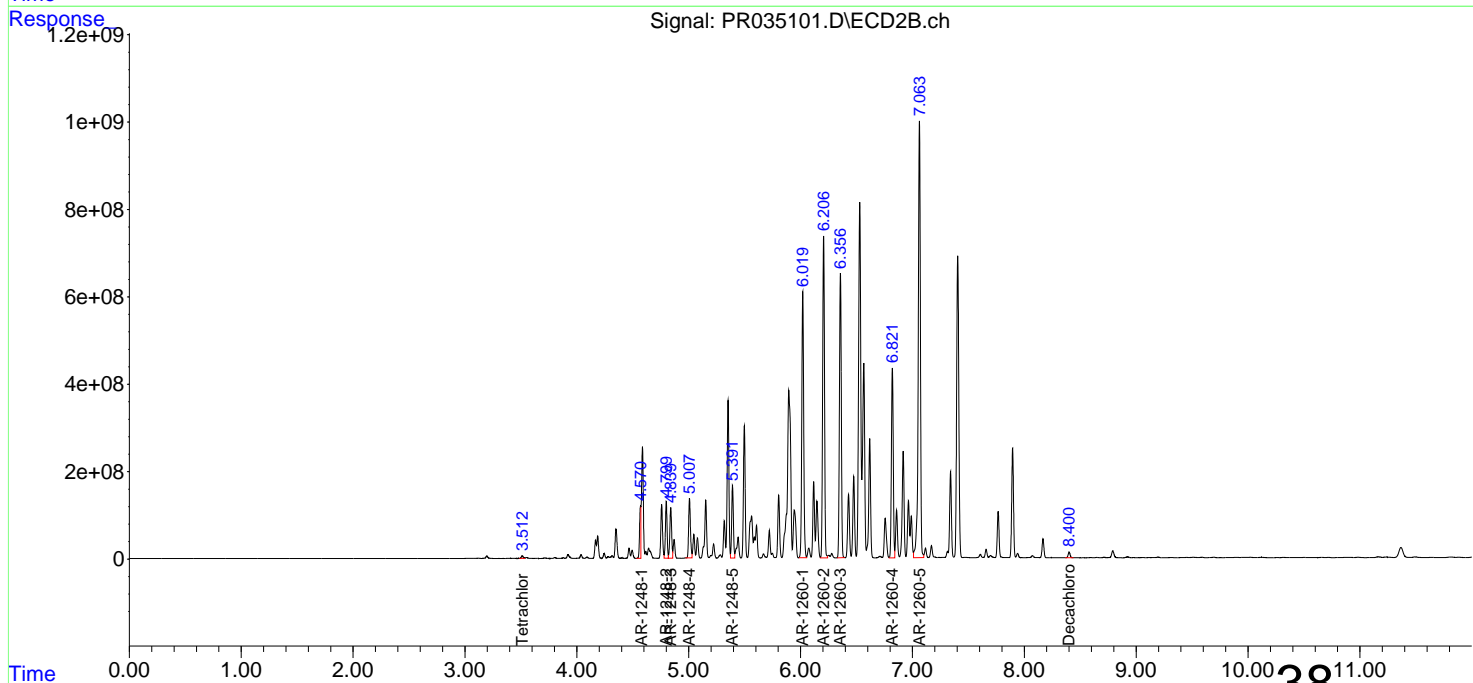
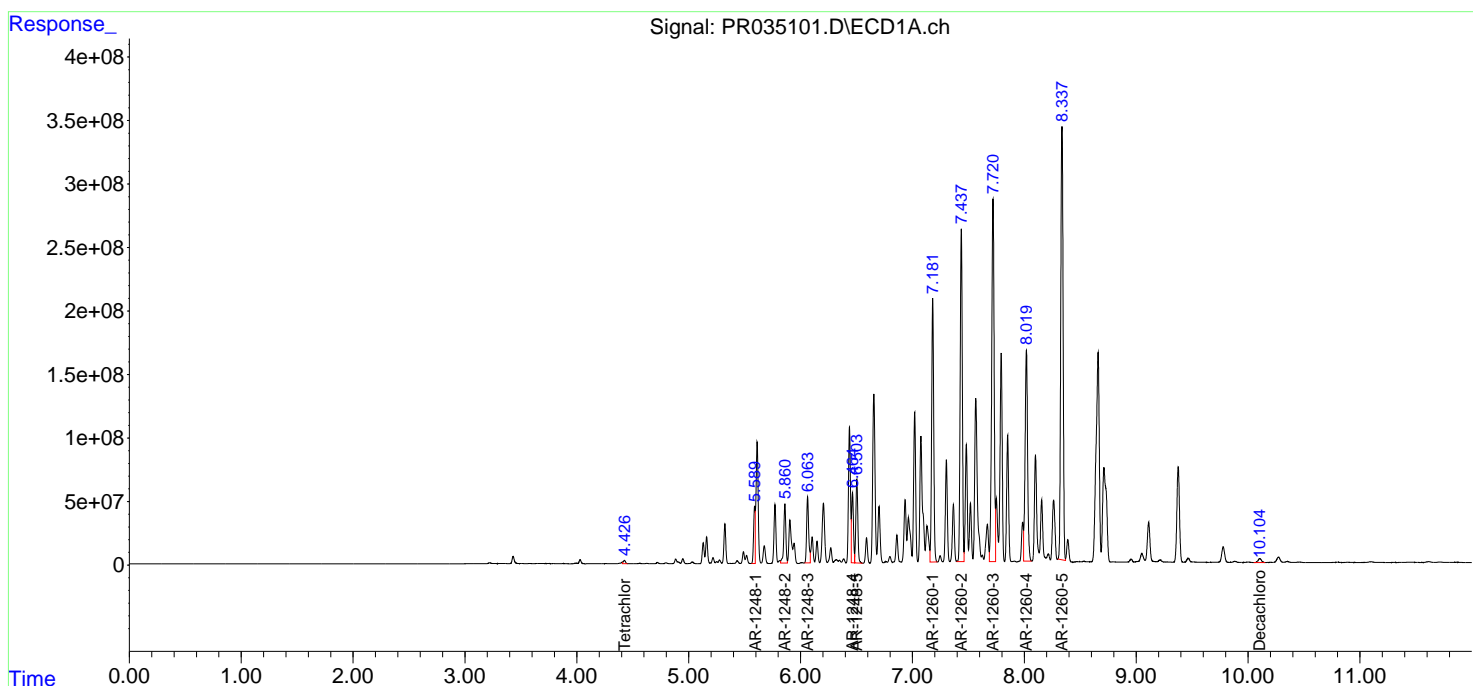
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 Data File : PR035101.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:08
 Operator : SM\SJ
 Sample : J6428-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T5

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:27 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:50:37 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035101.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:08
 Operator : SM\SJ
 Sample : J6428-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41T5

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:27 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:50:37 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 34932211 | 67461253 | 17.960m | 19.352 |
| 2) SA Decachlor... | 10.105 | 8.401 | 62908625 | 154.5E6 | 32.000 | 35.141 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.570 | 433.7E6 | 967.2E6 | 8938.245 | 9920.080m |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 595.4E6 | 1329.2E6 | 9011.099m | 10375.964 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 664.2E6 | 1302.6E6 | 8889.900 | 9869.747 |
| 24) L5 AR-1248-4 | 6.465 | 5.007 | 634.8E6 | 1523.6E6 | 7105.101 | 9260.231 # |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 816.1E6 | 1762.4E6 | 9753.705 | 10530.855 |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 2664.4E6 | 7193.4E6 | 28341.794 | 33462.158 |
| 32) L7 AR-1260-2 | 7.437 | 6.206 | 3475.1E6 | 8558.2E6 | 29931.773 | 31449.745 |
| 33) L7 AR-1260-3 | 7.721 | 6.357 | 4367.1E6 | 7613.0E6 | 31292.410 | 30668.371 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 2584.4E6 | 4996.5E6 | 29924.545 | 29221.174 |
| 35) L7 AR-1260-5 | 8.337 | 7.063 | 5004.4E6 | 13345.4E6 | 27716.710 | 27593.444 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035101.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:08
 Operator : SM\SJ
 Sample : J6428-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

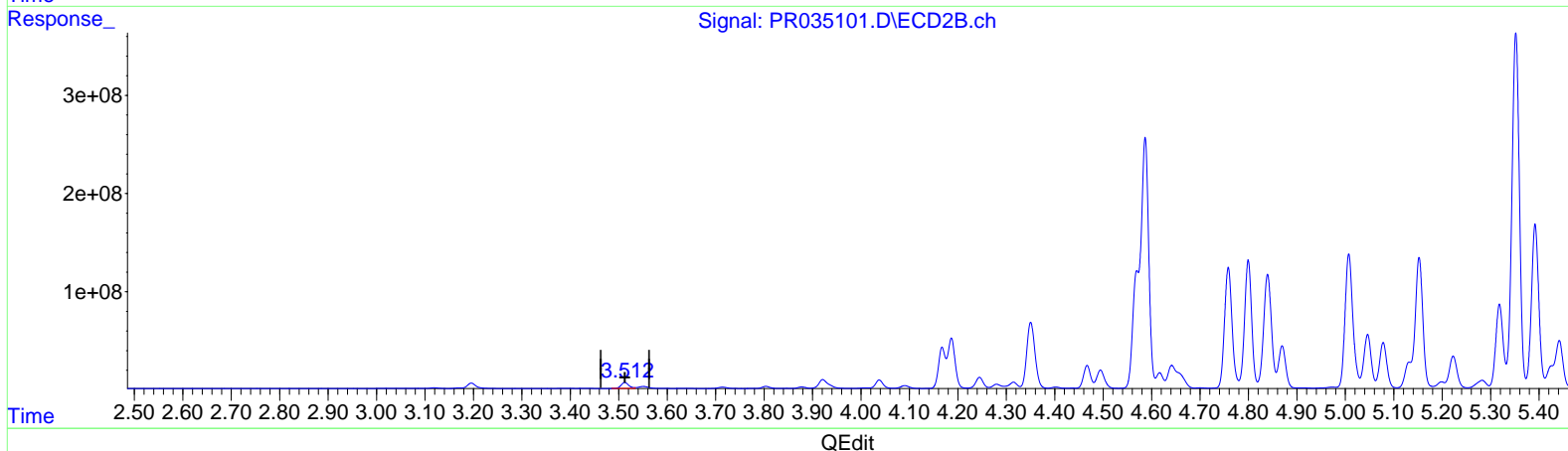
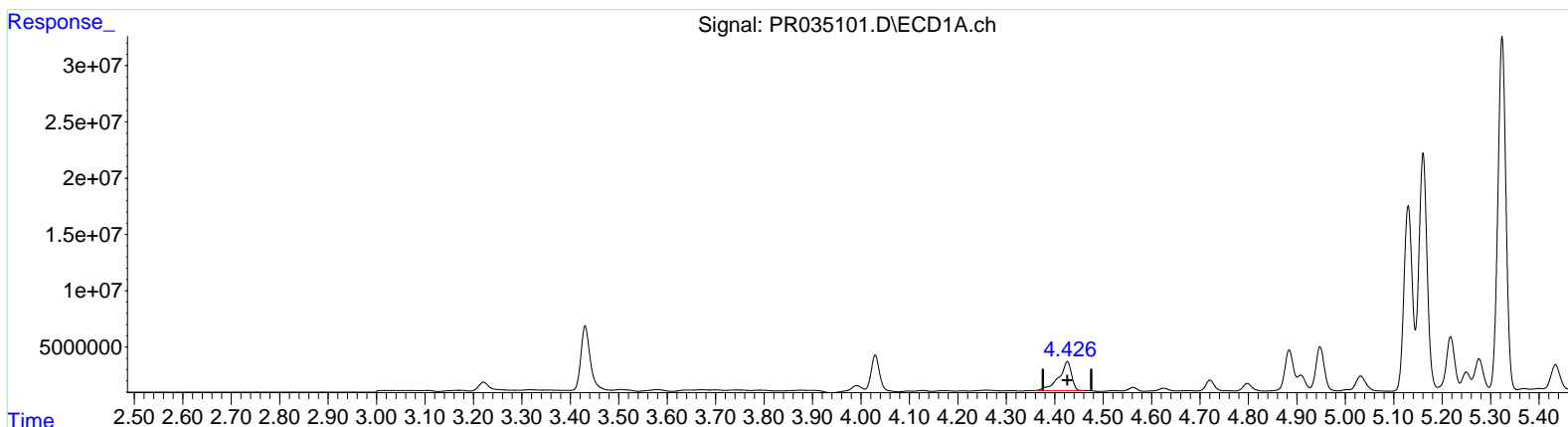
Instrument :
 ECD_R
 ClientSampled :
 A41T5

Manual Integrations
 APPROVED

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 12/29/2018 12:18:27 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:50:37 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.426min 23.972 ng/ml

response 46626559

(1) Tetrachloro-m-xylene #2 (SA)

3.513min 19.352 ng/ml

response 67461253

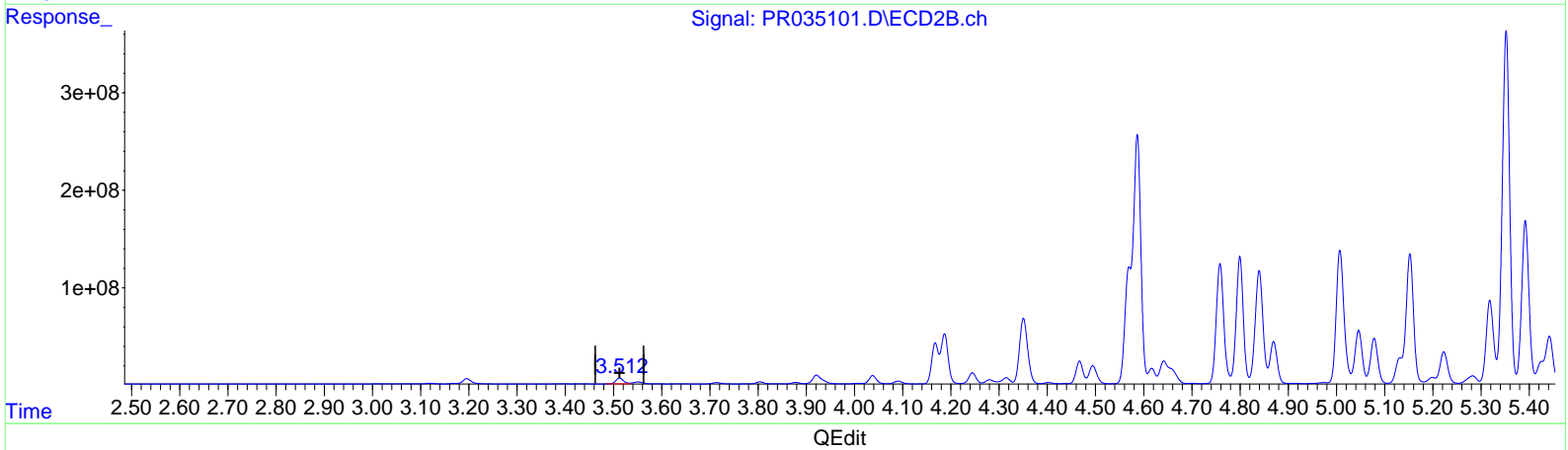
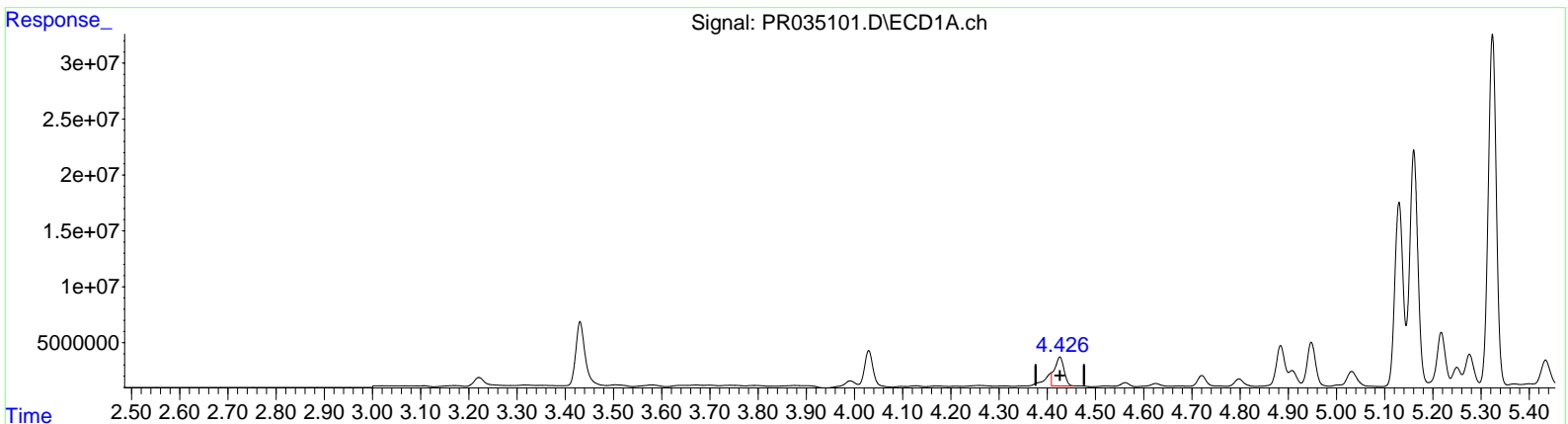
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035101.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:08
 Operator : SM\SJ
 Sample : J6428-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T5

Manual Integrations
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 Sohil
 12/29/2018 12:18:27 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:50:37 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.426min 17.960 ng/ml m
 response 34932211

(1) Tetrachloro-m-xylene #2 (SA)

3.513min 19.352 ng/ml
 response 67461253

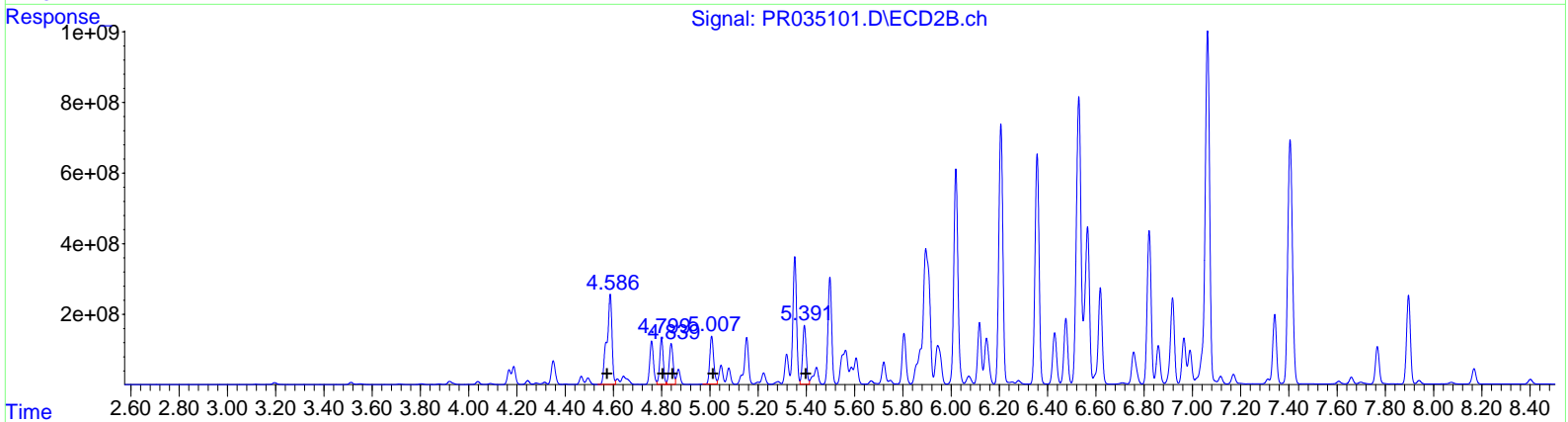
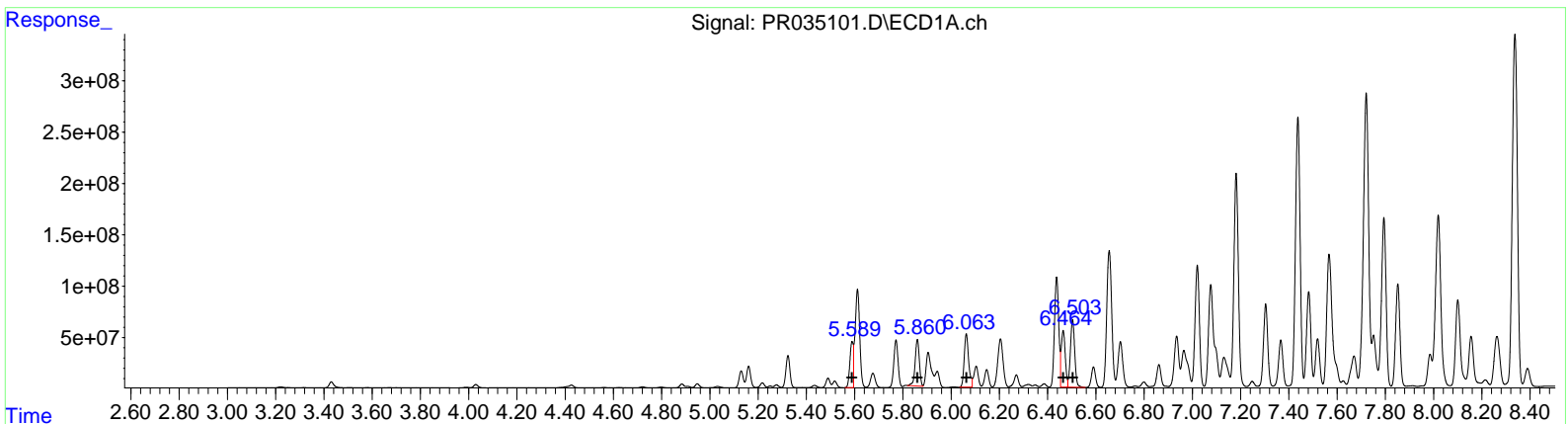
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035101.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:08
 Operator : SM\SJ
 Sample : J6428-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:27 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:50:37 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 5.59 | 433707124 | 8938.24 |
| 5.86 | 550823859 | 8336.53 |
| 6.06 | 664208155 | 8889.90 |
| 6.46 | 634811869 | 7105.10 |
| 6.50 | 816075294 | 9753.70 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 3790109488 | 38872.24 |
| 4.80 | 1329186021 | 10375.96 |
| 4.84 | 1302581379 | 9869.75 |
| 5.01 | 1523588647 | 9260.23 |
| 5.39 | 1762398513 | 10530.86 |

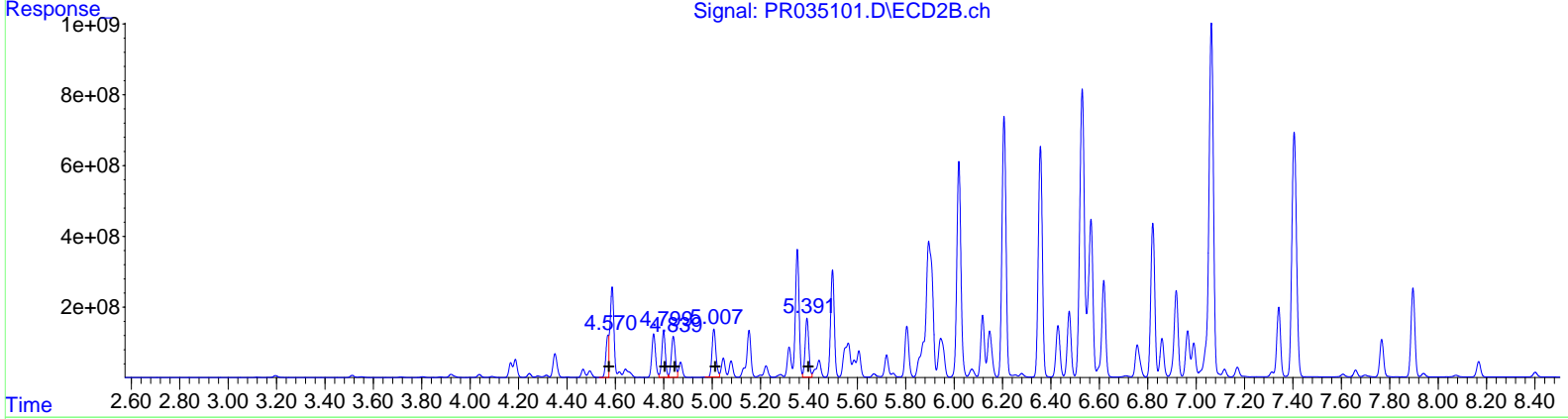
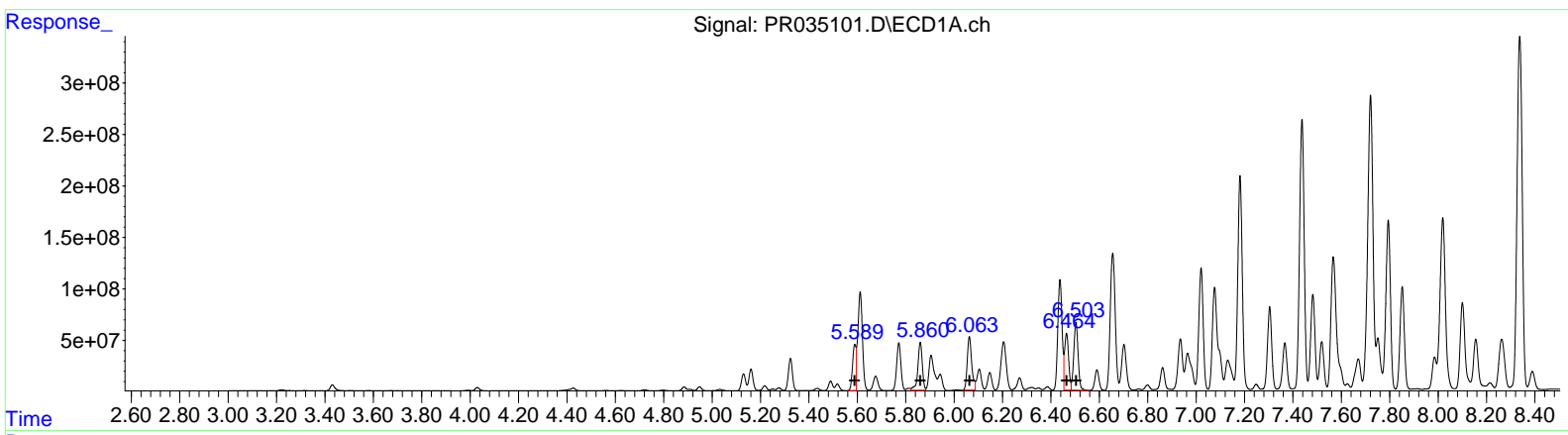
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035101.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:08
 Operator : SM\SJ
 Sample : J6428-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:27 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:50:37 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 433707124 | 8938.24 |
| 5.86 | 595394892 | 9011.10 |
| 6.06 | 664208155 | 8889.90 |
| 6.46 | 634811869 | 7105.10 |
| 6.50 | 816075294 | 9753.70 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 4.57 | 967224576 | 9920.08 |
| 4.80 | 1329186021 | 10375.96 |
| 4.84 | 1302581379 | 9869.75 |
| 5.01 | 1523588647 | 9260.23 |
| 5.39 | 1762398513 | 10530.86 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035101.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:08

Operator : SM\SJ
 Sample : J6428-02
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T5

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:50:37 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:27 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 34932211 | 67461253 | 17.960m | 19.352 |
| 2) SA Decachlor... | 10.105 | 8.401 | 62908625 | 154.5E6 | 32.000 | 35.141 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.570 | 433.7E6 | 967.2E6 | 8938.245 | 9920.080m |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 595.4E6 | 1329.2E6 | 9011.099m | 10375.964 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 664.2E6 | 1302.6E6 | 8889.900 | 9869.747 |
| 24) L5 AR-1248-4 | 6.465 | 5.007 | 634.8E6 | 1523.6E6 | 7105.101 | 9260.231 # |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 816.1E6 | 1762.4E6 | 9753.705 | 10530.855 |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 2664.4E6 | 7193.4E6 | 28341.794 | 33462.158 |
| 32) L7 AR-1260-2 | 7.437 | 6.206 | 3475.1E6 | 8558.2E6 | 29931.773 | 31449.745 |
| 33) L7 AR-1260-3 | 7.721 | 6.357 | 4367.1E6 | 7613.0E6 | 31292.410 | 30668.371 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 2584.4E6 | 4996.5E6 | 29924.545 | 29221.174 |
| 35) L7 AR-1260-5 | 8.337 | 7.063 | 5004.4E6 | 13345.4E6 | 27716.710 | 27593.444 |

SJ
 12/28/18

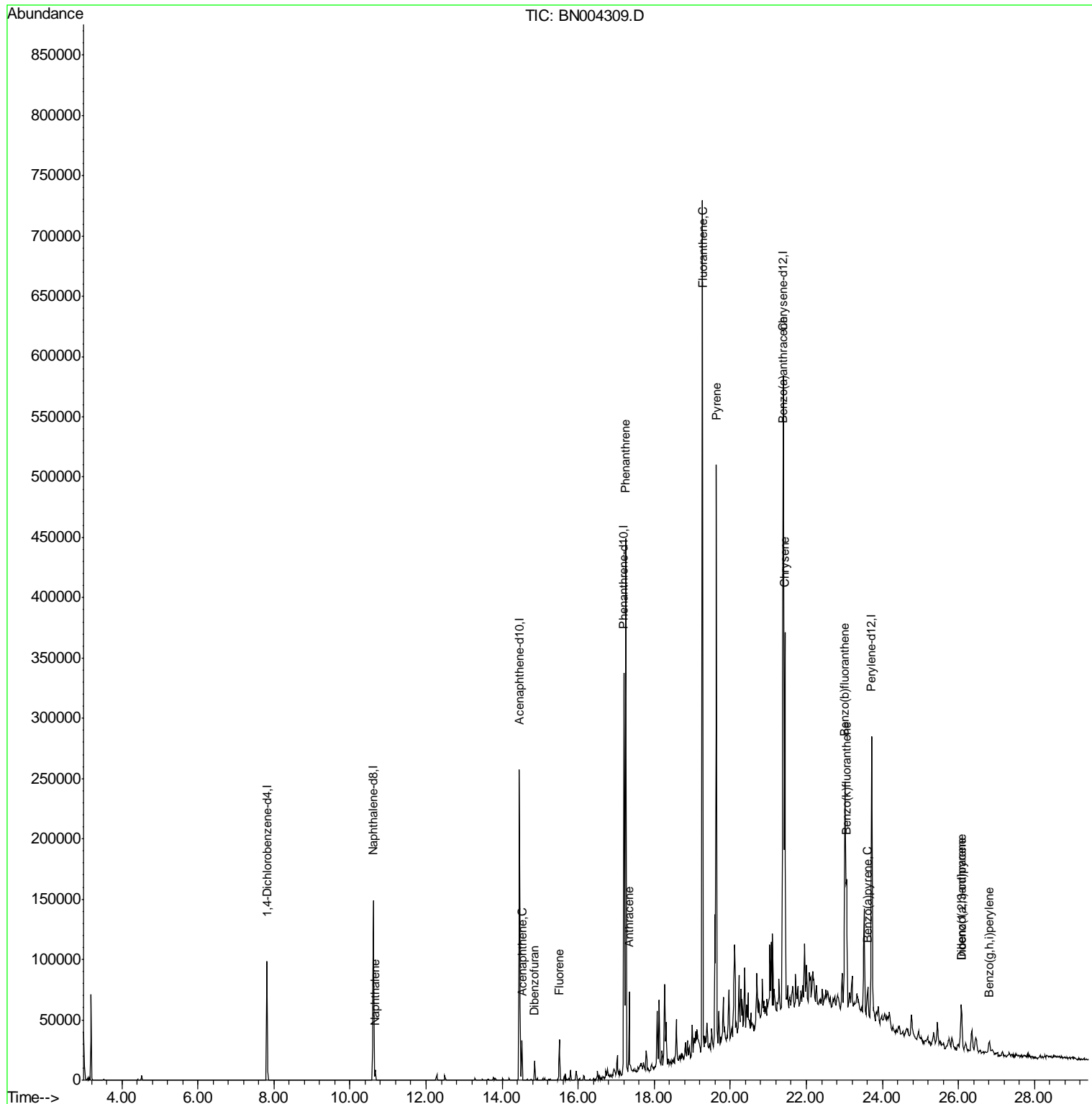
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

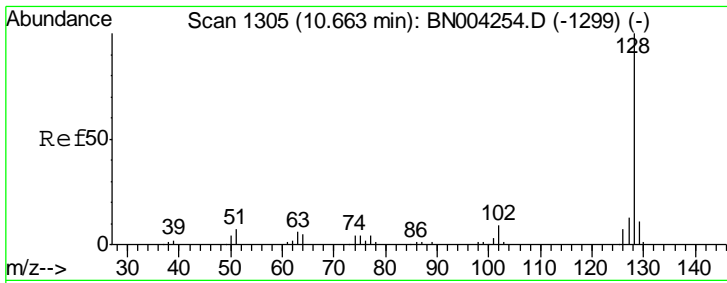
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 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 Client Sampled :
 A41T5

Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:24 PM

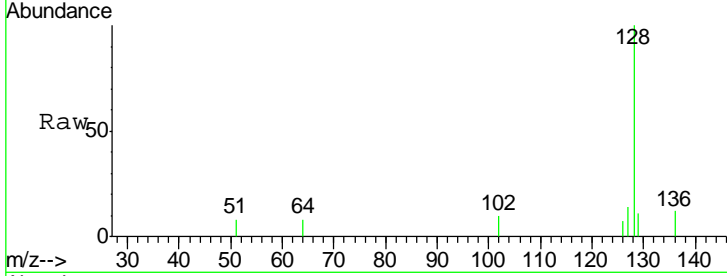
Quant Time: Jan 02 15:10:19 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#28
 Naphthalene
 Concen: 1.149 ng/ul
 RT: 10.66 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

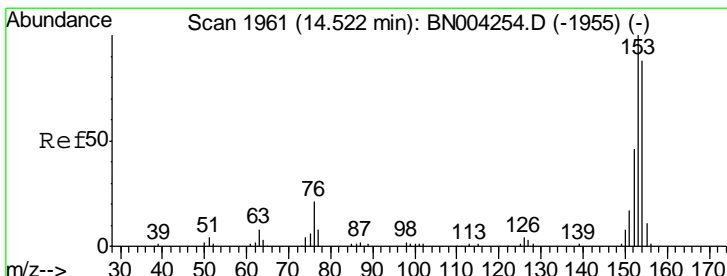
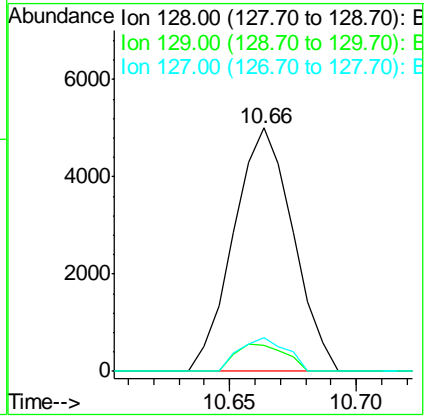
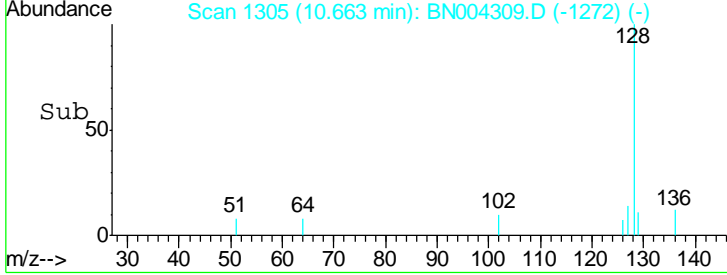
Instrument :
 BNA_N
 ClientSampled :
 A41T5



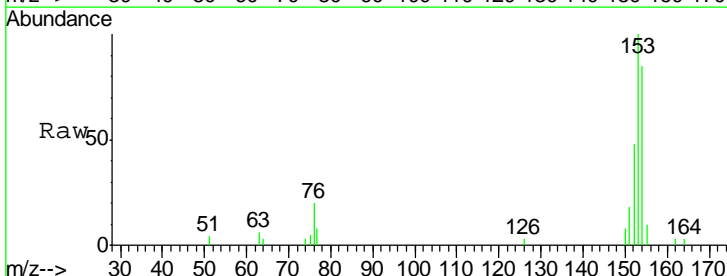
Tgt Ion: 128 Resp: 8168

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100 | | |
| 129 | 10.7 | 8.6 | 12.8 |
| 127 | 13.8 | 10.6 | 16.0 |

Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:24 PM

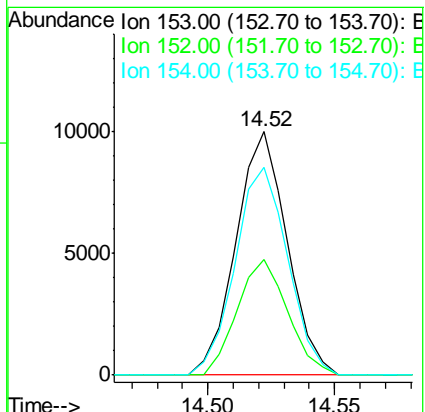
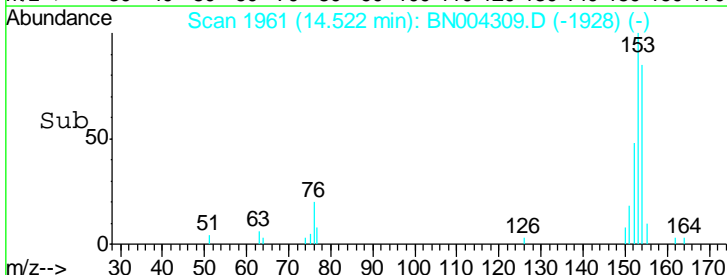


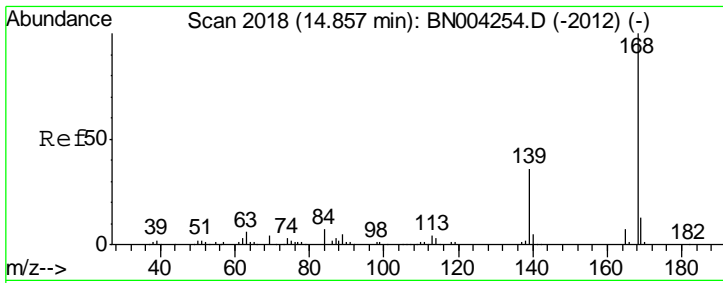
#49
 Acenaphthene
 Concen: 2.280 ng/ul
 RT: 14.52 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00



Tgt Ion: 153 Resp: 14071

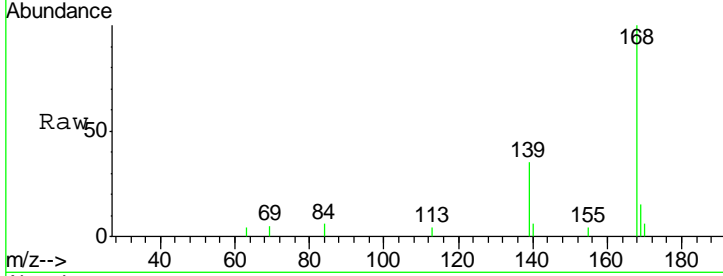
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100 | | |
| 152 | 47.7 | 37.8 | 56.6 |
| 154 | 85.1 | 71.0 | 106.6 |





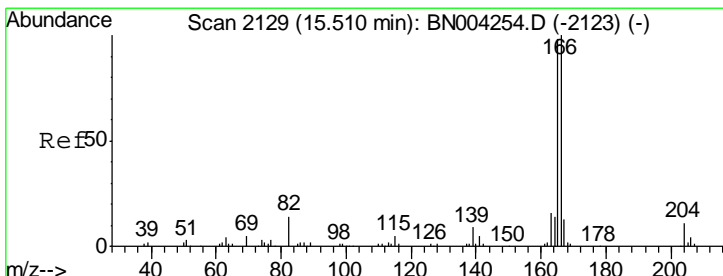
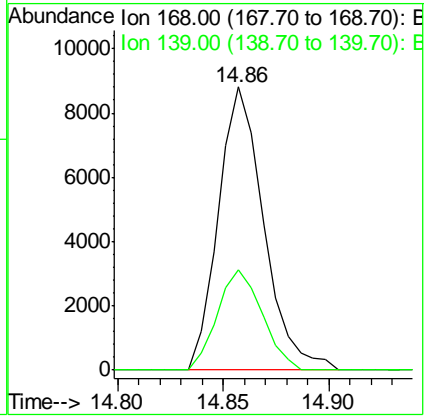
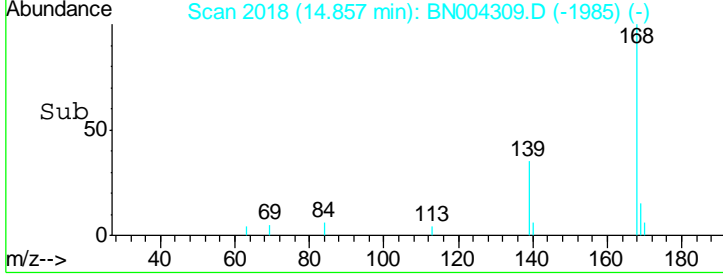
#53
 Dibenzofuran
 Concen: 1.494 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

Instrument :
 BNA_N
 ClientSampled :
 A41T5

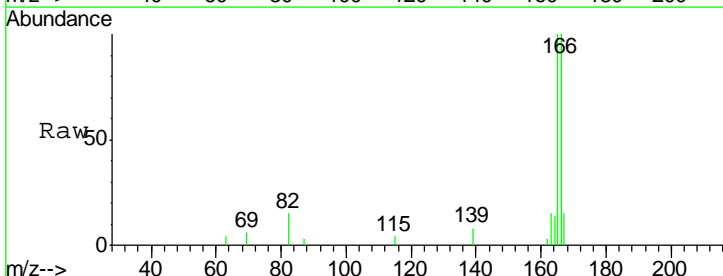


Tgt Ion:168 Resp: 13092
 Ion Ratio Lower Upper
 168 100
 139 35.5 28.8 43.2

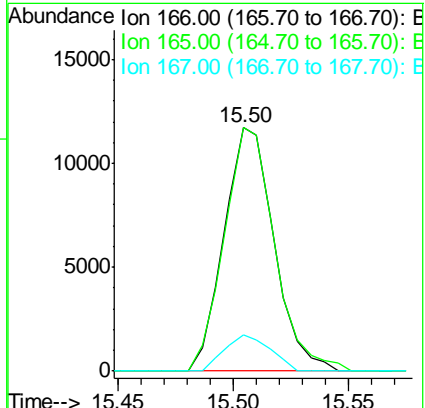
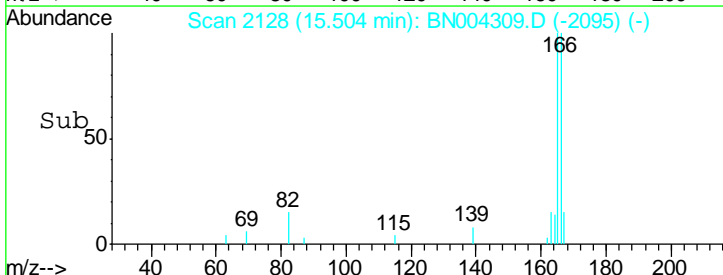
Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:24 PM

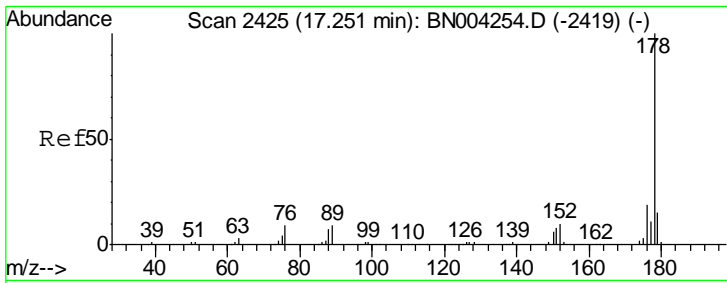


#58
 Fluorene
 Concen: 2.416 ng/ul
 RT: 15.50 min Scan# 2128
 Delta R.T. -0.01 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00



Tgt Ion:166 Resp: 17624
 Ion Ratio Lower Upper
 166 100
 165 100.1 78.6 117.8
 167 14.8 10.3 15.5





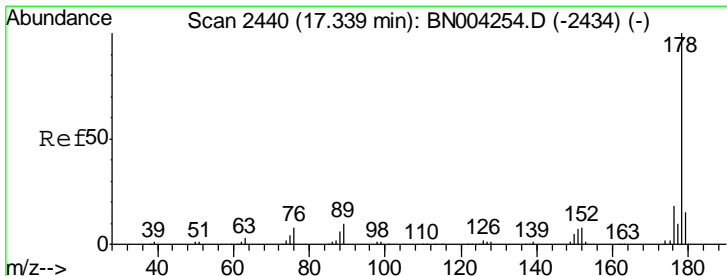
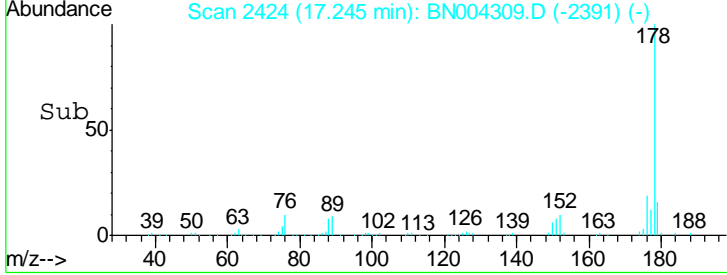
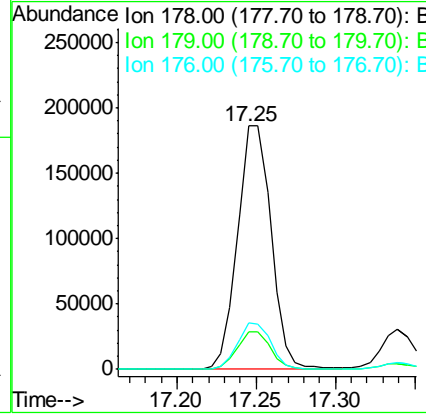
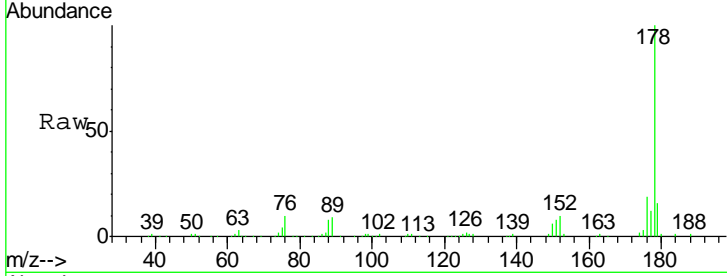
#69
 Phenanthrene
 Concen: 24.256 ng/ul
 RT: 17.25 min Scan# 2424
 Delta R.T. -0.01 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

Instrument :
 BNA_N
 ClientSampled :
 A41T5

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 178 | 275315 | | |
| 179 | 15.6 | 12.1 | 18.1 |
| 176 | 19.0 | 15.0 | 22.6 |

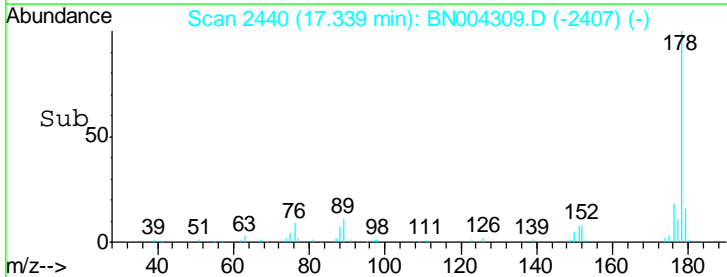
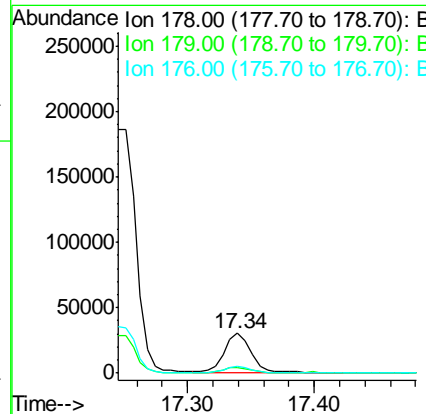
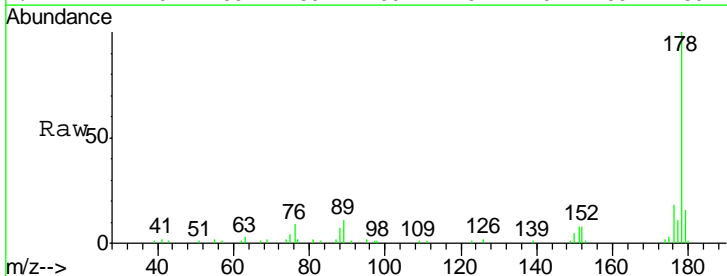
Manual Integrations
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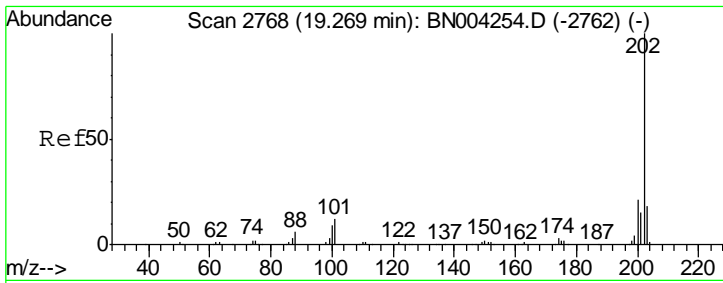
Sohil
 1/2/2019 3:42:24 PM



#71
 Anthracene
 Concen: 3.850 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

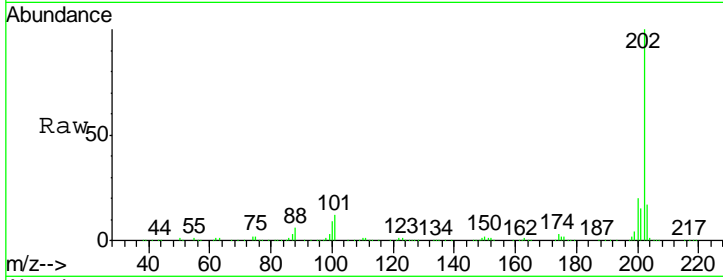
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 178 | 44791 | | |
| 179 | 15.6 | 12.1 | 18.1 |
| 176 | 18.4 | 15.2 | 22.8 |





#76
 Fluoranthene
 Concen: 30.370 ng/ul
 RT: 19.27 min Scan# 2768
 Delta R.T. 0.00 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

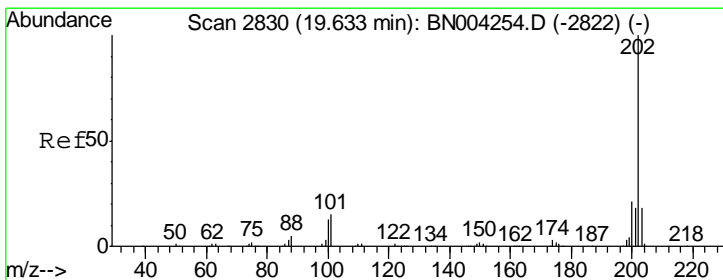
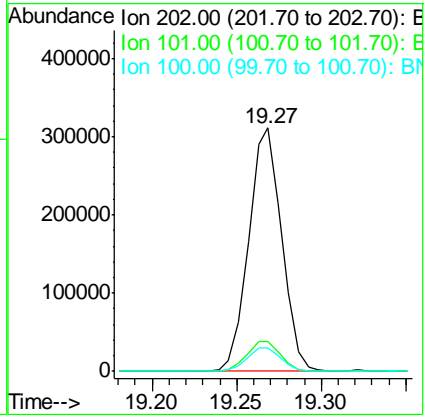
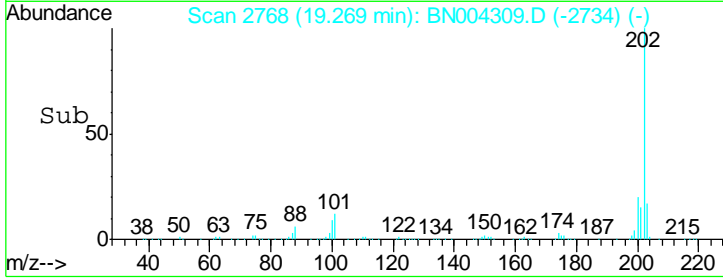
Instrument :
 BNA_N
ClientSampled :
 A41T5



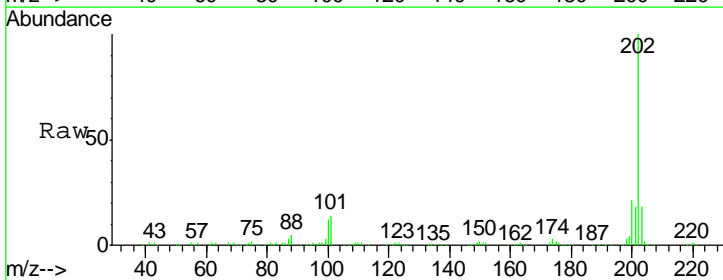
Tgt Ion: 202 Resp: 422522

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100 | | |
| 101 | 12.2 | 10.2 | 15.2 |
| 100 | 9.4 | 7.8 | 11.8 |

Manual Integrations
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 1/2/2019 3:42:24 PM

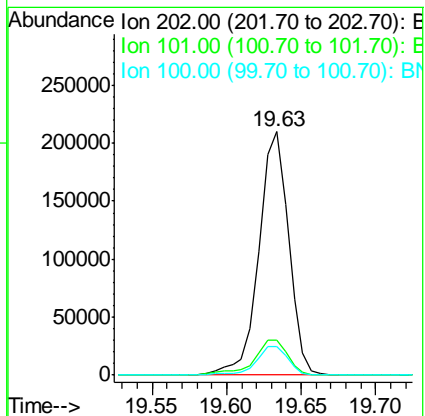
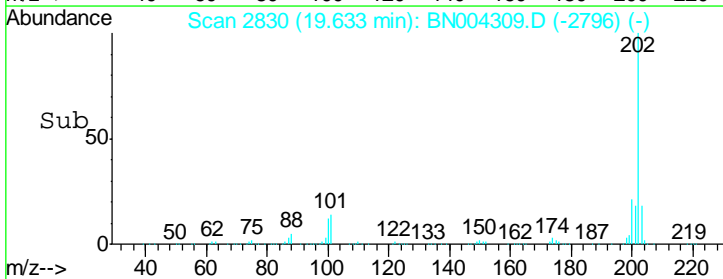


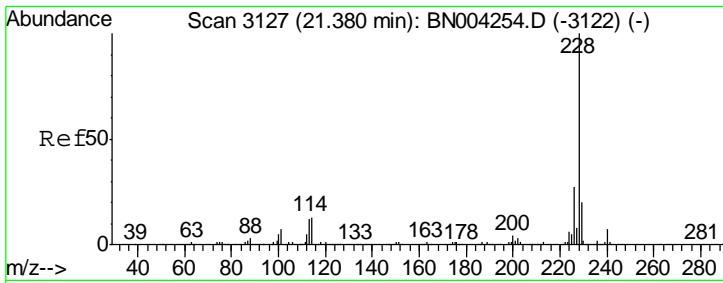
#79
 Pyrene
 Concen: 26.852 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. 0.00 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00



Tgt Ion: 202 Resp: 290067

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100 | | |
| 101 | 14.4 | 12.2 | 18.2 |
| 100 | 11.7 | 9.9 | 14.9 |





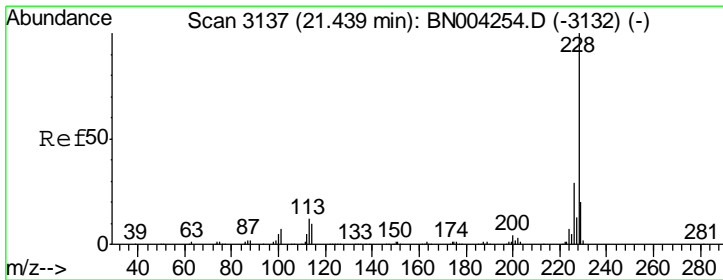
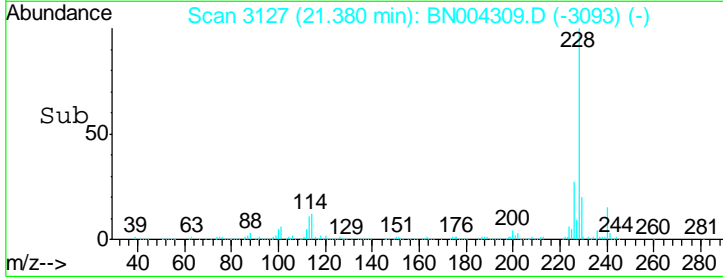
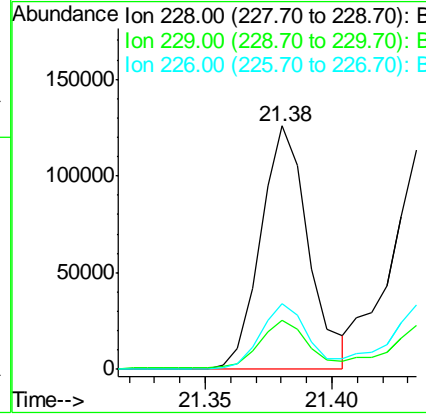
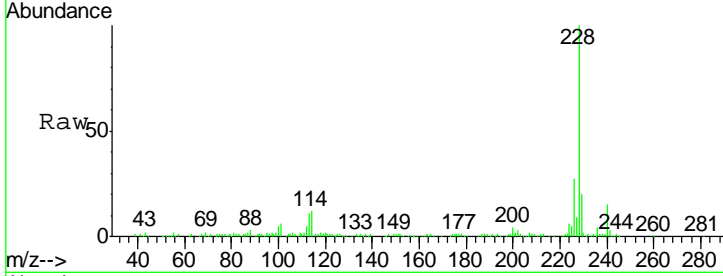
#82
 Benzo(a)anthracene
 Concen: 13.792 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. 0.00 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

Instrument :
 BNA_N
 ClientSampled :
 A41T5

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 166300 | | |
| 229 | 20.2 | 15.9 | 23.9 |
| 226 | 26.9 | 21.4 | 32.2 |

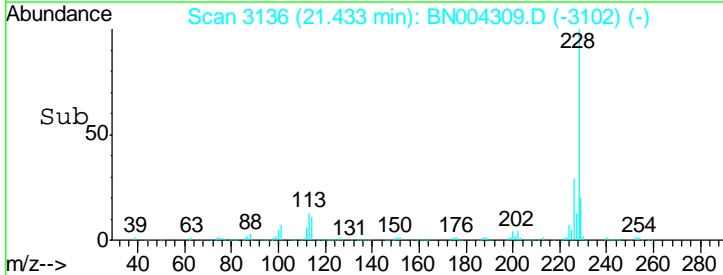
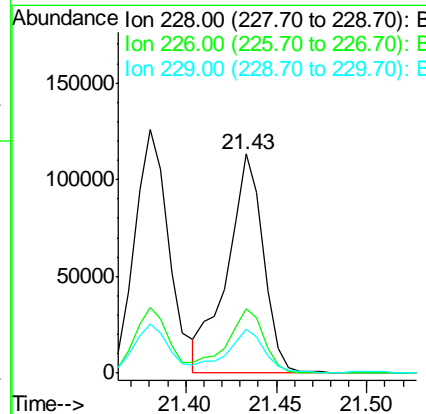
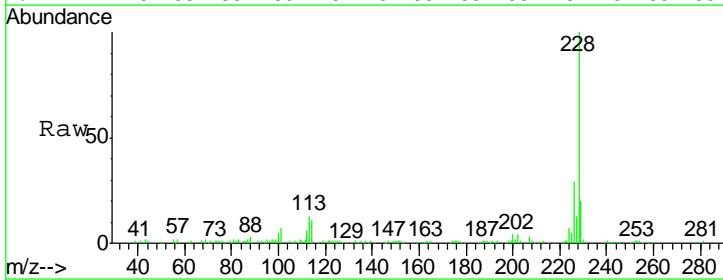
Manual Integrations
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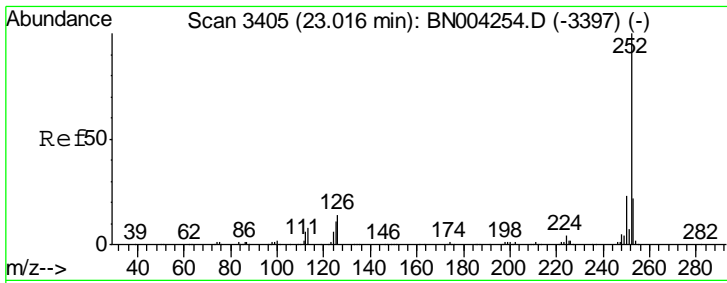
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 1/2/2019 3:42:24 PM



#84
 Chrysene
 Concen: 13.827 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. 0.00 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 156156 | | |
| 226 | 29.2 | 23.8 | 35.8 |
| 229 | 20.0 | 15.8 | 23.6 |





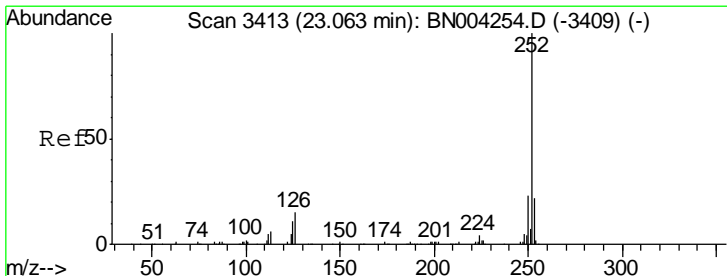
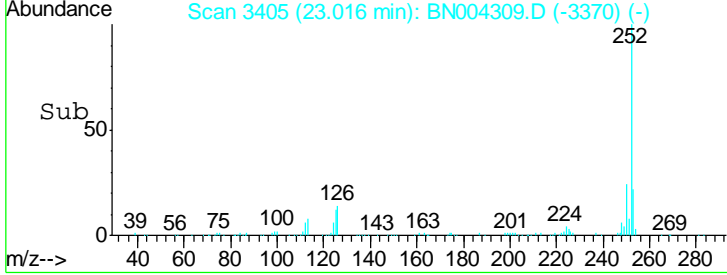
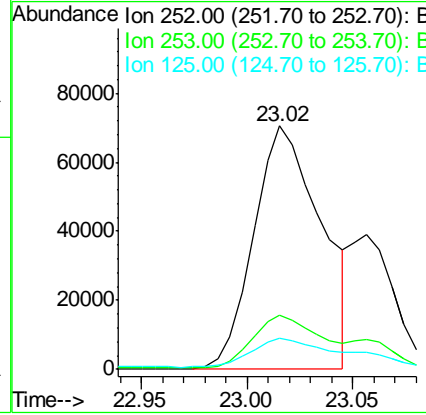
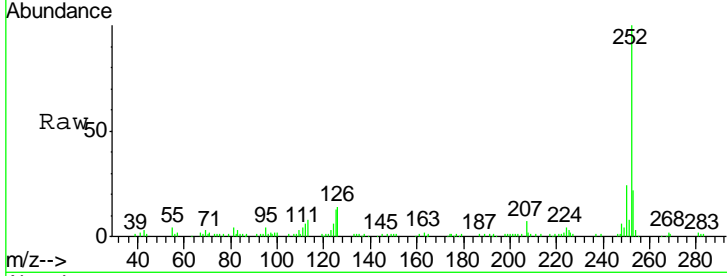
#87
 Benzo(b)fluoranthene
 Concen: 15.139 ng/ul
 RT: 23.02 min Scan# 3405
 Delta R.T. 0.01 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

Instrument :
 BNA_N
 ClientSampled :
 A41T5

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.3 | 17.3 | 25.9 |
| 125 | 12.8 | 8.2 | 12.4# |

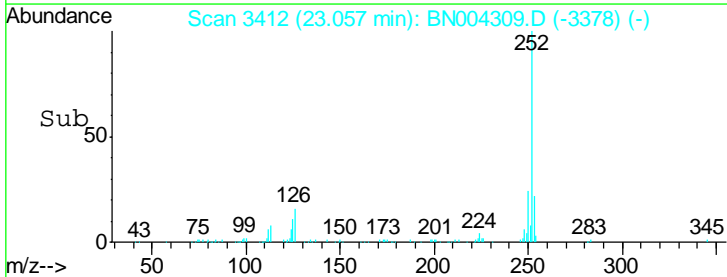
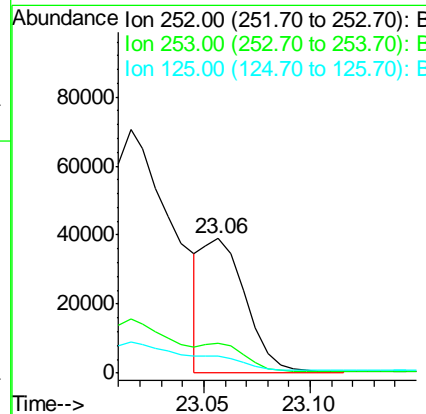
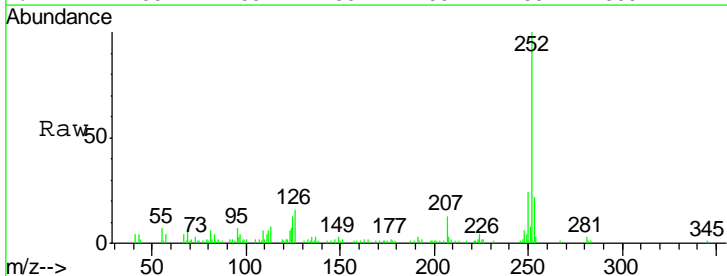
Manual Integrations
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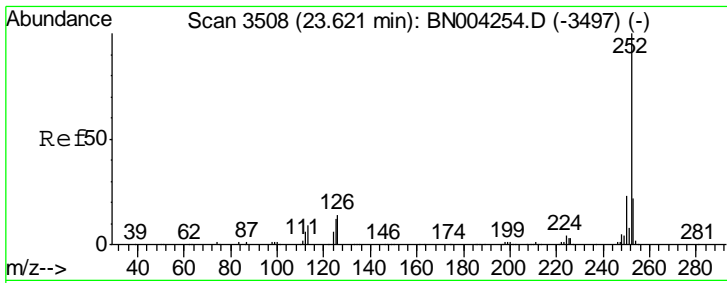
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 1/2/2019 3:42:24 PM



#88
 Benzo(k)fluoranthene
 Concen: 5.774 ng/ul m
 RT: 23.06 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.5 | 17.1 | 25.7 |
| 125 | 12.8 | 7.9 | 11.9# |





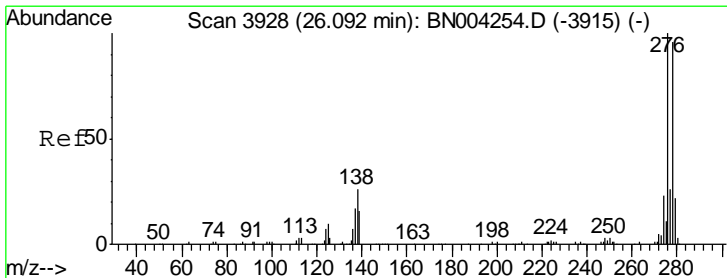
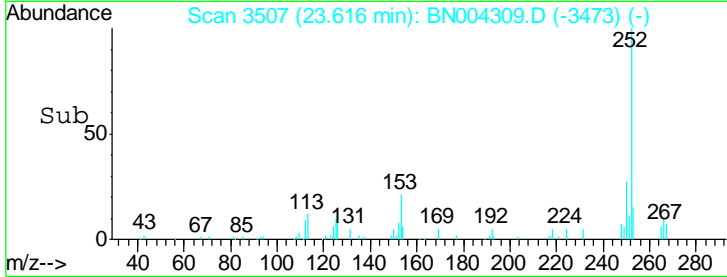
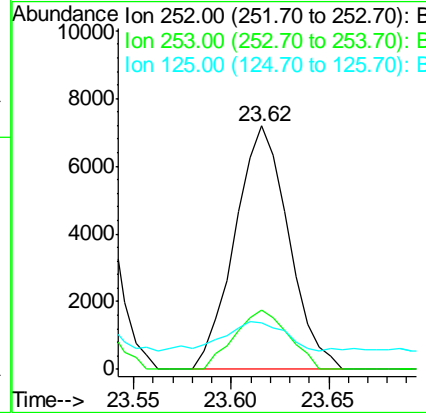
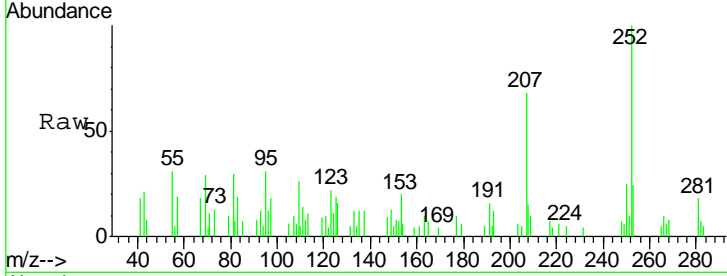
#90
 Benzo(a)pyrene
 Concen: 1.369 ng/ul
 RT: 23.62 min Scan# 3507
 Delta R.T. 0.00 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

Instrument :
 BNA_N
 ClientSampled :
 A41T5

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 252 | 13684 | | |
| 253 | 24.4 | 17.5 | 26.3 |
| 125 | 19.2 | 9.1 | 13.7# |

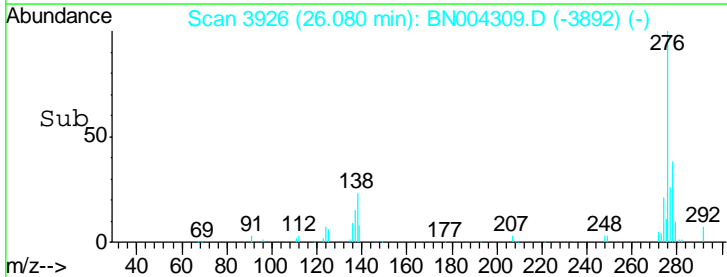
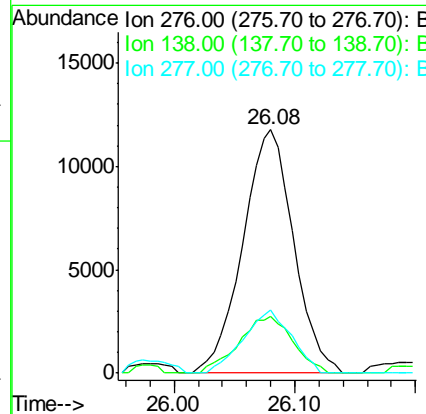
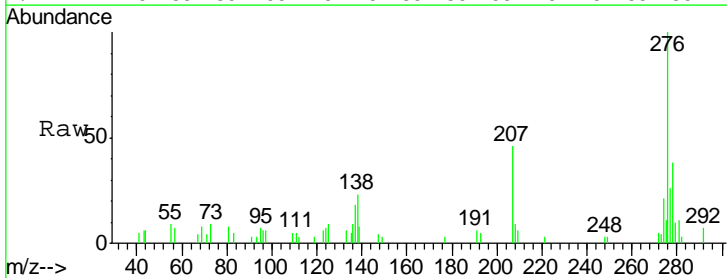
Manual Integrations
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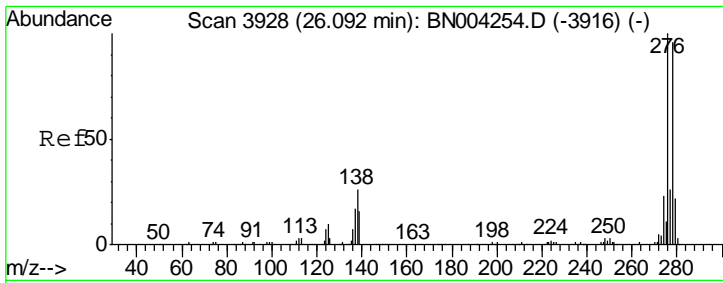
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 1/2/2019 3:42:24 PM



#91
 Indeno(1,2,3-cd)pyrene
 Concen: 2.643 ng/ul
 RT: 26.08 min Scan# 3926
 Delta R.T. 0.00 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

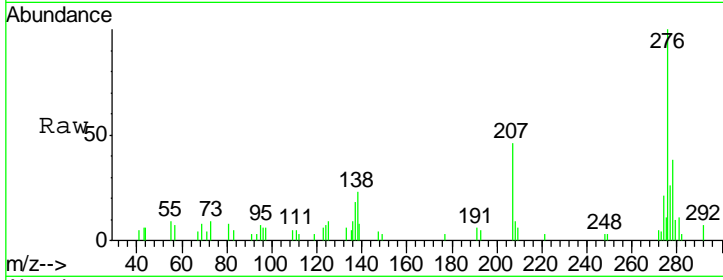
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 276 | 34440 | | |
| 138 | 23.2 | 20.4 | 30.6 |
| 277 | 25.7 | 20.6 | 30.8 |





#92
 Dibenzo(a,h)anthracene
 Concen: 1.455 ng/ul
 RT: 26.08 min Scan# 3926
 Delta R.T. 0.00 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00

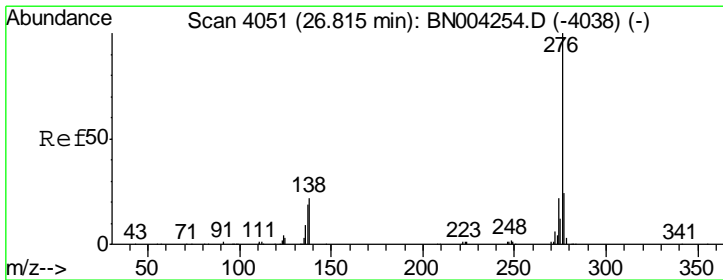
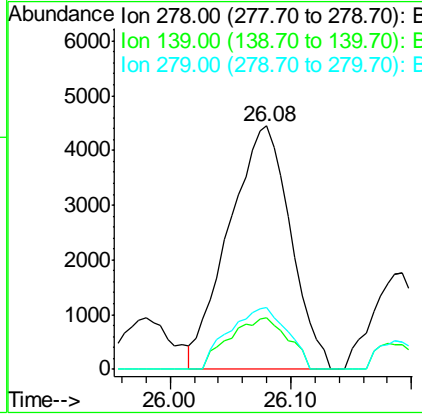
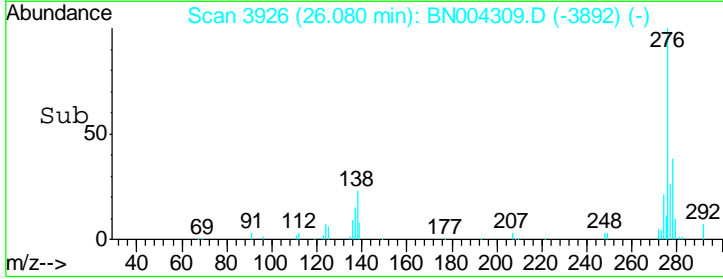
Instrument :
 BNA_N
 ClientSampled :
 A41T5



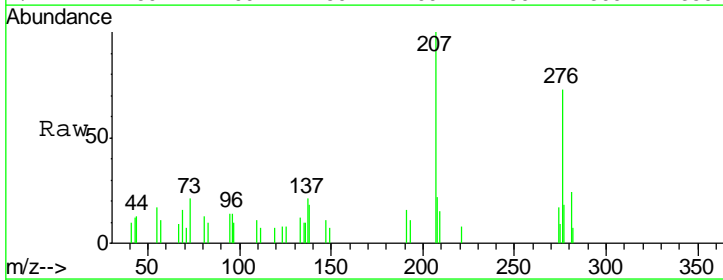
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 278 | 15759 | | |
| 278 | 100 | | |
| 139 | 21.0 | 13.3 | 19.9# |
| 279 | 25.6 | 19.0 | 28.6 |

Manual Integrations
 APPROVED

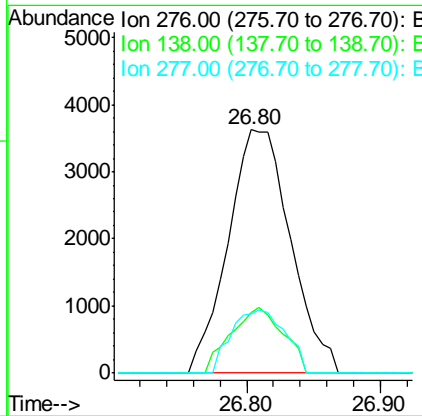
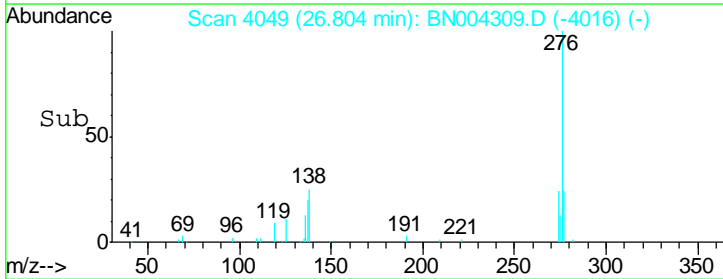
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 1/2/2019 3:42:24 PM



#93
 Benzo(g,h,i)perylene
 Concen: 1.077 ng/ul
 RT: 26.80 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: BN004309.D
 Acq: 02 Jan 2019 14:00



| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 276 | 11746 | | |
| 276 | 100 | | |
| 138 | 24.8 | 18.2 | 27.4 |
| 277 | 24.2 | 19.0 | 28.6 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T5

Manual Integrations
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 1/2/2019 3:42:24 PM

Quant Time: Jan 02 15:10:19 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 28108 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.61 | 136 | 132448 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 85912 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 196444 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 193358 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 173313 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0 | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 28) Naphthalene | 10.66 | 128 | 8168 | 1.149 | ng/ul | 99 |
| 49) Acenaphthene | 14.52 | 153 | 14071 | 2.280 | ng/ul | 97 |
| 53) Dibenzofuran | 14.86 | 168 | 13092 | 1.494 | ng/ul | 99 |
| 58) Fluorene | 15.50 | 166 | 17624 | 2.416 | ng/ul | 98 |
| 69) Phenanthrene | 17.25 | 178 | 275315 | 24.256 | ng/ul | 99 |
| 71) Anthracene | 17.34 | 178 | 44791 | 3.850 | ng/ul | 99 |
| 76) Fluoranthene | 19.27 | 202 | 422522 | 30.370 | ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 290067 | 26.852 | ng/ul | 98 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 166300 | 13.792 | ng/ul | 100 |
| 84) Chrysene | 21.43 | 228 | 156156 | 13.827 | ng/ul | 99 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 157177 | 15.139 | ng/ul# | 97 |
| 88) Benzo(k)fluoranthene | 23.06 | 252 | 56135m | 5.774 | ng/ul | |
| 90) Benzo(a)pyrene | 23.62 | 252 | 13684 | 1.369 | ng/ul# | 90 |
| 91) Indeno(1,2,3-cd)pyrene | 26.08 | 276 | 34440 | 2.643 | ng/ul | 98 |
| 92) Dibenzo(a,h)anthracene | 26.08 | 278 | 15759 | 1.455 | ng/ul# | 94 |
| 93) Benzo(g,h,i)perylene | 26.80 | 276 | 11746 | 1.077 | ng/ul | 98 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T5

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 40 | rVB | 71020 | 77555 | 7.23% | 0.908% |
| 2 | 7.816 | 815 | 821 | 829 | rBB | 98528 | 147701 | 13.77% | 1.729% |
| 3 | 10.610 | 1290 | 1296 | 1302 | rBV | 149240 | 245885 | 22.93% | 2.878% |
| 4 | 10.663 | 1302 | 1305 | 1311 | rVB | 8453 | 11719 | 1.09% | 0.137% |
| 5 | 14.457 | 1943 | 1950 | 1957 | rBV2 | 257720 | 384779 | 35.88% | 4.504% |
| 6 | 14.522 | 1957 | 1961 | 1966 | rVB | 32936 | 44828 | 4.18% | 0.525% |
| 7 | 14.857 | 2014 | 2018 | 2026 | rBB | 16281 | 23281 | 2.17% | 0.272% |
| 8 | 15.504 | 2123 | 2128 | 2136 | rBB | 33571 | 50053 | 4.67% | 0.586% |
| 9 | 15.945 | 2199 | 2203 | 2210 | rBB | 7719 | 14091 | 1.31% | 0.165% |
| 10 | 17.028 | 2382 | 2387 | 2392 | rVB | 16306 | 22749 | 2.12% | 0.266% |
| 11 | 17.204 | 2411 | 2417 | 2421 | rBV | 332319 | 483751 | 45.10% | 5.662% |
| 12 | 17.245 | 2421 | 2424 | 2434 | rVB | 442585 | 631145 | 58.85% | 7.387% |
| 13 | 17.339 | 2435 | 2440 | 2444 | rBV | 65599 | 90168 | 8.41% | 1.055% |
| 14 | 17.792 | 2512 | 2517 | 2522 | rVB4 | 15980 | 32777 | 3.06% | 0.384% |
| 15 | 17.928 | 2535 | 2540 | 2547 | rBV7 | 5038 | 11875 | 1.11% | 0.139% |
| 16 | 18.075 | 2561 | 2565 | 2570 | rBV | 44283 | 62076 | 5.79% | 0.727% |
| 17 | 18.128 | 2570 | 2574 | 2580 | rVB | 53581 | 75478 | 7.04% | 0.883% |
| 18 | 18.210 | 2582 | 2588 | 2592 | rVB2 | 12363 | 20847 | 1.94% | 0.244% |
| 19 | 18.275 | 2593 | 2599 | 2603 | rBV3 | 67006 | 131669 | 12.28% | 1.541% |
| 20 | 18.316 | 2603 | 2606 | 2611 | rVB | 34911 | 44077 | 4.11% | 0.516% |
| 21 | 18.581 | 2643 | 2651 | 2658 | rBV | 35979 | 66433 | 6.19% | 0.778% |
| 22 | 18.822 | 2689 | 2692 | 2697 | rVB2 | 11837 | 16107 | 1.50% | 0.189% |
| 23 | 18.875 | 2697 | 2701 | 2705 | rBV | 12891 | 14818 | 1.38% | 0.173% |
| 24 | 18.916 | 2705 | 2708 | 2715 | rVB2 | 9516 | 17368 | 1.62% | 0.203% |
| 25 | 18.998 | 2716 | 2722 | 2726 | rBV | 27415 | 45642 | 4.26% | 0.534% |
| 26 | 19.045 | 2726 | 2730 | 2735 | rBV4 | 12498 | 29234 | 2.73% | 0.342% |
| 27 | 19.269 | 2762 | 2768 | 2774 | rBV | 705737 | 983532 | 91.70% | 11.512% |
| 28 | 19.322 | 2774 | 2777 | 2781 | rBV2 | 9478 | 14282 | 1.33% | 0.167% |
| 29 | 19.392 | 2786 | 2789 | 2795 | rVB | 20965 | 26090 | 2.43% | 0.305% |
| 30 | 19.510 | 2806 | 2809 | 2818 | rVB | 15265 | 24632 | 2.30% | 0.288% |
| 31 | 19.598 | 2818 | 2824 | 2826 | rBV2 | 110247 | 167351 | 15.60% | 1.959% |
| 32 | 19.633 | 2826 | 2830 | 2837 | rVV | 480577 | 654597 | 61.03% | 7.662% |
| 33 | 19.698 | 2837 | 2841 | 2846 | rVV2 | 27326 | 37459 | 3.49% | 0.438% |
| 34 | 19.810 | 2856 | 2860 | 2864 | rBV | 32641 | 41709 | 3.89% | 0.488% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T5

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 19.963 | 2879 | 2886 | 2892 | rVB | 40907 | 75510 | 7.04% | 0.884% |
| 36 | 20.104 | 2902 | 2910 | 2911 | rBV3 | 67987 | 103685 | 9.67% | 1.214% |
| 37 | 20.122 | 2911 | 2913 | 2917 | rVB | 69026 | 85564 | 7.98% | 1.001% |
| 38 | 20.227 | 2926 | 2931 | 2934 | rBV | 45792 | 59522 | 5.55% | 0.697% |
| 39 | 20.280 | 2934 | 2940 | 2944 | rVV2 | 32351 | 71744 | 6.69% | 0.840% |
| 40 | 20.316 | 2944 | 2946 | 2950 | rVB | 22940 | 27180 | 2.53% | 0.318% |
| 41 | 20.380 | 2951 | 2957 | 2961 | rVB4 | 49368 | 67264 | 6.27% | 0.787% |
| 42 | 20.433 | 2961 | 2966 | 2969 | rBV2 | 18869 | 37034 | 3.45% | 0.433% |
| 43 | 20.469 | 2969 | 2972 | 2975 | rVB | 21740 | 26128 | 2.44% | 0.306% |
| 44 | 20.539 | 2981 | 2984 | 2987 | rBV3 | 13017 | 17488 | 1.63% | 0.205% |
| 45 | 20.680 | 3005 | 3008 | 3009 | rBV2 | 20896 | 22747 | 2.12% | 0.266% |
| 46 | 20.704 | 3009 | 3012 | 3017 | rVB4 | 34371 | 47222 | 4.40% | 0.553% |
| 47 | 20.839 | 3033 | 3035 | 3038 | rVB2 | 24446 | 21462 | 2.00% | 0.251% |
| 48 | 20.963 | 3054 | 3056 | 3061 | rBV4 | 13553 | 24467 | 2.28% | 0.286% |
| 49 | 21.039 | 3066 | 3069 | 3072 | rVV | 54419 | 72573 | 6.77% | 0.849% |
| 50 | 21.080 | 3072 | 3076 | 3079 | rVV | 55331 | 76808 | 7.16% | 0.899% |
| 51 | 21.116 | 3079 | 3082 | 3086 | rVB | 59780 | 72807 | 6.79% | 0.852% |
| 52 | 21.280 | 3108 | 3110 | 3114 | rVB2 | 20354 | 21383 | 1.99% | 0.250% |
| 53 | 21.392 | 3122 | 3129 | 3133 | rBV2 | 518713 | 1072545 | 100.00% | 12.554% |
| 54 | 21.433 | 3133 | 3136 | 3141 | rVB | 304752 | 375805 | 35.04% | 4.399% |
| 55 | 21.722 | 3182 | 3185 | 3190 | rBV6 | 23205 | 32782 | 3.06% | 0.384% |
| 56 | 21.957 | 3221 | 3225 | 3228 | rVB | 39273 | 53142 | 4.95% | 0.622% |
| 57 | 22.163 | 3257 | 3260 | 3265 | rBV2 | 20173 | 40948 | 3.82% | 0.479% |
| 58 | 22.939 | 3389 | 3392 | 3396 | rVB | 24903 | 33609 | 3.13% | 0.393% |
| 59 | 23.016 | 3399 | 3405 | 3410 | rBV | 181066 | 400885 | 37.38% | 4.692% |
| 60 | 23.516 | 3485 | 3490 | 3498 | rVB | 87752 | 166482 | 15.52% | 1.949% |
| 61 | 23.716 | 3518 | 3524 | 3531 | rBV2 | 228395 | 442446 | 41.25% | 5.179% |
| 62 | 24.763 | 3698 | 3702 | 3714 | rVB4 | 17883 | 44985 | 4.19% | 0.527% |
| 63 | 25.445 | 3812 | 3818 | 3827 | rVB3 | 18376 | 44489 | 4.15% | 0.521% |
| 64 | 26.074 | 3917 | 3925 | 3936 | rVB2 | 37165 | 115530 | 10.77% | 1.352% |
| 65 | 26.351 | 3965 | 3972 | 3982 | rVB4 | 16428 | 43735 | 4.08% | 0.512% |

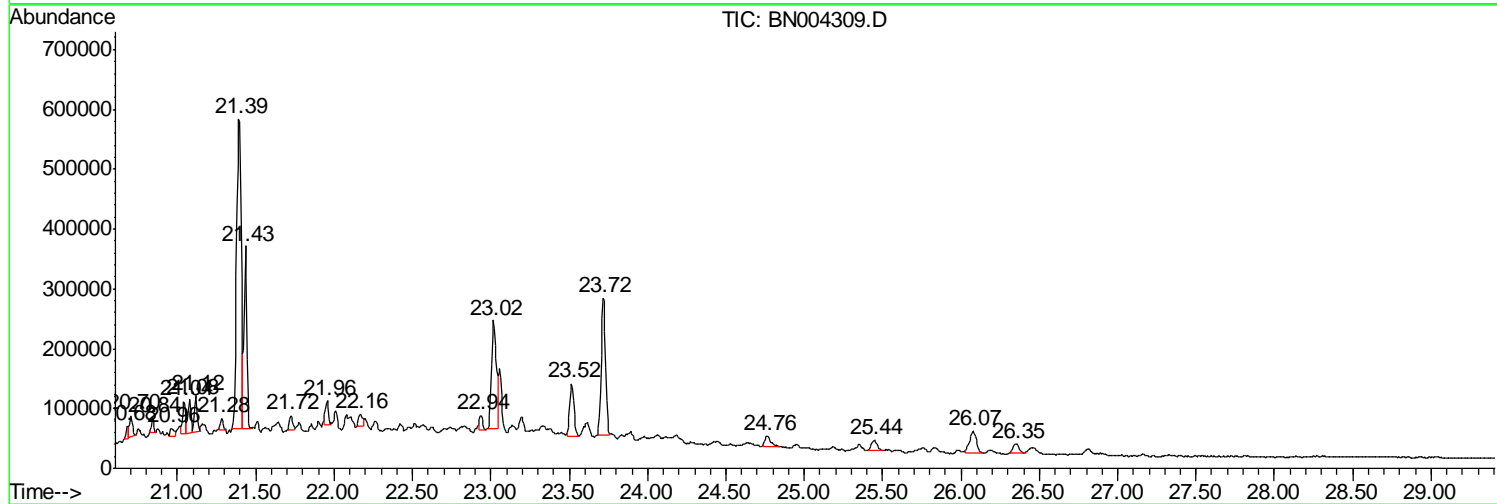
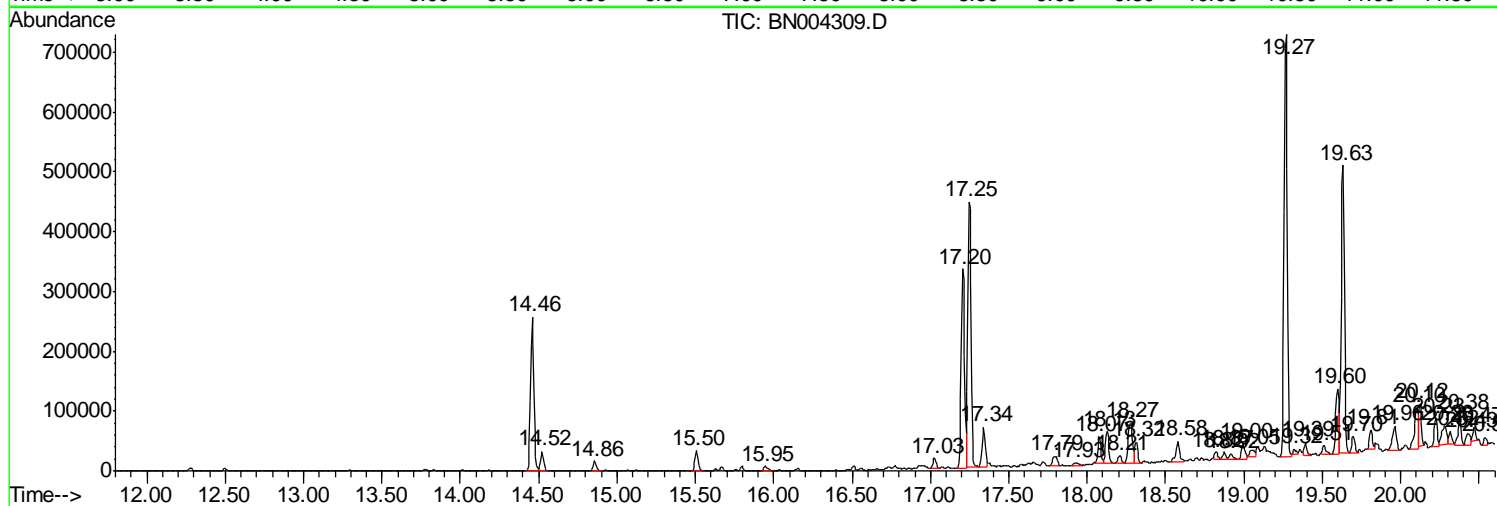
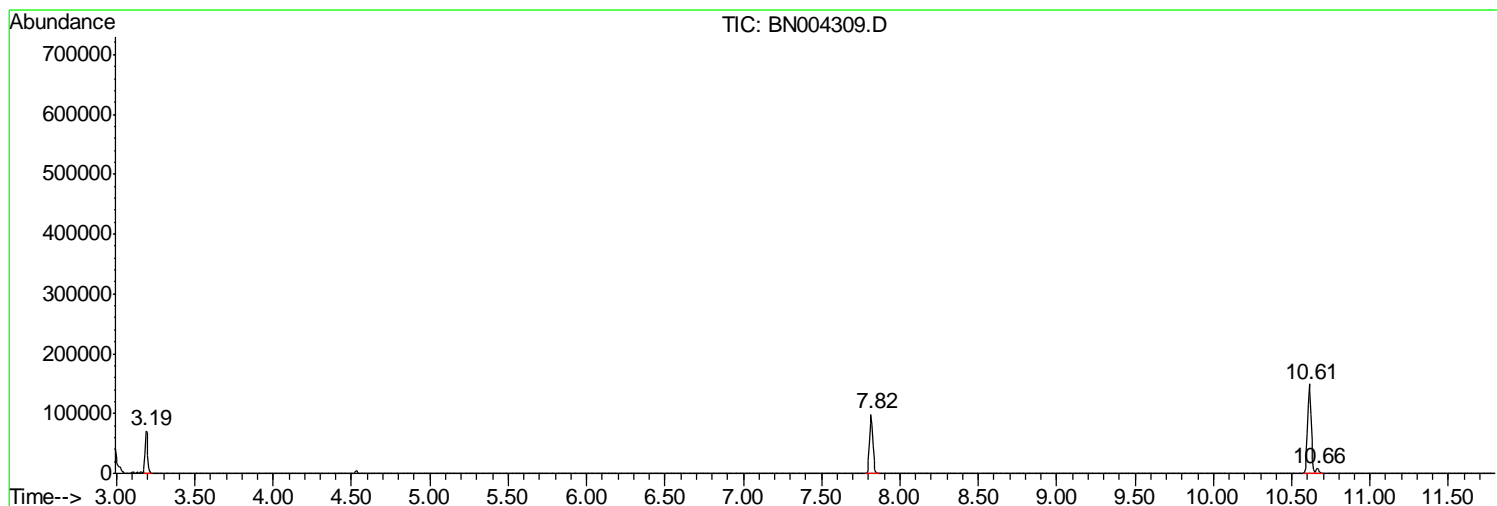
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 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T5

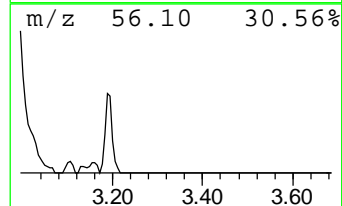
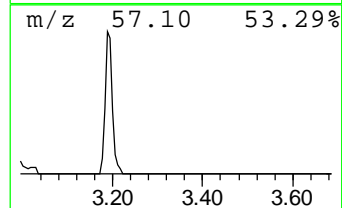
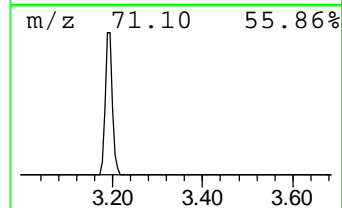
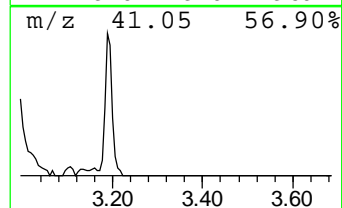
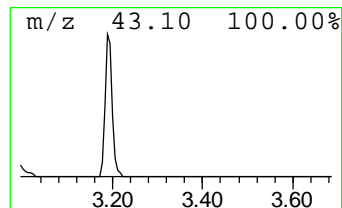
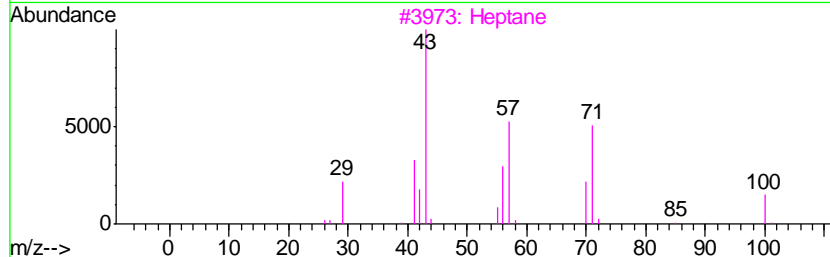
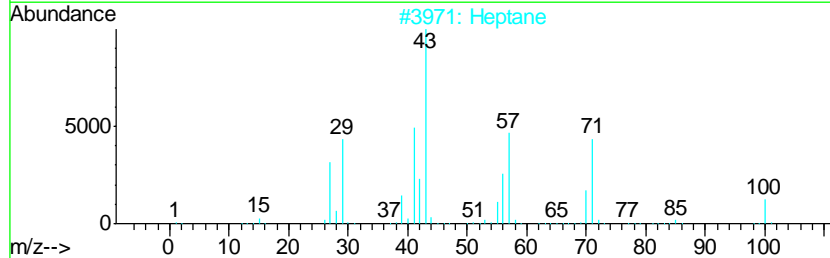
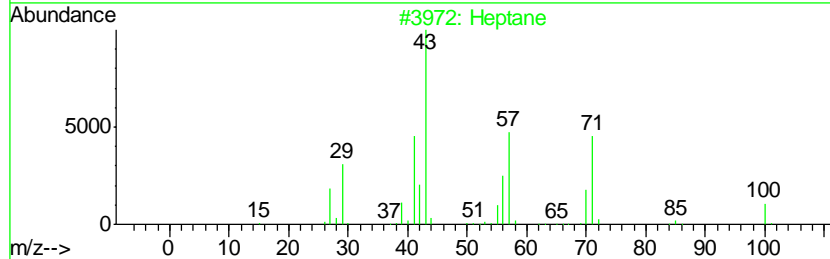
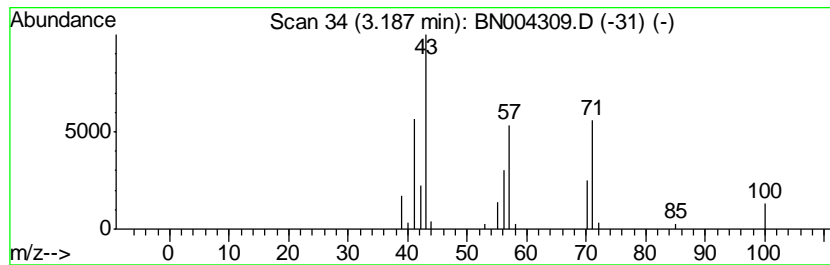
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 10.50 ng/ul | 77555 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T5

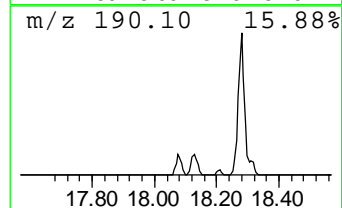
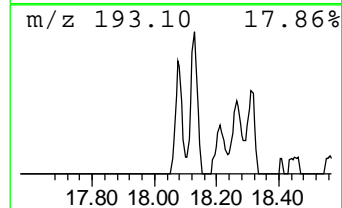
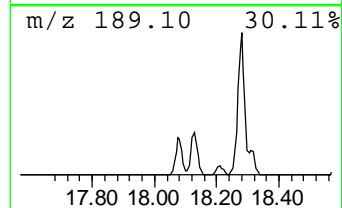
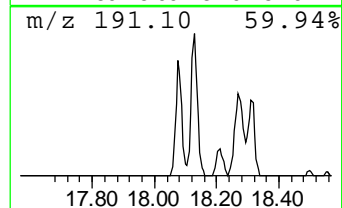
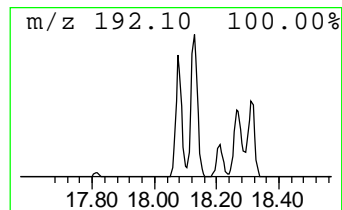
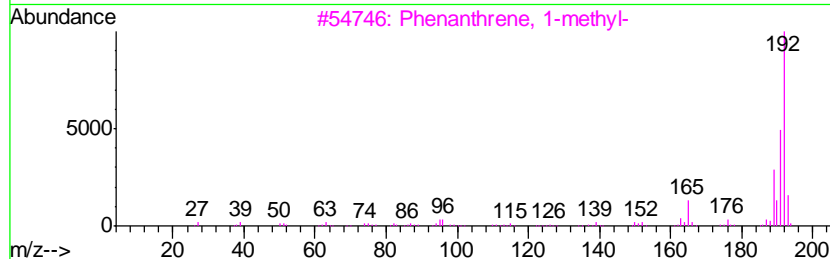
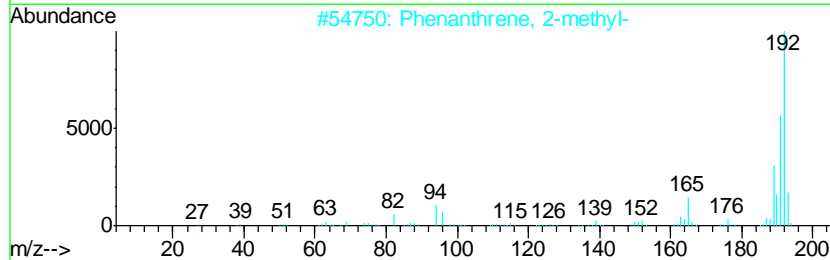
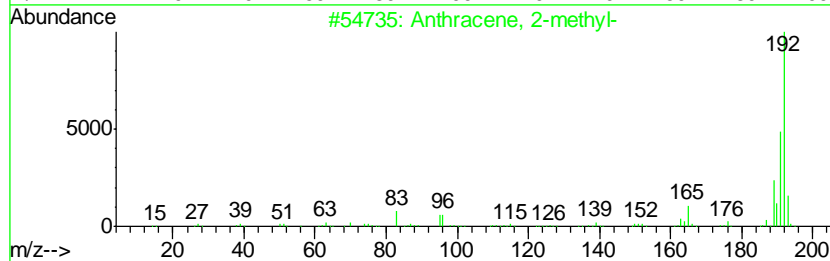
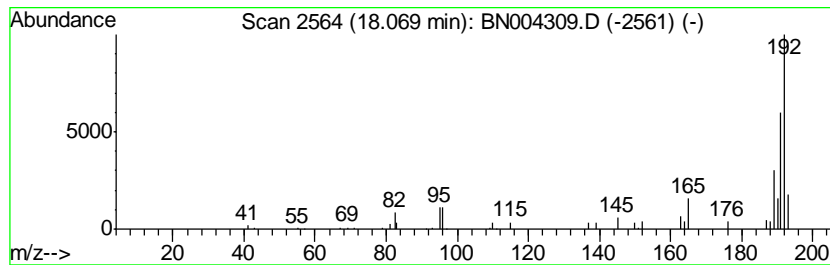
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 Anthracene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.07 | 2.57 ng/ul | 62076 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 4 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 5 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T5

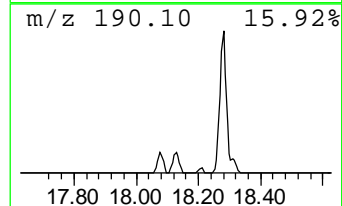
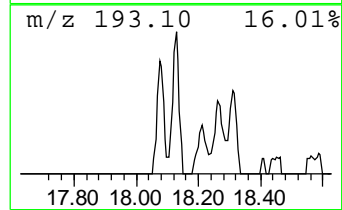
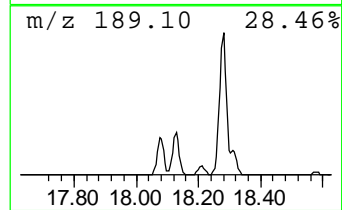
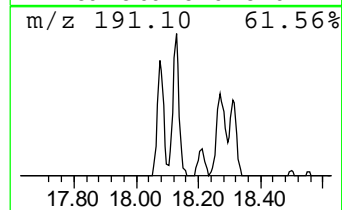
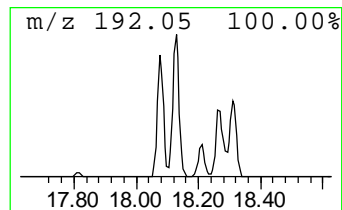
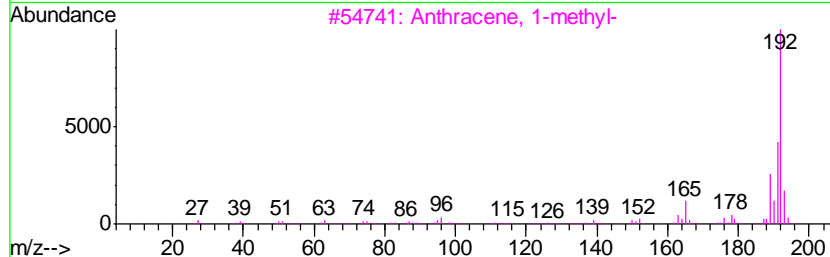
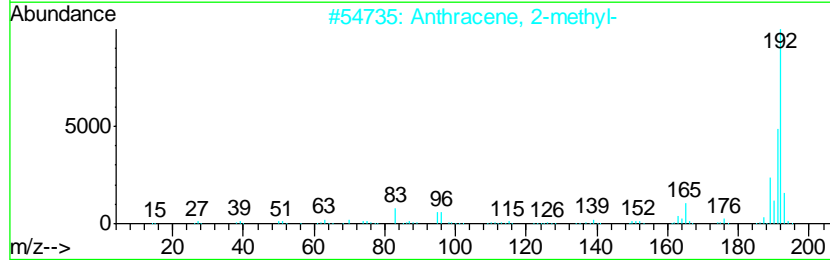
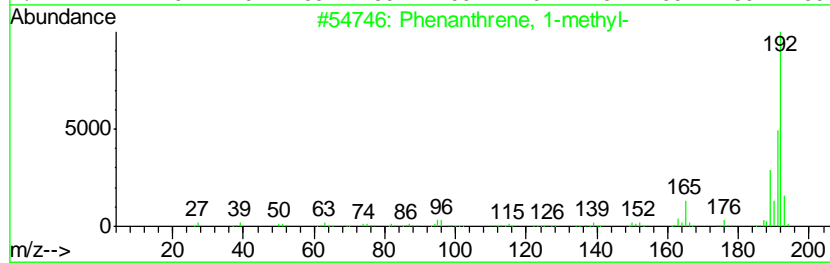
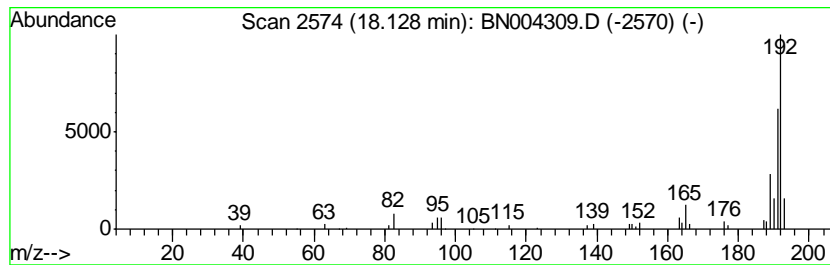
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 Phenanthrene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.13 | 3.12 ng/ul | 75478 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 2 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 3 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 4 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 5 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T5

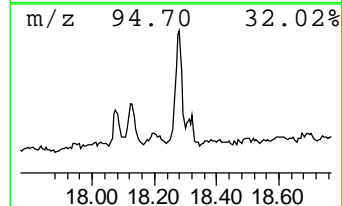
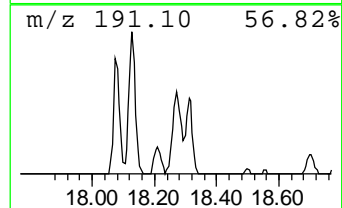
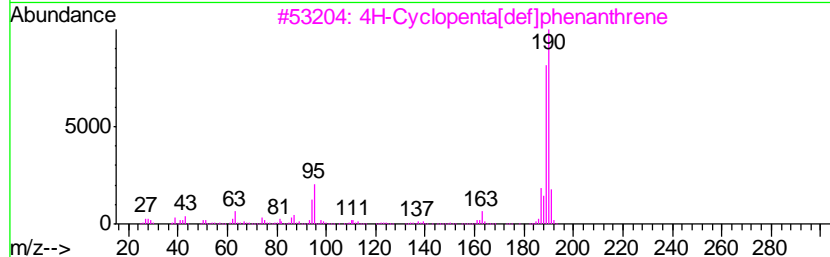
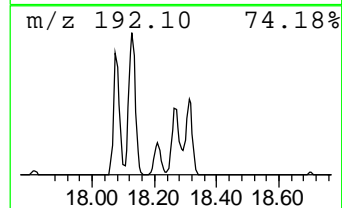
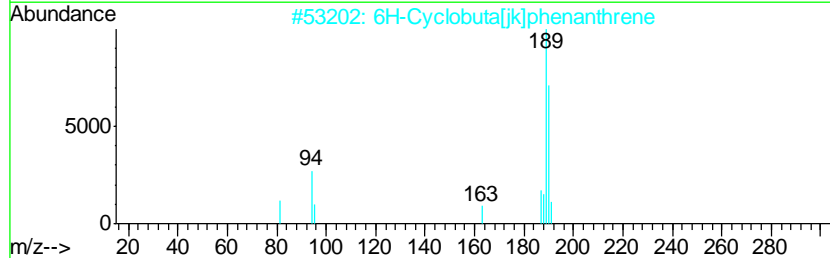
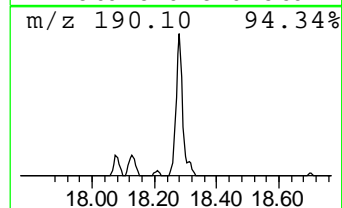
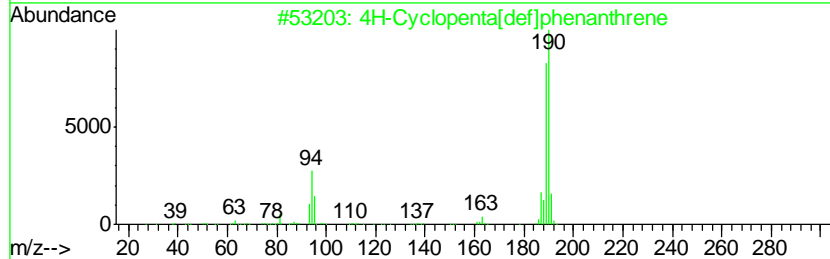
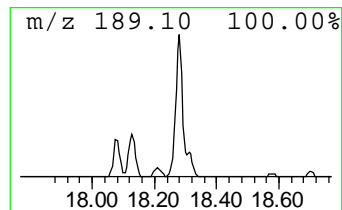
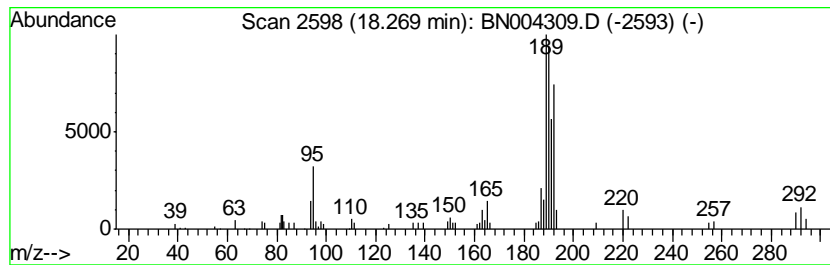
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.27 | 5.44 ng/ul | 131669 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 2 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 72 |
| 3 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 4 | | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 60 |
| 5 | | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 52 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T5

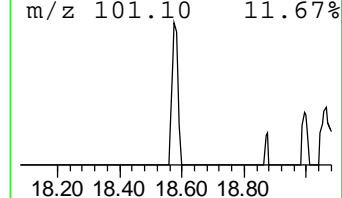
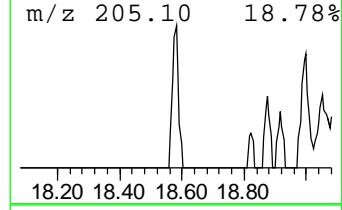
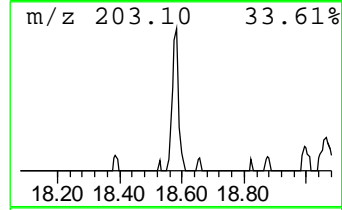
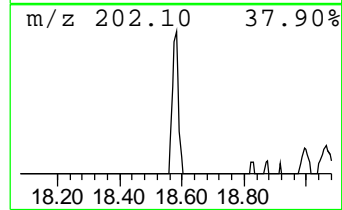
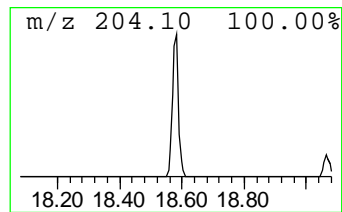
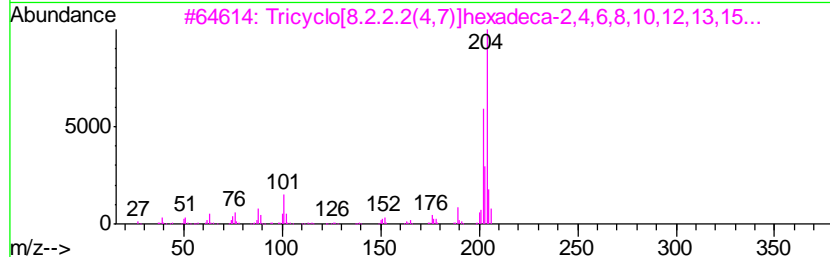
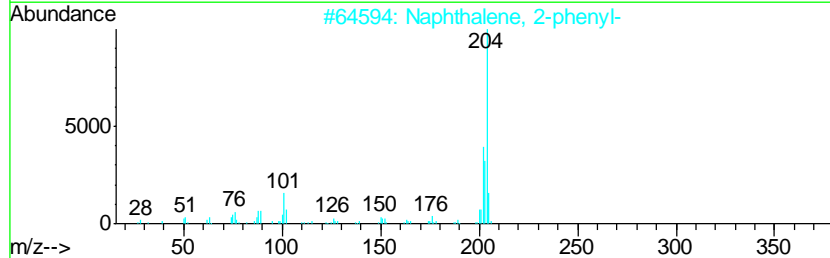
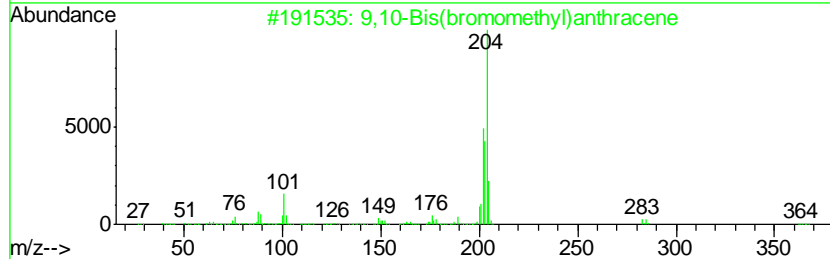
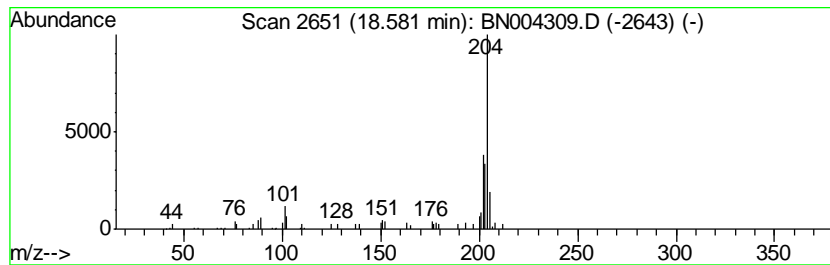
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 9,10-Bis(bromomethyl)anthra... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.58 | 2.75 ng/ul | 66433 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1 | 5 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 91 |
| 2 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 90 |
| 3 | | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 87 |
| 4 | | 5,16[1',2'] : 8,13[1',2']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 5 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T5

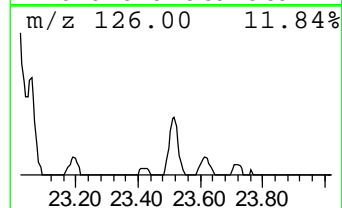
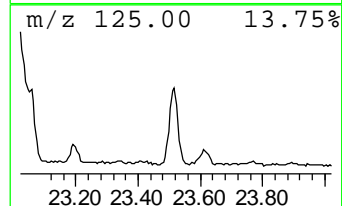
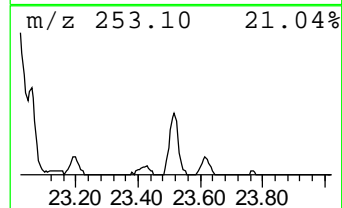
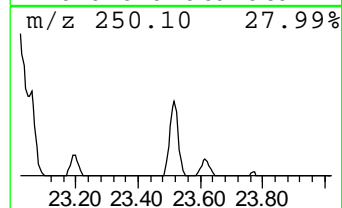
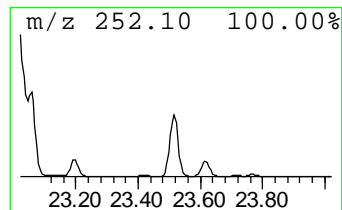
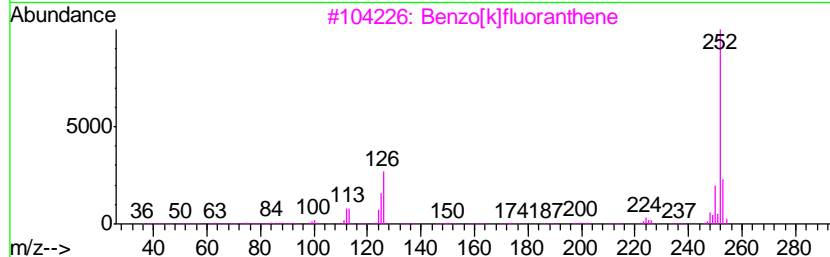
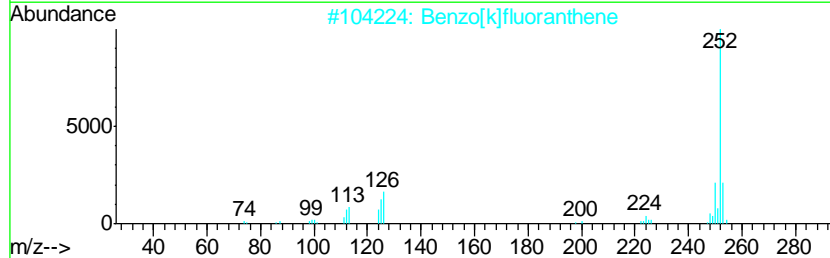
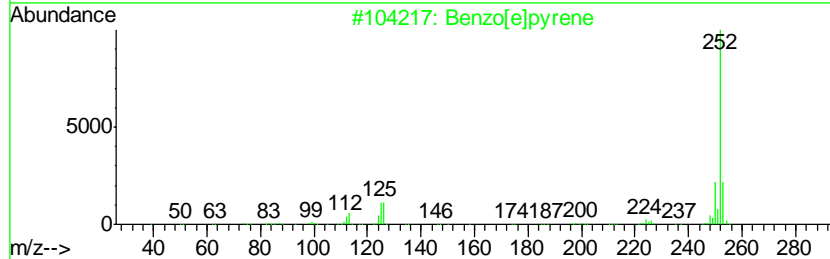
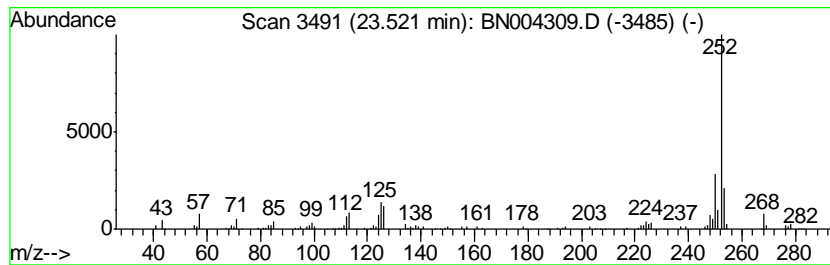
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 Benzo[e]pyrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 23.52 | 7.53 ng/ul | 166482 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 97 |
| 3 | | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 4 | | Perylene | 252 | C20H12 | 000198-55-0 | 94 |
| 5 | | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T5

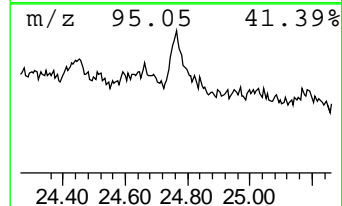
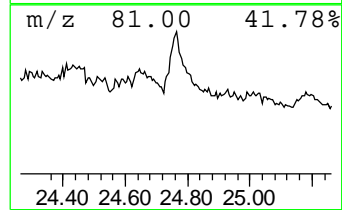
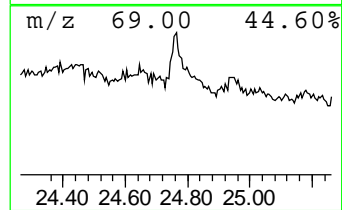
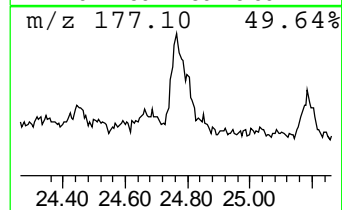
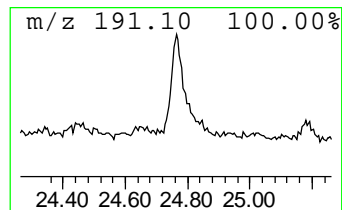
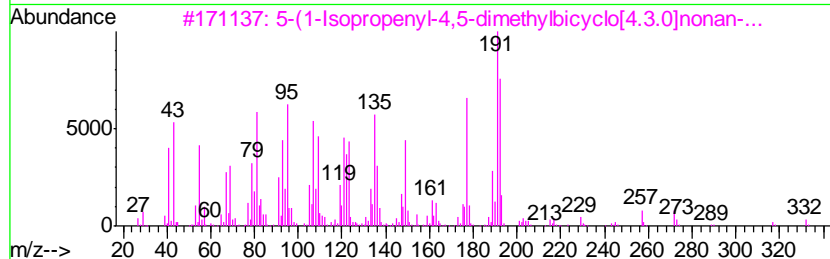
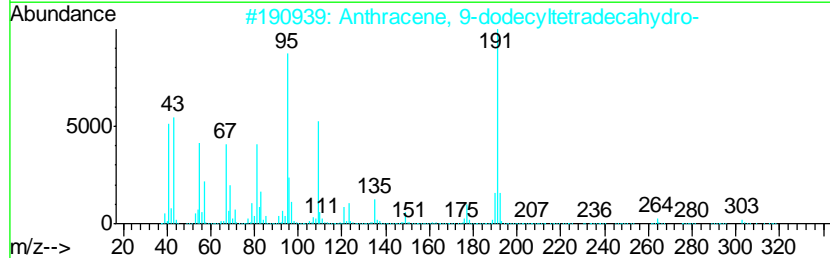
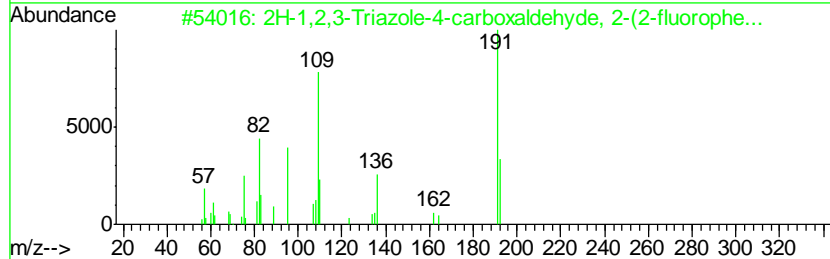
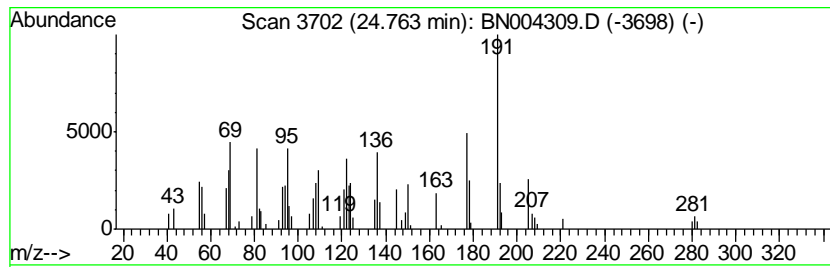
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 7 unknown24.76 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 24.76 | 2.03 ng/ul | 44985 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | 2H-1,2,3-Triazole-4-carboxaldehy... | 191 | C9H6FN3O | 051306-43-5 | 25 |
| 2 | | Anthracene, 9-dodecyltetradecahy... | 360 | C26H48 | 055401-75-7 | 16 |
| 3 | | 5-(1-Isopropenyl-4,5-dimethylbic... | 332 | C22H36O2 | 1000195-69-8 | 16 |
| 4 | | Anthracene, 9-butyltetradecahydro- | 248 | C18H32 | 055133-89-6 | 16 |
| 5 | | 1-Cyclohexene, 1,3,3-trimethyl-2... | 206 | C14H22O | 1000197-08-4 | 12 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T5

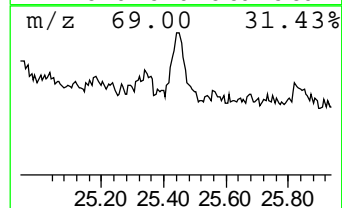
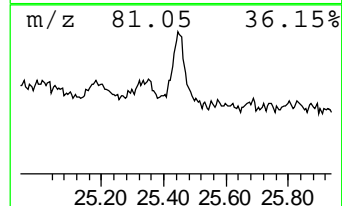
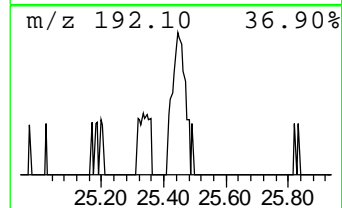
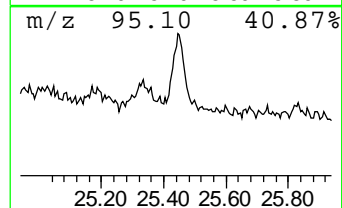
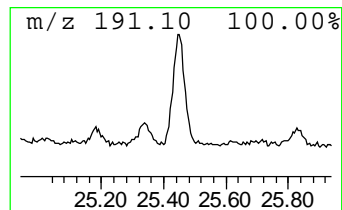
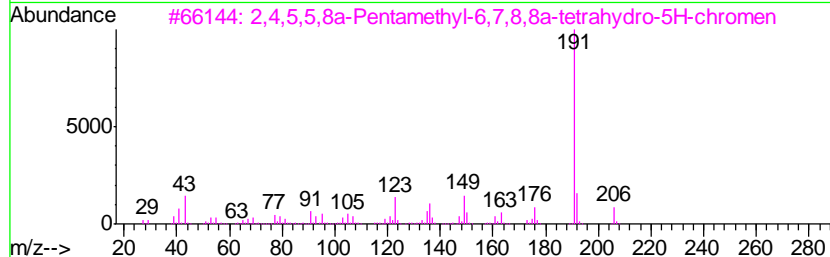
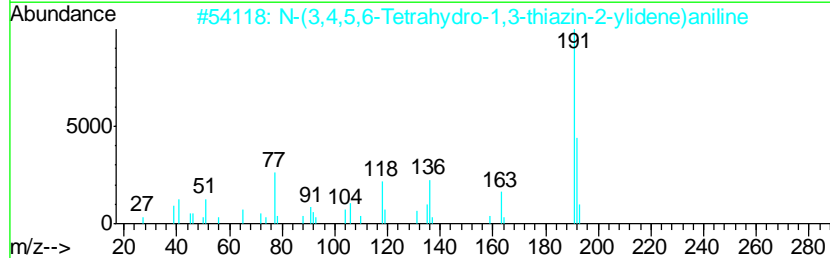
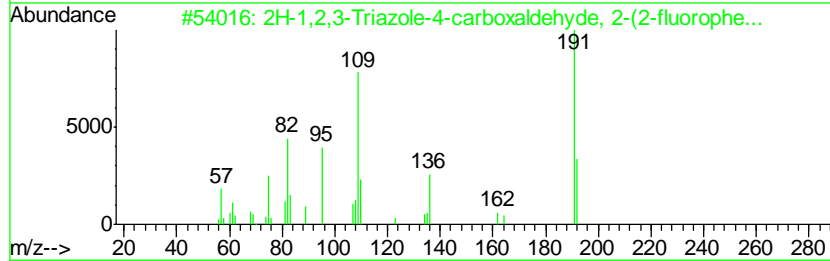
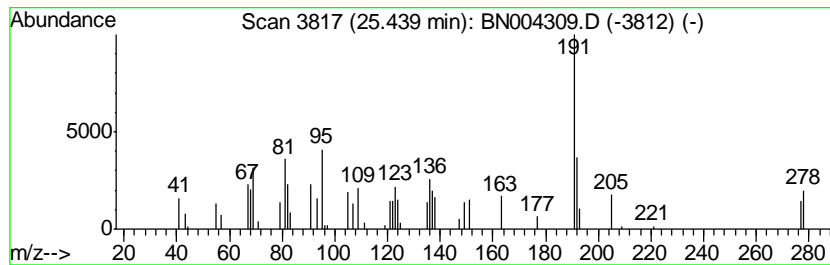
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 8 2H-1,2,3-Triazole-4-carboxa... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 25.44 | 2.01 ng/ul | 44489 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1 | 5 | 2H-1,2,3-Triazole-4-carboxaldehy... | 191 | C9H6FN3O | 051306-43-5 | 52 |
| 2 | | N-(3,4,5,6-Tetrahydro-1,3-thiazi... | 192 | C10H12N2S | 003420-40-4 | 38 |
| 3 | | 2,4,5,5,8a-Pentamethyl-6,7,8,8a-... | 206 | C14H22O | 1000195-40-9 | 38 |
| 4 | | .beta.-iso-Methyl ionone | 206 | C14H22O | 1000285-40-2 | 37 |
| 5 | | 2-Phenylamino-5,6(4H)dihydro-1,3... | 192 | C10H12N2S | 1000147-35-4 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004309.D
 Acq On : 02 Jan 2019 14:00
 Operator : JU/SJ
 Sample : J6428-02
 Misc : GCMS Confirmation
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 10.5 | ng/ul | 77555 | 1 | 7.82 | 147701 | 20.0 |
| Anthracene, 2-met... | 18.07 | 2.6 | ng/ul | 62076 | 4 | 17.20 | 483751 | 20.0 |
| Phenanthrene, 1-m... | 18.13 | 3.1 | ng/ul | 75478 | 4 | 17.20 | 483751 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 5.4 | ng/ul | 131669 | 4 | 17.20 | 483751 | 20.0 |
| 9,10-Bis(bromomet... | 18.58 | 2.8 | ng/ul | 66433 | 4 | 17.20 | 483751 | 20.0 |
| Benzo[e]pyrene | 23.52 | 7.5 | ng/ul | 166482 | 6 | 23.72 | 442446 | 20.0 |
| unknown24.76 | 24.76 | 2.0 | ng/ul | 44985 | 6 | 23.72 | 442446 | 20.0 |
| 2H-1,2,3-Triazole... | 25.44 | 2.0 | ng/ul | 44489 | 6 | 23.72 | 442446 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T5DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-02DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035064.D
 % Solids : 84.8 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 190 | U |
| 11104-28-2 | Aroclor-1221 | 190 | U |
| 11141-16-5 | Aroclor-1232 | 190 | U |
| 53469-21-9 | Aroclor-1242 | 190 | U |
| 12672-29-6 | Aroclor-1248 | 3000 | D |
| 11097-69-1 | Aroclor-1254 | 190 | U |
| 11096-82-5 | Aroclor-1260 | 12000 | ED |
| 37324-23-5 | Aroclor-1262 | 190 | U |
| 11100-14-4 | Aroclor-1268 | 190 | U |

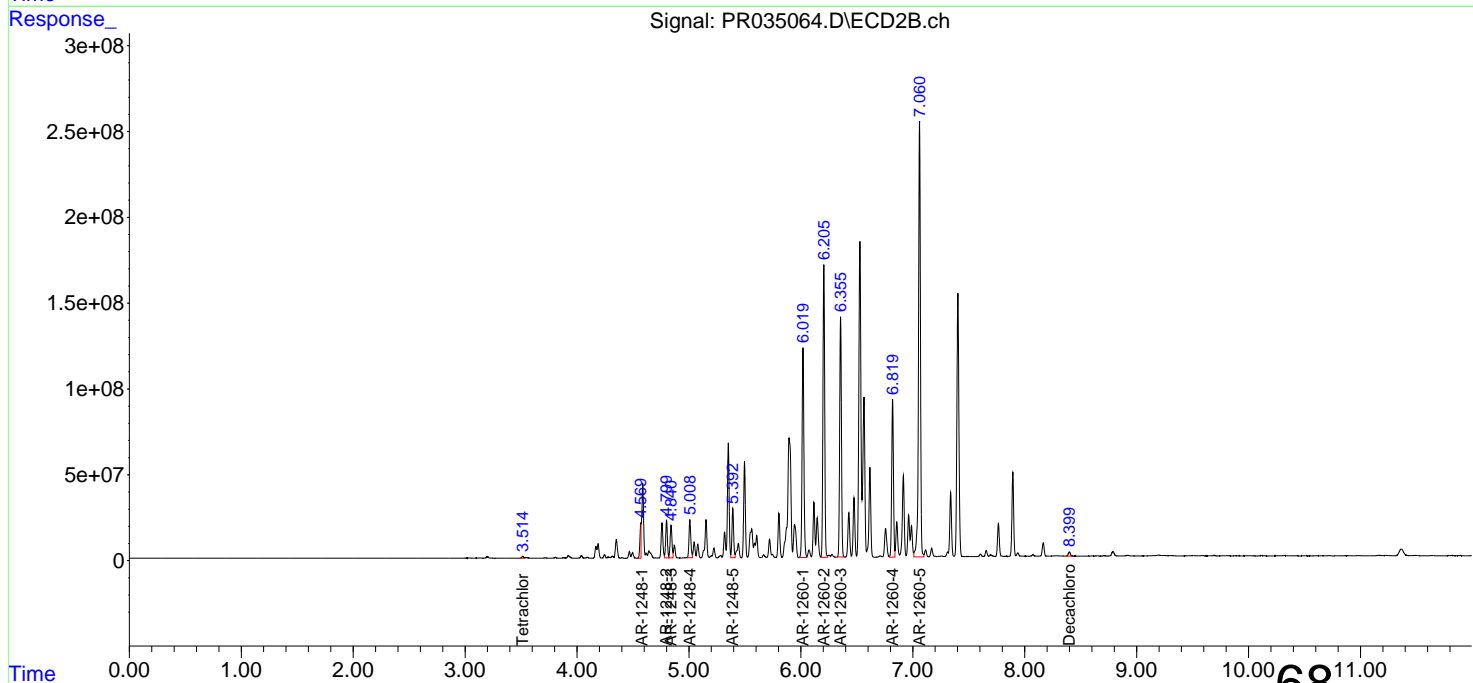
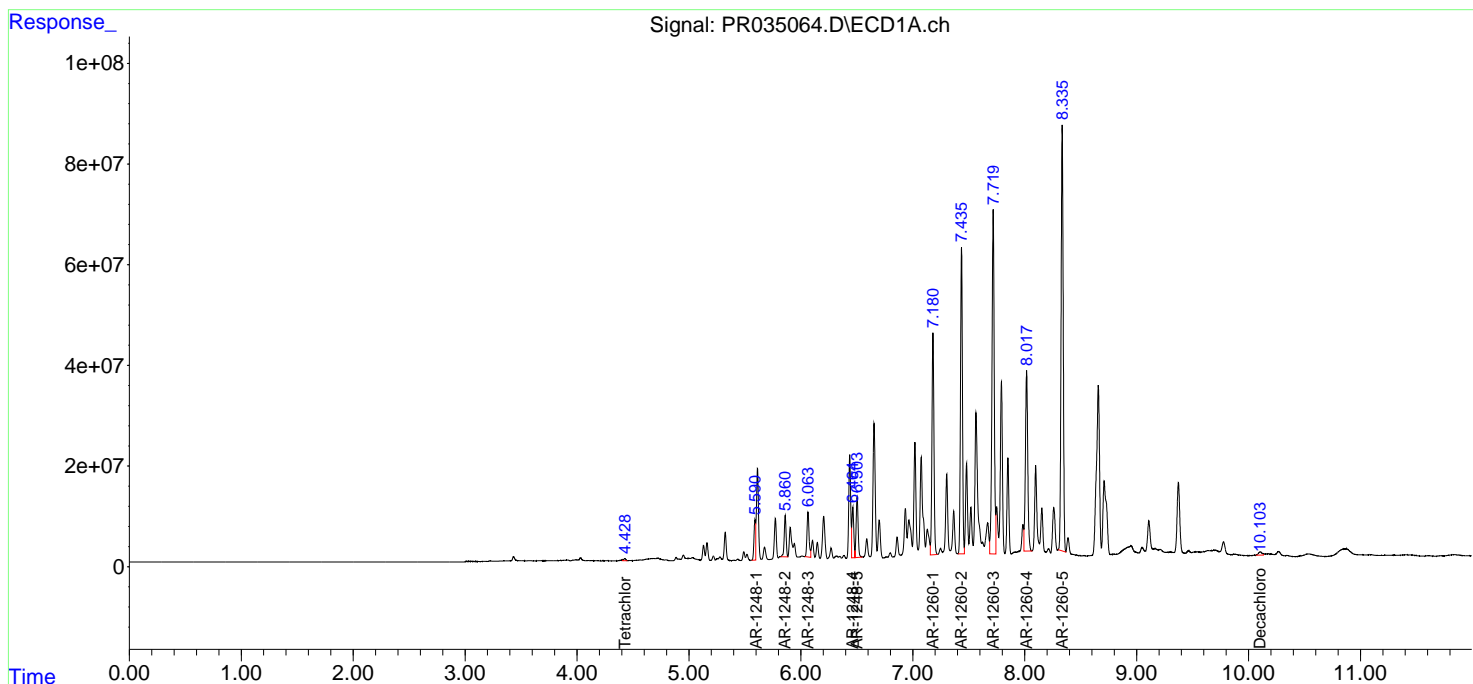
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 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T5DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 5932071 | 12108251 | 3.050m | 3.473 |
| 2) SA Decachlor... | 10.103 | 8.399 | 13996509 | 29728755 | 7.120m | 6.762 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.569 | 77520593 | 151.3E6 | 1597.617 | 1552.224m |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 96259860 | 228.1E6 | 1456.860 | 1780.774 |
| 23) L5 AR-1248-3 | 6.064 | 4.840 | 115.2E6 | 216.4E6 | 1542.351 | 1639.525 |
| 24) L5 AR-1248-4 | 6.465 | 5.008 | 115.5E6 | 250.7E6 | 1292.431 | 1523.851m |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 149.8E6 | 299.9E6 | 1790.159 | 1792.044 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 550.2E6 | 1389.3E6 | 5852.451 | 6462.609 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 736.2E6 | 1863.5E6 | 6341.026 | 6848.194 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 970.4E6 | 1540.6E6 | 6953.349 | 6206.224 |
| 34) L7 AR-1260-4 | 8.017 | 6.820 | 520.2E6 | 1004.0E6 | 6023.432 | 5871.701 |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 1125.6E6 | 3064.5E6 | 6234.300 | 6336.186 |

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

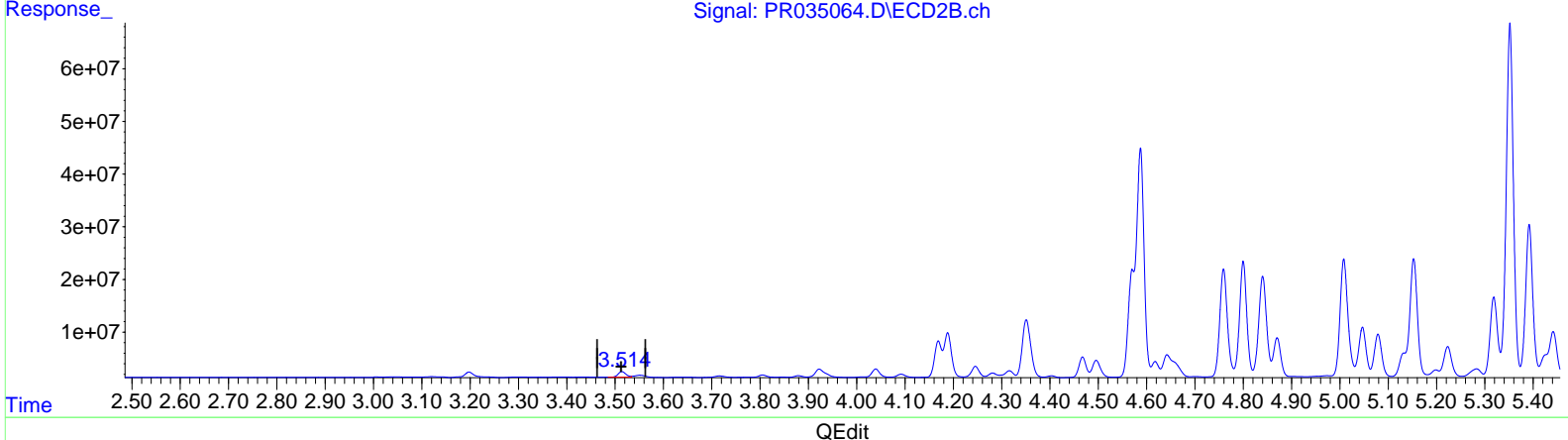
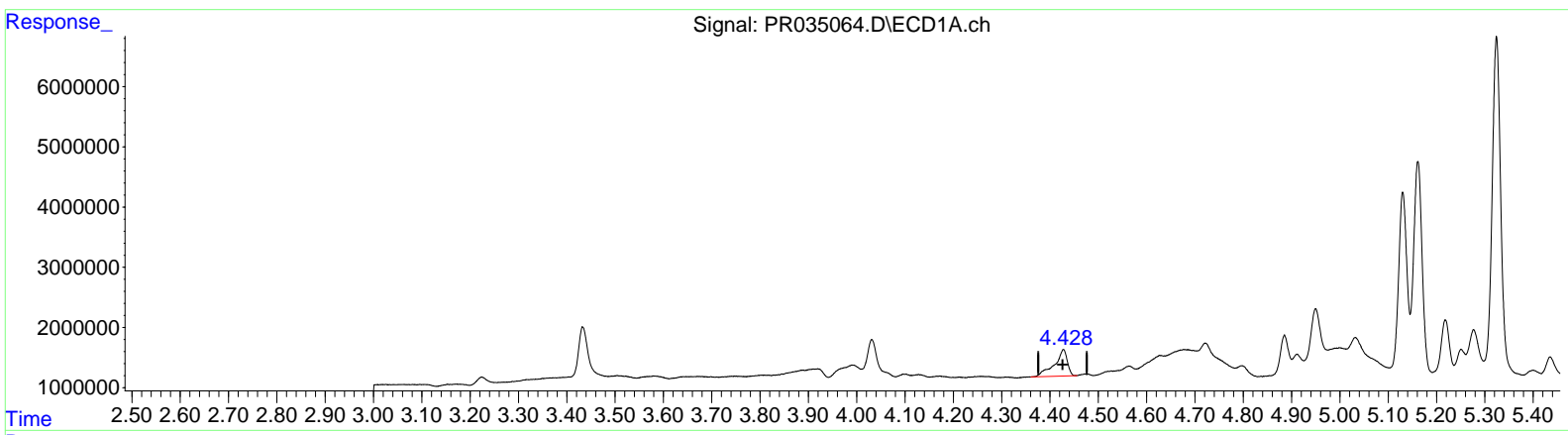
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 Data File : PR035064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T5DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.428min 4.222 ng/ml
 response 8211580

(1) Tetrachloro-m-xylene #2 (SA)
 3.514min 3.473 ng/ml
 response 12108251

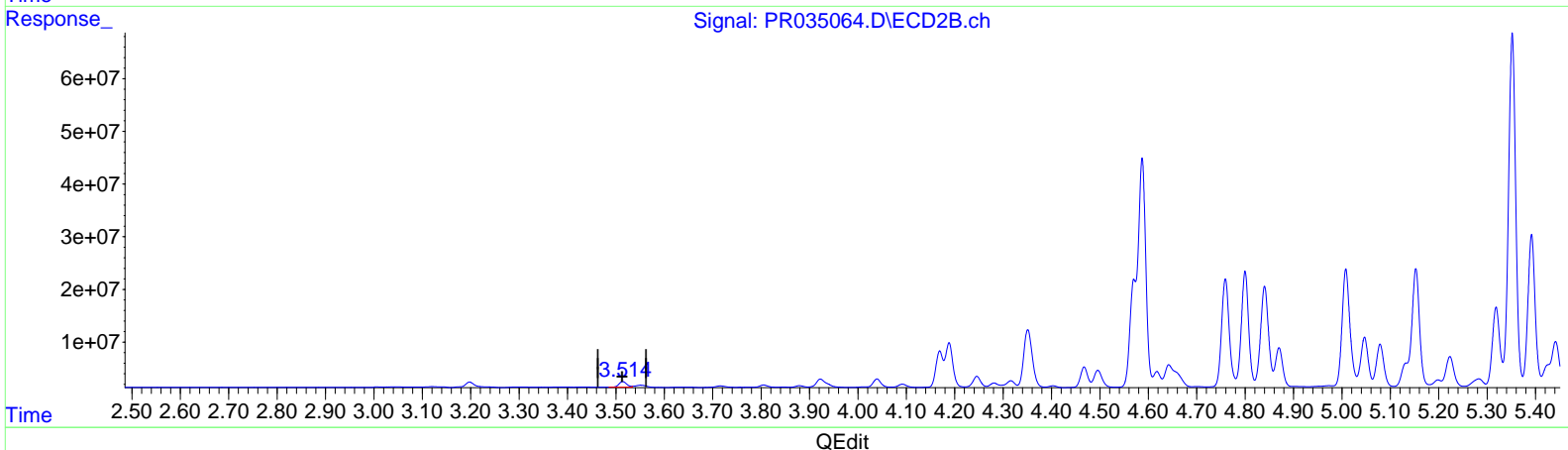
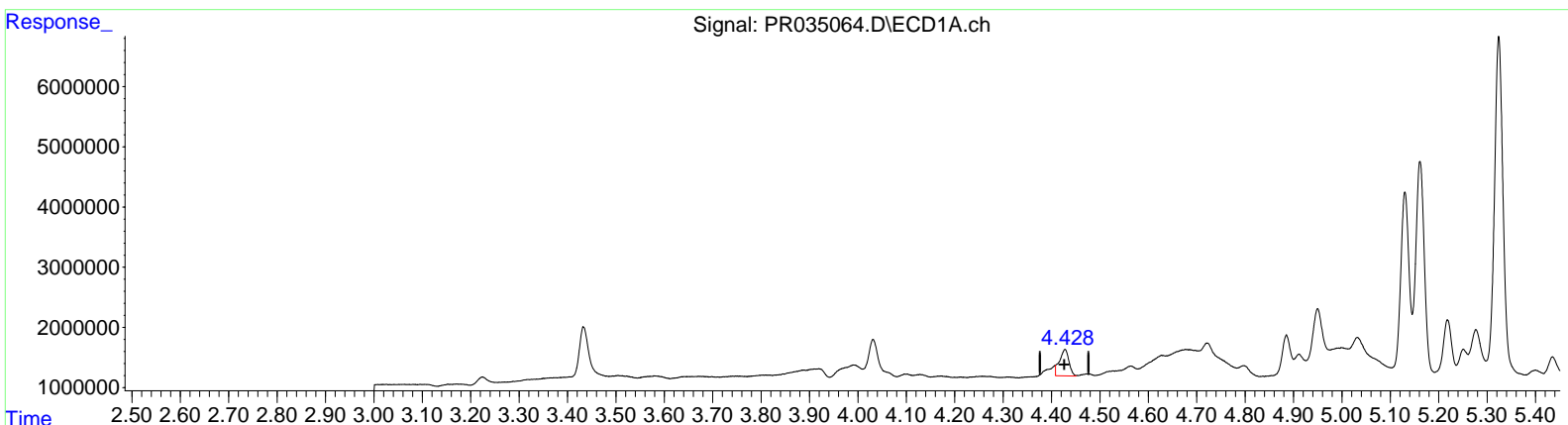
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 Data File : PR035064.D
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 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T5DL

Manual Integrations
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 Sohil
 12/29/2018 12:17:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.428min 3.050 ng/ml m
 response 5932071

(1) Tetrachloro-m-xylene #2 (SA)
 3.514min 3.473 ng/ml
 response 12108251

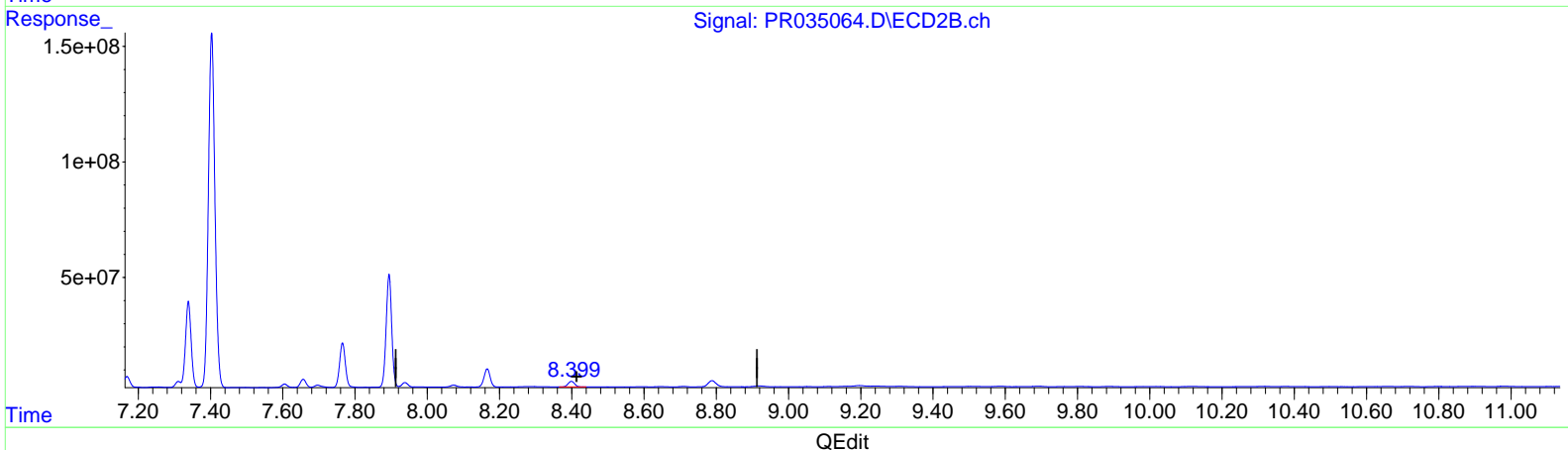
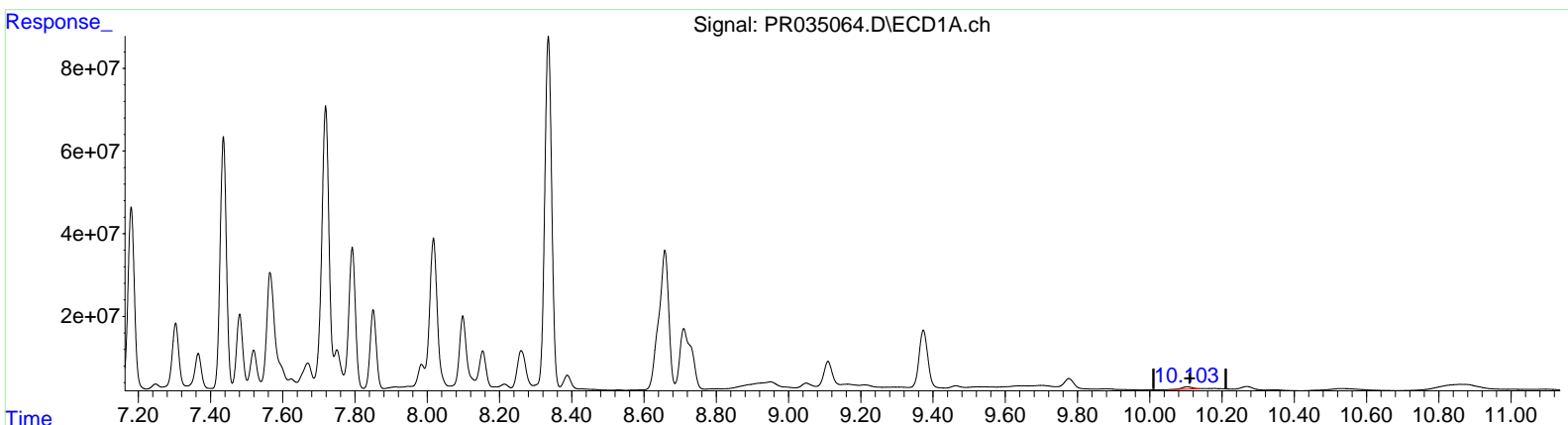
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 Data File : PR035064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T5DL

Manual Integrations
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 12/29/2018 12:17:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)

10.104min 5.517 ng/ml

response 10845482

(2) Decachlorobiphenyl #2 (SA)

8.399min 6.762 ng/ml

response 29728755

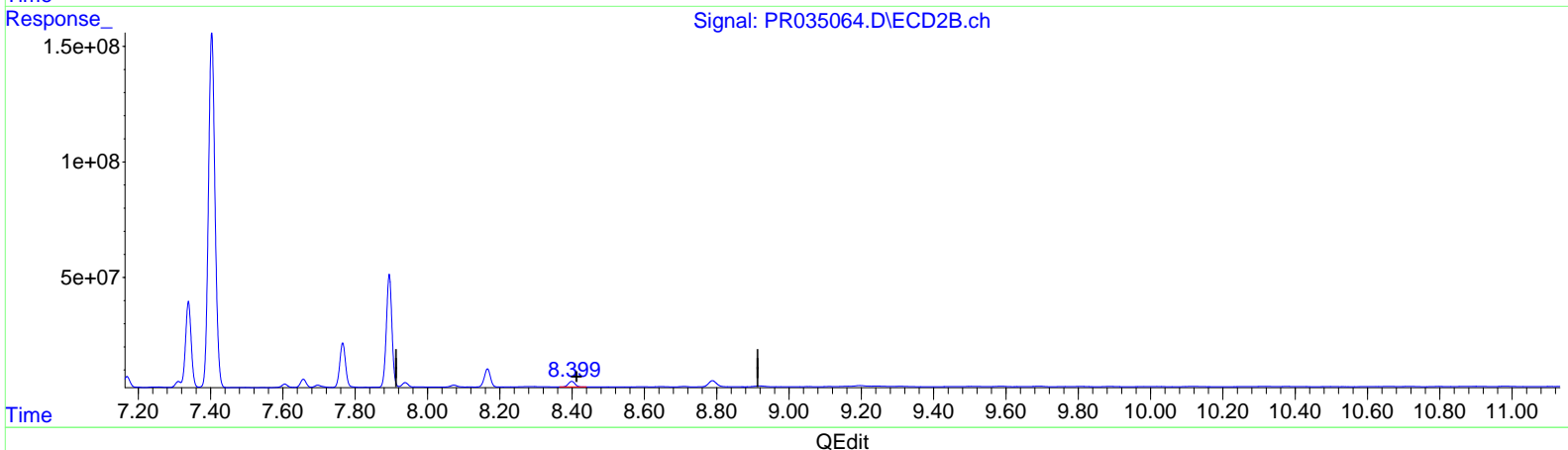
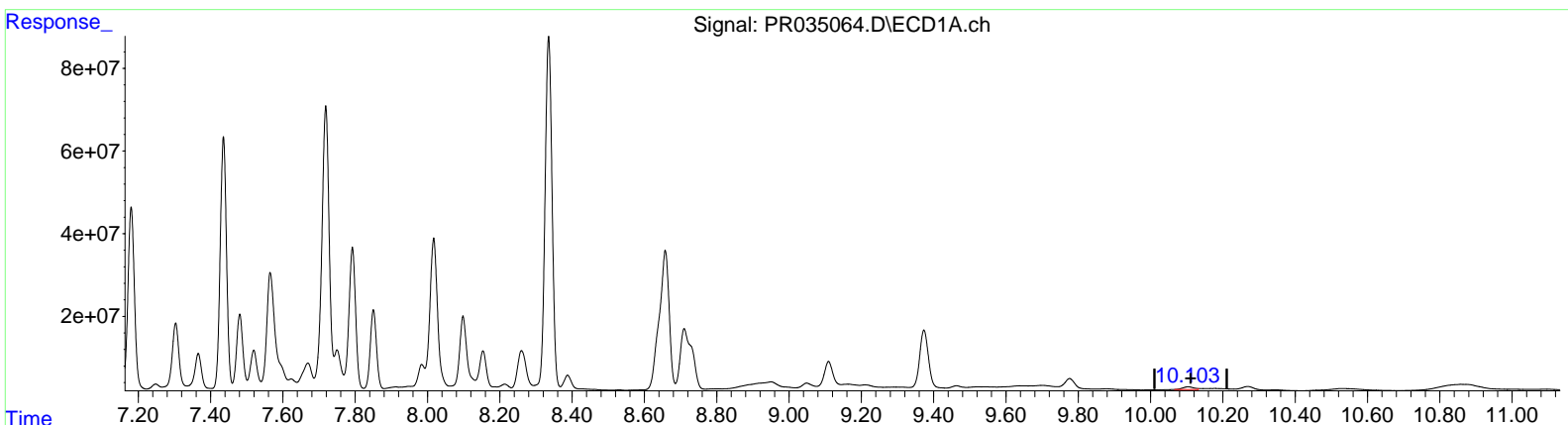
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 Data File : PR035064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T5DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.103min 7.120 ng/ml m
 response 13996509

(2) Decachlorobiphenyl #2 (SA)
 8.399min 6.762 ng/ml
 response 29728755

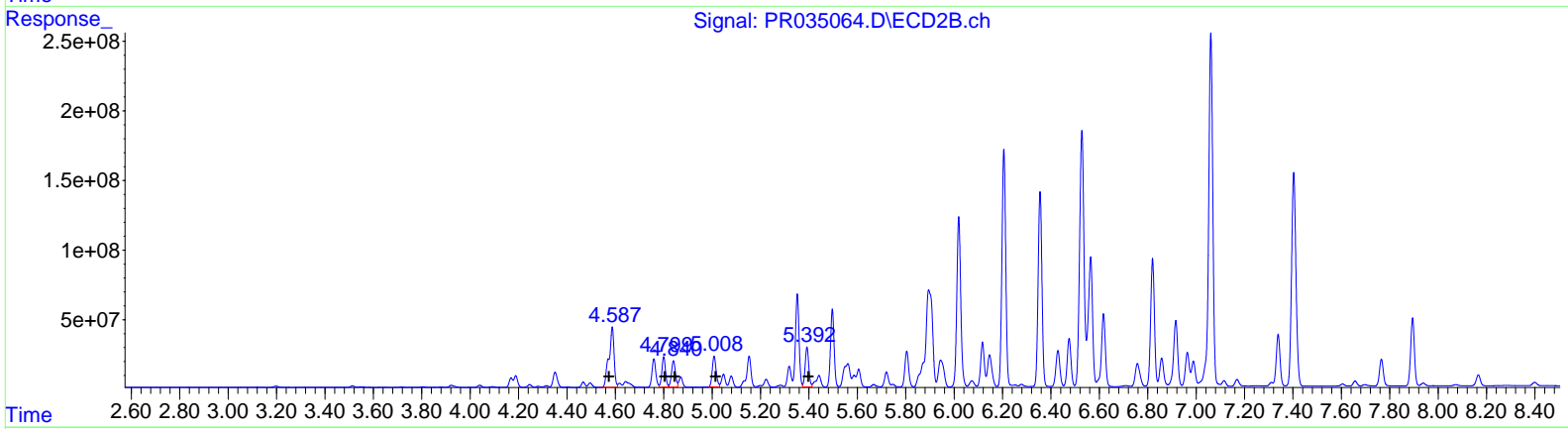
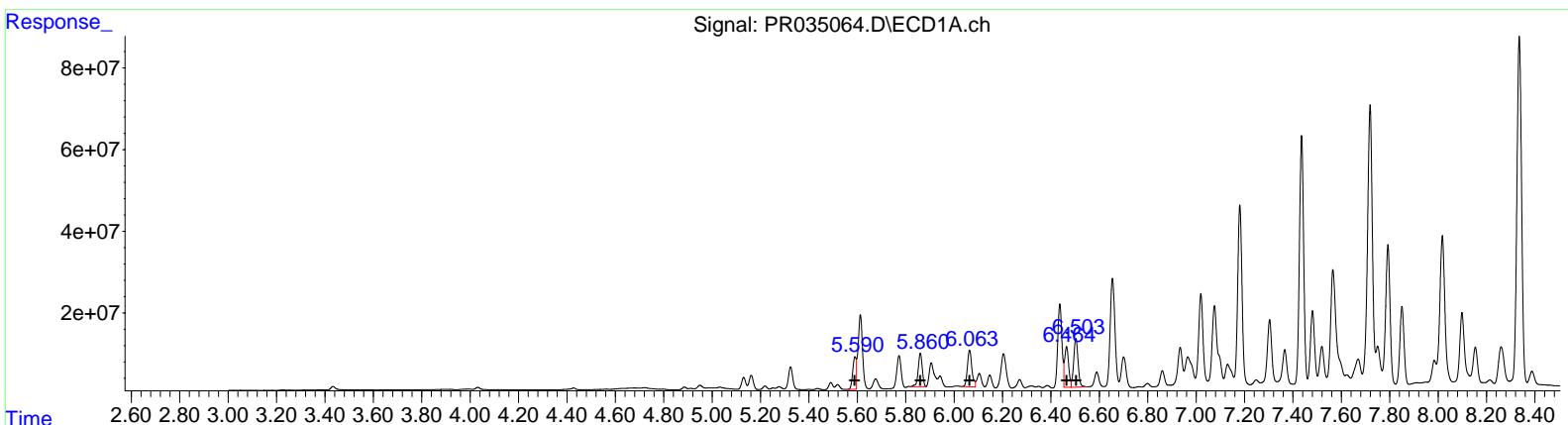
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 Data File : PR035064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 77520593 | 1597.62 |
| 5.86 | 96259860 | 1456.86 |
| 6.06 | 115236612 | 1542.35 |
| 6.46 | 115473435 | 1292.43 |
| 6.50 | 149779426 | 1790.16 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 640071857 | 6564.73 |
| 4.80 | 228121497 | 1780.77 |
| 4.84 | 216379949 | 1639.53 |
| 5.01 | 249131024 | 1514.20 |
| 5.39 | 299908778 | 1792.04 |

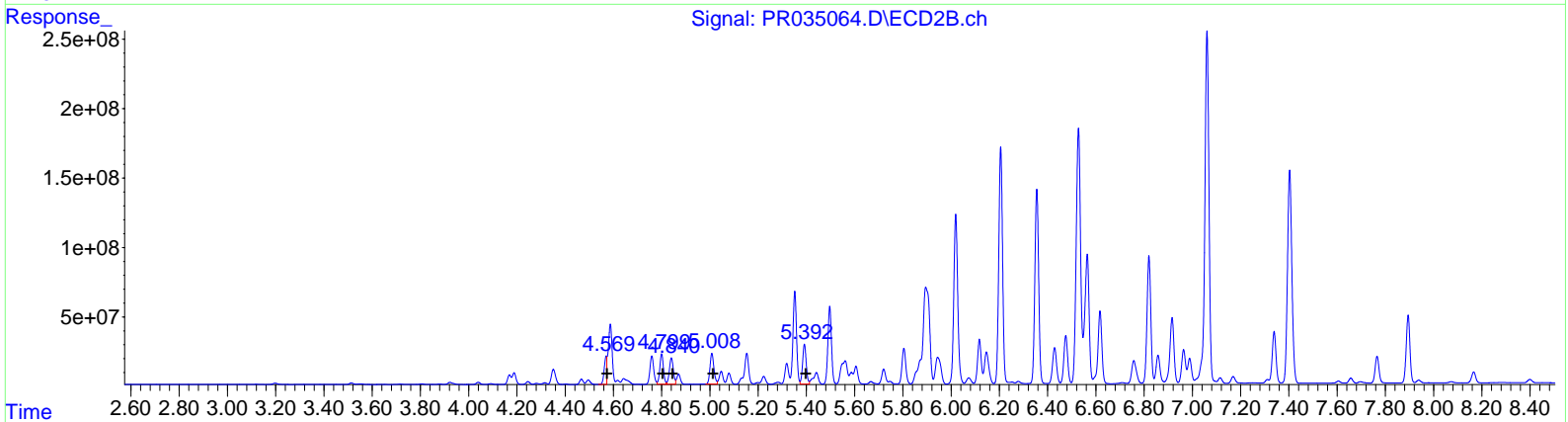
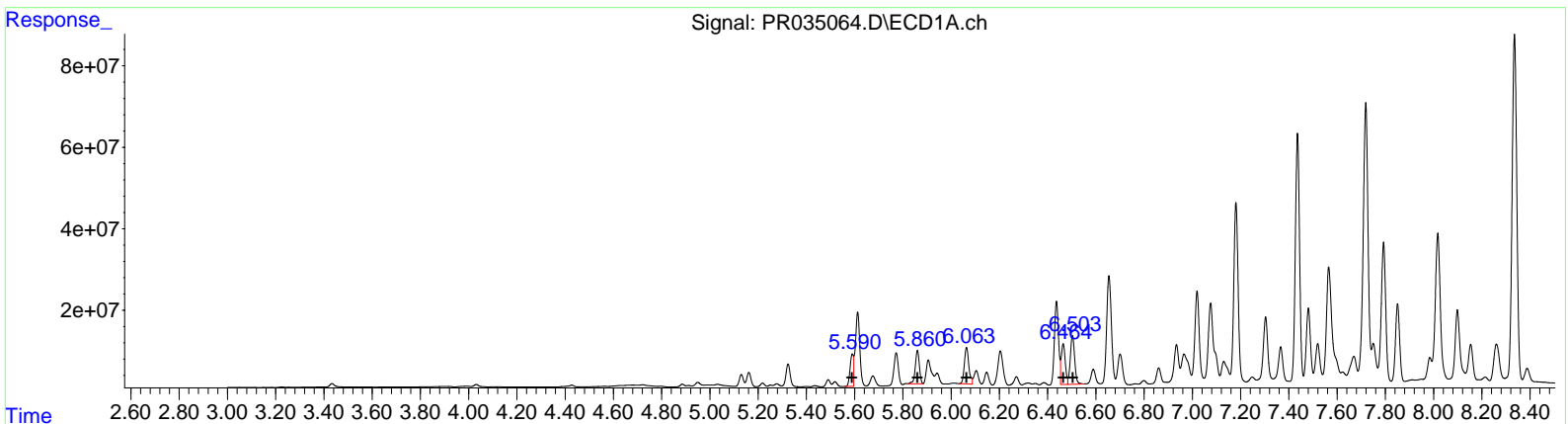
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 77520593 | 1597.62 |
| 5.86 | 96259860 | 1456.86 |
| 6.06 | 115236612 | 1542.35 |
| 6.46 | 115473435 | 1292.43 |
| 6.50 | 149779426 | 1790.16 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 151344482 | 1552.22 |
| 4.80 | 228121497 | 1780.77 |
| 4.84 | 216379949 | 1639.53 |
| 5.01 | 250719623 | 1523.85 |
| 5.39 | 299908778 | 1792.04 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035064.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:42
 Operator : SM\SJ
 Sample : J6428-02DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:33:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 5932071 | 12108251 | 3.050m | 3.473 |
| 2) SA Decachlor... | 10.103 | 8.399 | 13996509 | 29728755 | 7.120m | 6.762 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.569 | 77520593 | 151.3E6 | 1597.617 | 1552.224m |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 96259860 | 228.1E6 | 1456.860 | 1780.774 |
| 23) L5 AR-1248-3 | 6.064 | 4.840 | 115.2E6 | 216.4E6 | 1542.351 | 1639.525 |
| 24) L5 AR-1248-4 | 6.465 | 5.008 | 115.5E6 | 250.7E6 | 1292.431 | 1523.851m |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 149.8E6 | 299.9E6 | 1790.159 | 1792.044 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 550.2E6 | 1389.3E6 | 5852.451 | 6462.609 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 736.2E6 | 1863.5E6 | 6341.026 | 6848.194 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 970.4E6 | 1540.6E6 | 6953.349 | 6206.224 |
| 34) L7 AR-1260-4 | 8.017 | 6.820 | 520.2E6 | 1004.0E6 | 6023.432 | 5871.701 |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 1125.6E6 | 3064.5E6 | 6234.300 | 6336.186 |
| ----- | | | | | | |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T5DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-02DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035065.D
 % Solids : 84.8 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 50.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1900 | U |
| 11104-28-2 | Aroclor-1221 | 1900 | U |
| 11141-16-5 | Aroclor-1232 | 1900 | U |
| 53469-21-9 | Aroclor-1242 | 1900 | U |
| 12672-29-6 | Aroclor-1248 | 5600 | D |
| 11097-69-1 | Aroclor-1254 | 1900 | U |
| 11096-82-5 | Aroclor-1260 | 20000 | D |
| 37324-23-5 | Aroclor-1262 | 1900 | U |
| 11100-14-4 | Aroclor-1268 | 1900 | U |

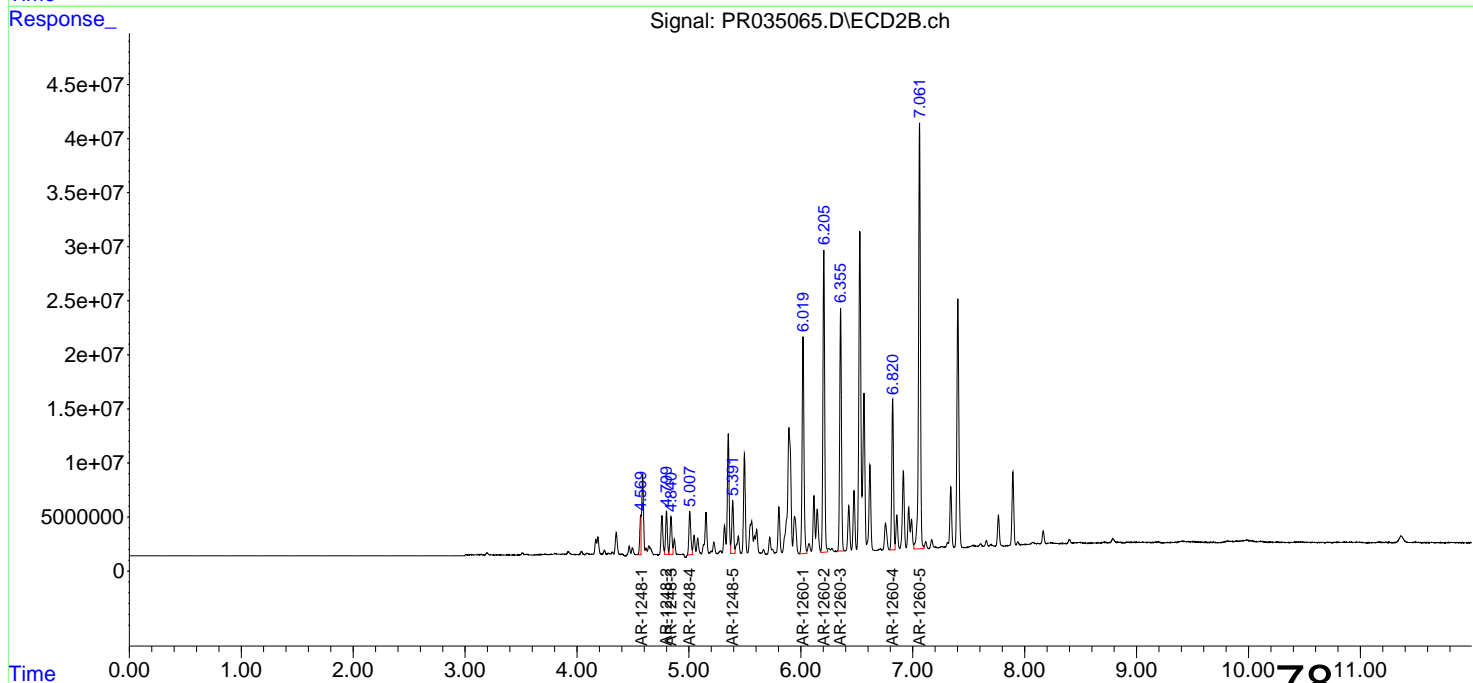
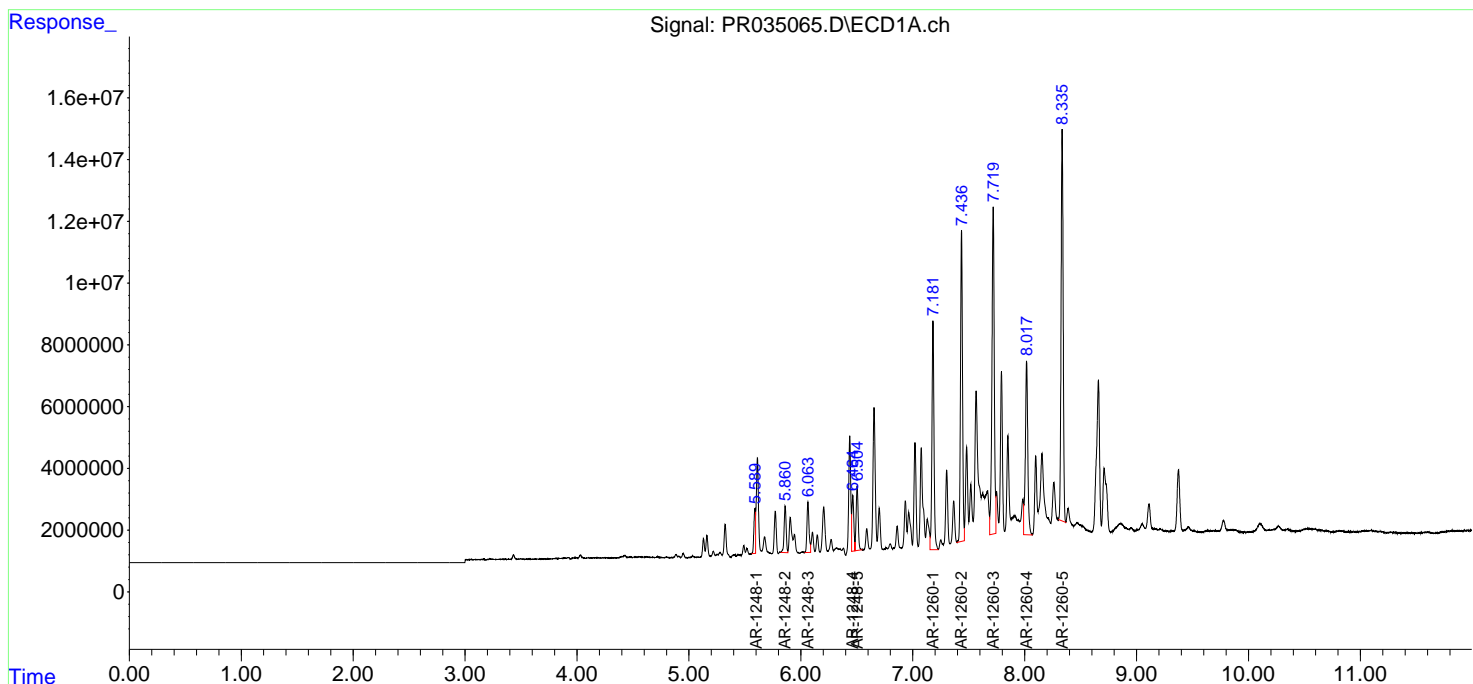
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 Data File : PR035065.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:56
 Operator : SM\SJ
 Sample : J6428-02DL2 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5DL2

Manual Integrations
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 12/29/2018 12:17:37 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:30:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035065.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:56
 Operator : SM\SJ
 Sample : J6428-02DL2 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41T5DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:37 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:30:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

Target Compounds

| | | | | | | | | |
|-----|----|-----------|-------|-------|----------|----------|-----------|----------|
| 21) | L5 | AR-1248-1 | 5.590 | 4.569 | 14236583 | 27703358 | 293.401 | 284.132m |
| 22) | L5 | AR-1248-2 | 5.860 | 4.800 | 19181373 | 42525885 | 290.304 | 331.968 |
| 23) | L5 | AR-1248-3 | 6.063 | 4.840 | 21309281 | 40778473 | 285.208 | 308.981 |
| 24) | L5 | AR-1248-4 | 6.465 | 5.008 | 21396774 | 47089563 | 239.482 | 286.206 |
| 25) | L5 | AR-1248-5 | 6.503 | 5.392 | 27023483 | 56822067 | 322.984 | 339.529 |
| 31) | L7 | AR-1260-1 | 7.181 | 6.020 | 94733626 | 232.1E6 | 1007.719m | 1079.894 |
| 32) | L7 | AR-1260-2 | 7.436 | 6.205 | 125.4E6 | 306.6E6 | 1079.789 | 1126.844 |
| 33) | L7 | AR-1260-3 | 7.719 | 6.355 | 154.0E6 | 245.5E6 | 1103.820 | 989.072 |
| 34) | L7 | AR-1260-4 | 8.017 | 6.821 | 86079186 | 153.0E6 | 996.707m | 894.979 |
| 35) | L7 | AR-1260-5 | 8.335 | 7.061 | 165.8E6 | 463.1E6 | 918.275 | 957.558 |

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

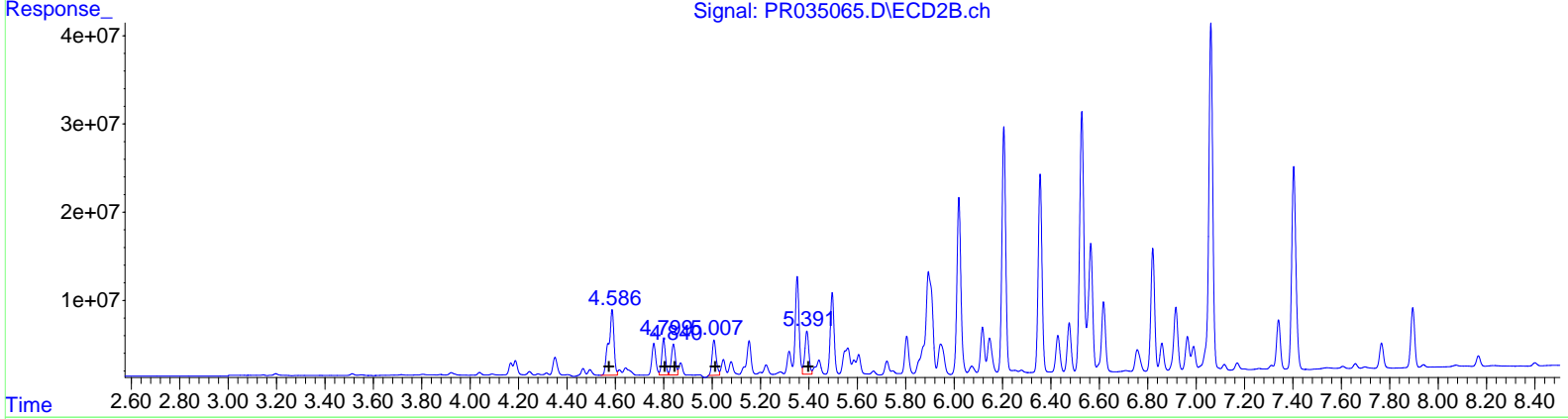
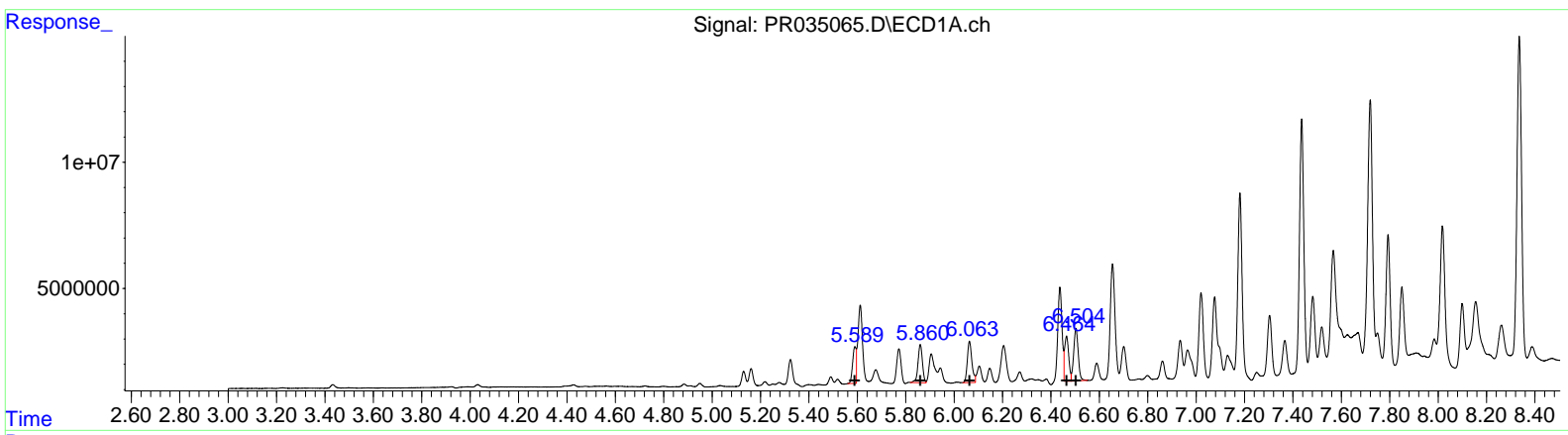
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
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 Sample : J6428-02DL2 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5DL2

Manual Integrations
APPROVED
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Integration File signal 1: autoint1.e
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 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 14236583 | 293.40 |
| 5.86 | 19181373 | 290.30 |
| 6.06 | 21309281 | 285.21 |
| 6.46 | 21396774 | 239.48 |
| 6.50 | 27023483 | 322.98 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 113094575 | 1159.92 |
| 4.80 | 42525885 | 331.97 |
| 4.84 | 40778473 | 308.98 |
| 5.01 | 47089563 | 286.21 |
| 5.39 | 56822067 | 339.53 |

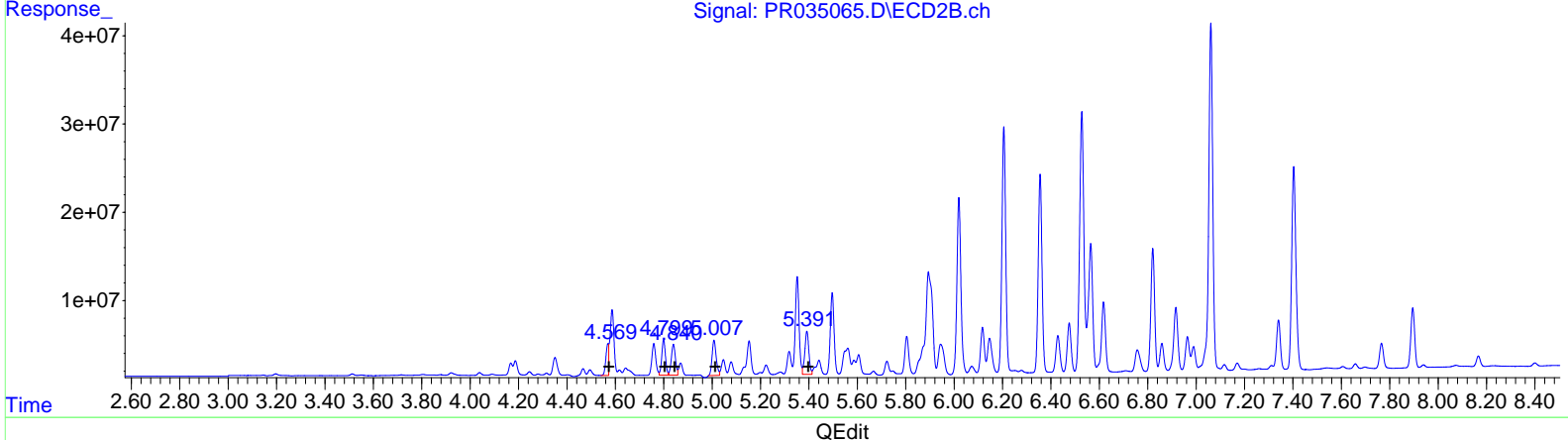
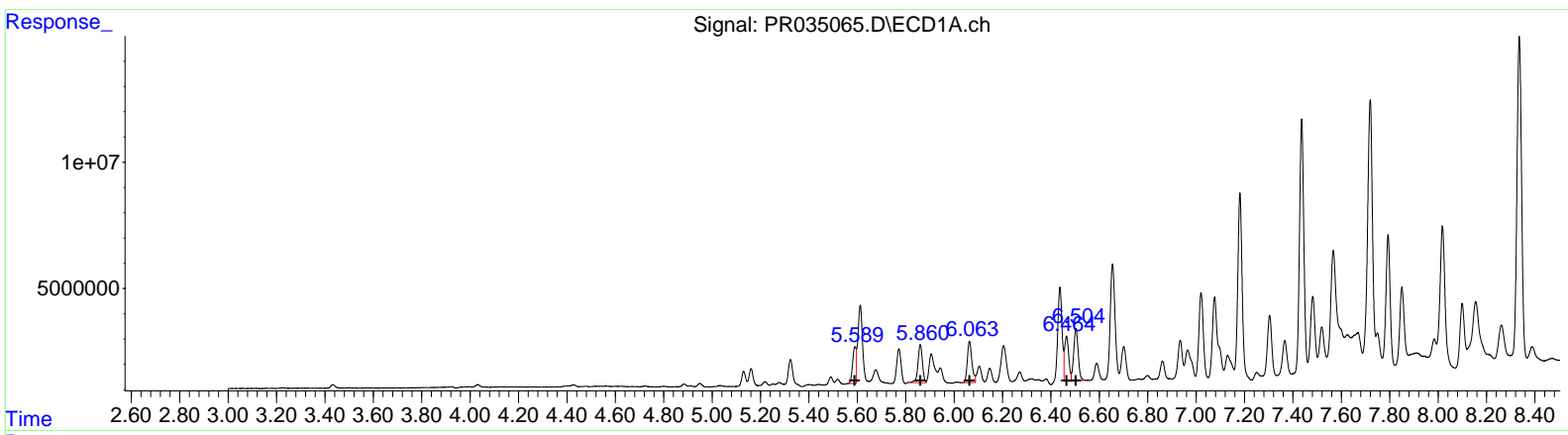
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035065.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:56
 Operator : SM\SJ
 Sample : J6428-02DL2 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T5DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:37 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:30:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
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 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 14236583 | 293.40 |
| 5.86 | 19181373 | 290.30 |
| 6.06 | 21309281 | 285.21 |
| 6.46 | 21396774 | 239.48 |
| 6.50 | 27023483 | 322.98 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 27703358 | 284.13 |
| 4.80 | 42525885 | 331.97 |
| 4.84 | 40778473 | 308.98 |
| 5.01 | 47089563 | 286.21 |
| 5.39 | 56822067 | 339.53 |

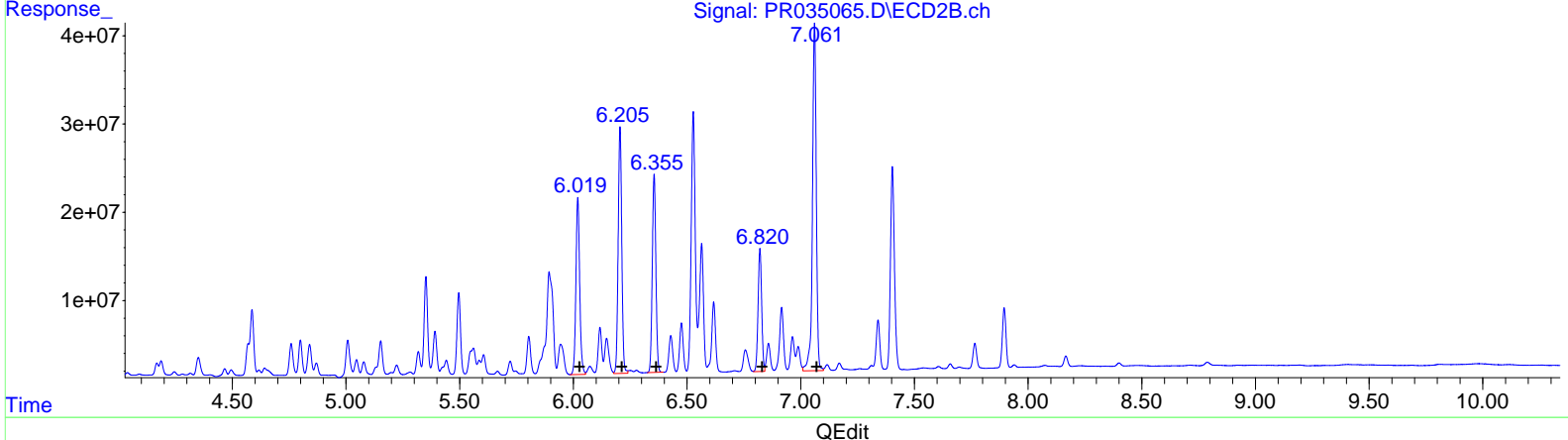
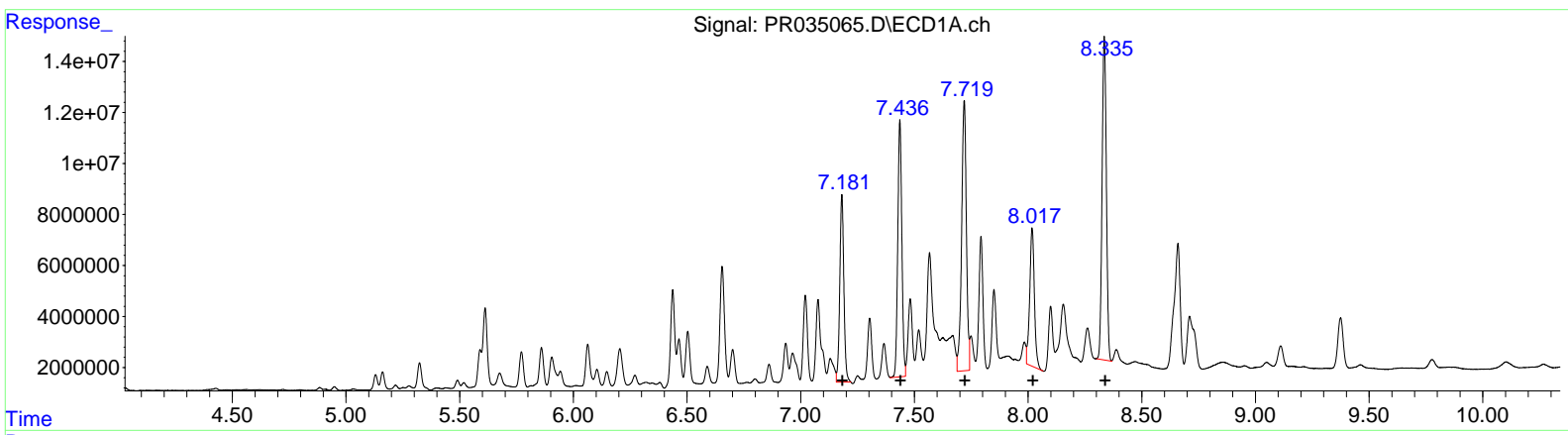
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035065.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:56
 Operator : SM\SJ
 Sample : J6428-02DL2 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5DL2

Manual Integrations
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 Sohil
 12/29/2018 12:17:37 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:30:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 91739326 | 975.87 |
| 7.44 | 125364771 | 1079.79 |
| 7.72 | 154045218 | 1103.82 |
| 8.02 | 77388370 | 896.08 |
| 8.34 | 165798068 | 918.28 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 232147148 | 1079.89 |
| 6.21 | 306638455 | 1126.84 |
| 6.36 | 245523023 | 989.07 |
| 6.82 | 153032685 | 894.98 |
| 7.06 | 463118728 | 957.56 |

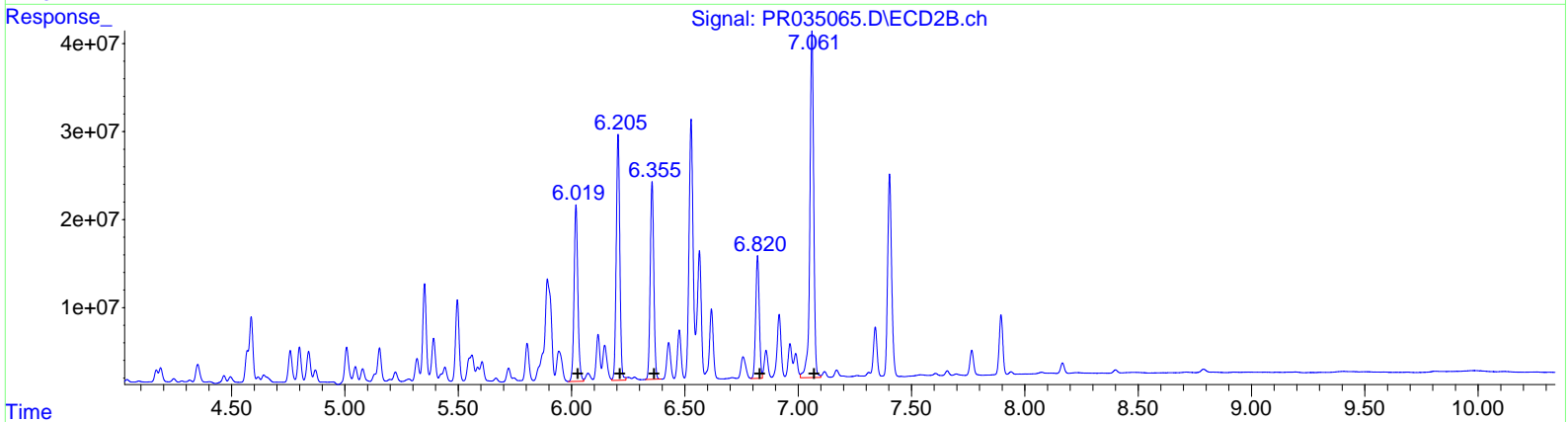
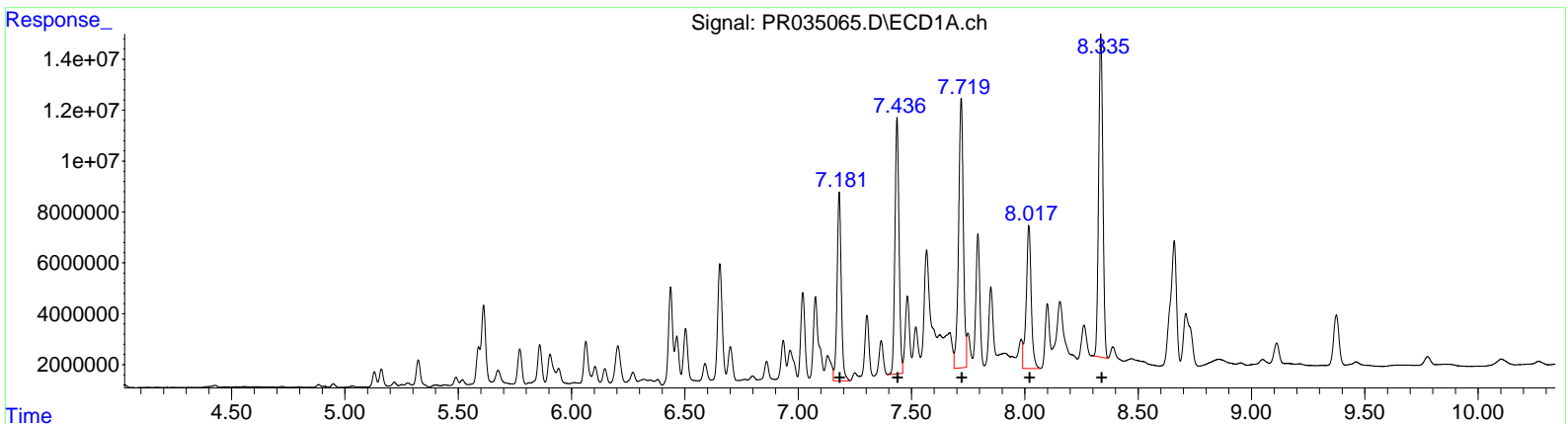
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035065.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:56
 Operator : SM\SJ
 Sample : J6428-02DL2 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T5DL2

Manual Integrations
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 12/29/2018 12:17:37 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:30:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 94733626 | 1007.72 |
| 7.44 | 125364771 | 1079.79 |
| 7.72 | 154045218 | 1103.82 |
| 8.02 | 86079186 | 996.71 |
| 8.34 | 165798068 | 918.28 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 232147148 | 1079.89 |
| 6.21 | 306638455 | 1126.84 |
| 6.36 | 245523023 | 989.07 |
| 6.82 | 153032685 | 894.98 |
| 7.06 | 463118728 | 957.56 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035065.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:56
 Operator : SM\SJ
 Sample : J6428-02DL2 50X

Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T5DL2

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:37 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:30:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|-----------|----------|
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 14236583 | 27703358 | 293.401 | 284.132m |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 19181373 | 42525885 | 290.304 | 331.968 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 21309281 | 40778473 | 285.208 | 308.981 |
| 24) L5 AR-1248-4 | 6.465 | 5.008 | 21396774 | 47089563 | 239.482 | 286.206 |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 27023483 | 56822067 | 322.984 | 339.529 |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 94733626 | 232.1E6 | 1007.719m | 1079.894 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 125.4E6 | 306.6E6 | 1079.789 | 1126.844 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 154.0E6 | 245.5E6 | 1103.820 | 989.072 |
| 34) L7 AR-1260-4 | 8.017 | 6.821 | 86079186 | 153.0E6 | 996.707m | 894.979 |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 165.8E6 | 463.1E6 | 918.275 | 957.558 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T7

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-03
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035099.D
 % Solids : 78.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 370 | P |
| 11097-69-1 | Aroclor-1254 | 42 | U |
| 11096-82-5 | Aroclor-1260 | 610 | |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

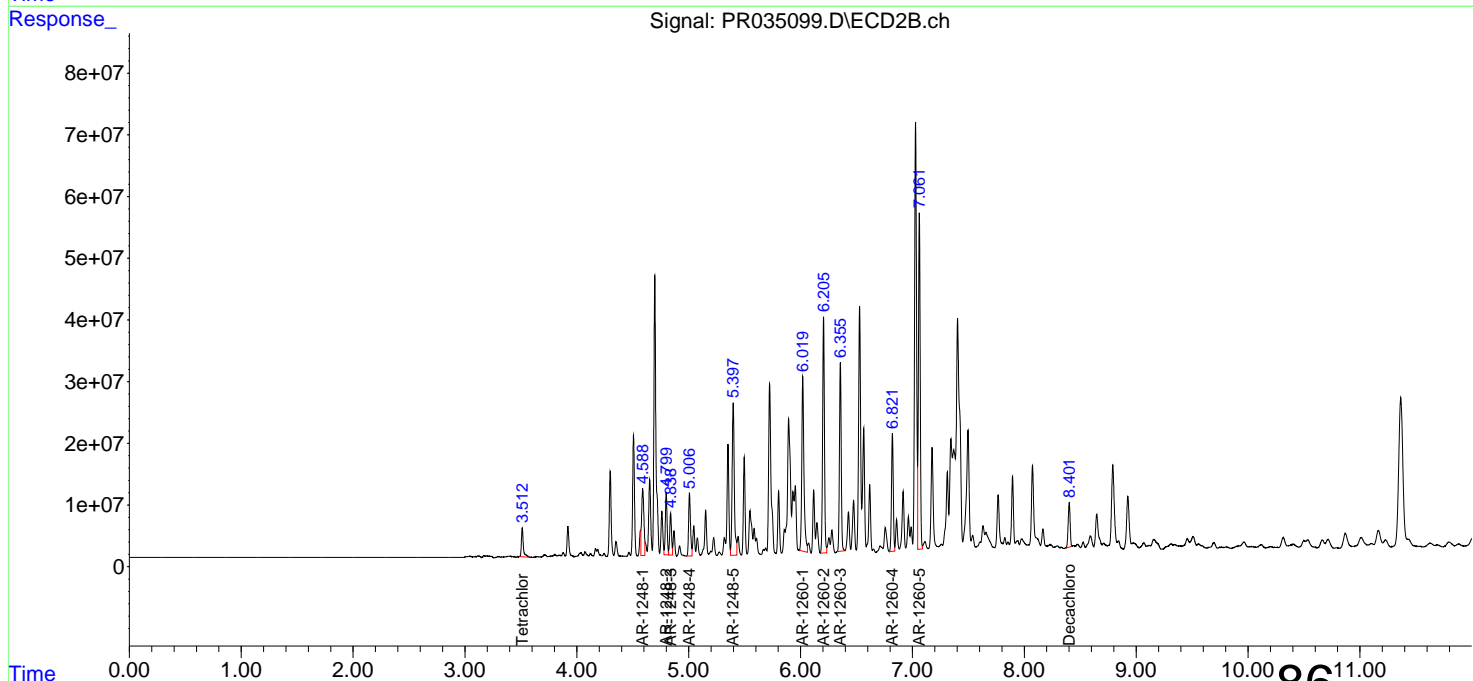
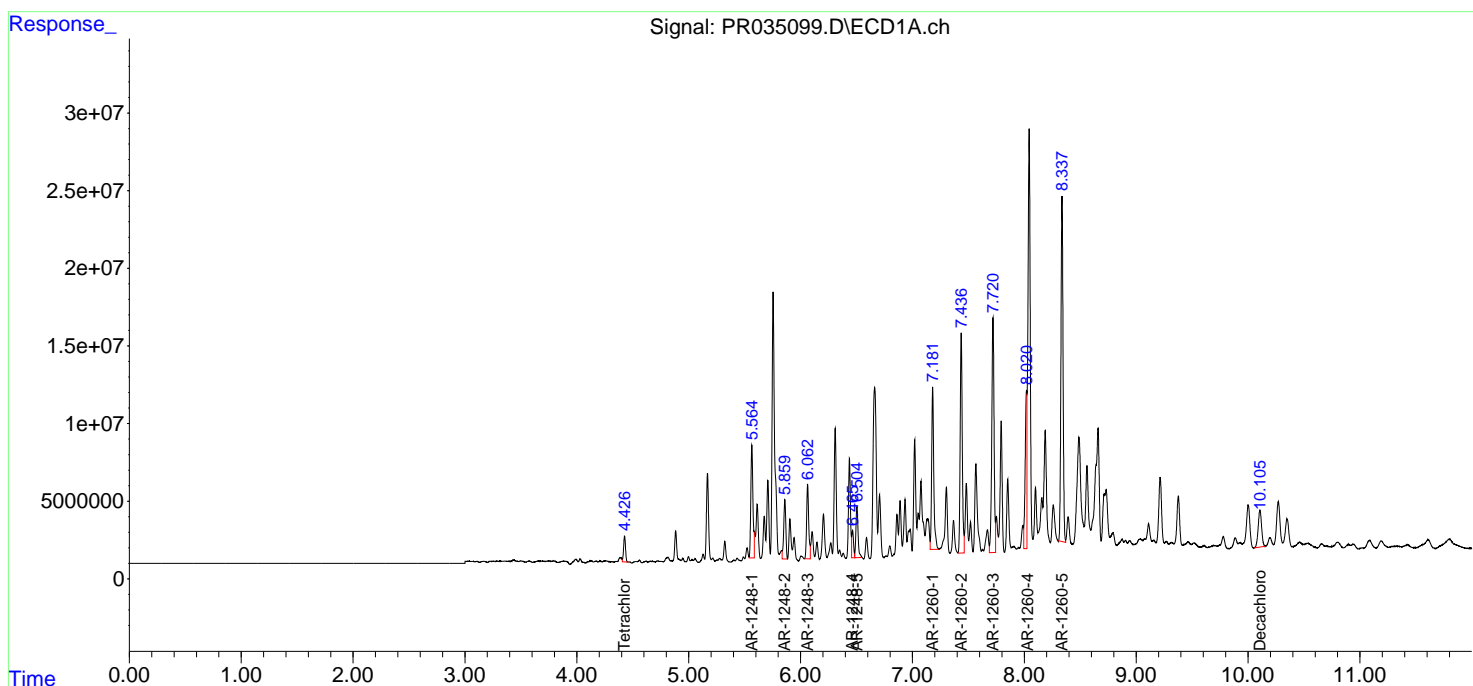
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T7

Manual Integrations
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 Sohil
 12/31/2018 10:57:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41T7

Manual Integrations
 APPROVED

Sohil
 12/31/2018 10:57:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 19827995 | 56755277 | 10.194 | 16.281 # |
| 2) SA Decachlor... | 10.106 | 8.402 | 50578629 | 88382248 | 25.728 | 20.102 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.564 | 4.588 | 96097868 | 152.3E6 | 1980.475m | 1561.666m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 50096427 | 109.7E6 | 758.192m | 856.254m |
| 23) L5 AR-1248-3 | 6.063 | 4.838 | 62841511 | 76640923 | 841.084 | 580.713m# |
| 24) L5 AR-1248-4 | 6.465 | 5.007 | 19553916 | 119.0E6 | 218.856 | 722.978 # |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 44342034 | 333.1E6 | 529.975 | 1990.180 # |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 137.3E6 | 380.0E6 | 1460.819m | 1767.892 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 182.7E6 | 433.4E6 | 1573.969 | 1592.545 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 214.0E6 | 335.8E6 | 1533.708 | 1352.829 |
| 34) L7 AR-1260-4 | 8.020 | 6.821 | 110.8E6 | 210.9E6 | 1283.351m | 1233.120 |
| 35) L7 AR-1260-5 | 8.337 | 7.062 | 291.9E6 | 609.7E6 | 1616.908 | 1260.674 |
| ----- | | | | | | |

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

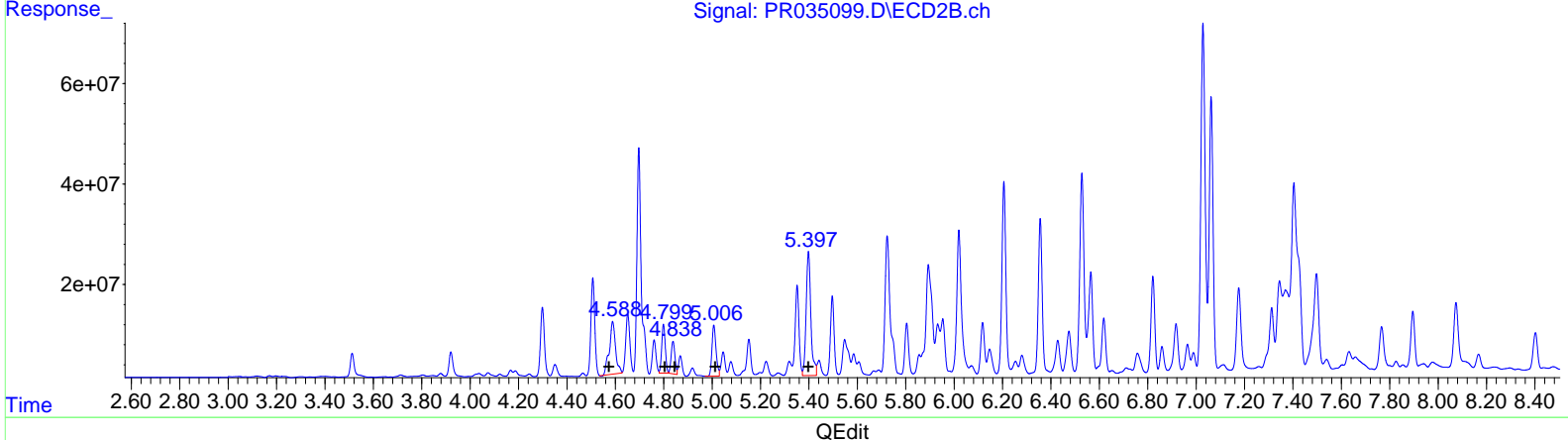
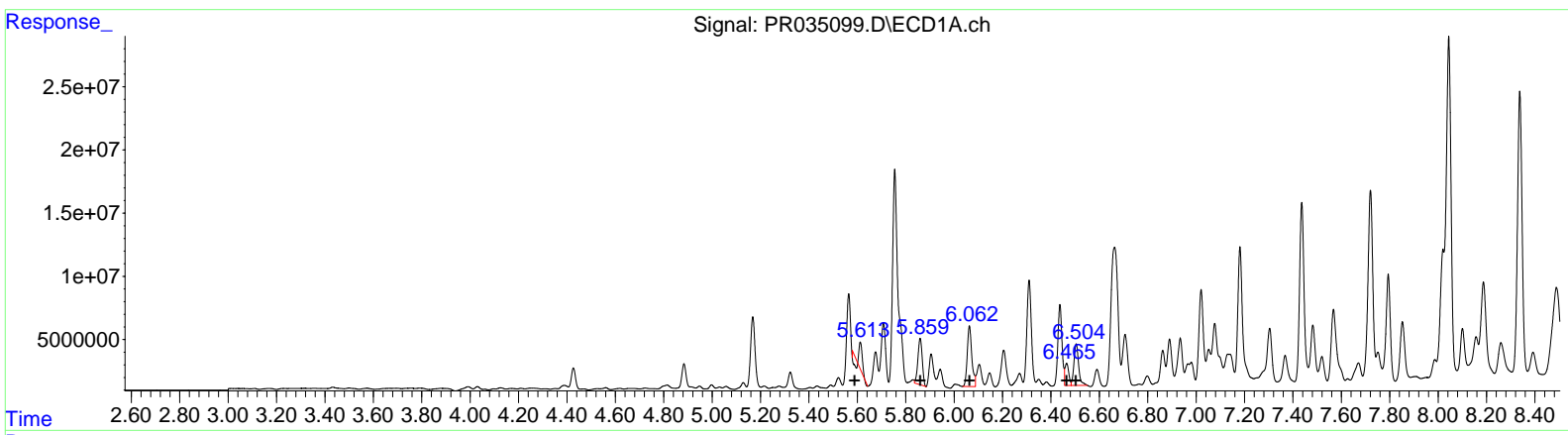
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T7

Manual Integrations
APPROVED
 Sohil
 12/31/2018 10:57:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|----------|--------|
| R.T. | Response | Conc |
| 5.61 | 17567308 | 362.04 |
| 5.86 | 45906112 | 694.77 |
| 6.06 | 62841511 | 841.08 |
| 6.46 | 19553916 | 218.86 |
| 6.50 | 44342034 | 529.97 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 4.59 | 187178653 | 1919.75 |
| 4.80 | 95236400 | 743.44 |
| 4.84 | 69437852 | 526.14 |
| 5.01 | 118951779 | 722.98 |
| 5.40 | 333067877 | 1990.18 |

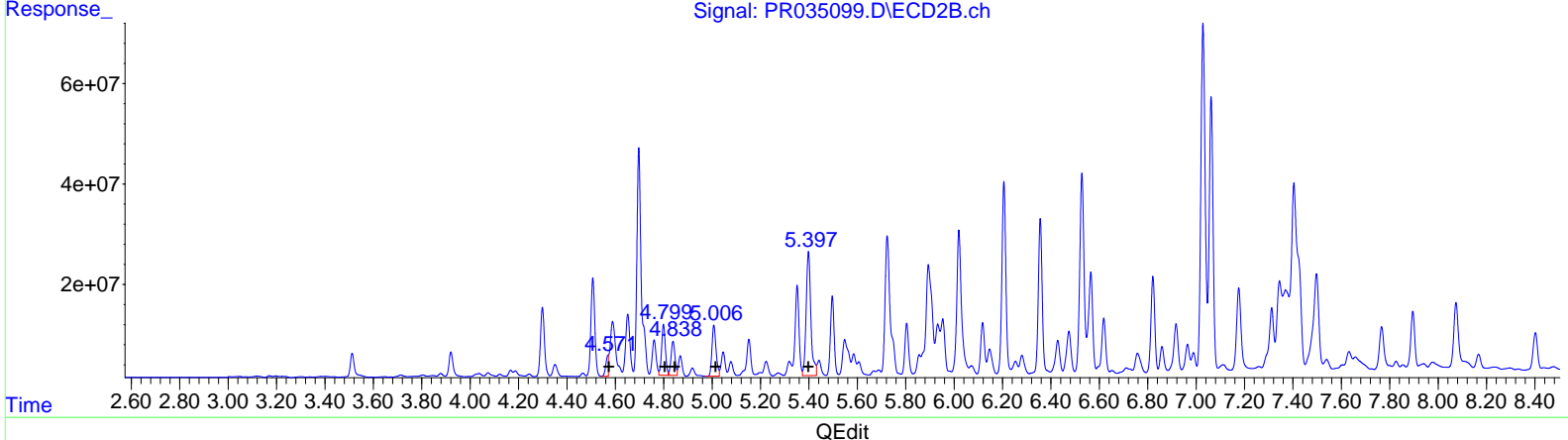
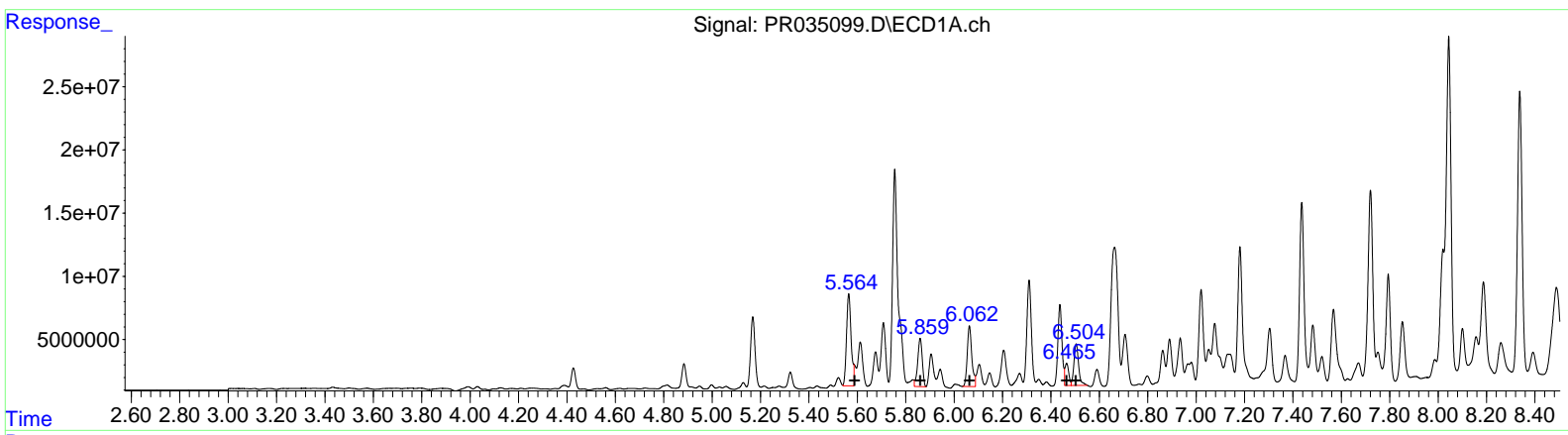
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T7

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|----------|---------|
| R.T. | Response | Conc |
| 5.56 | 96097868 | 1980.48 |
| 5.86 | 50096427 | 758.19 |
| 6.06 | 62841511 | 841.08 |
| 6.46 | 19553916 | 218.86 |
| 6.50 | 44342034 | 529.97 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 4.57 | 30870611 | 316.62 |
| 4.80 | 109688138 | 856.25 |
| 4.84 | 76640923 | 580.71 |
| 5.01 | 118951779 | 722.98 |
| 5.40 | 333067877 | 1990.18 |

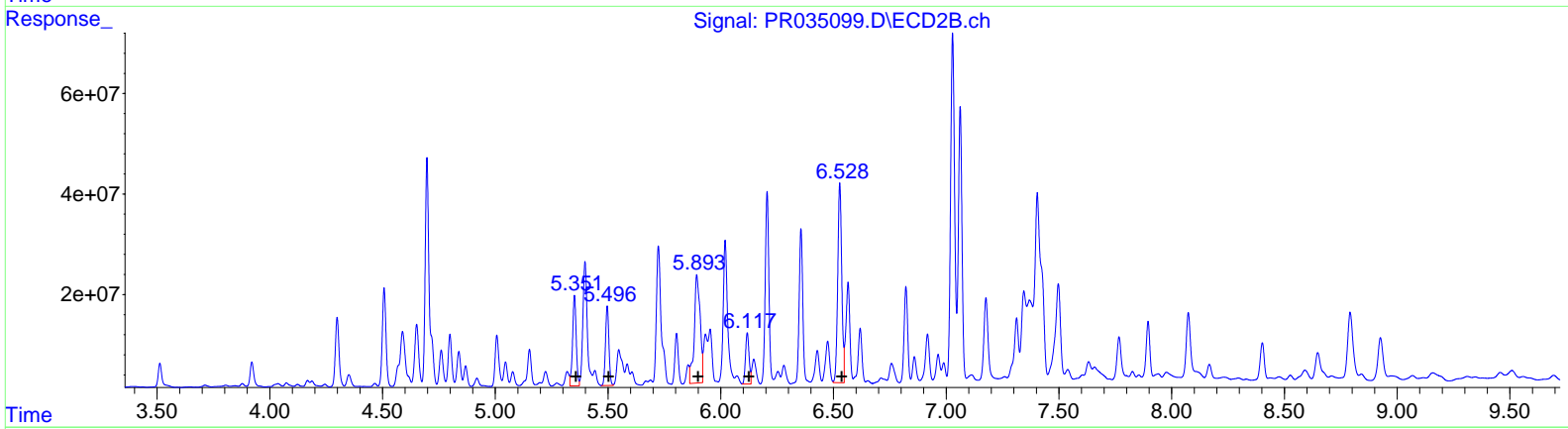
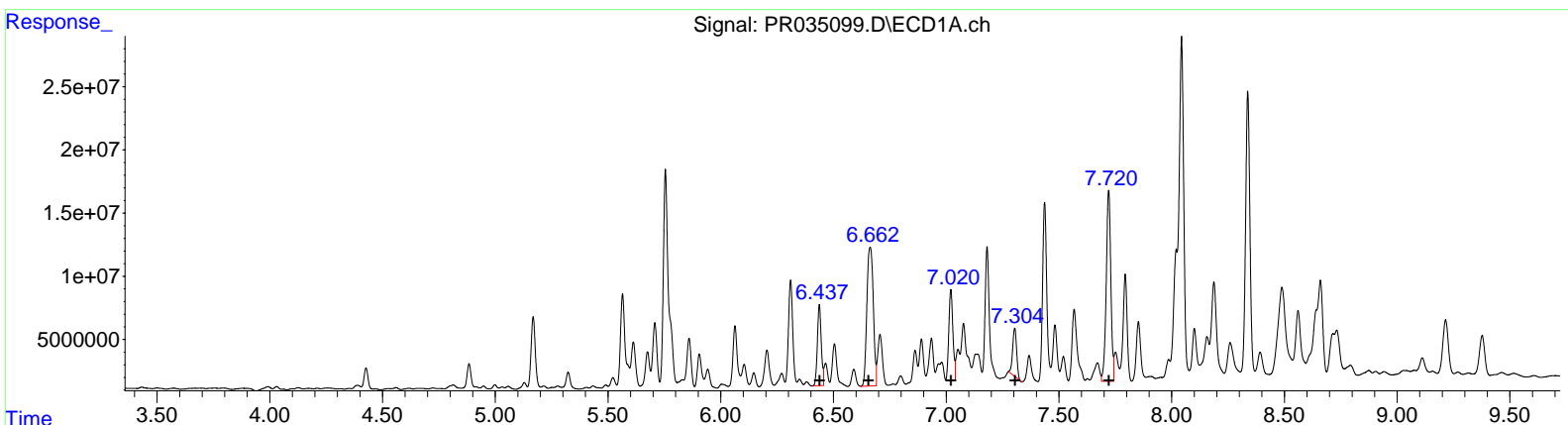
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T7

Manual Integrations
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 Sohil
 12/31/2018 10:57:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.44 | 76456728 | 935.77 |
| 6.66 | 215697963 | 1688.09 |
| 7.02 | 89634095 | 664.09 |
| 7.30 | 47022244 | 443.28 |
| 7.72 | 214038710 | 1997.69 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.35 | 201776892 | 824.61 |
| 5.50 | 166908758 | 784.75 |
| 5.89 | 389233411 | 1089.32 |
| 6.12 | 112252398 | 475.26 |
| 6.53 | 489944619 | 1536.16 |

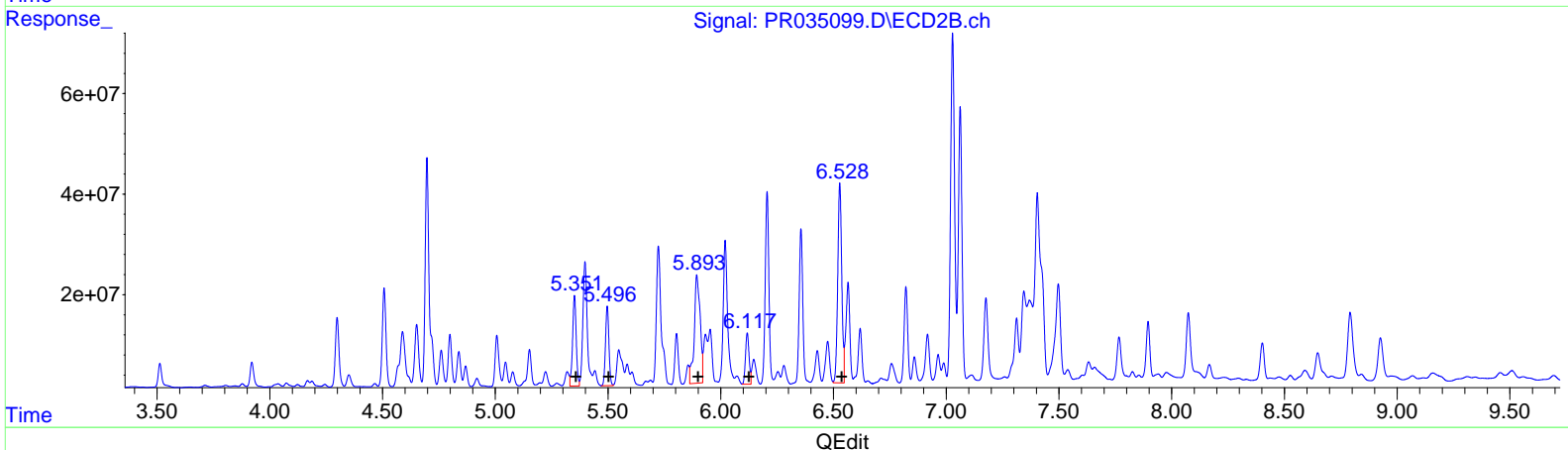
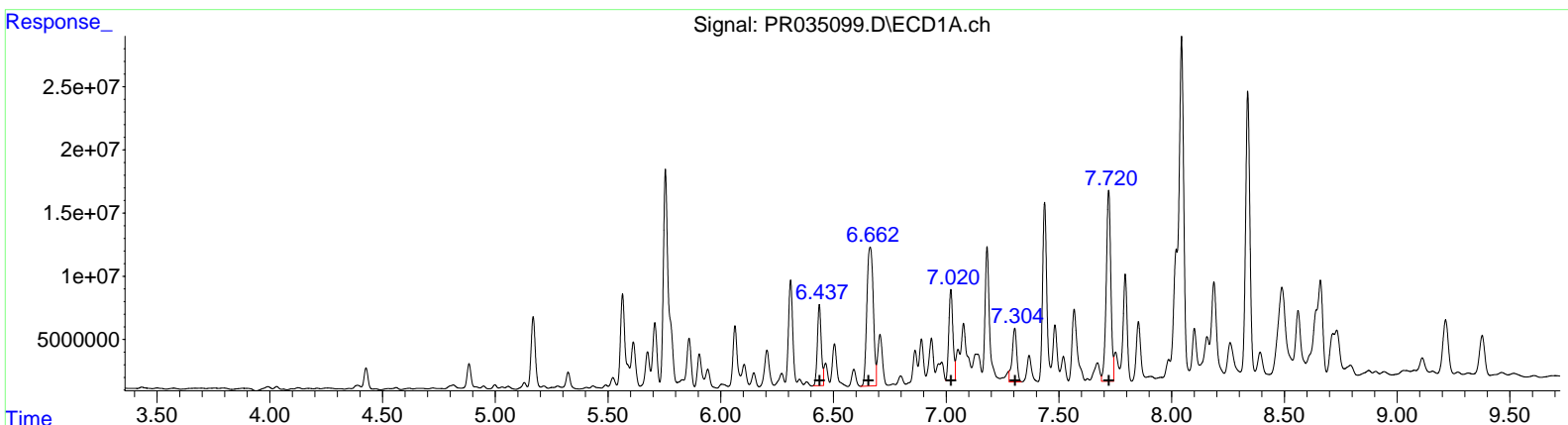
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T7

Manual Integrations
APPROVED
 Sohil
 12/31/2018 10:57:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.44 | 76456728 | 935.77 |
| 6.66 | 215697963 | 1688.09 |
| 7.02 | 89634095 | 664.09 |
| 7.30 | 60119607 | 566.75 |
| 7.72 | 214038710 | 1997.69 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.35 | 201776892 | 824.61 |
| 5.50 | 166908758 | 784.75 |
| 5.89 | 389233411 | 1089.32 |
| 6.12 | 112252398 | 475.26 |
| 6.53 | 489944619 | 1536.16 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

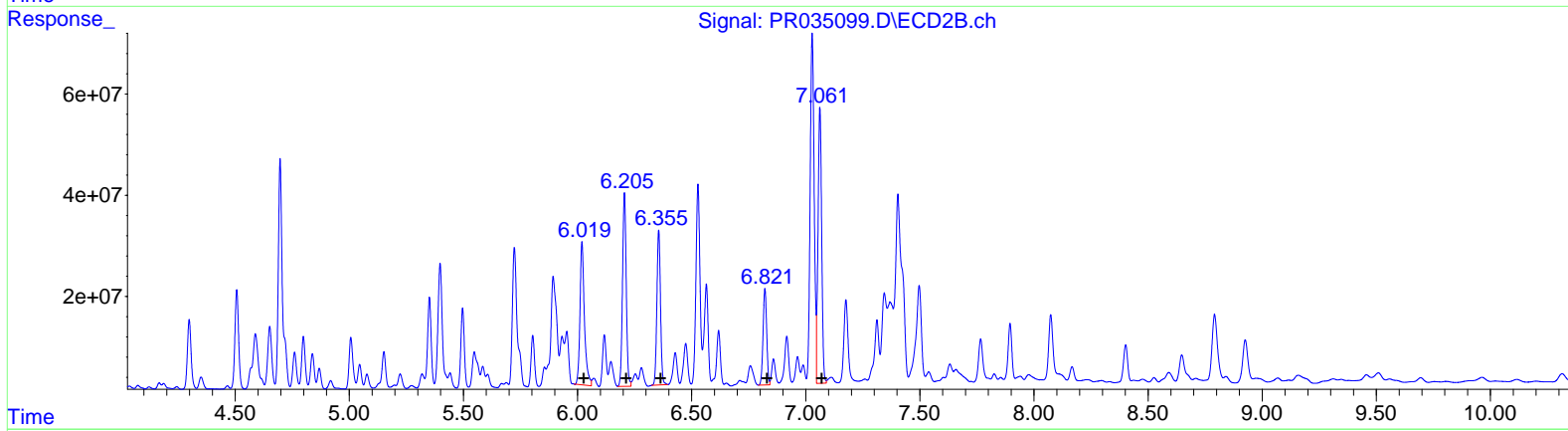
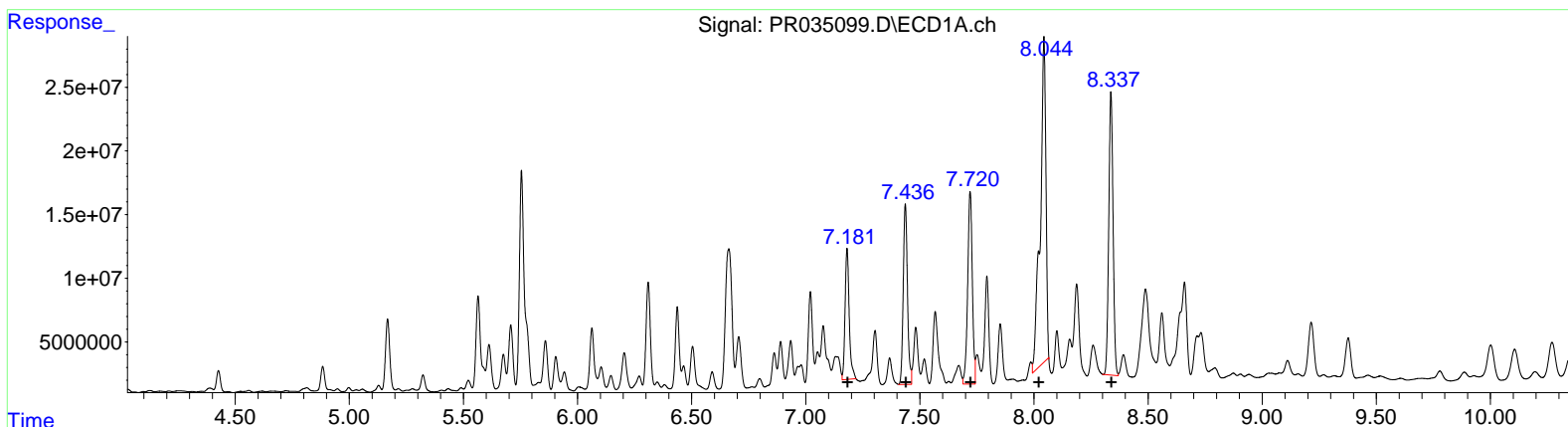
Instrument :
 ECD_R
 ClientSampled :
 A41T7

Manual Integrations
 APPROVED

Sohil
 12/31/2018 10:57:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 130458956 | 1387.74 |
| 7.44 | 182739598 | 1573.97 |
| 7.72 | 214038710 | 1533.71 |
| 8.04 | 438947242 | 5082.55 |
| 8.34 | 291938721 | 1616.91 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 380047625 | 1767.89 |
| 6.21 | 433365843 | 1592.54 |
| 6.36 | 335820651 | 1352.83 |
| 6.82 | 210851523 | 1233.12 |
| 7.06 | 609719073 | 1260.67 |

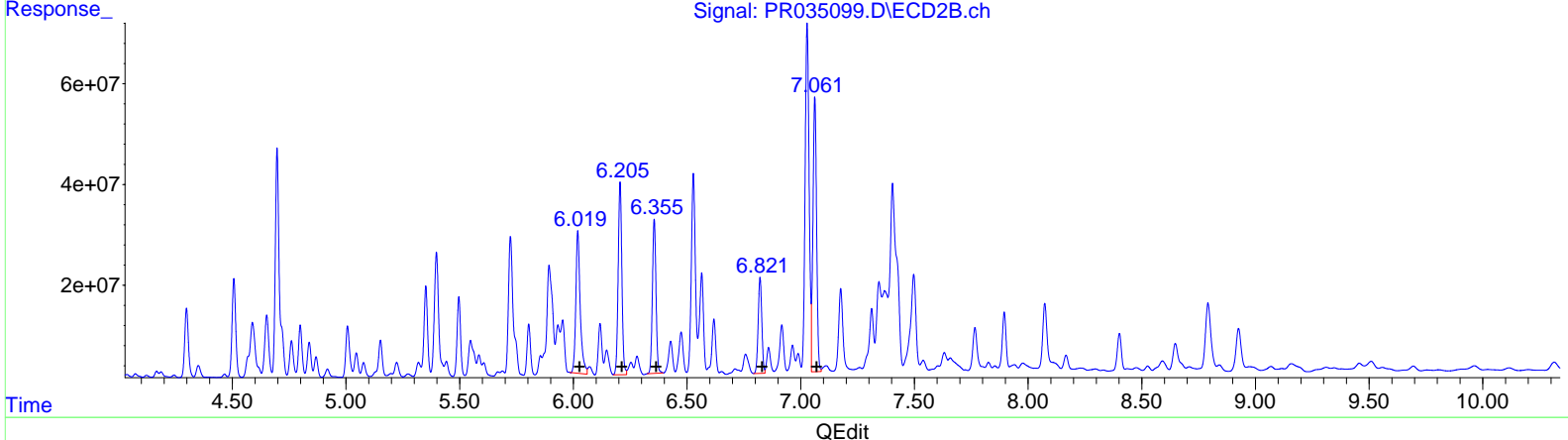
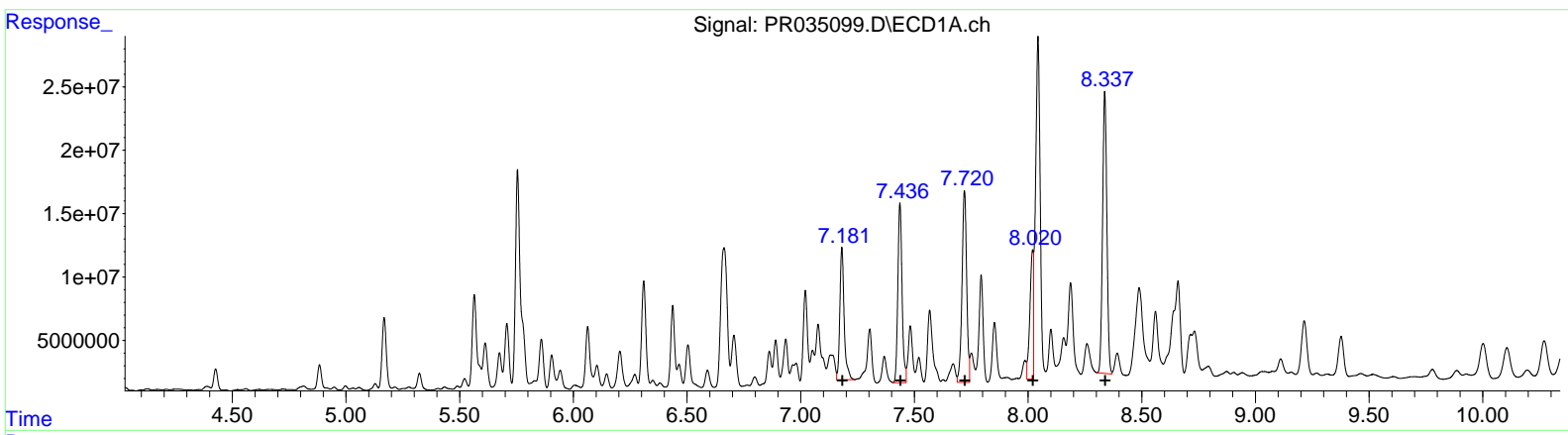
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41T7

Manual Integrations
APPROVED
 Sohil
 12/31/2018 10:57:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 7.18 | 137328690 | 1460.82 |
| 7.44 | 182739598 | 1573.97 |
| 7.72 | 214038710 | 1533.71 |
| 8.02 | 110834759 | 1283.35 |
| 8.34 | 291938721 | 1616.91 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.02 | 380047625 | 1767.89 |
| 6.21 | 433365843 | 1592.54 |
| 6.36 | 335820651 | 1352.83 |
| 6.82 | 210851523 | 1233.12 |
| 7.06 | 609719073 | 1260.67 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035099.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:39
 Operator : SM\SJ
 Sample : J6428-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T7

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/31/2018 10:57:26 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 19827995 | 56755277 | 10.194 | 16.281 # |
| 2) SA Decachlor... | 10.106 | 8.402 | 50578629 | 88382248 | 25.728 | 20.102 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.564 | 4.588 | 96097868 | 152.3E6 | 1980.475m | 1561.666m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 50096427 | 109.7E6 | 758.192m | 856.254m |
| 23) L5 AR-1248-3 | 6.063 | 4.838 | 62841511 | 76640923 | 841.084 | 580.713m# |
| 24) L5 AR-1248-4 | 6.465 | 5.007 | 19553916 | 119.0E6 | 218.856 | 722.978 # |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 44342034 | 333.1E6 | 529.975 | 1990.180 # |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 137.3E6 | 380.0E6 | 1460.819m | 1767.892 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 182.7E6 | 433.4E6 | 1573.969 | 1592.545 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 214.0E6 | 335.8E6 | 1533.708 | 1352.829 |
| 34) L7 AR-1260-4 | 8.020 | 6.821 | 110.8E6 | 210.9E6 | 1283.351m | 1233.120 |
| 35) L7 AR-1260-5 | 8.337 | 7.062 | 291.9E6 | 609.7E6 | 1616.908 | 1260.674 |
| ----- | | | | | | |

SS
12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T8

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-04
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035102.D
 % Solids : 86.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

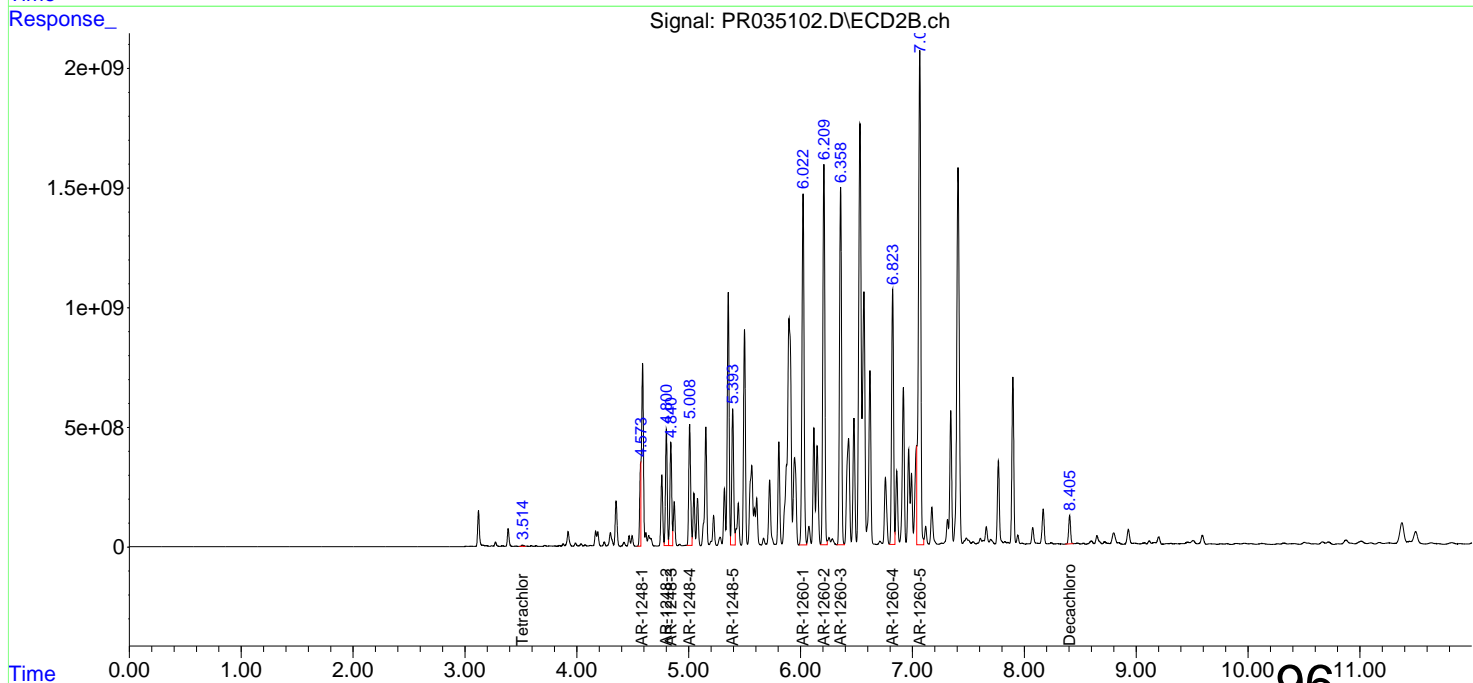
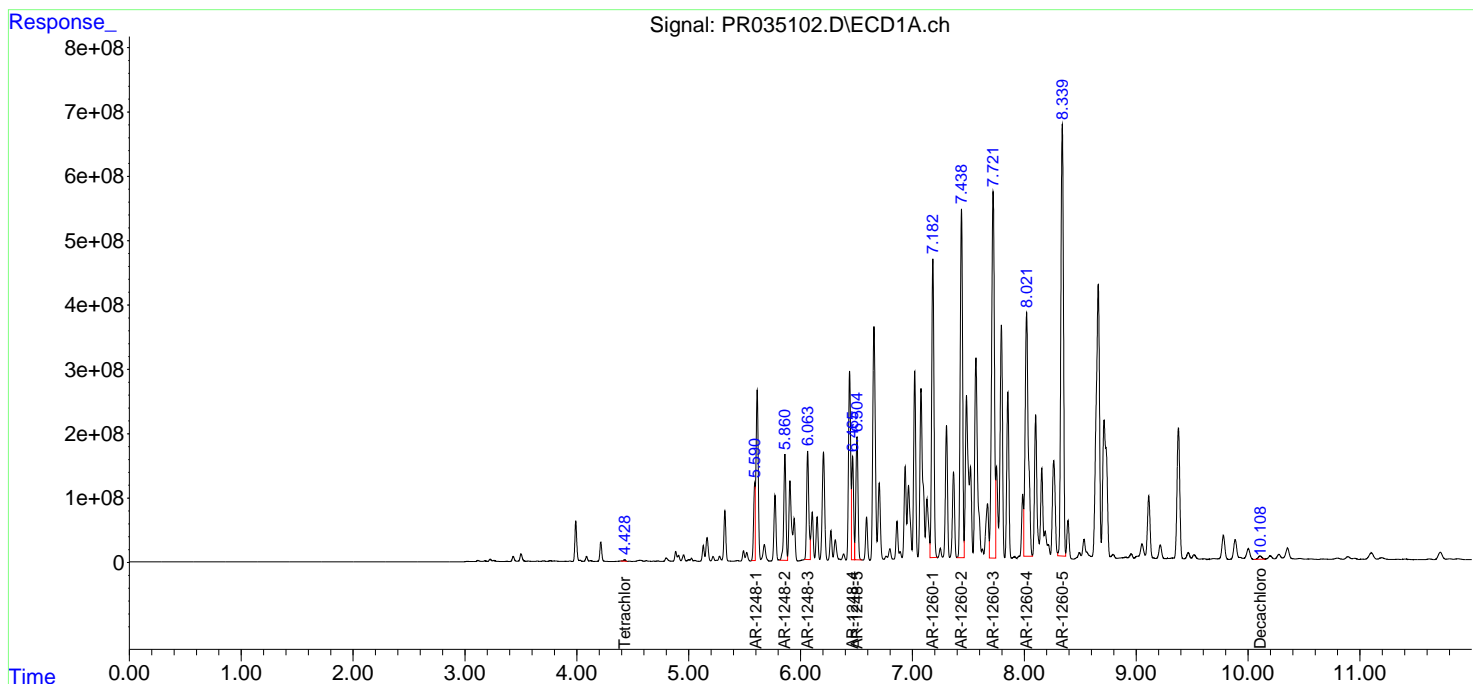
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|-----|
| 12674-11-2 | Aroclor-1016 | 38 | U |
| 11104-28-2 | Aroclor-1221 | 38 | U |
| 11141-16-5 | Aroclor-1232 | 38 | U |
| 53469-21-9 | Aroclor-1242 | 38 | U |
| 12672-29-6 | Aroclor-1248 | 11000 | EPC |
| 11097-69-1 | Aroclor-1254 | 38 | U |
| 11096-82-5 | Aroclor-1260 | 27000 | EC |
| 37324-23-5 | Aroclor-1262 | 38 | U |
| 11100-14-4 | Aroclor-1268 | 38 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035102.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:22
 Operator : SM\SJ
 Sample : J6428-04
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035102.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:22
 Operator : SM\SJ
 Sample : J6428-04
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41T8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|-----------|-----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.515 | 28028723 | 65325368 | 14.410 | 18.739 # |
| 2) SA Decachlor... | 10.109 | 8.406 | 111.2E6 | 1415.8E6 | 56.539 | 322.027 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.573 | 1136.2E6 | 2570.2E6 | 23416.262 | 26360.201m |
| 22) L5 AR-1248-2 | 5.860 | 4.801 | 2186.7E6 | 5145.8E6 | 33095.491m | 40169.658 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 2282.0E6 | 4936.9E6 | 30542.646 | 37407.543 |
| 24) L5 AR-1248-4 | 6.466 | 5.008 | 1885.9E6 | 5938.6E6 | 21107.615 | 36094.344m# |
| 25) L5 AR-1248-5 | 6.505 | 5.394 | 2576.6E6 | 6715.6E6 | 30795.795 | 40127.983 # |
| 31) L7 AR-1260-1 | 7.183 | 6.023 | 6565.0E6 | 19117.7E6 | 69834.939 | 88931.225 # |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 7911.6E6 | 20158.7E6 | 68144.116 | 74079.788 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 9941.2E6 | 19074.6E6 | 71234.308 | 76840.812m |
| 34) L7 AR-1260-4 | 8.021 | 6.824 | 7547.5E6 | 13100.5E6 | 87392.479m | 76615.313 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 10936.9E6 | 30361.9E6 | 60574.266m | 62777.228m |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035102.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:22
 Operator : SM\SJ
 Sample : J6428-04
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T8

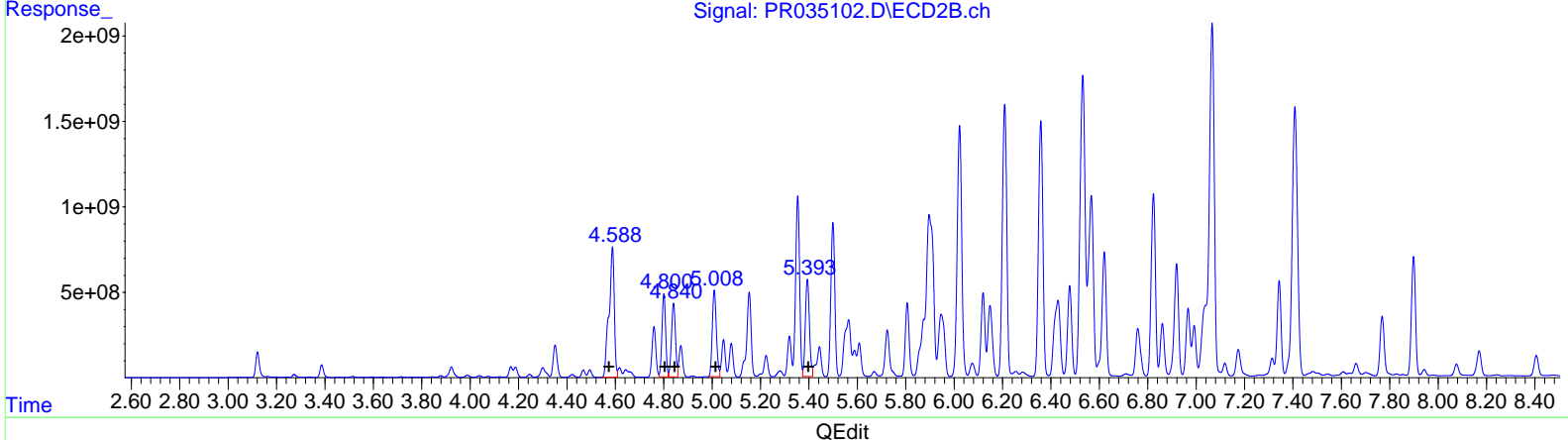
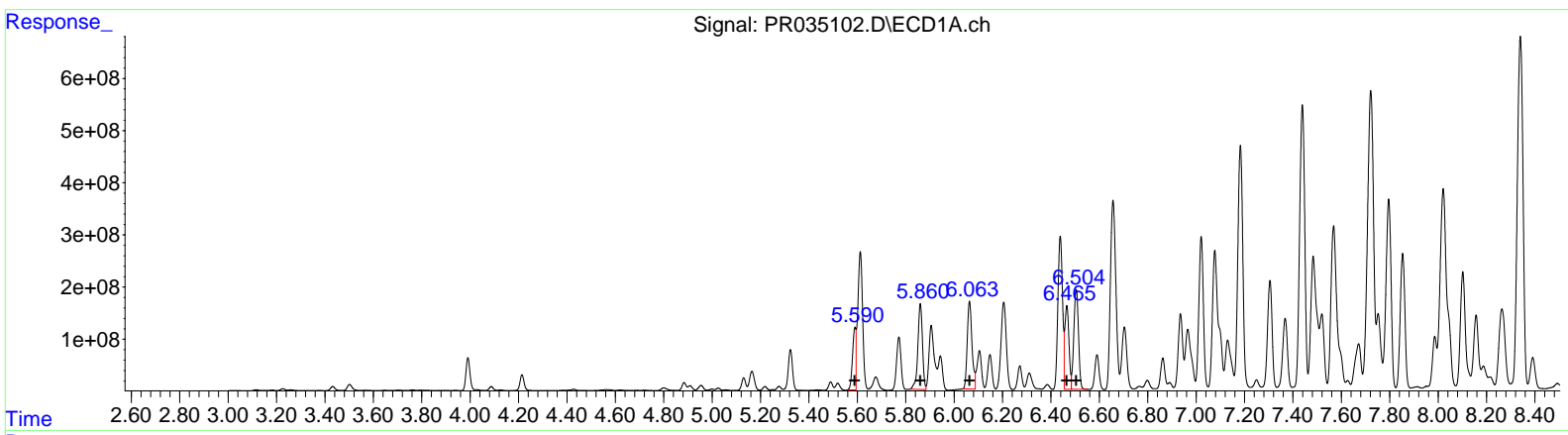
Manual Integrations
APPROVED

Sohil

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

1/3/2019 2:43:07 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.59 | 1136218590 | 23416.26 |
| 5.86 | 2160128209 | 32692.81 |
| 6.06 | 2281991278 | 30542.65 |
| 6.47 | 1885879595 | 21107.61 |
| 6.50 | 2576629815 | 30795.79 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-------------|-----------|
| 4.59 | 11535824271 | 118314.10 |
| 4.80 | 5145829937 | 40169.66 |
| 4.84 | 4936942173 | 37407.54 |
| 5.01 | 5914027592 | 35944.91 |
| 5.39 | 6715646288 | 40127.98 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035102.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:22
 Operator : SM\SJ
 Sample : J6428-04
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T8

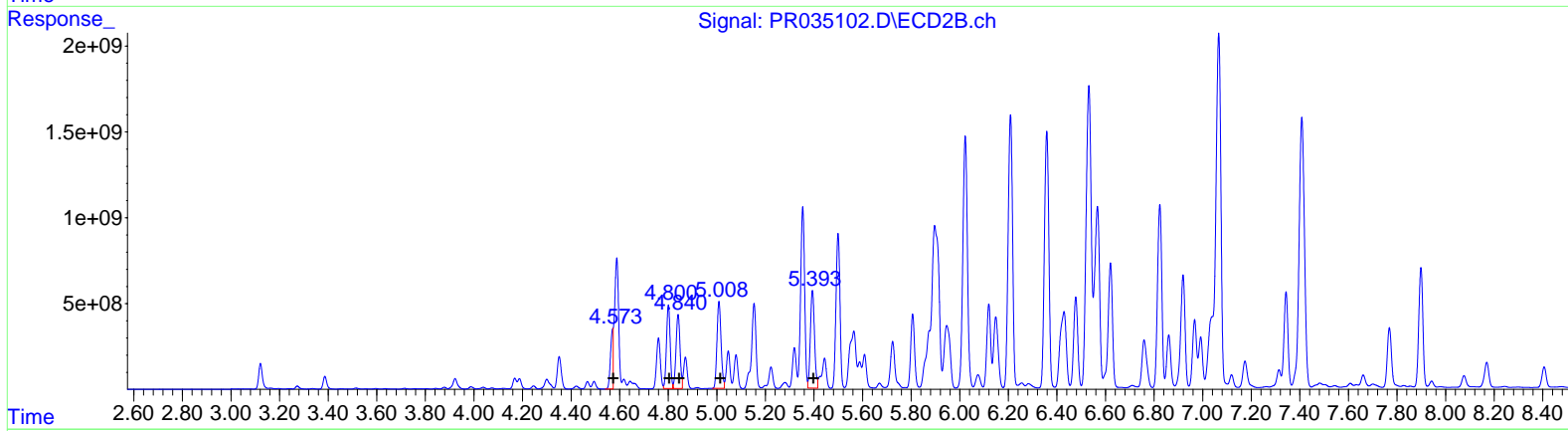
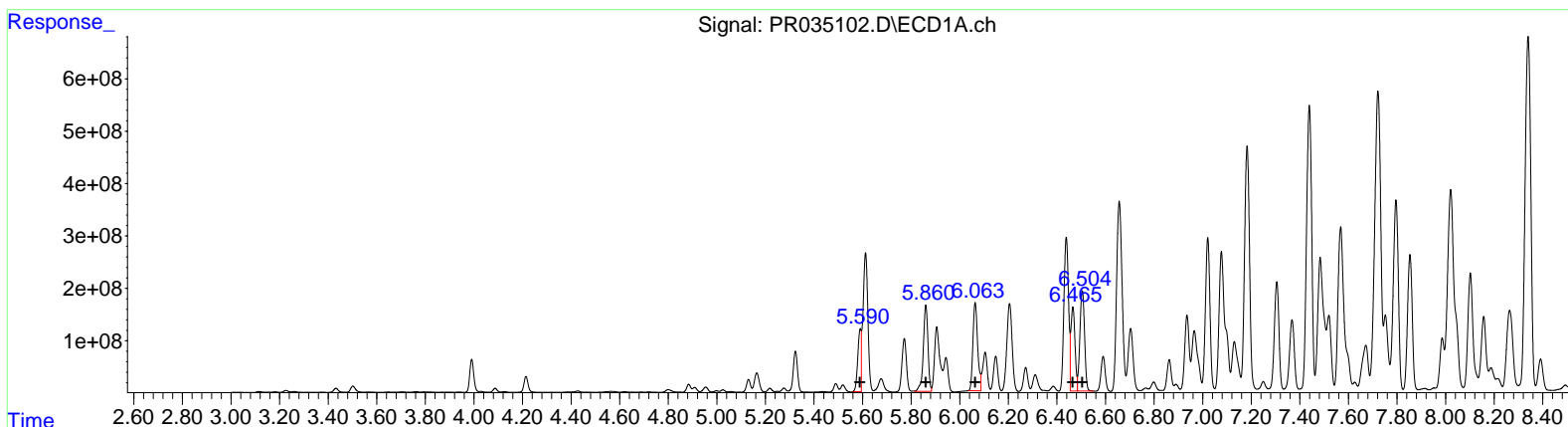
Manual Integrations
APPROVED

Sohil

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

1/3/2019 2:43:07 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.59 | 1136218590 | 23416.26 |
| 5.86 | 2186735053 | 33095.49 |
| 6.06 | 2281991278 | 30542.65 |
| 6.47 | 1885879595 | 21107.61 |
| 6.50 | 2576629815 | 30795.79 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.57 | 2570164123 | 26360.20 |
| 4.80 | 5145829937 | 40169.66 |
| 4.84 | 4936942173 | 37407.54 |
| 5.01 | 5938613275 | 36094.34 |
| 5.39 | 6715646288 | 40127.98 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035102.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:22
 Operator : SM\SJ
 Sample : J6428-04
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T8

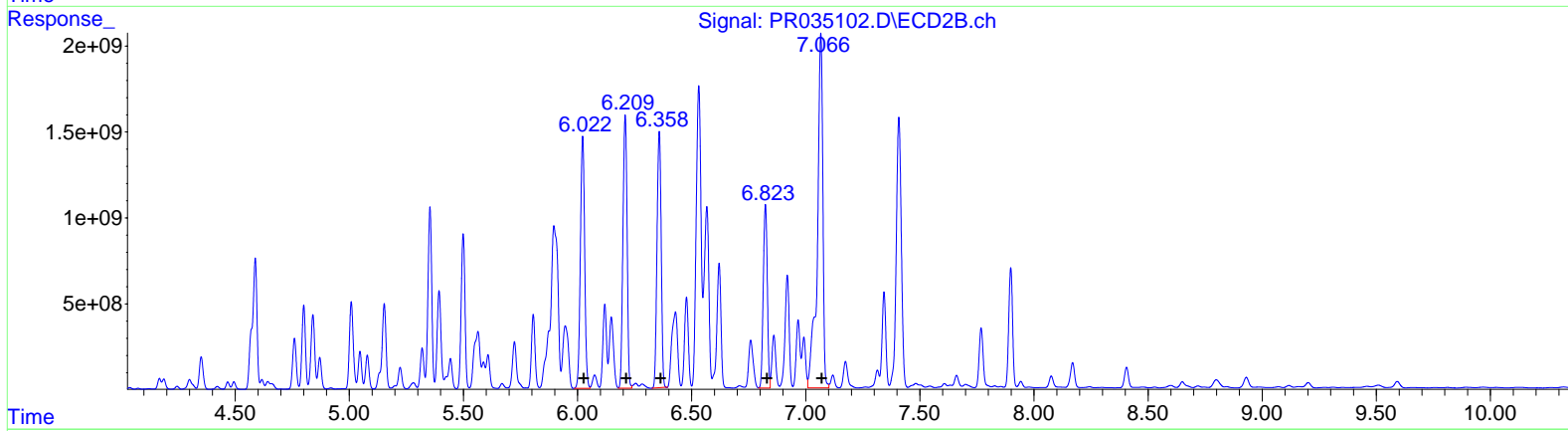
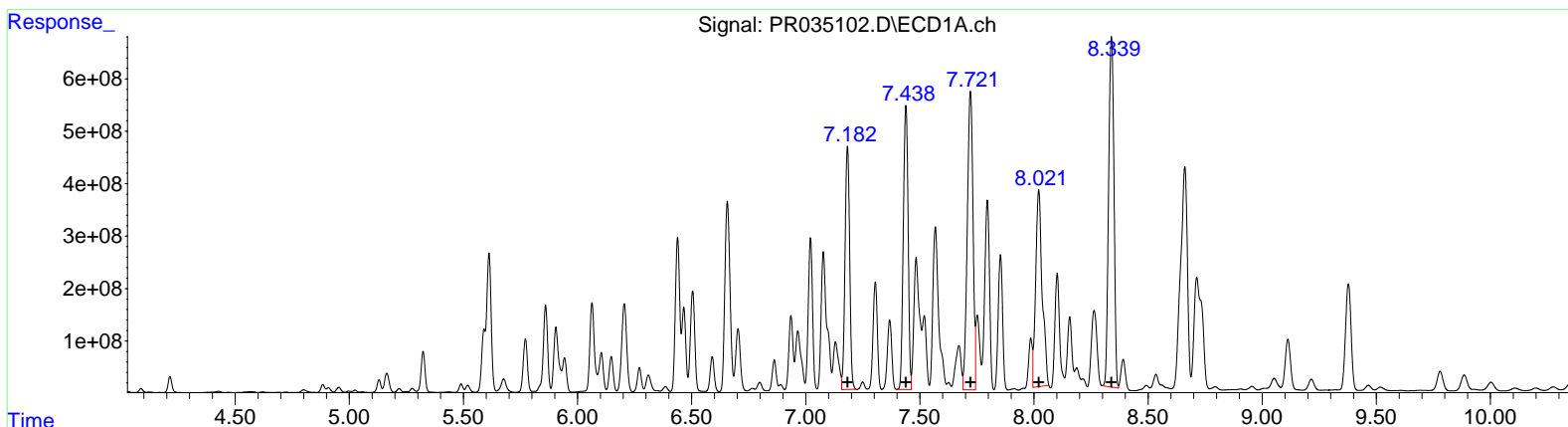
Manual Integrations
APPROVED

Sohil

1/3/2019 2:43:07 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-------------|----------|
| 7.18 | 6565043264 | 69834.94 |
| 7.44 | 7911611709 | 68144.12 |
| 7.72 | 9941204056 | 71234.31 |
| 8.02 | 7406115937 | 85755.08 |
| 8.34 | 10841320759 | 60044.84 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-------------|----------|
| 6.02 | 19117740787 | 88931.23 |
| 6.21 | 20158708647 | 74079.79 |
| 6.36 | 18937835458 | 76289.69 |
| 6.82 | 13100476931 | 76615.31 |
| 7.07 | 34650939529 | 71645.34 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035102.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:22
 Operator : SM\SJ
 Sample : J6428-04
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

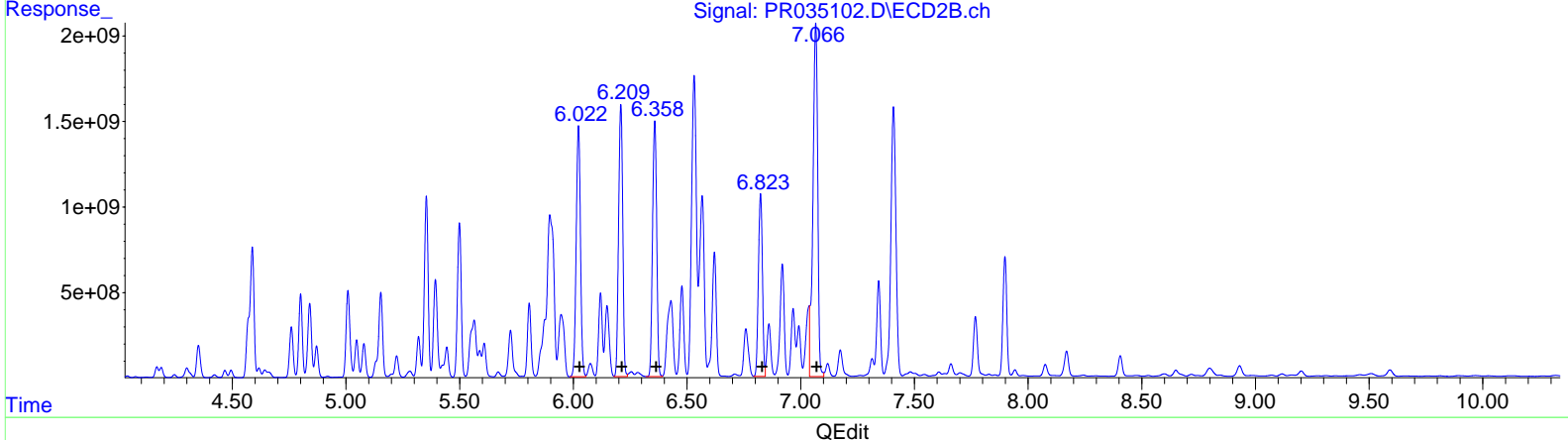
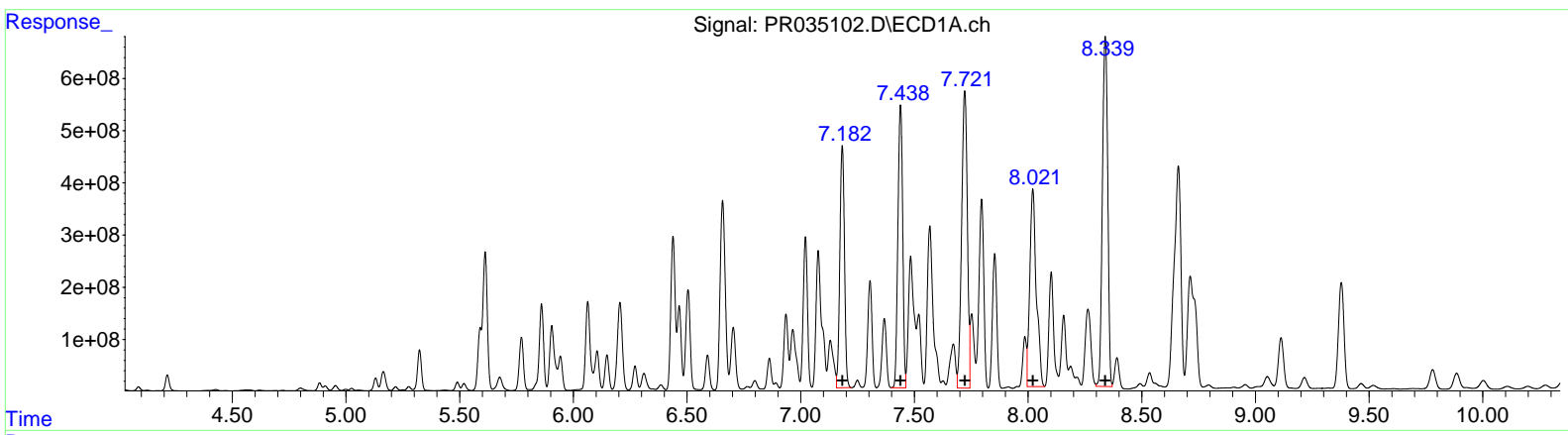
Instrument :
 ECD_R
 ClientSampled :
 A41T8

Manual Integrations
APPROVED
 Sohil

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

1/3/2019 2:43:07 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-------------|----------|
| R.T. | Response | Conc |
| 7.18 | 6565043264 | 69834.94 |
| 7.44 | 7911611709 | 68144.12 |
| 7.72 | 9941204056 | 71234.31 |
| 8.02 | 7547527564 | 87392.48 |
| 8.34 | 10936909766 | 60574.27 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-------------|----------|
| R.T. | Response | Conc |
| 6.02 | 19117740787 | 88931.23 |
| 6.21 | 20158708647 | 74079.79 |
| 6.36 | 19074644859 | 76840.81 |
| 6.82 | 13100476931 | 76615.31 |
| 7.07 | 30361915644 | 62777.23 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035102.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:22
 Operator : SM\SJ
 Sample : J6428-04
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED

Sohil

1/3/2019 2:43:07 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|-----------|-----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.515 | 28028723 | 65325368 | 14.410 | 18.739 # |
| 2) SA Decachlor... | 10.109 | 8.406 | 111.2E6 | 1415.8E6 | 56.539 | 322.027 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.573 | 1136.2E6 | 2570.2E6 | 23416.262 | 26360.201m |
| 22) L5 AR-1248-2 | 5.860 | 4.801 | 2186.7E6 | 5145.8E6 | 33095.491m | 40169.658 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 2282.0E6 | 4936.9E6 | 30542.646 | 37407.543 |
| 24) L5 AR-1248-4 | 6.466 | 5.008 | 1885.9E6 | 5938.6E6 | 21107.615 | 36094.344m# |
| 25) L5 AR-1248-5 | 6.505 | 5.394 | 2576.6E6 | 6715.6E6 | 30795.795 | 40127.983 # |
| 31) L7 AR-1260-1 | 7.183 | 6.023 | 6565.0E6 | 19117.7E6 | 69834.939 | 88931.225 # |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 7911.6E6 | 20158.7E6 | 68144.116 | 74079.788 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 9941.2E6 | 19074.6E6 | 71234.308 | 76840.812m |
| 34) L7 AR-1260-4 | 8.021 | 6.824 | 7547.5E6 | 13100.5E6 | 87392.479m | 76615.313 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 10936.9E6 | 30361.9E6 | 60574.266m | 62777.228m |

SS
12/28/18

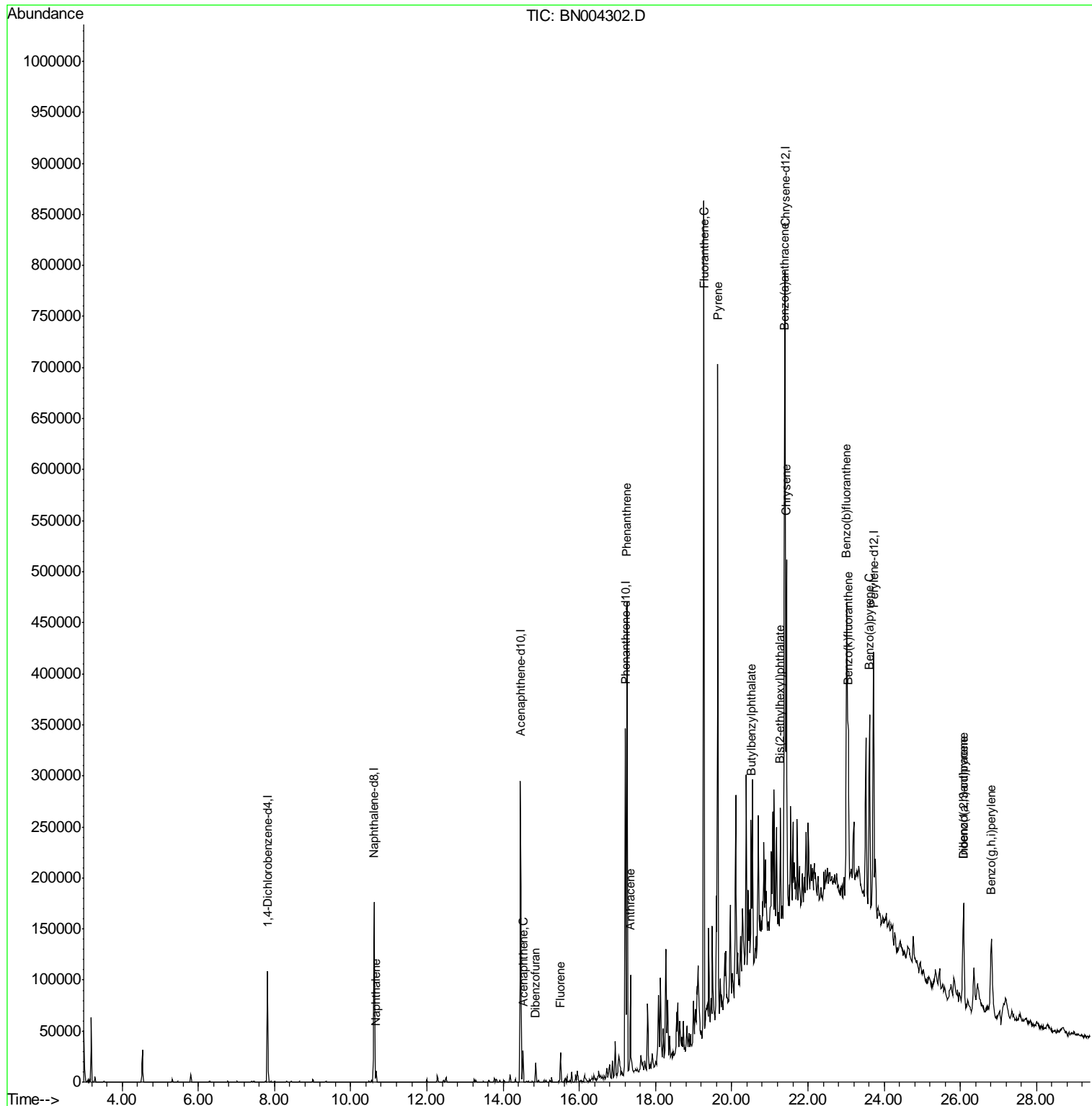
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

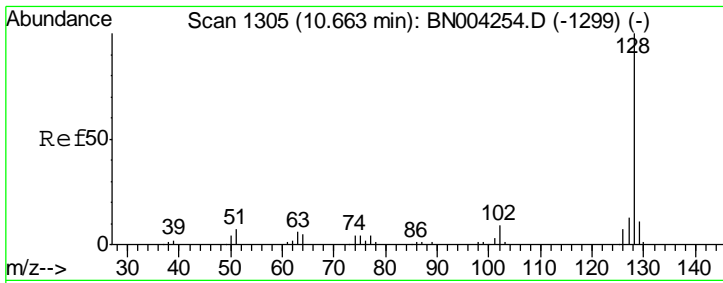
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 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 Client Sampled :
 A41T8

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Quant Time: Dec 31 02:50:10 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





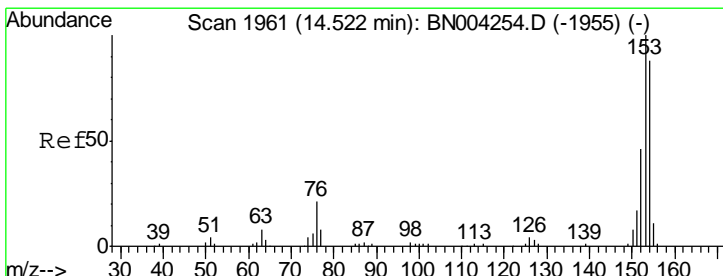
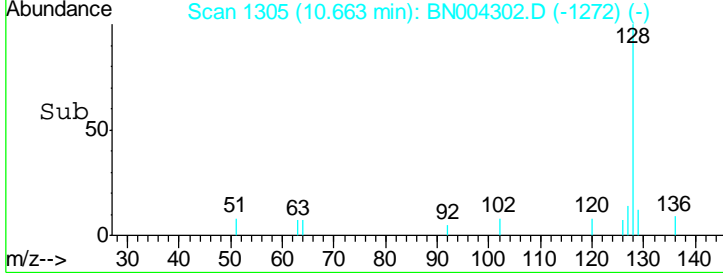
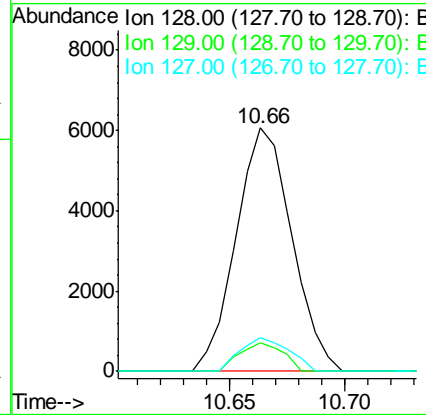
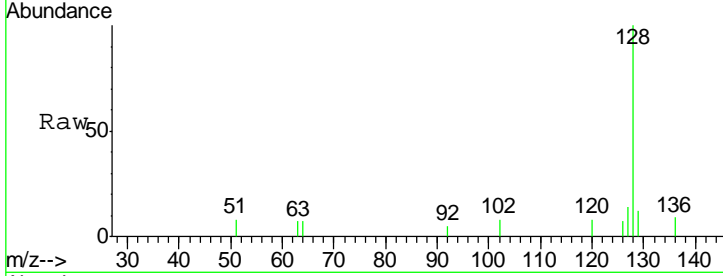
#28
 Naphthalene
 Concen: 1.239 ng/ul
 RT: 10.66 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

Instrument :
 BNA_N
 ClientSampled :
 A41T8

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 128 | 10203 | | |
| 129 | 11.6 | 8.6 | 12.8 |
| 127 | 13.8 | 10.6 | 16.0 |

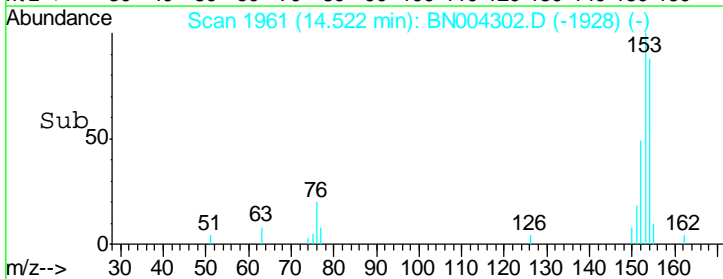
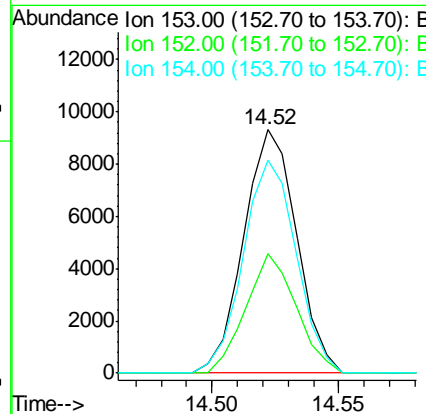
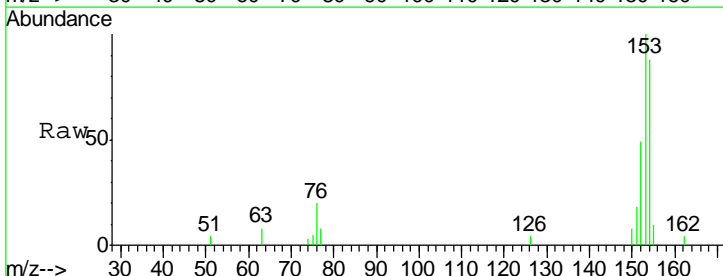
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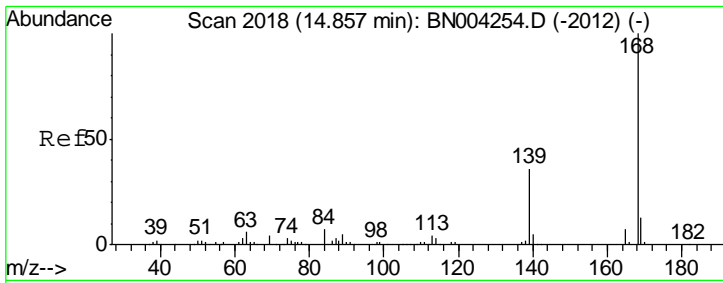
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#49
 Acenaphthene
 Concen: 2.046 ng/ul
 RT: 14.52 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

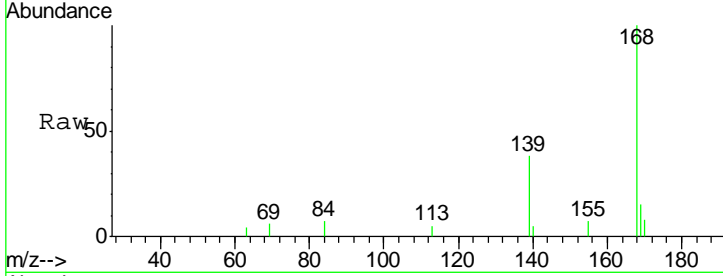
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 153 | 13555 | | |
| 152 | 49.1 | 37.8 | 56.6 |
| 154 | 87.5 | 71.0 | 106.6 |





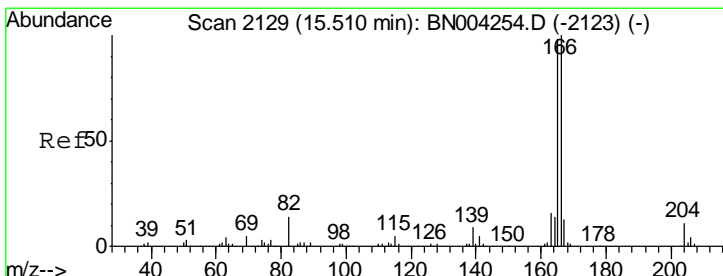
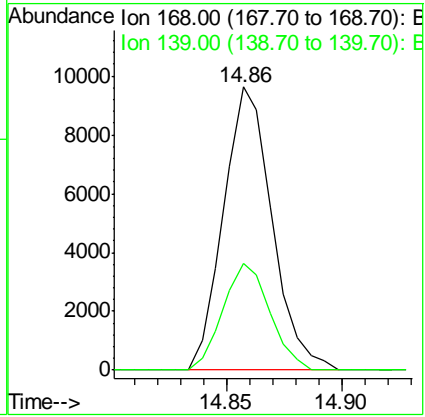
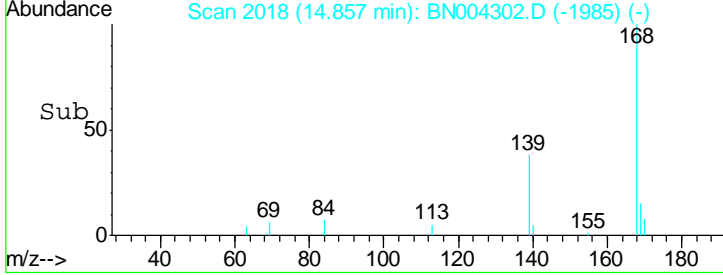
#53
 Dibenzofuran
 Concen: 1.500 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

Instrument :
 BNA_N
 ClientSampled :
 A41T8

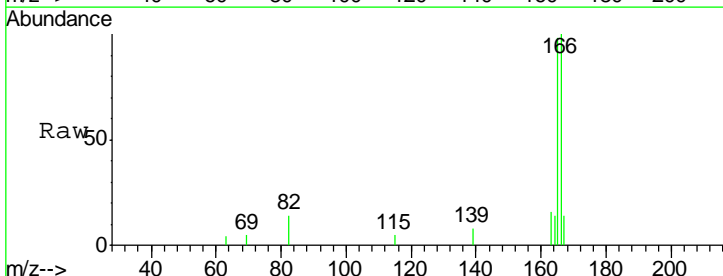


Tgt Ion:168 Resp: 14102
 Ion Ratio Lower Upper
 168 100
 139 37.7 28.8 43.2

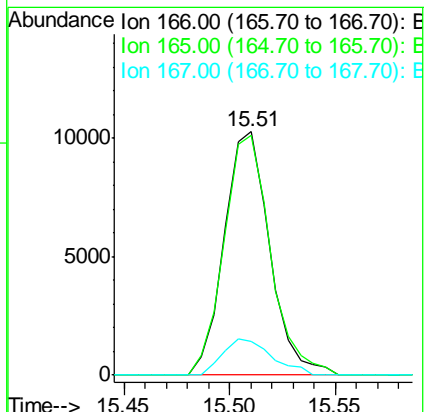
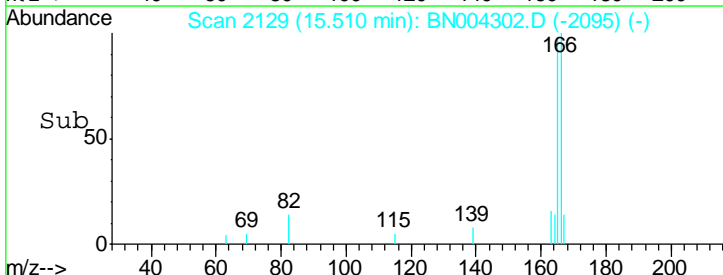
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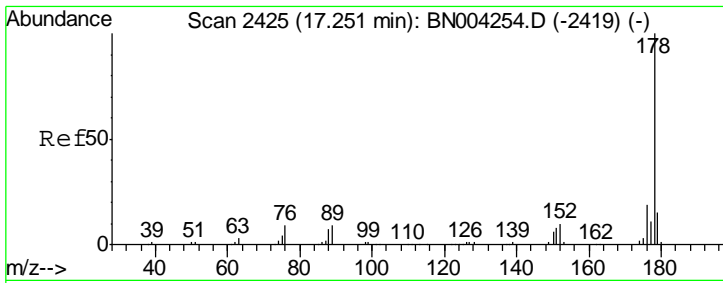


#58
 Fluorene
 Concen: 1.958 ng/ul
 RT: 15.51 min Scan# 2129
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35



Tgt Ion:166 Resp: 15333
 Ion Ratio Lower Upper
 166 100
 165 98.4 78.6 117.8
 167 13.8 10.3 15.5



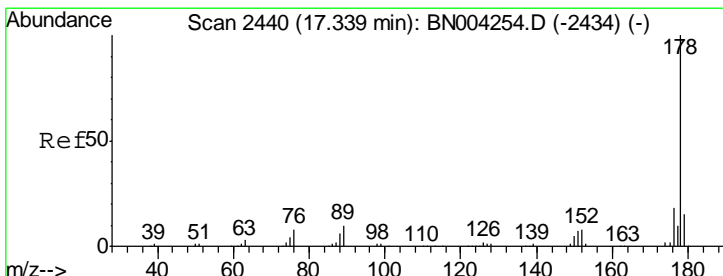
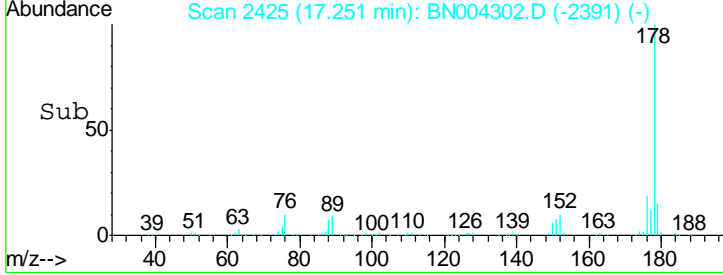
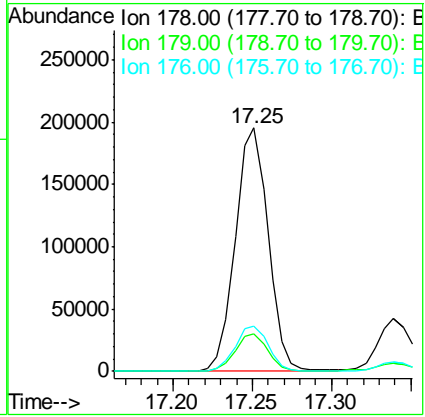
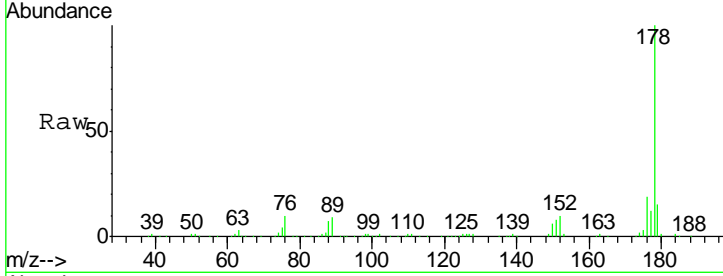


#69
 Phenanthrene
 Concen: 24.731 ng/ul
 RT: 17.25 min Scan# 2425
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

Instrument :
 BNA_N
 ClientSampled :
 A41T8

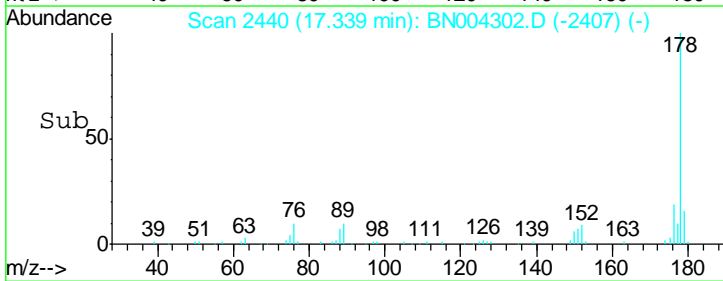
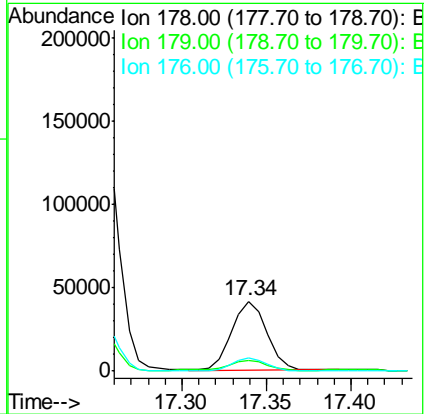
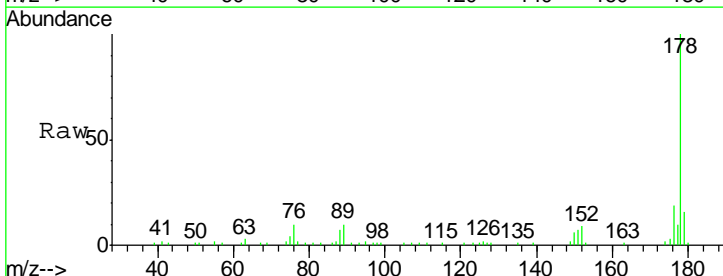
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178 | 100 | | |
| 179 | 15.3 | 12.1 | 18.1 |
| 176 | 18.6 | 15.0 | 22.6 |

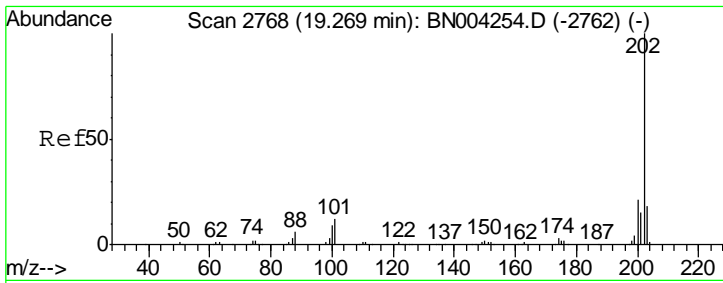
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#71
 Anthracene
 Concen: 5.171 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178 | 100 | | |
| 179 | 15.8 | 12.1 | 18.1 |
| 176 | 18.5 | 15.2 | 22.8 |



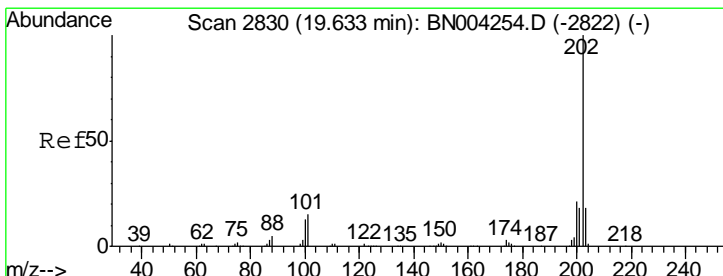
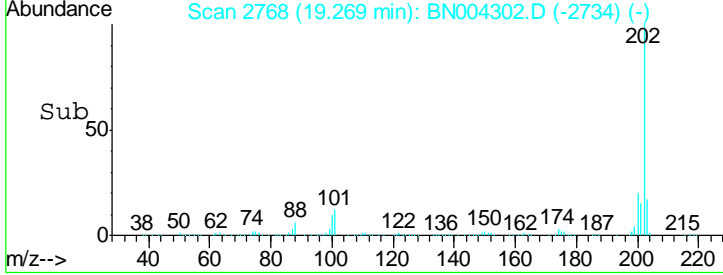
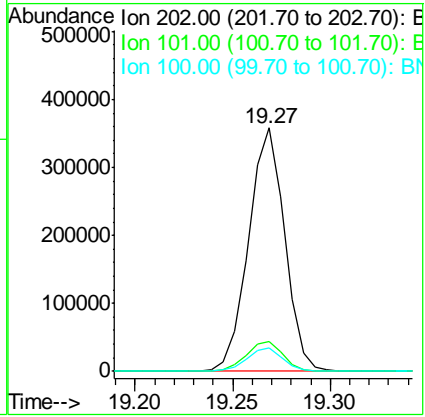
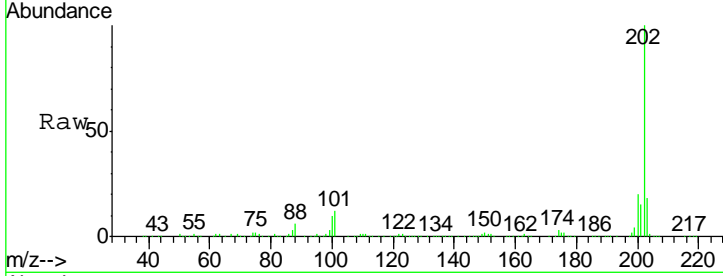


#76
 Fluoranthene
 Concen: 32.945 ng/ul
 RT: 19.27 min Scan# 2768
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

Instrument :
 BNA_N
ClientSampled :
 A41T8

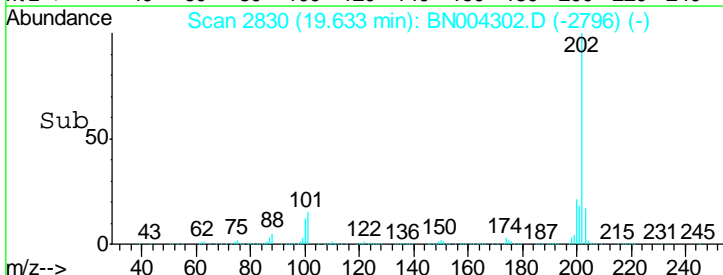
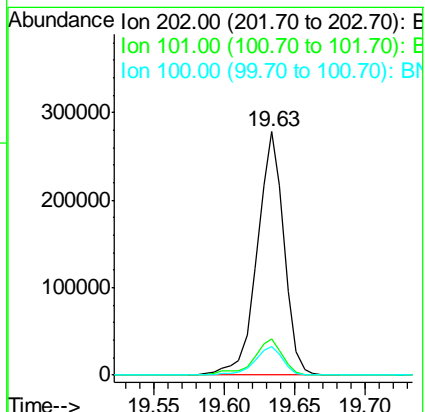
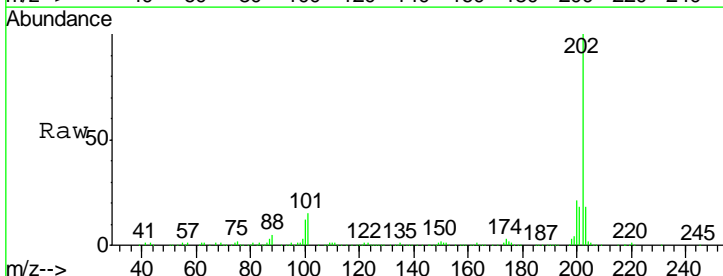
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202 | 100 | | |
| 101 | 12.3 | 10.2 | 15.2 |
| 100 | 9.6 | 7.8 | 11.8 |

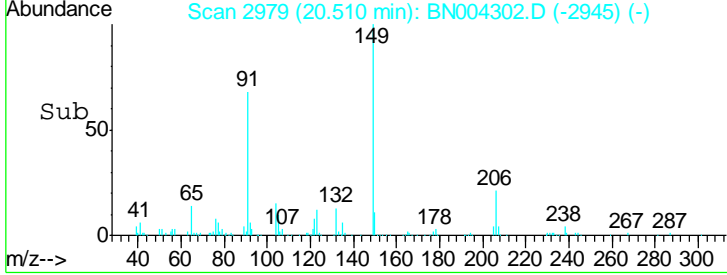
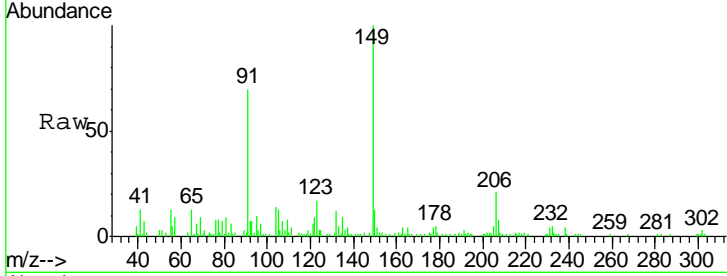
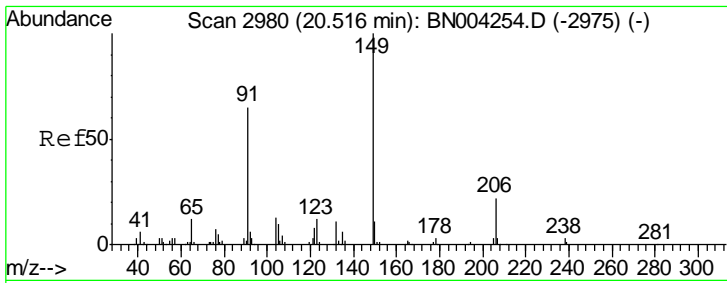
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#79
 Pyrene
 Concen: 34.229 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202 | 100 | | |
| 101 | 14.6 | 12.2 | 18.2 |
| 100 | 11.8 | 9.9 | 14.9 |



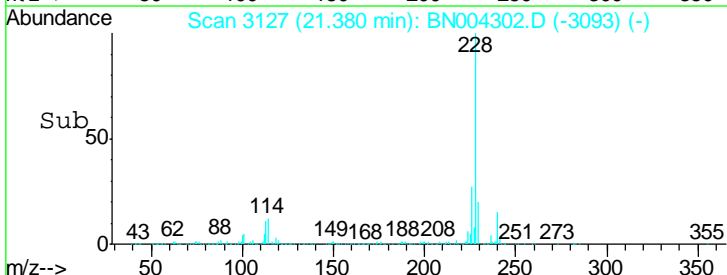
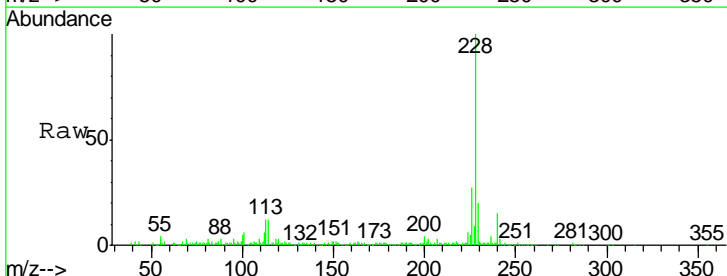
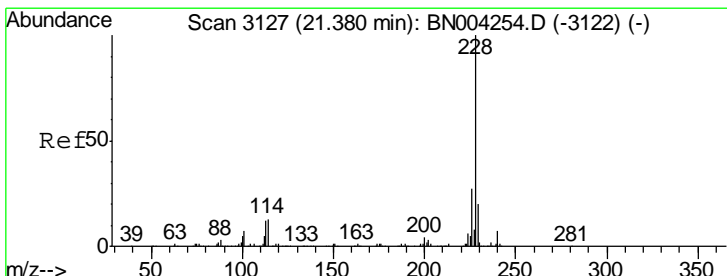
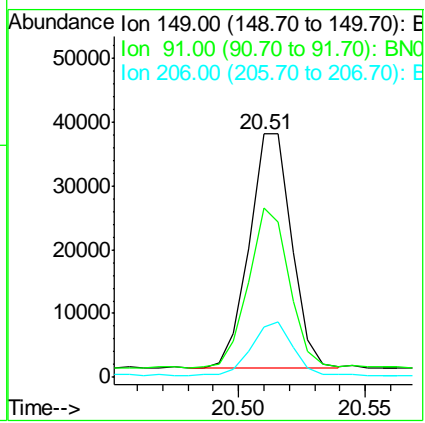


#80
 Butylbenzylphthalate
 Concen: 8.780 ng/ul
 RT: 20.51 min Scan# 2979
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 149 | 42721 | | |
| 91 | 69.6 | 53.0 | 79.4 |
| 206 | 20.5 | 17.1 | 25.7 |

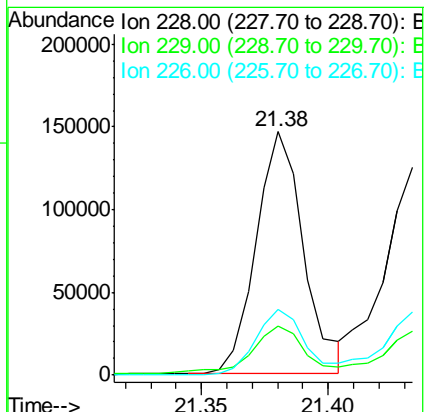
Instrument :
 BNA_N
 ClientSampled :
 A41T8

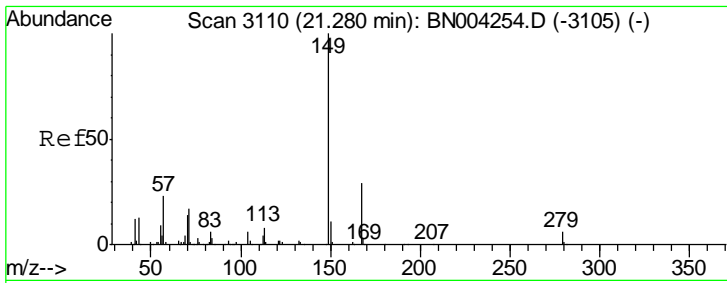
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#82
 Benzo(a)anthracene
 Concen: 15.811 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 192170 | | |
| 229 | 20.4 | 15.9 | 23.9 |
| 226 | 27.0 | 21.4 | 32.2 |





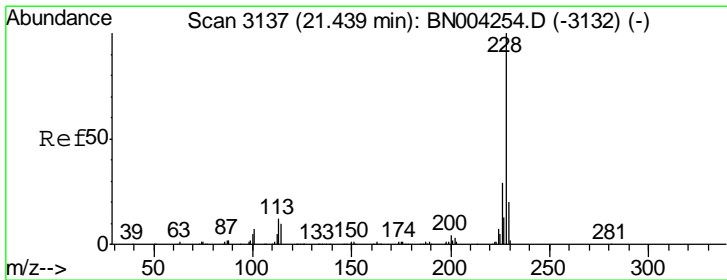
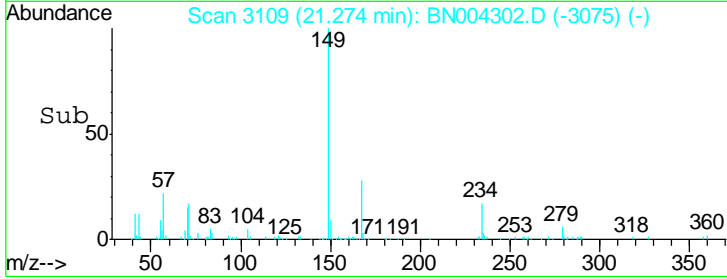
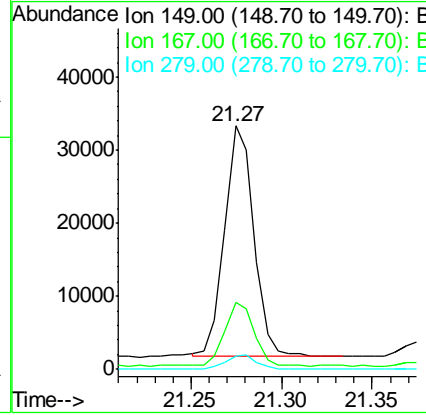
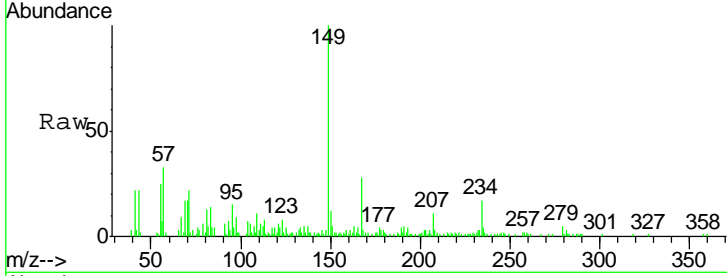
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.753 ng/ul
 RT: 21.27 min Scan# 3109
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

Instrument :
 BNA_N
 ClientSampled :
 A41T8

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 149 | 100 | | |
| 167 | 27.8 | 23.0 | 34.4 |
| 279 | 5.3 | 4.4 | 6.6 |

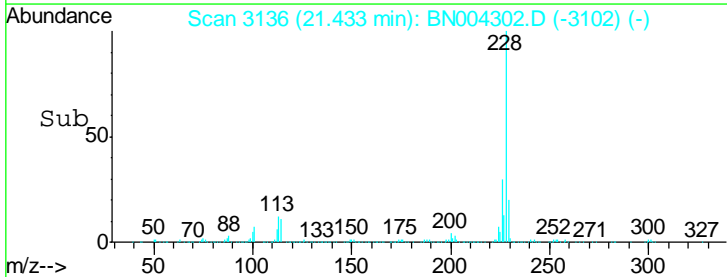
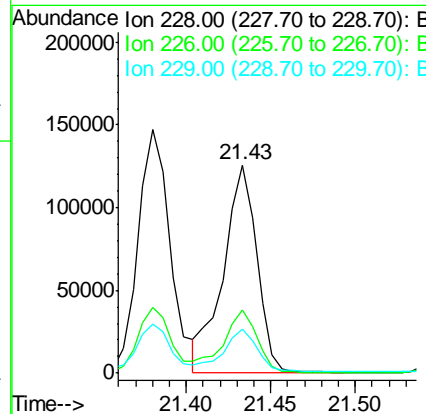
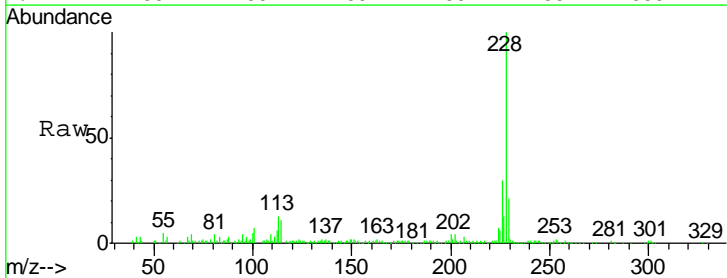
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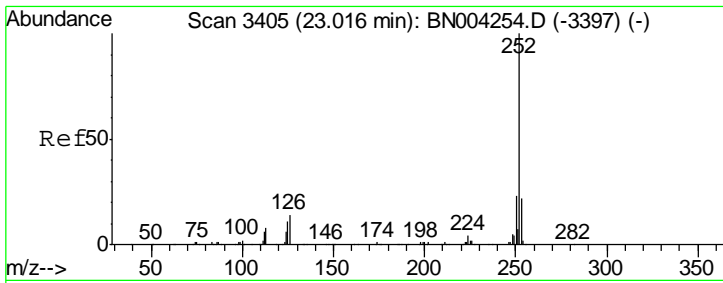
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#84
 Chrysene
 Concen: 15.144 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 226 | 30.3 | 23.8 | 35.8 |
| 229 | 21.0 | 15.8 | 23.6 |





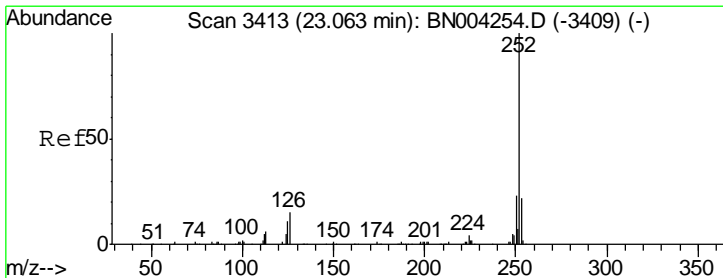
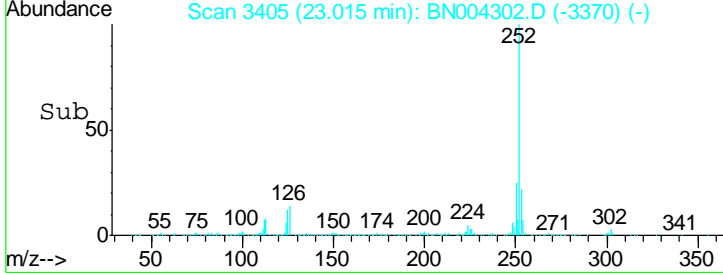
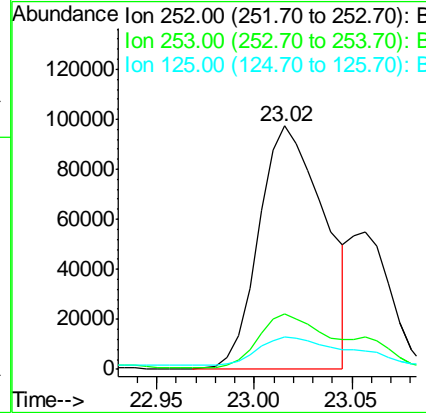
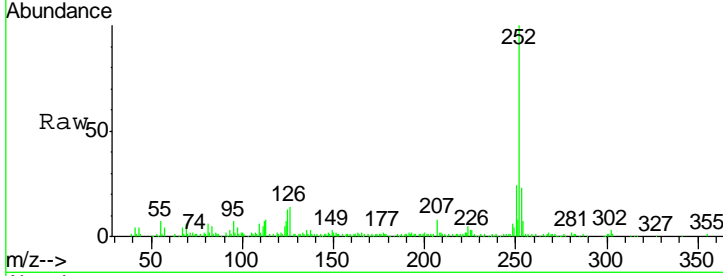
#87
 Benzo(b)fluoranthene
 Concen: 19.653 ng/ul
 RT: 23.02 min Scan# 3405
 Delta R.T. 0.01 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

Instrument :
 BNA_N
 ClientSampled :
 A41T8

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.8 | 17.3 | 25.9 |
| 125 | 13.2 | 8.2 | 12.4# |

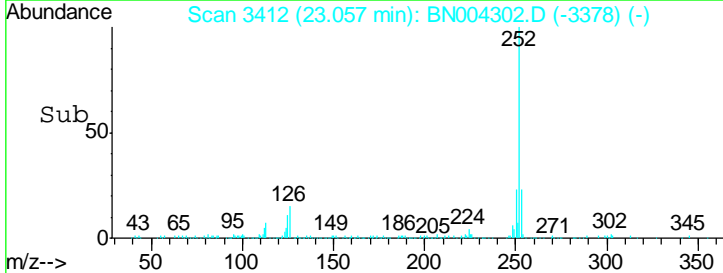
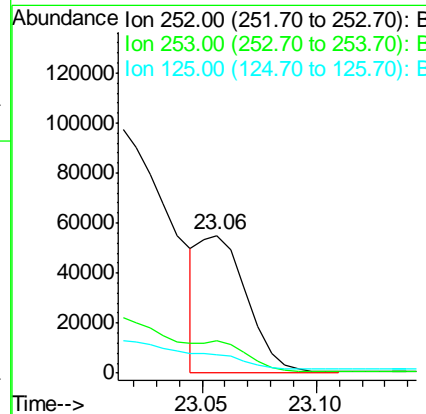
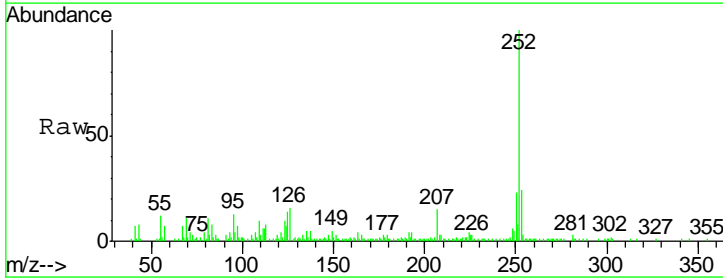
Manual Integrations
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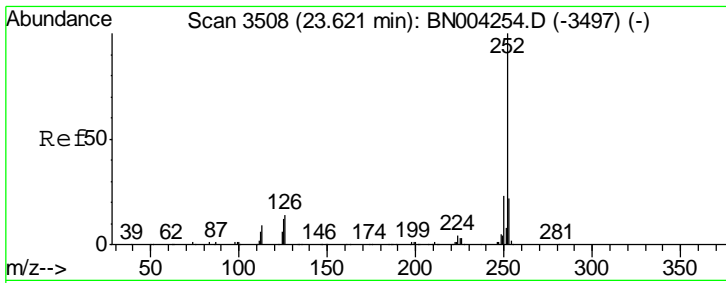
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#88
 Benzo(k)fluoranthene
 Concen: 7.247 ng/ul m
 RT: 23.06 min Scan# 3412
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 23.6 | 17.1 | 25.7 |
| 125 | 13.6 | 7.9 | 11.9# |



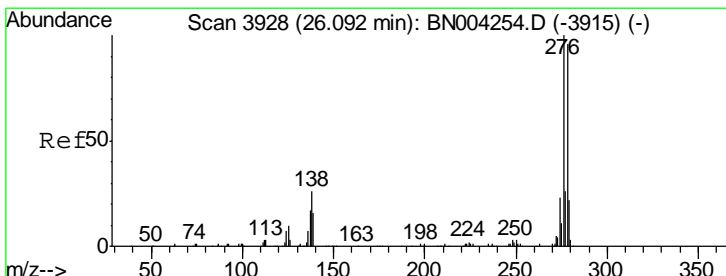
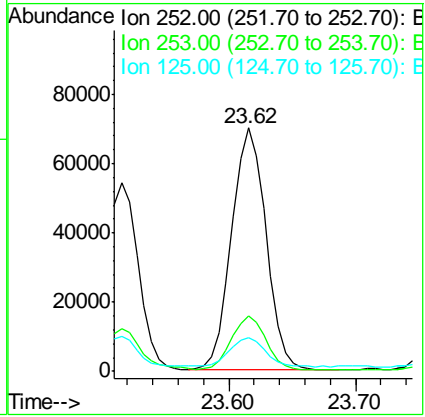
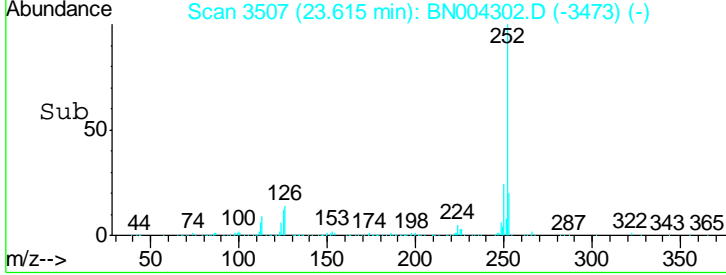
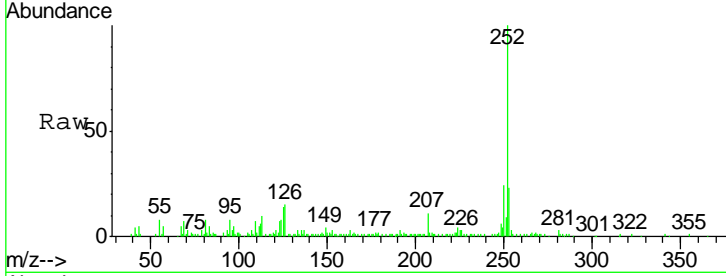


#90
 Benzo(a)pyrene
 Concen: 11.891 ng/ul
 RT: 23.62 min Scan# 3507
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

Instrument :
 BNA_N
ClientSampled :
 A41T8

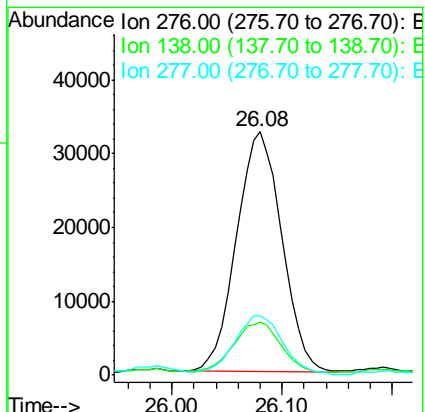
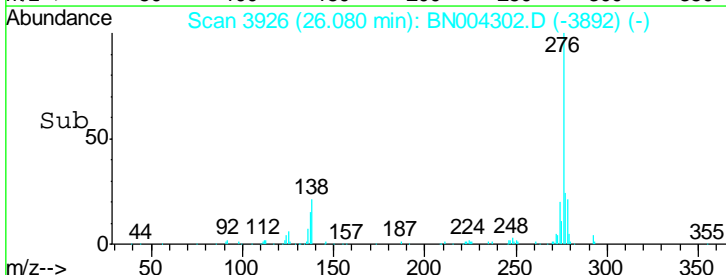
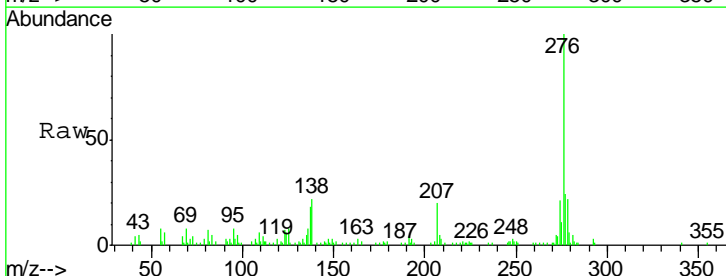
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 252 | 131540 | | |
| 253 | 22.7 | 17.5 | 26.3 |
| 125 | 13.8 | 9.1 | 13.7# |

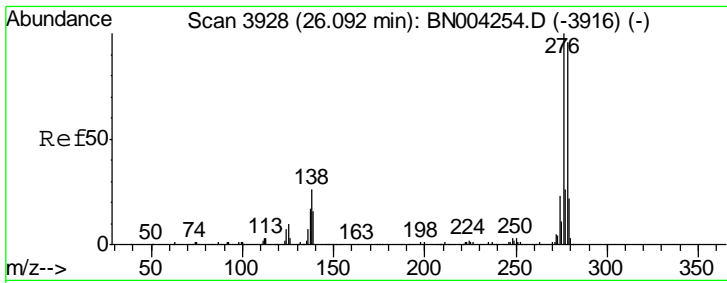
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#91
 Indeno(1,2,3-cd)pyrene
 Concen: 6.505 ng/ul
 RT: 26.08 min Scan# 3926
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 276 | 93800 | | |
| 138 | 21.9 | 20.4 | 30.6 |
| 277 | 24.4 | 20.6 | 30.8 |





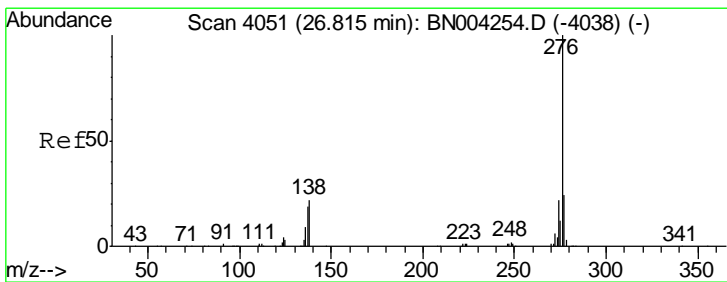
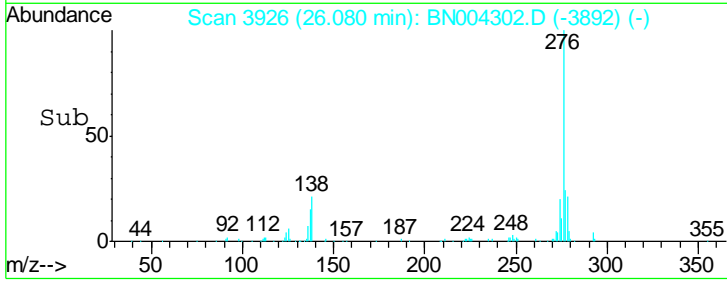
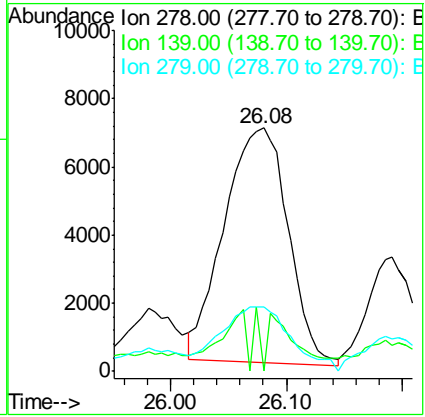
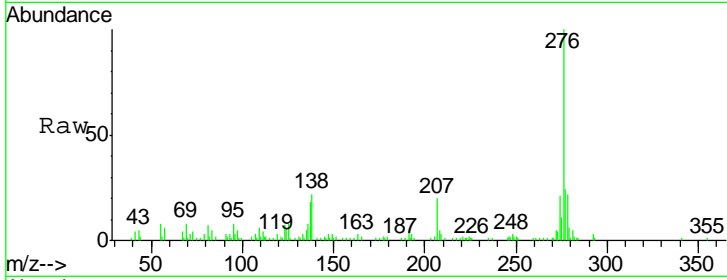
#92
 Dibenzo(a,h)anthracene
 Concen: 2.207 ng/ul
 RT: 26.08 min Scan# 3926
 Delta R.T. -0.00 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

Instrument :
 BNA_N
 ClientSampled :
 A41T8

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 278 | 26459 | | |
| 278 | 100 | | |
| 139 | 0.0 | 13.3 | 19.9# |
| 279 | 26.3 | 19.0 | 28.6 |

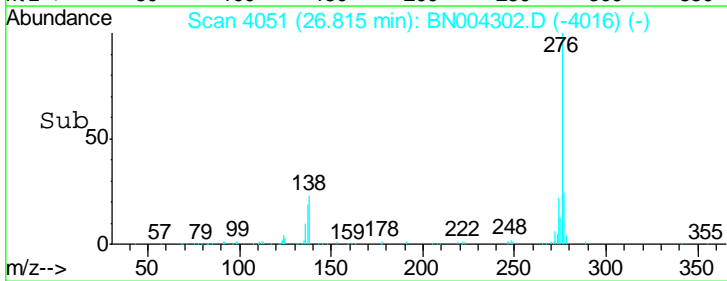
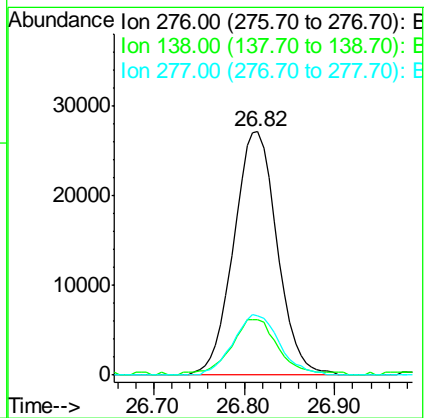
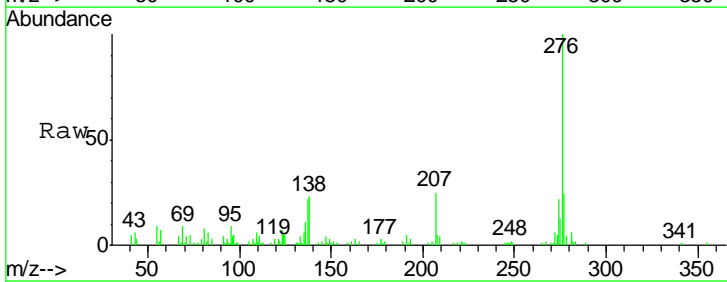
Manual Integrations
 APPROVED

Sohil
 1/2/2019 3:42:21 PM



#93
 Benzo(g,h,i)perylene
 Concen: 7.500 ng/ul
 RT: 26.82 min Scan# 4051
 Delta R.T. 0.01 min
 Lab File: BN004302.D
 Acq: 29 Dec 2018 15:35

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 276 | 90525 | | |
| 276 | 100 | | |
| 138 | 22.7 | 18.2 | 27.4 |
| 277 | 24.4 | 19.0 | 28.6 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T8

Manual Integrations
 APPROVED

Sohil
 1/2/2019 3:42:21 PM

Quant Time: Dec 31 02:50:10 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 31326 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 153504 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 92201 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.21 | 188 | 196810 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 194916 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 191756 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0d | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 28) Naphthalene | 10.66 | 128 | 10203 | 1.239 | ng/ul | 98 |
| 49) Acenaphthene | 14.52 | 153 | 13555 | 2.046 | ng/ul | 98 |
| 53) Dibenzofuran | 14.86 | 168 | 14102 | 1.500 | ng/ul | 97 |
| 58) Fluorene | 15.51 | 166 | 15333 | 1.958 | ng/ul | 100 |
| 69) Phenanthrene | 17.25 | 178 | 281222 | 24.731 | ng/ul | 100 |
| 71) Anthracene | 17.34 | 178 | 60280 | 5.171 | ng/ul | 99 |
| 76) Fluoranthene | 19.27 | 202 | 459204 | 32.945 | ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 372728 | 34.229 | ng/ul | 99 |
| 80) Butylbenzylphthalate | 20.51 | 149 | 42721 | 8.780 | ng/ul | 96 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 192170 | 15.811 | ng/ul | 99 |
| 83) Bis(2-ethylhexyl)phthalate | 21.27 | 149 | 35325 | 4.753 | ng/ul | 98 |
| 84) Chrysene | 21.43 | 228 | 172413 | 15.144 | ng/ul | 98 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 225749 | 19.653 | ng/ul# | 96 |
| 88) Benzo(k)fluoranthene | 23.06 | 252 | 77942m | 7.247 | ng/ul | |
| 90) Benzo(a)pyrene | 23.62 | 252 | 131540 | 11.891 | ng/ul# | 97 |
| 91) Indeno(1,2,3-cd)pyrene | 26.08 | 276 | 93800 | 6.505 | ng/ul | 95 |
| 92) Dibenzo(a,h)anthracene | 26.08 | 278 | 26459 | 2.207 | ng/ul# | 81 |
| 93) Benzo(g,h,i)perylene | 26.82 | 276 | 90525 | 7.500 | ng/ul | 99 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T8

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 42 | rVB | 63076 | 70580 | 5.70% | 0.529% |
| 2 | 4.534 | 259 | 263 | 268 | rBB | 32089 | 42910 | 3.47% | 0.322% |
| 3 | 7.816 | 815 | 821 | 828 | rBB | 108566 | 167041 | 13.50% | 1.253% |
| 4 | 10.616 | 1289 | 1297 | 1302 | rBV | 176055 | 287930 | 23.26% | 2.159% |
| 5 | 10.663 | 1302 | 1305 | 1311 | rVB | 11206 | 16940 | 1.37% | 0.127% |
| 6 | 14.457 | 1942 | 1950 | 1957 | rBV2 | 294982 | 446592 | 36.08% | 3.349% |
| 7 | 14.522 | 1957 | 1961 | 1966 | rVB | 30804 | 43243 | 3.49% | 0.324% |
| 8 | 14.857 | 2011 | 2018 | 2023 | rBV | 18857 | 27460 | 2.22% | 0.206% |
| 9 | 15.510 | 2123 | 2129 | 2136 | rBB | 28568 | 44654 | 3.61% | 0.335% |
| 10 | 15.798 | 2174 | 2178 | 2182 | rBB | 10153 | 12582 | 1.02% | 0.094% |
| 11 | 15.945 | 2199 | 2203 | 2210 | rVB | 10884 | 19583 | 1.58% | 0.147% |
| 12 | 16.134 | 2230 | 2235 | 2249 | rBV3 | 5601 | 17167 | 1.39% | 0.129% |
| 13 | 16.722 | 2328 | 2335 | 2341 | rBV5 | 9740 | 21455 | 1.73% | 0.161% |
| 14 | 16.798 | 2341 | 2348 | 2352 | rVV2 | 12638 | 23951 | 1.93% | 0.180% |
| 15 | 16.869 | 2354 | 2360 | 2365 | rBV | 16920 | 25097 | 2.03% | 0.188% |
| 16 | 16.945 | 2365 | 2373 | 2377 | rBV4 | 35264 | 60271 | 4.87% | 0.452% |
| 17 | 17.028 | 2382 | 2387 | 2389 | rBV | 19463 | 26994 | 2.18% | 0.202% |
| 18 | 17.210 | 2410 | 2418 | 2421 | rBV | 339676 | 498896 | 40.31% | 3.741% |
| 19 | 17.251 | 2421 | 2425 | 2431 | rVB | 459621 | 649768 | 52.49% | 4.872% |
| 20 | 17.339 | 2435 | 2440 | 2444 | rBV | 93922 | 134634 | 10.88% | 1.010% |
| 21 | 17.616 | 2483 | 2487 | 2491 | rBV | 13708 | 21018 | 1.70% | 0.158% |
| 22 | 17.716 | 2501 | 2504 | 2510 | rVB | 8819 | 12456 | 1.01% | 0.093% |
| 23 | 17.798 | 2511 | 2518 | 2524 | rVV2 | 64234 | 115223 | 9.31% | 0.864% |
| 24 | 17.910 | 2532 | 2537 | 2546 | rBV5 | 14597 | 31928 | 2.58% | 0.239% |
| 25 | 18.045 | 2556 | 2560 | 2561 | rBV | 16705 | 17427 | 1.41% | 0.131% |
| 26 | 18.075 | 2561 | 2565 | 2570 | rVV | 67117 | 116655 | 9.42% | 0.875% |
| 27 | 18.128 | 2570 | 2574 | 2581 | rVV2 | 82802 | 137007 | 11.07% | 1.027% |
| 28 | 18.210 | 2584 | 2588 | 2592 | rVV | 31726 | 44651 | 3.61% | 0.335% |
| 29 | 18.269 | 2592 | 2598 | 2603 | rVV3 | 108616 | 221167 | 17.87% | 1.658% |
| 30 | 18.316 | 2603 | 2606 | 2611 | rVV2 | 56901 | 87428 | 7.06% | 0.656% |
| 31 | 18.363 | 2611 | 2614 | 2621 | rVB3 | 20598 | 32860 | 2.65% | 0.246% |
| 32 | 18.551 | 2642 | 2646 | 2648 | rBV | 38447 | 50733 | 4.10% | 0.380% |
| 33 | 18.580 | 2648 | 2651 | 2657 | rVV | 45702 | 70871 | 5.73% | 0.531% |
| 34 | 18.633 | 2657 | 2660 | 2667 | rVV2 | 25982 | 43148 | 3.49% | 0.324% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T8

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 35 | 18.727 | 2673 | 2676 | 2680 | rVB | 27841 | 33605 | 2.71% | 0.252% |
| 36 | 18.828 | 2689 | 2693 | 2698 | rVB5 | 21199 | 28624 | 2.31% | 0.215% |
| 37 | 18.875 | 2698 | 2701 | 2704 | rVB | 14273 | 14306 | 1.16% | 0.107% |
| 38 | 18.916 | 2705 | 2708 | 2711 | rBV | 11854 | 14109 | 1.14% | 0.106% |
| 39 | 18.992 | 2717 | 2721 | 2725 | rBV | 40105 | 57206 | 4.62% | 0.429% |
| 40 | 19.039 | 2726 | 2729 | 2734 | rVV5 | 29733 | 57207 | 4.62% | 0.429% |
| 41 | 19.086 | 2734 | 2737 | 2739 | rVV | 51200 | 69205 | 5.59% | 0.519% |
| 42 | 19.110 | 2739 | 2741 | 2753 | rVB5 | 68247 | 169164 | 13.67% | 1.268% |
| 43 | 19.269 | 2762 | 2768 | 2773 | rBV | 816332 | 1067524 | 86.24% | 8.005% |
| 44 | 19.322 | 2773 | 2777 | 2778 | rBV2 | 19573 | 21879 | 1.77% | 0.164% |
| 45 | 19.392 | 2786 | 2789 | 2796 | rVB2 | 92259 | 118668 | 9.59% | 0.890% |
| 46 | 19.457 | 2797 | 2800 | 2803 | rBV3 | 22078 | 28794 | 2.33% | 0.216% |
| 47 | 19.492 | 2803 | 2806 | 2817 | rVB2 | 91958 | 143525 | 11.60% | 1.076% |
| 48 | 19.598 | 2819 | 2824 | 2826 | rVV2 | 115454 | 175539 | 14.18% | 1.316% |
| 49 | 19.633 | 2826 | 2830 | 2837 | rVB | 636545 | 849727 | 68.65% | 6.372% |
| 50 | 19.698 | 2838 | 2841 | 2845 | rBV | 31538 | 41928 | 3.39% | 0.314% |
| 51 | 19.816 | 2857 | 2861 | 2863 | rBV | 42319 | 59875 | 4.84% | 0.449% |
| 52 | 19.845 | 2864 | 2866 | 2870 | rVB | 45921 | 42514 | 3.43% | 0.319% |
| 53 | 19.963 | 2880 | 2886 | 2891 | rBV2 | 91178 | 148584 | 12.00% | 1.114% |
| 54 | 20.104 | 2905 | 2910 | 2916 | rBV2 | 179485 | 299286 | 24.18% | 2.244% |
| 55 | 20.157 | 2917 | 2919 | 2923 | rVB2 | 31339 | 31629 | 2.56% | 0.237% |
| 56 | 20.222 | 2927 | 2930 | 2934 | rBV | 44475 | 62922 | 5.08% | 0.472% |
| 57 | 20.380 | 2953 | 2957 | 2961 | rVB | 186237 | 223963 | 18.09% | 1.679% |
| 58 | 20.433 | 2962 | 2966 | 2969 | rBV2 | 62750 | 85785 | 6.93% | 0.643% |
| 59 | 20.510 | 2976 | 2979 | 2982 | rBV | 128369 | 157363 | 12.71% | 1.180% |
| 60 | 20.545 | 2982 | 2985 | 2991 | rVB2 | 180769 | 213580 | 17.25% | 1.601% |
| 61 | 20.698 | 3004 | 3011 | 3017 | rBV2 | 134049 | 279932 | 22.62% | 2.099% |
| 62 | 20.845 | 3032 | 3036 | 3038 | rBV2 | 72551 | 82344 | 6.65% | 0.617% |
| 63 | 20.880 | 3039 | 3042 | 3045 | rVV | 47125 | 52641 | 4.25% | 0.395% |
| 64 | 21.039 | 3066 | 3069 | 3072 | rBV2 | 53387 | 74118 | 5.99% | 0.556% |
| 65 | 21.074 | 3072 | 3075 | 3079 | rVV2 | 96671 | 122256 | 9.88% | 0.917% |
| 66 | 21.116 | 3079 | 3082 | 3087 | rVV2 | 125125 | 144314 | 11.66% | 1.082% |
| 67 | 21.174 | 3089 | 3092 | 3097 | rVB | 95005 | 125369 | 10.13% | 0.940% |
| 68 | 21.274 | 3106 | 3109 | 3114 | rVB2 | 108399 | 128362 | 10.37% | 0.962% |
| 69 | 21.398 | 3123 | 3130 | 3133 | rBV2 | 613711 | 1237790 | 100.00% | 9.281% |
| 70 | 21.433 | 3133 | 3136 | 3145 | rVB | 338324 | 440154 | 35.56% | 3.300% |
| 71 | 21.551 | 3152 | 3156 | 3161 | rBV | 96732 | 127137 | 10.27% | 0.953% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T8

Integration Parameters: LSCINT.P
 Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 21.604 | 3161 | 3165 | 3168 | rBV | 77163 | 104168 | 8.42% | 0.781% |
| 73 | 21.721 | 3182 | 3185 | 3189 | rVB3 | 79417 | 103597 | 8.37% | 0.777% |
| 74 | 22.010 | 3232 | 3234 | 3240 | rVB2 | 65221 | 81870 | 6.61% | 0.614% |
| 75 | 23.015 | 3400 | 3405 | 3410 | rBV | 271083 | 620791 | 50.15% | 4.655% |
| 76 | 23.515 | 3486 | 3490 | 3499 | rVB | 162428 | 300728 | 24.30% | 2.255% |
| 77 | 23.615 | 3502 | 3507 | 3514 | rVB | 188836 | 353244 | 28.54% | 2.649% |
| 78 | 23.721 | 3519 | 3525 | 3530 | rBV2 | 232675 | 443871 | 35.86% | 3.328% |
| 79 | 26.080 | 3919 | 3926 | 3936 | rVB | 103286 | 314222 | 25.39% | 2.356% |
| 80 | 26.357 | 3969 | 3973 | 3980 | rVB2 | 31610 | 66966 | 5.41% | 0.502% |
| 81 | 26.809 | 4044 | 4050 | 4068 | rVB | 76517 | 275608 | 22.27% | 2.067% |

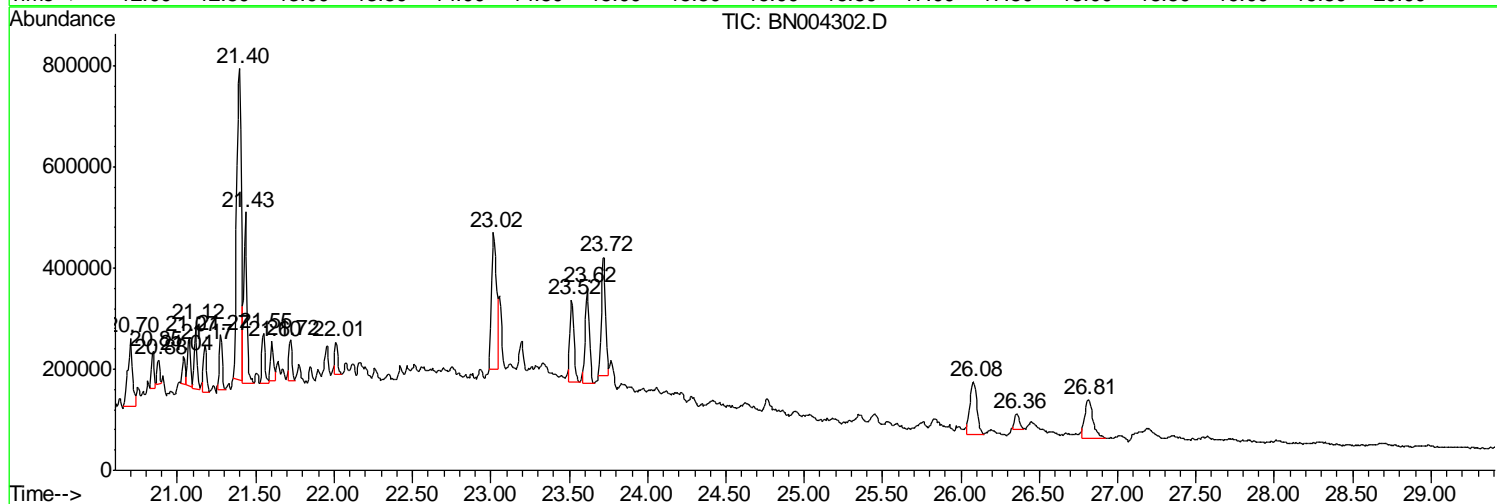
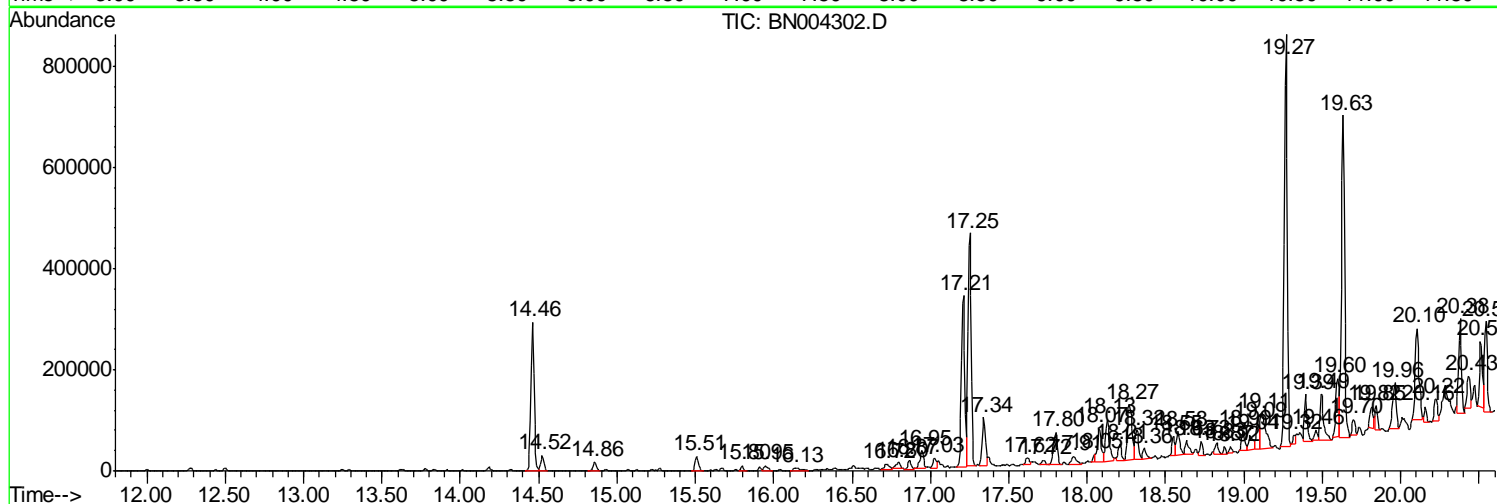
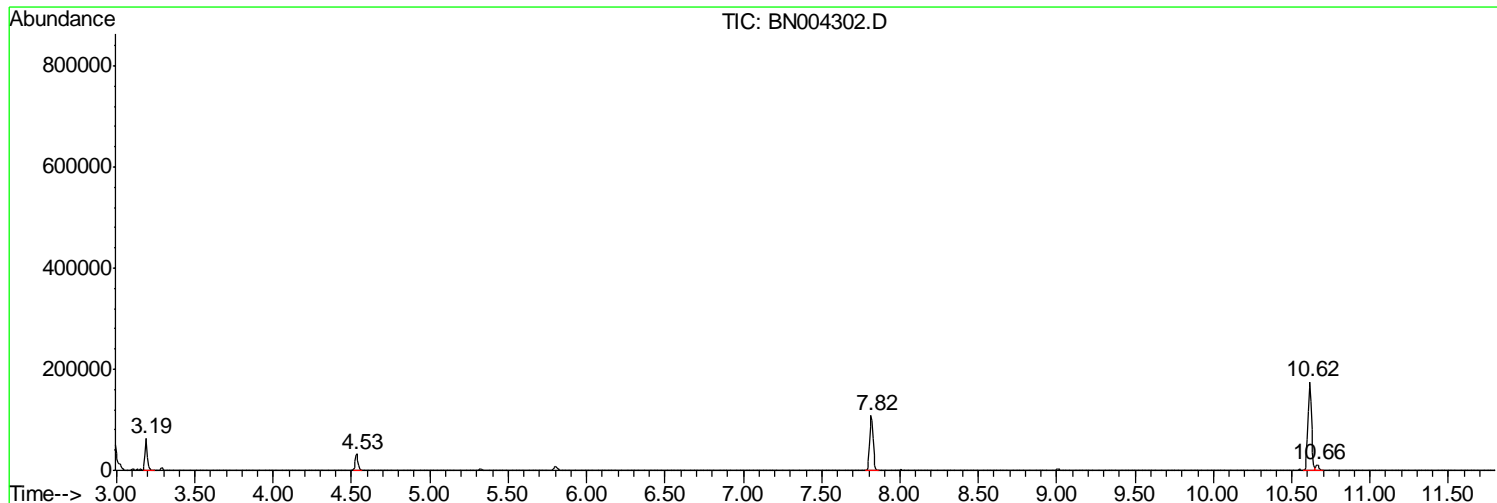
Sum of corrected areas: 13336313

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 Client Sampled :
 A41T8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T8

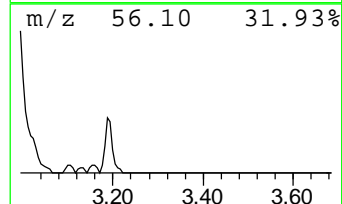
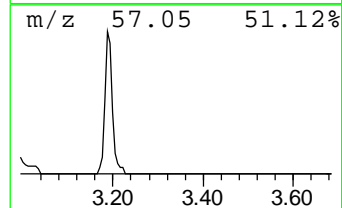
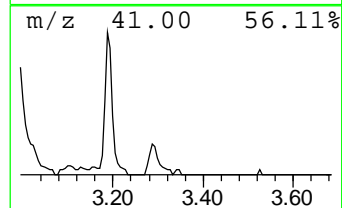
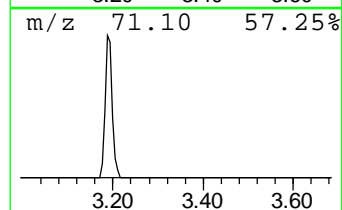
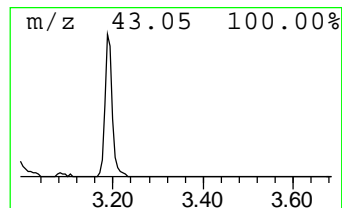
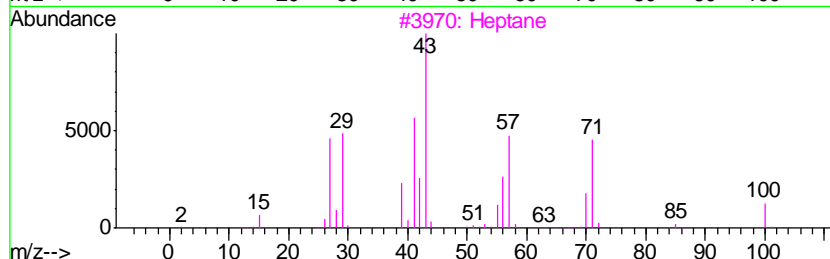
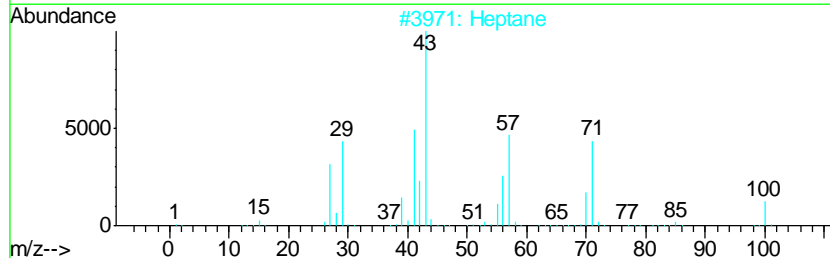
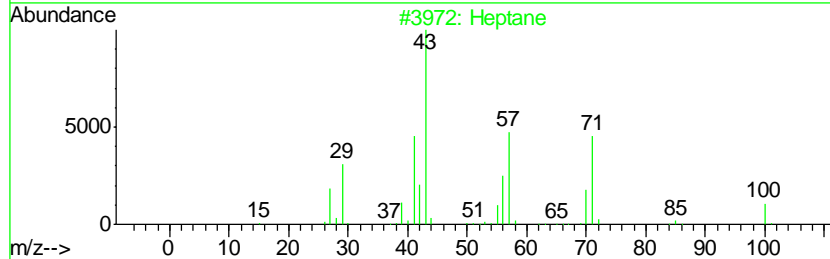
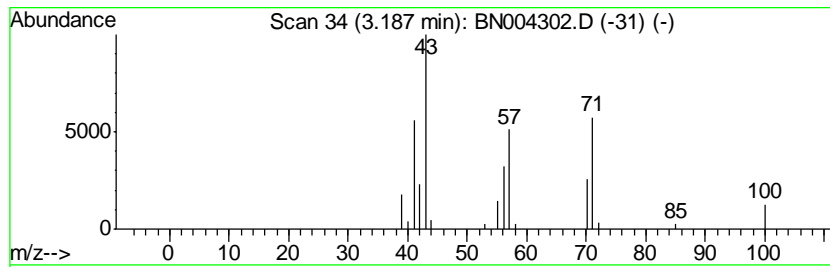
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 3.19 | 8.45 ng/ul | 70580 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 90 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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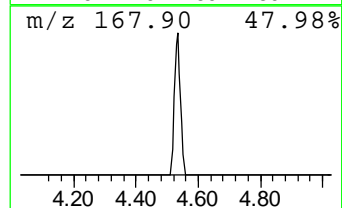
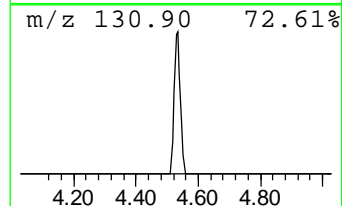
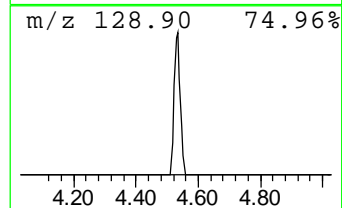
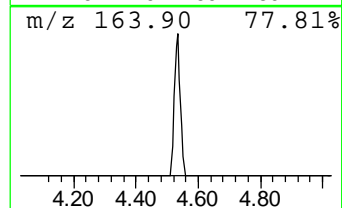
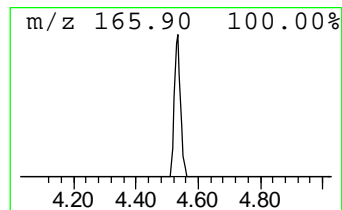
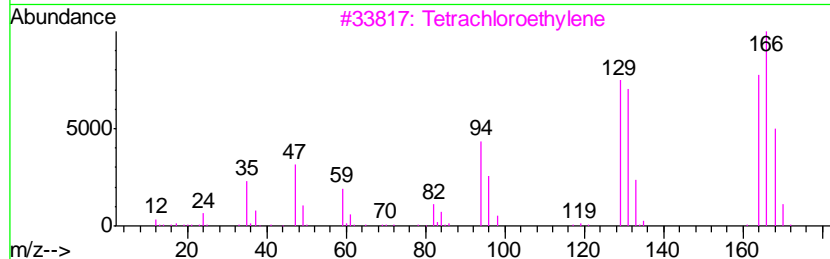
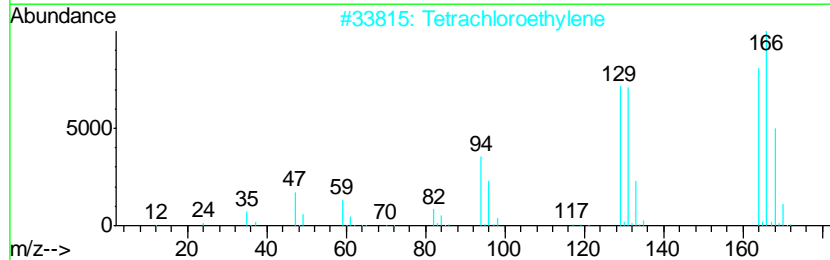
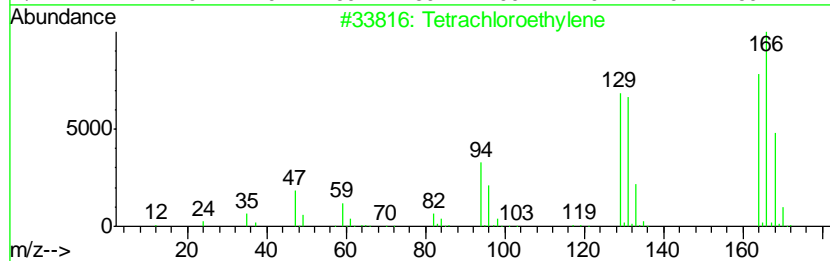
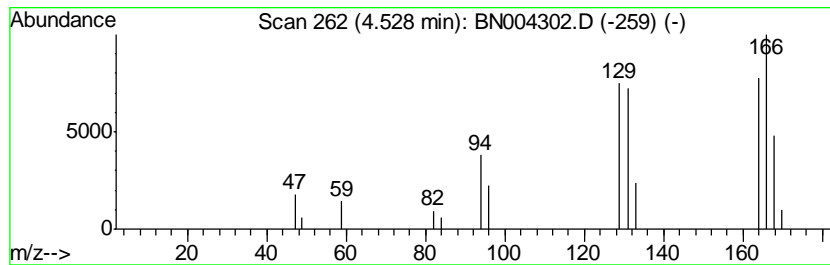
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 Tetrachloroethylene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 4.53 | 5.14 ng/ul | 42910 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|-----------|-------------|------|
| 1 | 5 | Tetrachloroethylene | 164 | C2Cl4 | 000127-18-4 | 98 |
| 2 | | Tetrachloroethylene | 164 | C2Cl4 | 000127-18-4 | 98 |
| 3 | | Tetrachloroethylene | 164 | C2Cl4 | 000127-18-4 | 97 |
| 4 | | Tetrachloroethylene | 164 | C2Cl4 | 000127-18-4 | 96 |
| 5 | | Pyrimidine, 5-fluoro-2,4-dichloro- | 166 | C4HCl2FN2 | 002927-71-1 | 46 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
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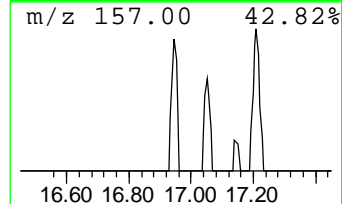
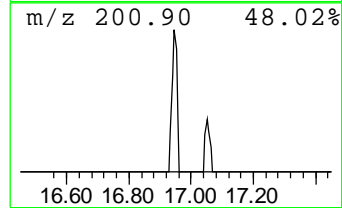
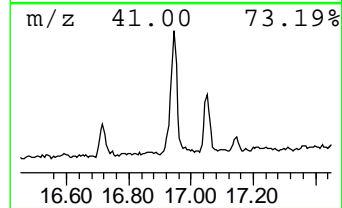
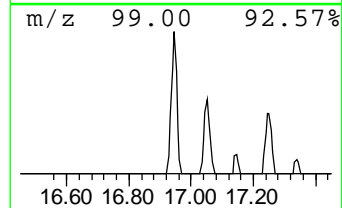
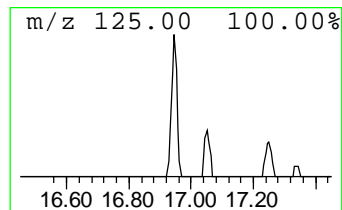
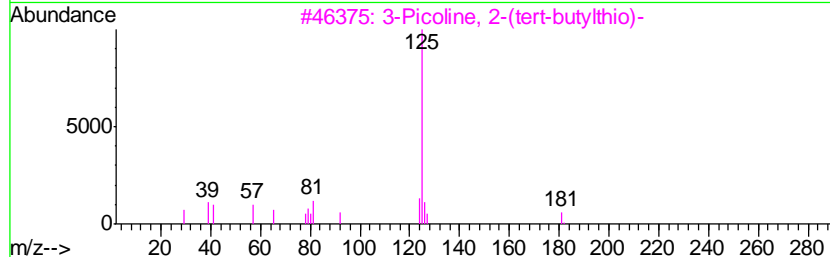
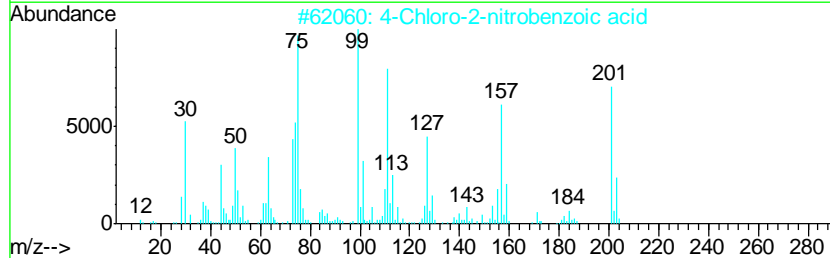
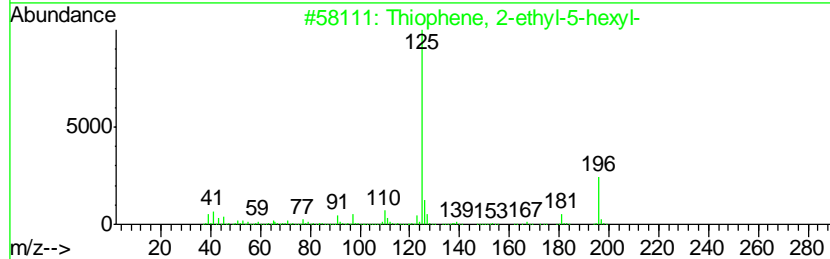
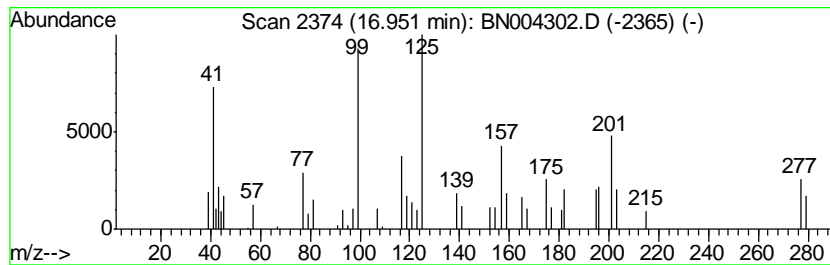
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 unknown-01 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 16.95 | 2.42 ng/ul | 60271 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------------------|-----|-----------|-------------|------|
| 1 | 5 | Thiophene, 2-ethyl-5-hexyl- | 196 | C12H20S | 042908-64-5 | 11 |
| 2 | | 4-Chloro-2-nitrobenzoic acid | 201 | C7H4ClNO4 | 006280-88-2 | 10 |
| 3 | | 3-Picoline, 2-(tert-butylthio)- | 181 | C10H15NS | 018833-87-9 | 10 |
| 4 | | Benzenethiol, 2-amino- | 125 | C6H7NS | 000137-07-5 | 9 |
| 5 | | 3-Picoline, 6-(tert-butylthio)- | 181 | C10H15NS | 018794-46-2 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
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Instrument :
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 ClientSampled :
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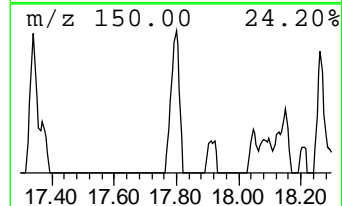
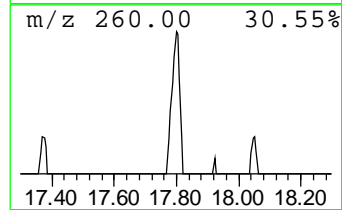
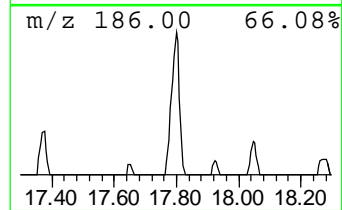
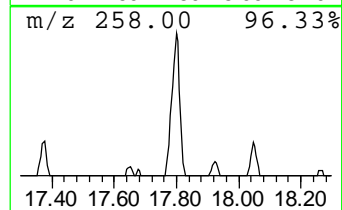
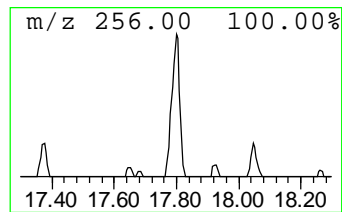
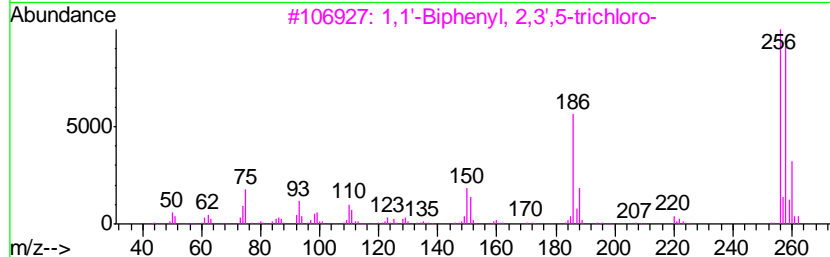
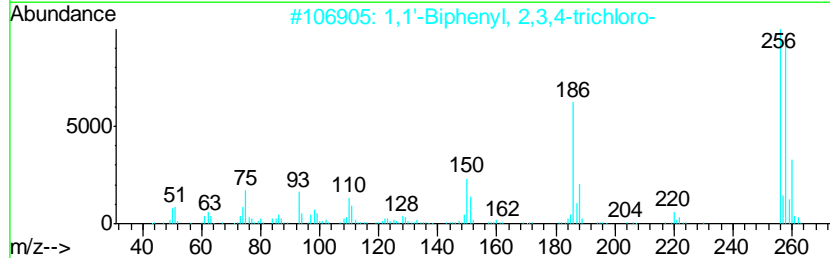
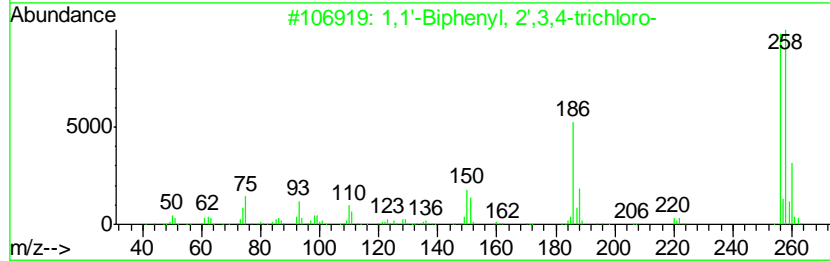
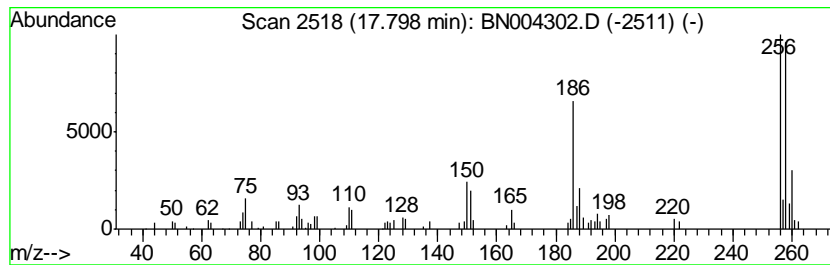
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 1,1'-Biphenyl, 2',3,4-trich... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 17.80 | 4.62 ng/ul | 115223 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2',3,4-trichloro- | 256 | C12H7Cl3 | 038444-86-9 | 99 |
| 2 | | 1,1'-Biphenyl, 2,3,4-trichloro- | 256 | C12H7Cl3 | 055702-46-0 | 99 |
| 3 | | 1,1'-Biphenyl, 2,3',5-trichloro- | 256 | C12H7Cl3 | 038444-81-4 | 99 |
| 4 | | 1,1'-Biphenyl, 2,3,6-trichloro- | 256 | C12H7Cl3 | 055702-45-9 | 99 |
| 5 | | 1,1'-Biphenyl, 2,4,4'-trichloro- | 256 | C12H7Cl3 | 007012-37-5 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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Instrument :
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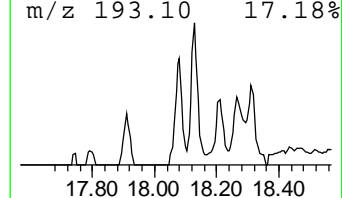
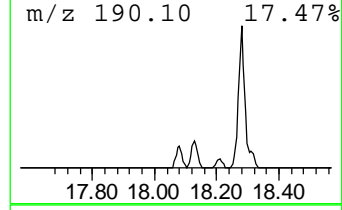
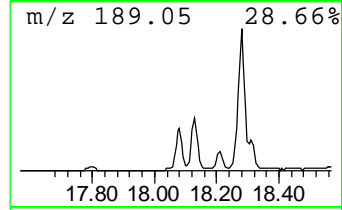
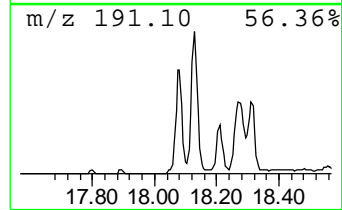
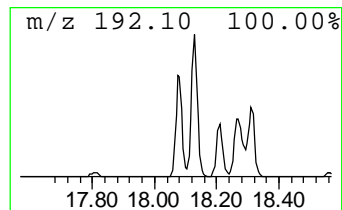
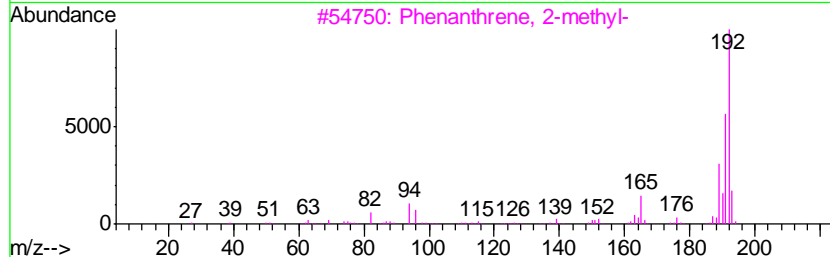
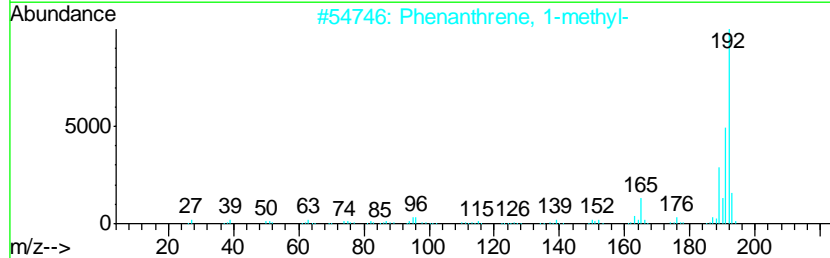
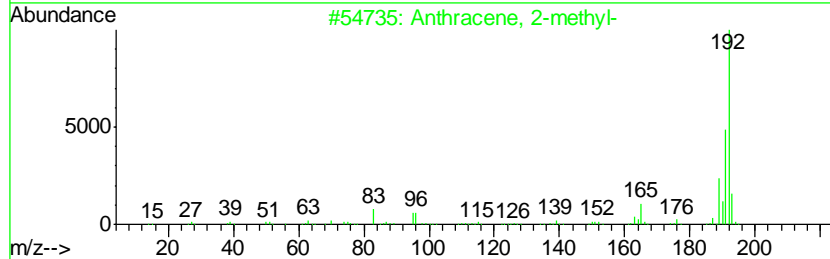
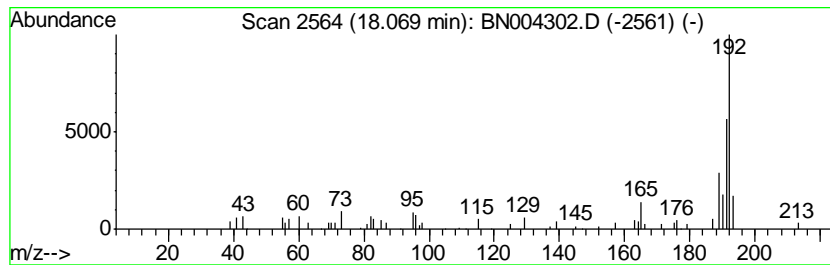
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 Anthracene, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.07 | 4.68 ng/ul | 116655 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 2 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 3 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 4 | | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 90 |
| 5 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
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Instrument :
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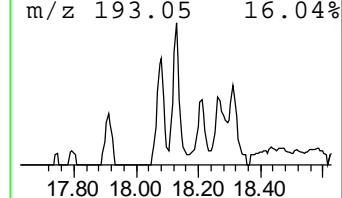
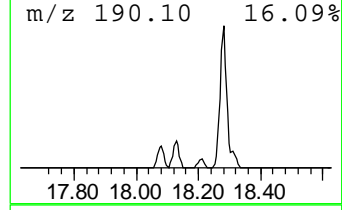
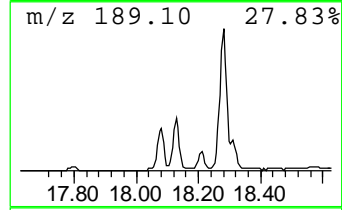
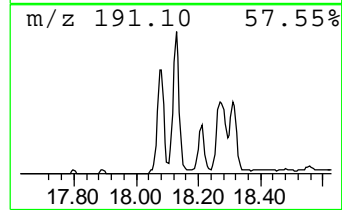
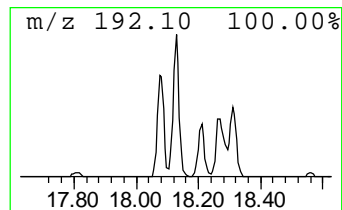
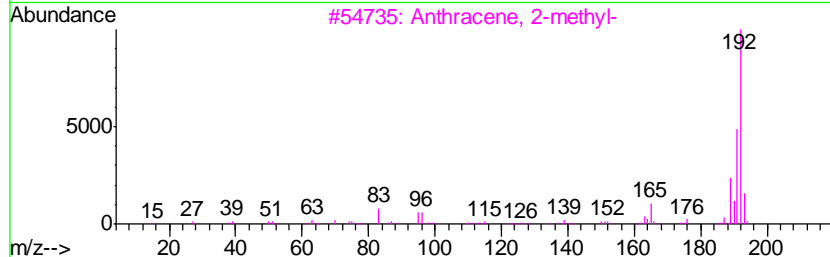
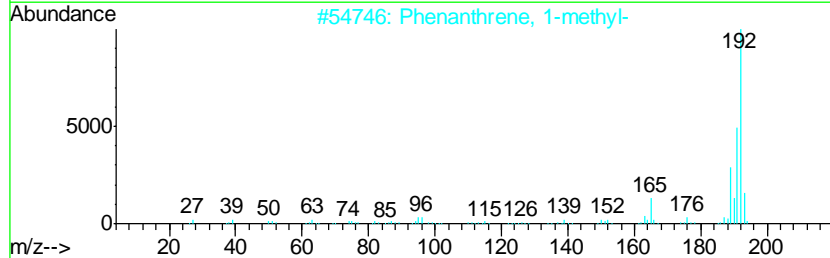
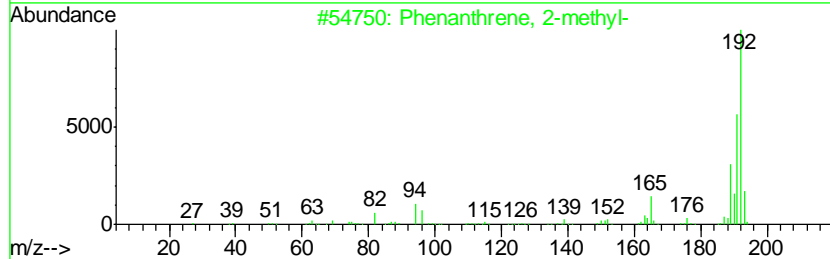
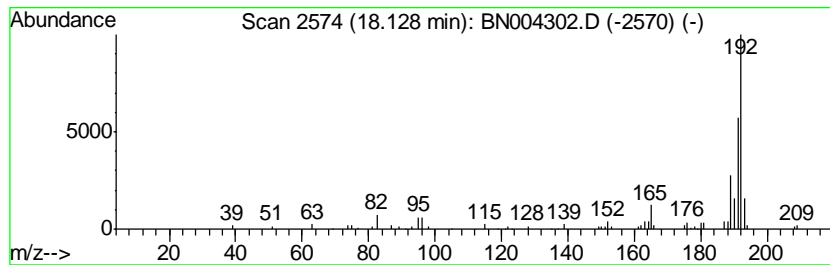
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.13 | 5.49 ng/ul | 137007 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 5 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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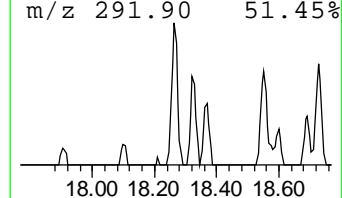
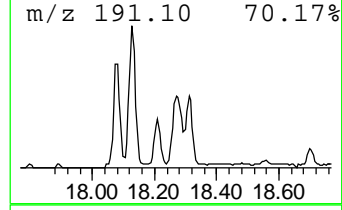
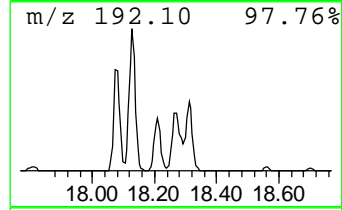
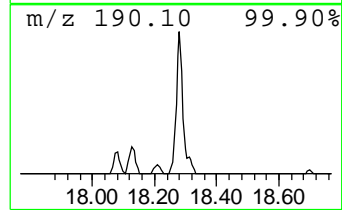
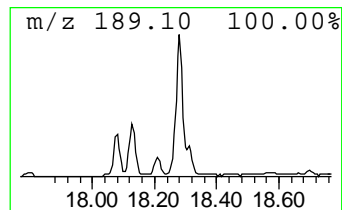
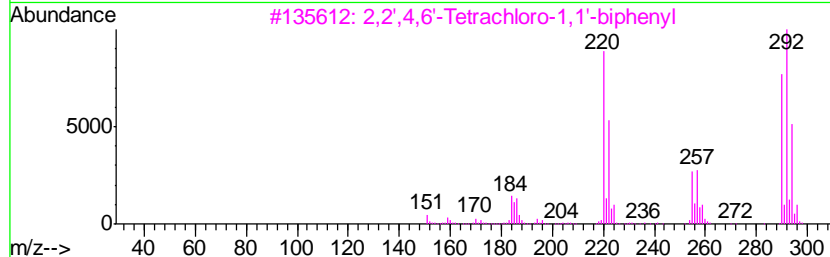
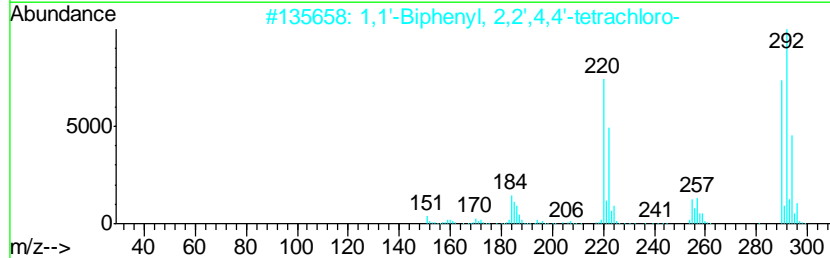
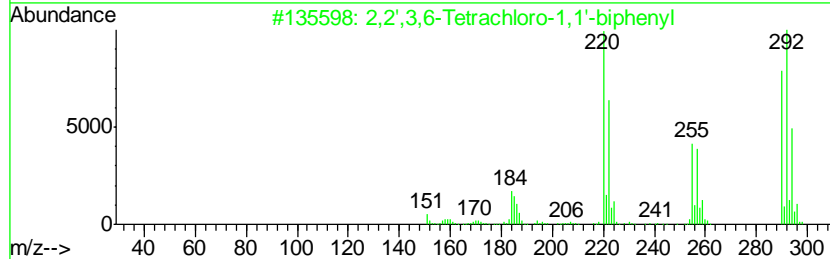
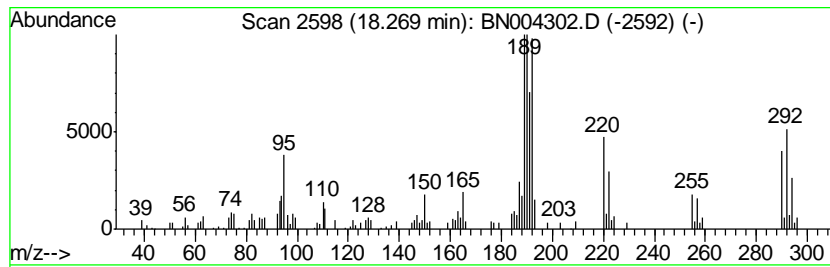
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 7 2,2',3,6-Tetrachloro-1,1'-b... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.27 | 8.87 ng/ul | 221167 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 2,2',3,6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-45-7 | 95 |
| 2 | | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 94 |
| 3 | | 2,2',4,6'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 068194-04-7 | 94 |
| 4 | | 2,2',4,5'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-47-9 | 93 |
| 5 | | 2,2',4,6'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 068194-04-7 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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Instrument :
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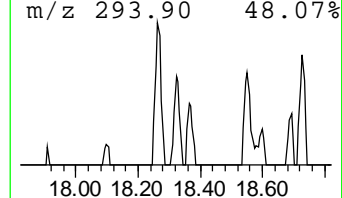
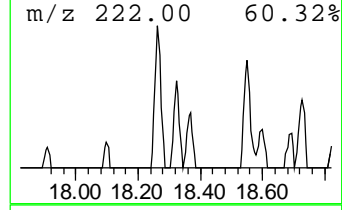
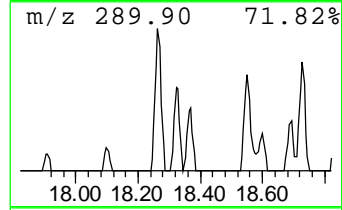
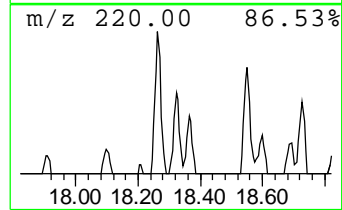
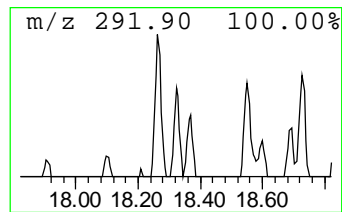
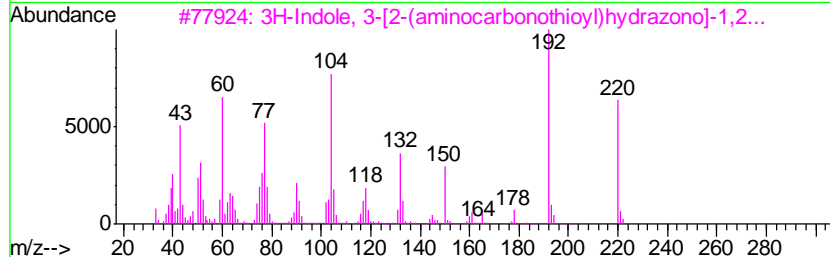
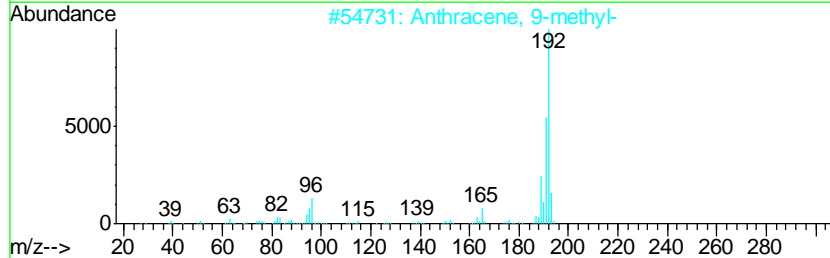
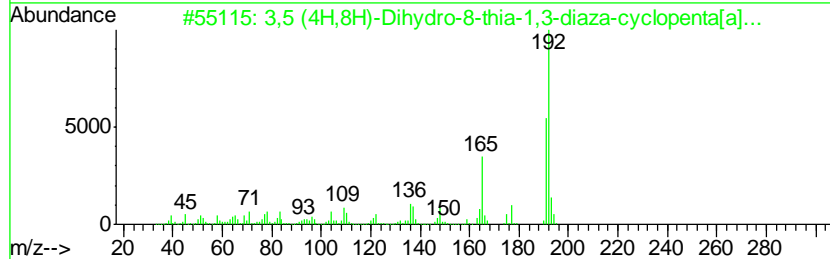
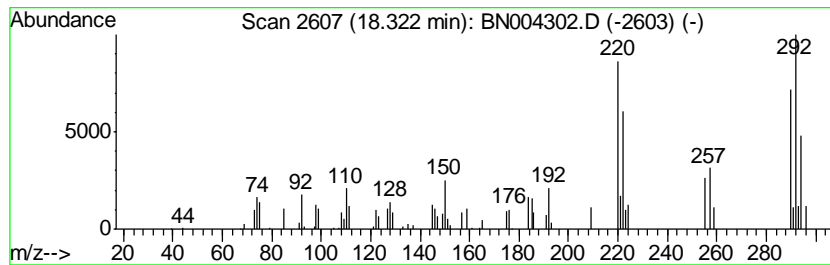
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 8 unknown-02 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.32 | 3.50 ng/ul | 87428 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|-----|-------------------------------------|-----|----------|--------------|------|
| 1 | 3,5 | (4H,8H)-Dihydro-8-thia-1,3-d... | 192 | C9H8N2OS | 014346-25-9 | 38 |
| 2 | | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 30 |
| 3 | | 3H-Indole, 3-[2-(aminocarbonothi... | 220 | C9H8N4OS | 1000337-99-0 | 30 |
| 4 | | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 30 |
| 5 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 30 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T8

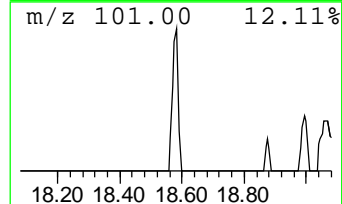
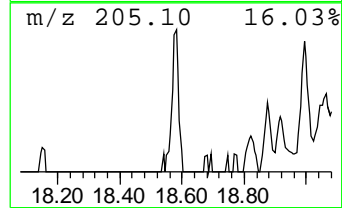
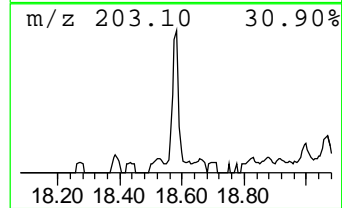
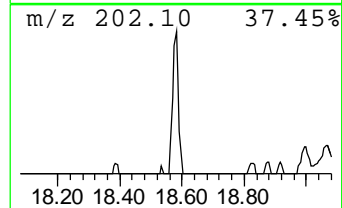
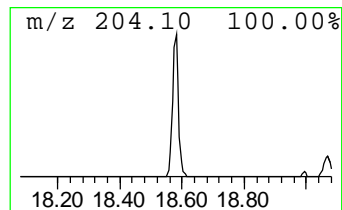
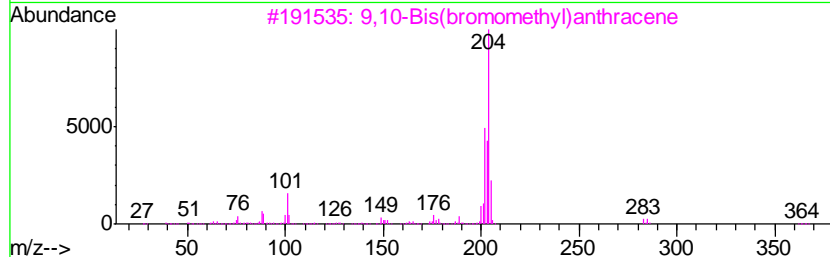
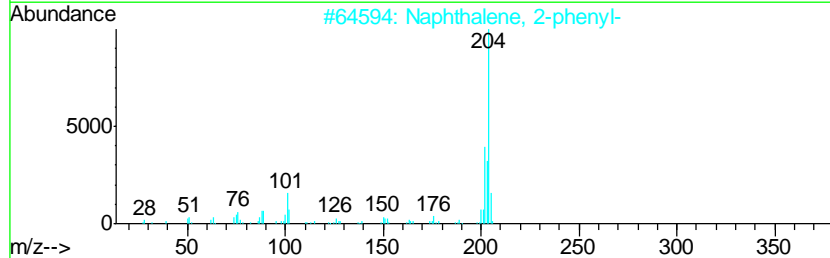
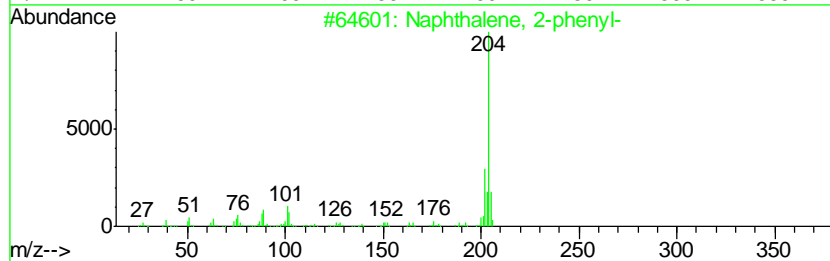
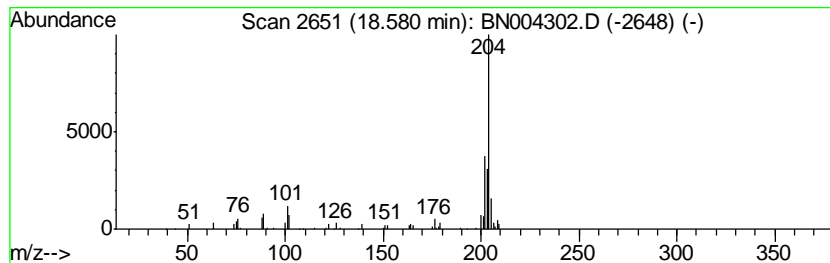
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.58 | 2.84 ng/ul | 70871 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------------|-----|-----------|-------------|------|
| 1 | 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 89 |
| 2 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 89 |
| 3 | | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 86 |
| 4 | | 5,16[1',2']:8,13[1',2']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 5 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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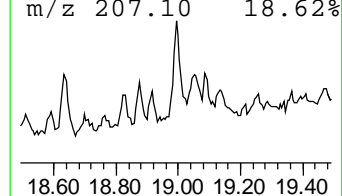
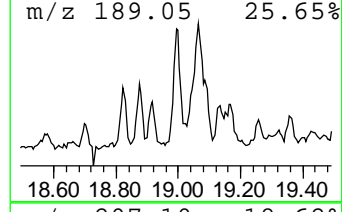
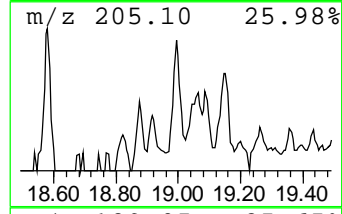
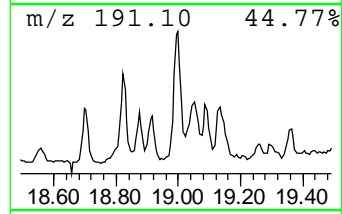
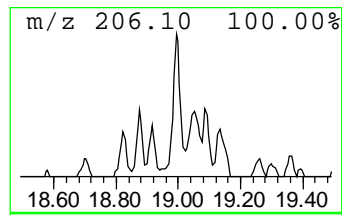
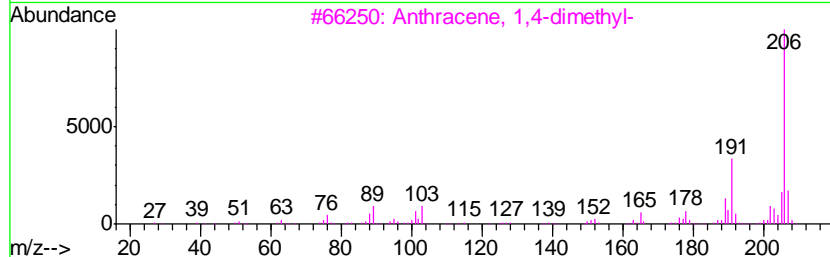
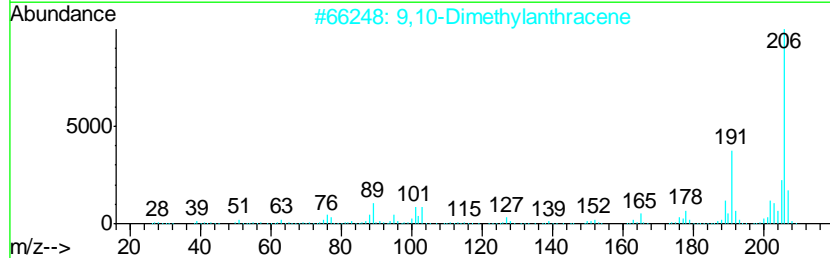
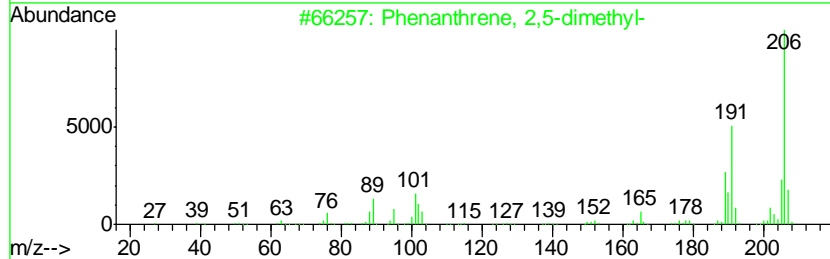
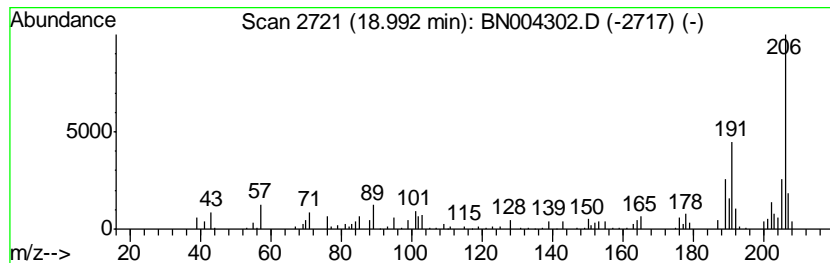
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.99 | 2.29 ng/ul | 57206 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 97 |
| 2 | | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 3 | | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 90 |
| 4 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |
| 5 | | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
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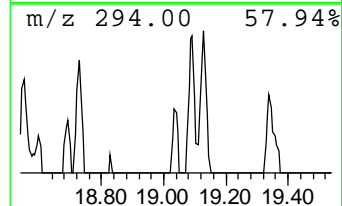
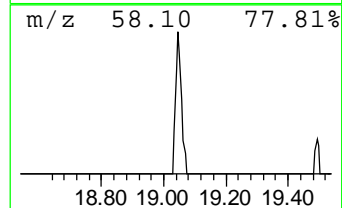
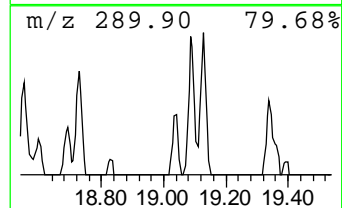
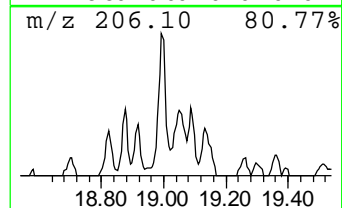
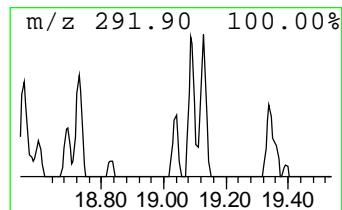
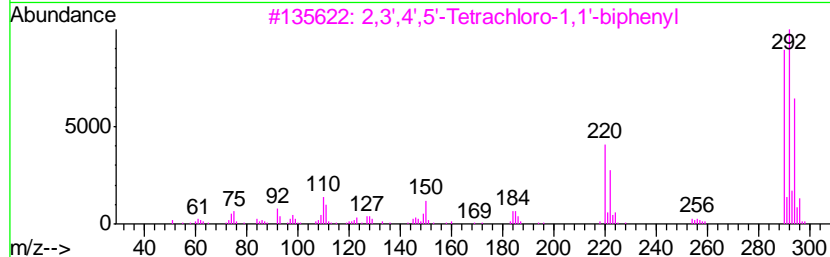
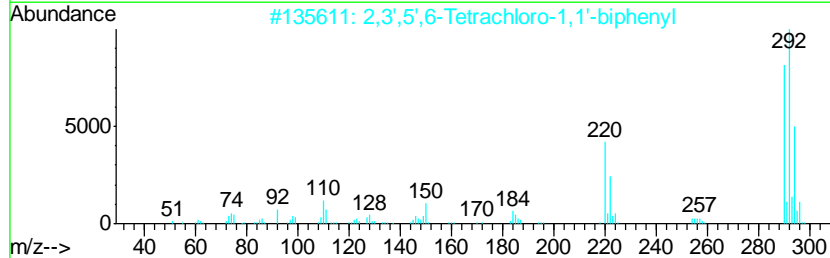
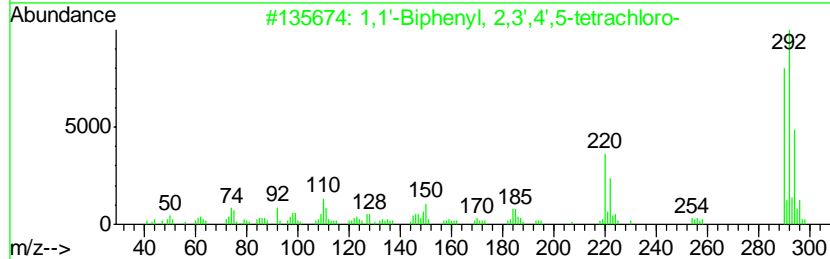
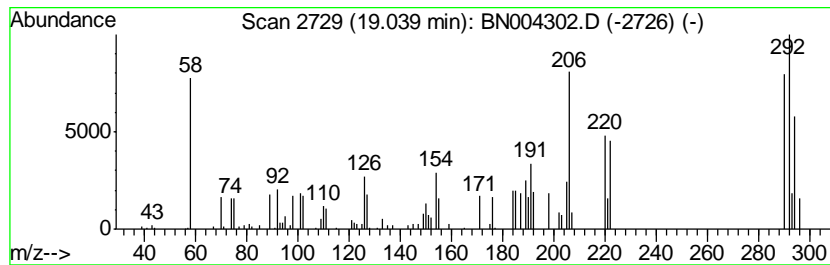
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 12 1,1'-Biphenyl, 2,3',4',5-te... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 19.04 | 2.29 ng/ul | 57207 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,3',4',5-tetrach... | 290 | C12H6Cl4 | 032598-11-1 | 91 |
| 2 | | 2,3',5',6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 074338-23-1 | 91 |
| 3 | | 2,3',4',5'-Tetrachloro-1,1'-biph... | 290 | C12H6Cl4 | 070362-48-0 | 91 |
| 4 | | 2,3,3',5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070424-67-8 | 91 |
| 5 | | 1,1'-Biphenyl, 2,3',4,6-Tetrachl... | 290 | C12H6Cl4 | 060233-24-1 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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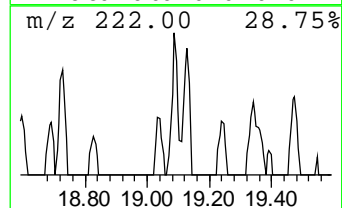
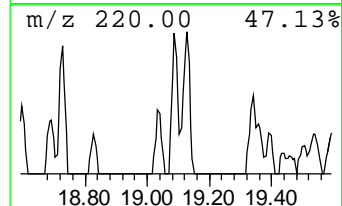
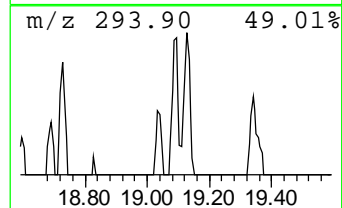
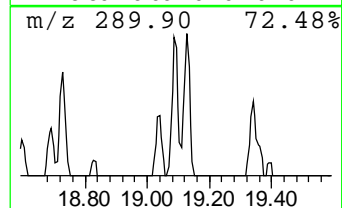
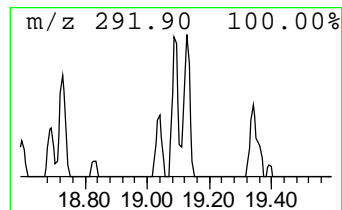
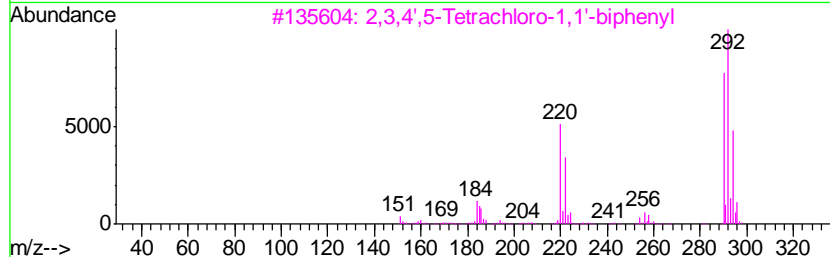
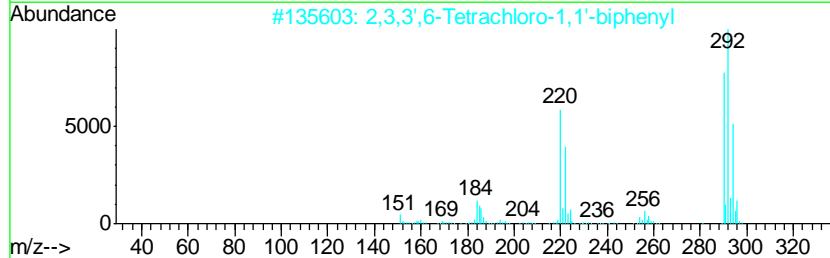
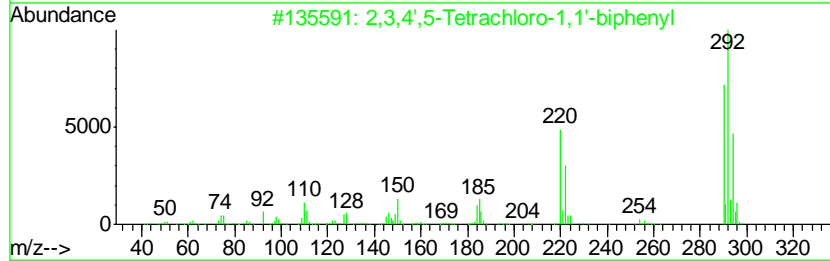
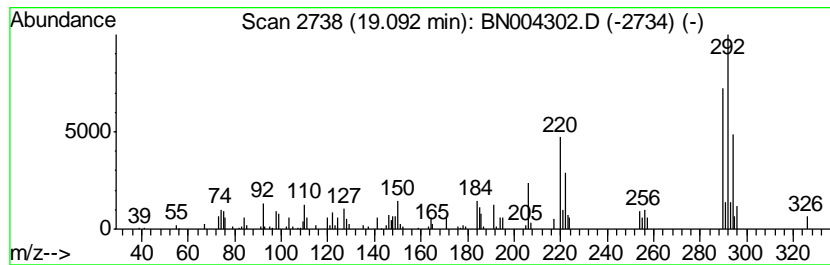
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 13 2,3,4',5-Tetrachloro-1,1'-b... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 19.09 | 2.77 ng/ul | 69205 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 2,3,4',5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 074472-34-7 | 99 |
| 2 | | 2,3,3',6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 074472-33-6 | 99 |
| 3 | | 2,3,4',5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 074472-34-7 | 99 |
| 4 | | 1,1'-Biphenyl, 2,3',4,6-Tetrachl... | 290 | C12H6Cl4 | 060233-24-1 | 99 |
| 5 | | 1,1'-Biphenyl, 2,2',3,4-tetrachl... | 290 | C12H6Cl4 | 052663-59-9 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
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 ClientSampled :
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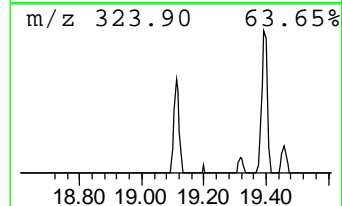
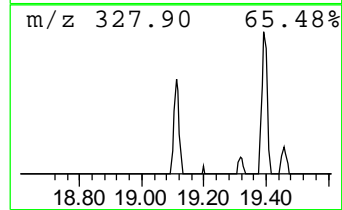
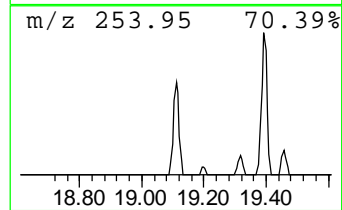
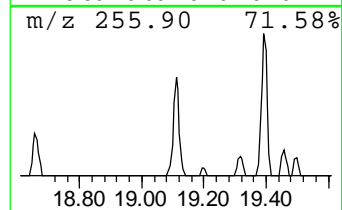
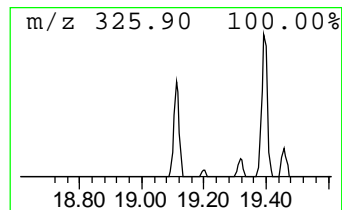
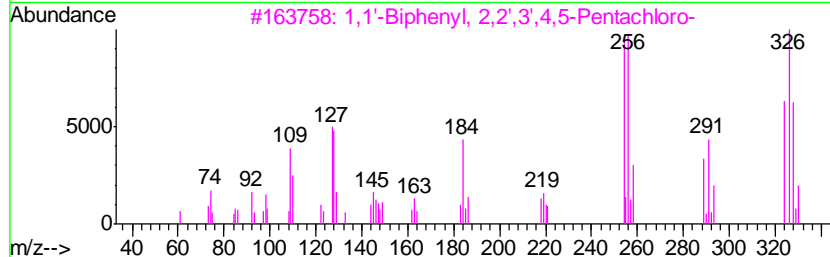
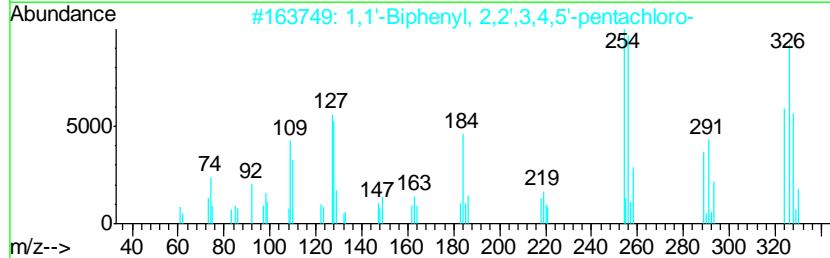
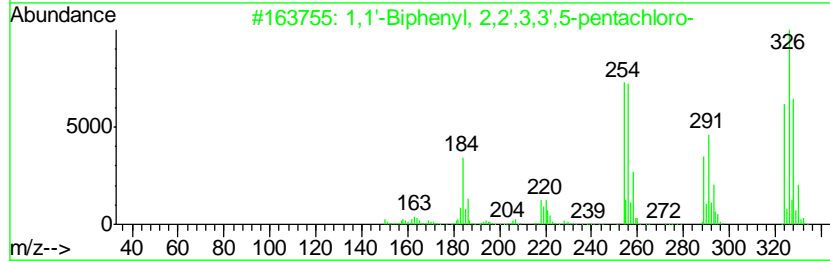
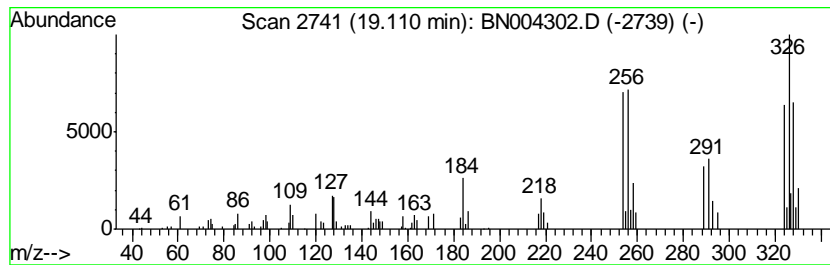
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 14 1,1'-Biphenyl, 2,2',3,3',5-... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.11 | 6.78 ng/ul | 169164 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,2',3,3',5-penta... | 324 | C12H5Cl5 | 060145-20-2 | 99 |
| 2 | | 1,1'-Biphenyl, 2,2',3,4,5'-penta... | 324 | C12H5Cl5 | 038380-02-8 | 99 |
| 3 | | 1,1'-Biphenyl, 2,2',3',4,5-Penta... | 324 | C12H5Cl5 | 041464-51-1 | 99 |
| 4 | | 2,2',3,4',5-Pentachloro-1,1'-bip... | 324 | C12H5Cl5 | 068194-07-0 | 99 |
| 5 | | 3,3',4,4',5-Pentachloro-1,1'-bi... | 324 | C12H5Cl5 | 057465-28-8 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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 Acq On : 29 Dec 2018 15:35
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 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T8

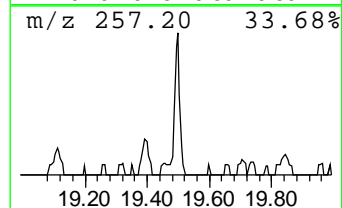
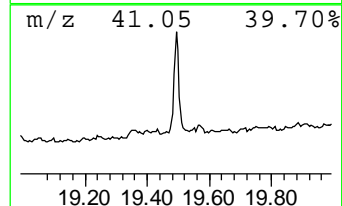
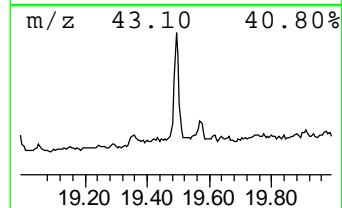
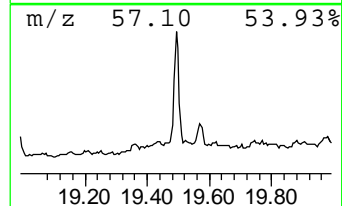
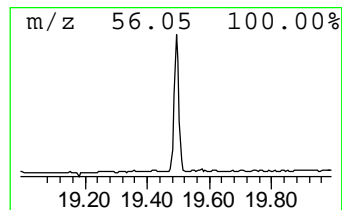
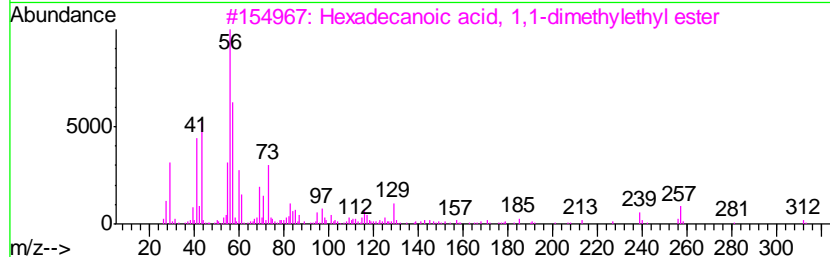
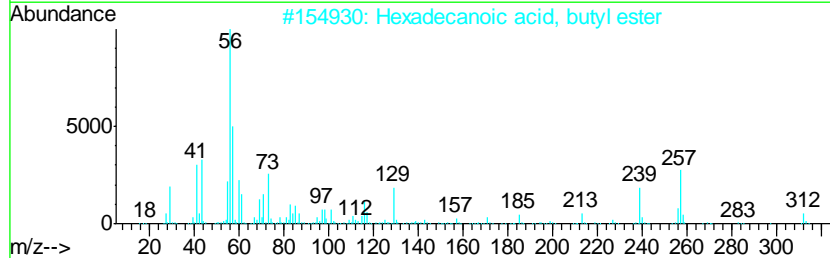
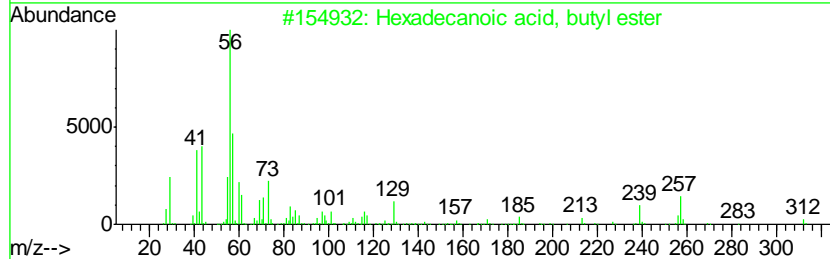
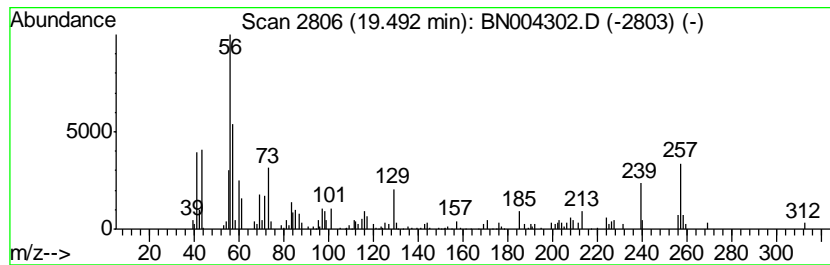
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 15 Hexadecanoic acid, butyl ester Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.49 | 2.32 ng/ul | 143525 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 96 |
| 2 | | Hexadecanoic acid, butyl ester | 312 | C20H40O2 | 000111-06-8 | 94 |
| 3 | | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 93 |
| 4 | | Hexadecanoic acid, 2-methylpropy... | 312 | C20H40O2 | 000110-34-9 | 89 |
| 5 | | 1-Hexene, 2,5-dimethyl- | 112 | C8H16 | 006975-92-4 | 30 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T8

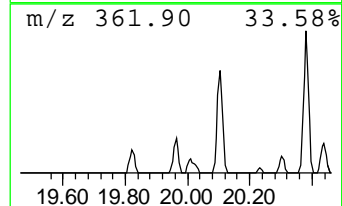
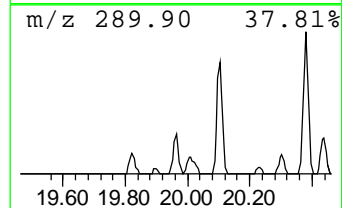
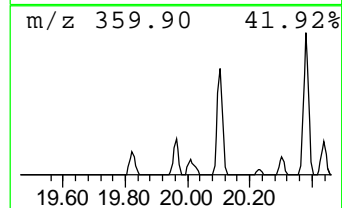
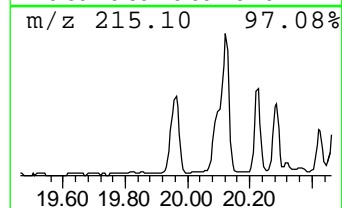
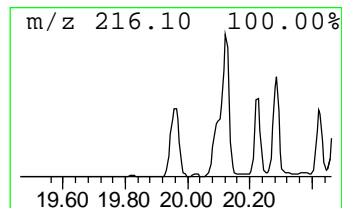
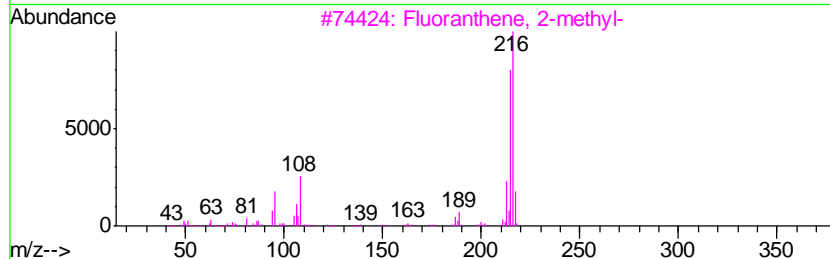
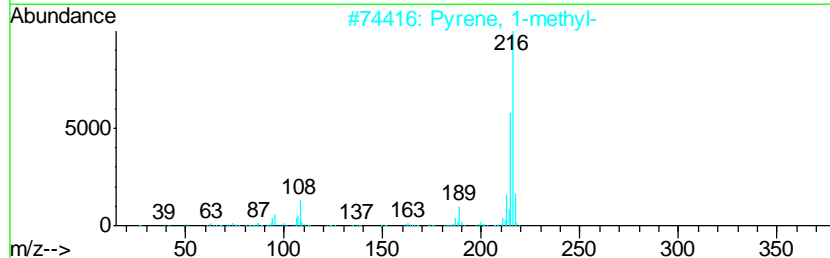
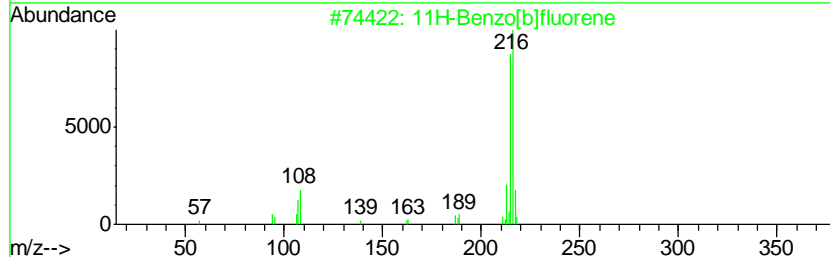
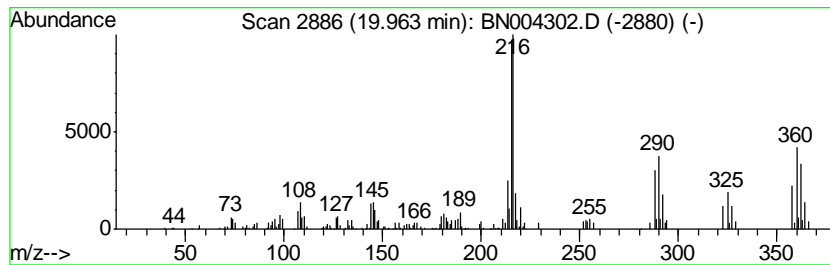
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.96 | 2.40 ng/ul | 148584 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 86 |
| 2 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 74 |
| 3 | | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 64 |
| 4 | | : 4-((2-Methylphenyl)diazenyl)-1... | 216 | C10H12N6 | 1000332-58-9 | 60 |
| 5 | | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 45 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T8

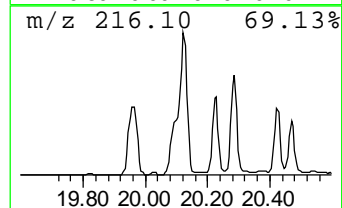
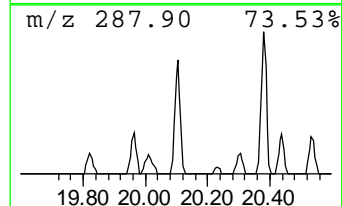
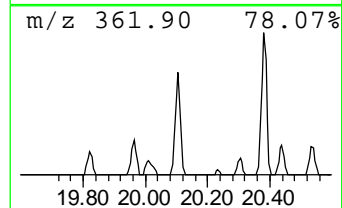
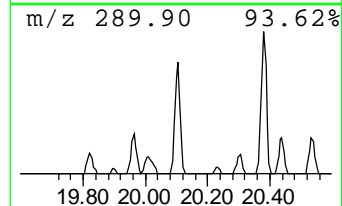
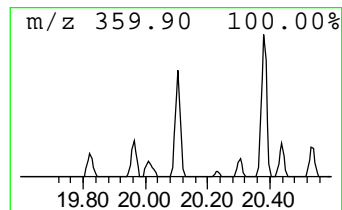
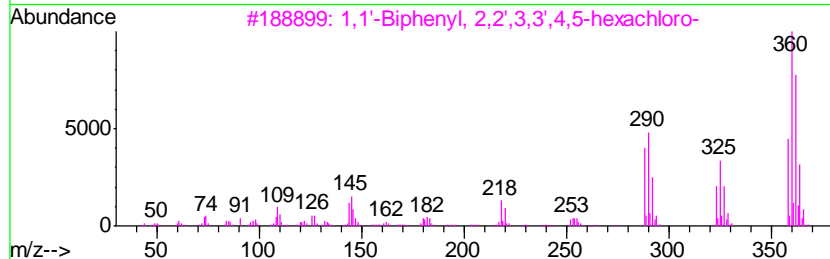
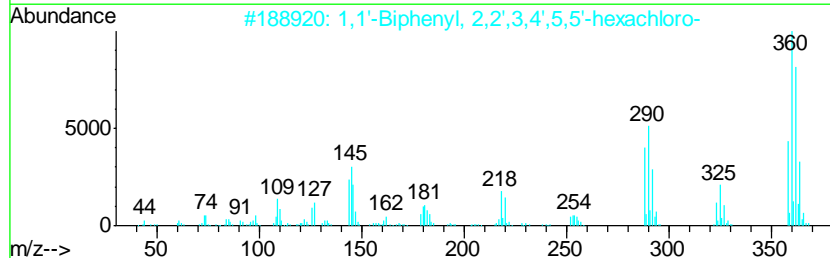
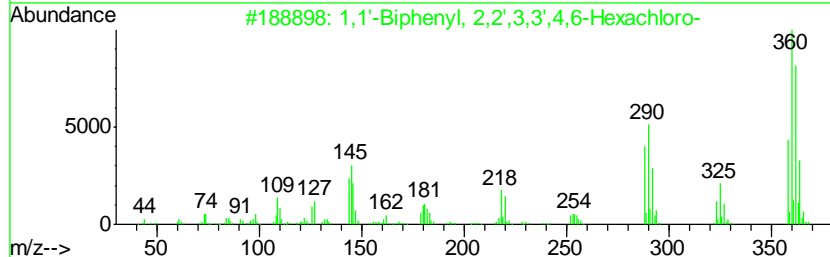
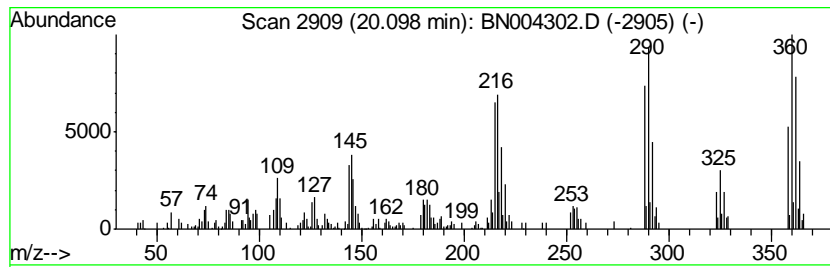
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 17 1,1'-Biphenyl, 2,2',3,3',4,... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.10 | 4.84 ng/ul | 299286 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,2',3,3',4,6-Hex... | 358 | C12H4Cl6 | 061798-70-7 | 99 |
| 2 | | 1,1'-Biphenyl, 2,2',3,4',5,5'-he... | 358 | C12H4Cl6 | 051908-16-8 | 99 |
| 3 | | 1,1'-Biphenyl, 2,2',3,3',4,5-hex... | 358 | C12H4Cl6 | 055215-18-4 | 99 |
| 4 | | 1,1'-Biphenyl, 2,2',3,5,5',6-hex... | 358 | C12H4Cl6 | 052663-63-5 | 99 |
| 5 | | 1,1'-Biphenyl, 2,2',3,3',5,5'-He... | 358 | C12H4Cl6 | 035694-04-3 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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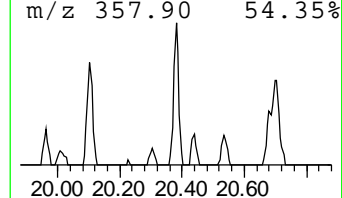
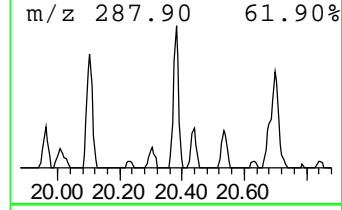
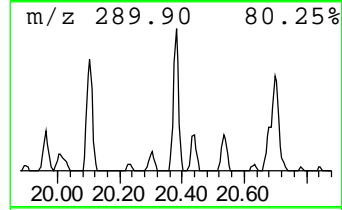
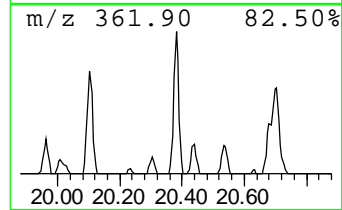
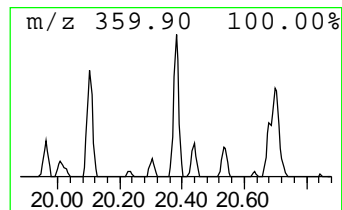
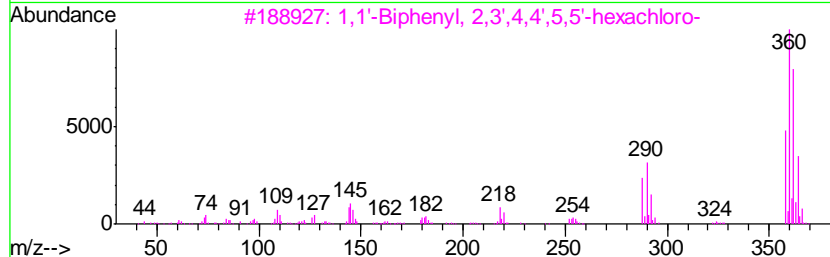
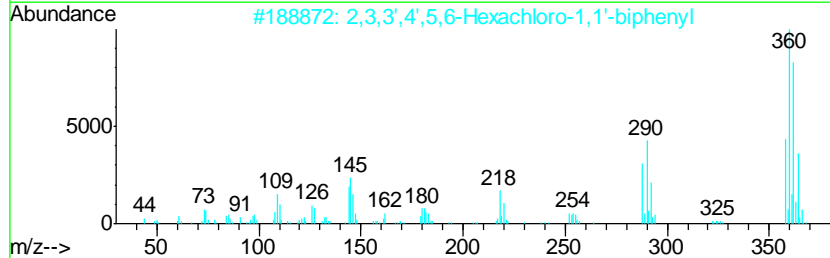
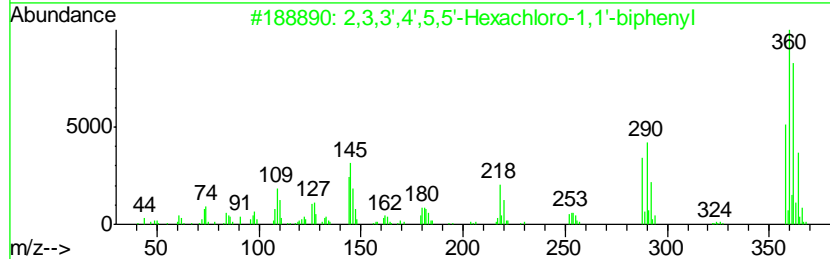
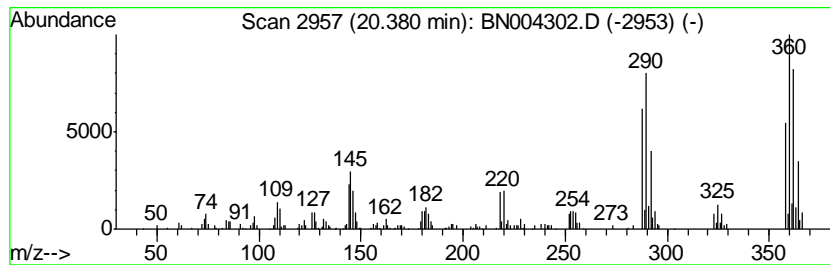
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 18 2,3,3',4',5,5'-Hexachloro-1... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.38 | 3.62 ng/ul | 223963 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 2,3,3',4',5,5'-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 039635-34-2 | 99 |
| 2 | | 2,3,3',4',5,6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-44-9 | 99 |
| 3 | | 1,1'-Biphenyl, 2,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 052663-72-6 | 99 |
| 4 | | 1,1'-Biphenyl, 2,3,3',4,4',5-hex... | 358 | C12H4Cl6 | 038380-08-4 | 99 |
| 5 | | 2,3,3',4,5',6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-43-8 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T8

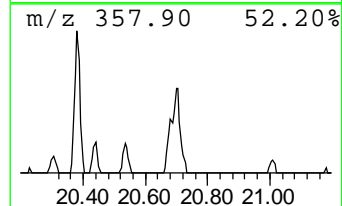
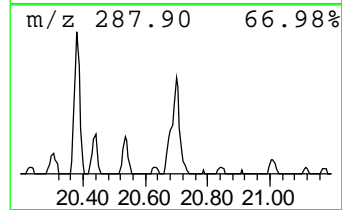
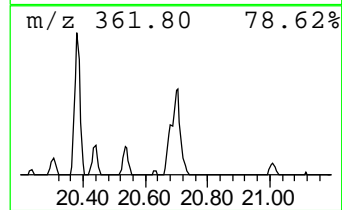
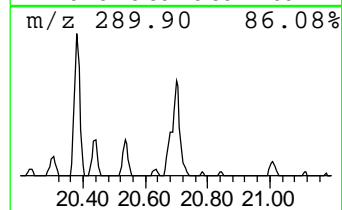
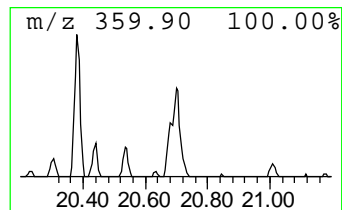
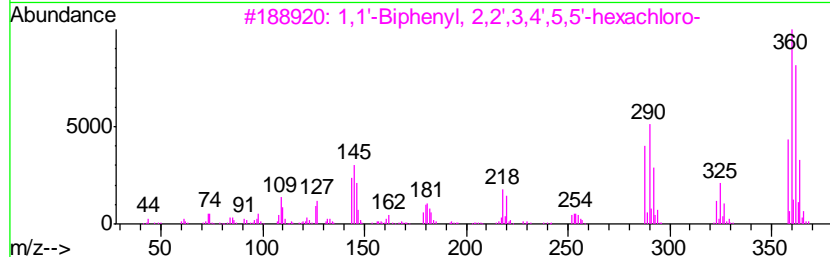
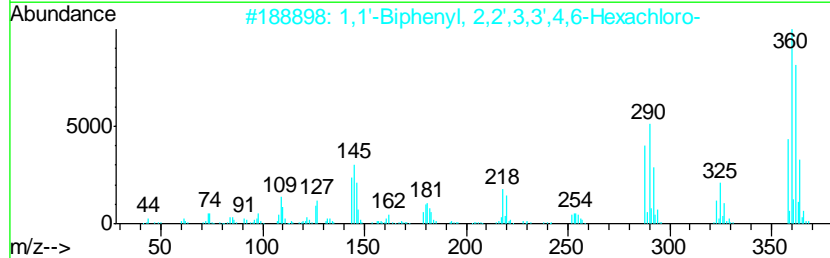
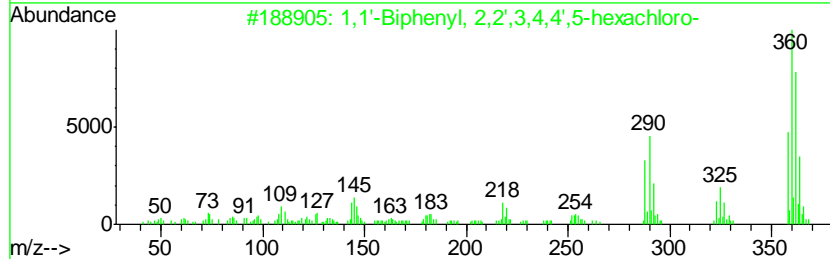
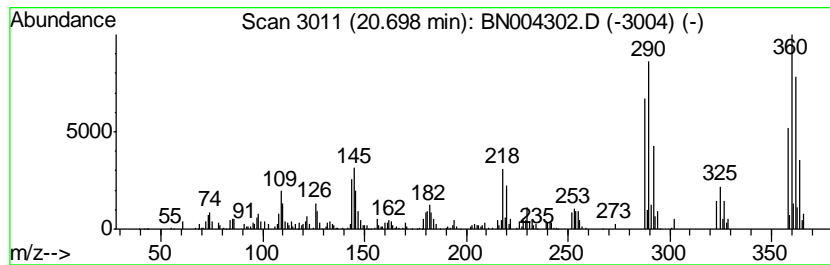
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 19 1,1'-Biphenyl, 2,2',3,4,4',... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.70 | 4.52 ng/ul | 279932 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,2',3,4,4',5-hex... | 358 | C12H4Cl6 | 035694-06-5 | 99 |
| 2 | | 1,1'-Biphenyl, 2,2',3,3',4,6-Hex... | 358 | C12H4Cl6 | 061798-70-7 | 99 |
| 3 | | 1,1'-Biphenyl, 2,2',3,4',5,5'-he... | 358 | C12H4Cl6 | 051908-16-8 | 99 |
| 4 | | 2,3',4,4',5',6-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 059291-65-5 | 99 |
| 5 | | 2,3,3',4',5',6-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 074472-45-0 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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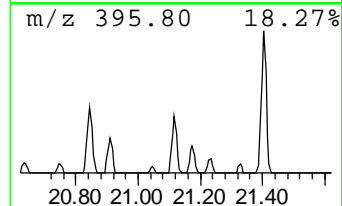
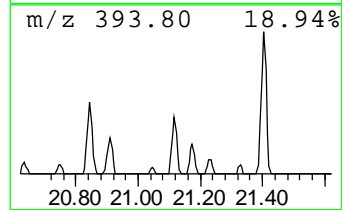
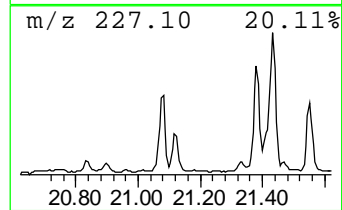
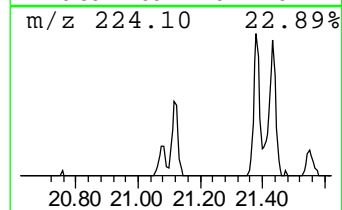
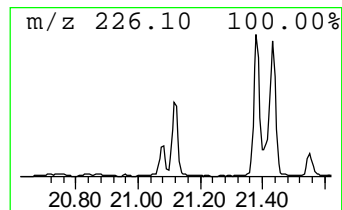
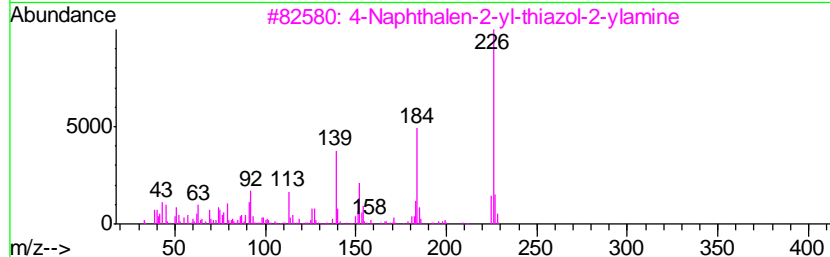
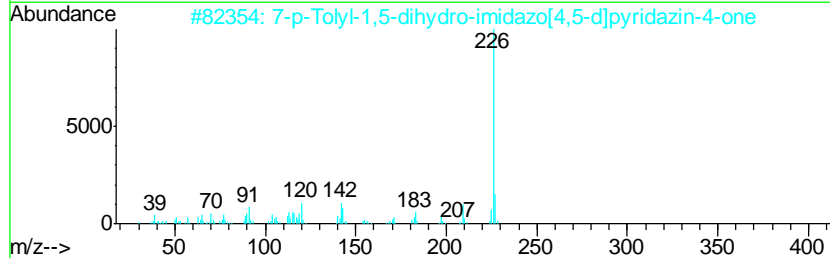
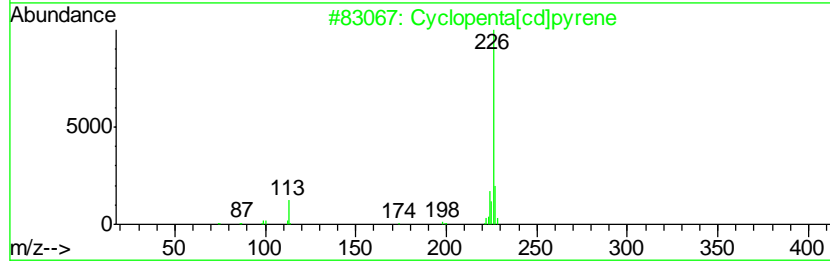
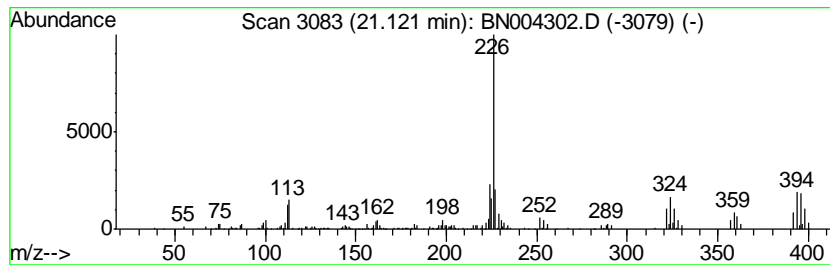
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 20 unknown-03 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.12 | 2.33 ng/ul | 144314 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1 | 5 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 30 |
| 2 | | 7-p-Tolyl-1,5-dihydro-imidazo[4,... | 226 | C12H10N4O | 1000317-75-5 | 27 |
| 3 | | 4-Naphthalen-2-yl-thiazol-2-ylamine | 226 | C13H10N2S | 1000300-53-4 | 22 |
| 4 | | Benzene, [4-(3-ethynylphenyl)-1,... | 226 | C18H10 | 1000115-87-3 | 22 |
| 5 | | Acridin-9-amine, 1,2,3,4-tetrahy... | 226 | C15H18N2 | 1000300-57-6 | 16 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T8

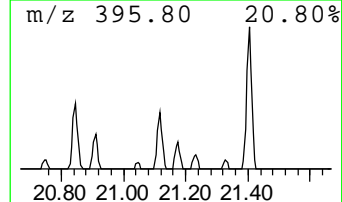
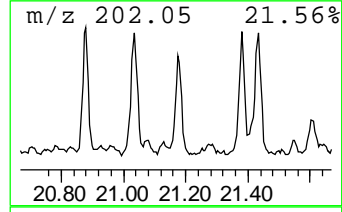
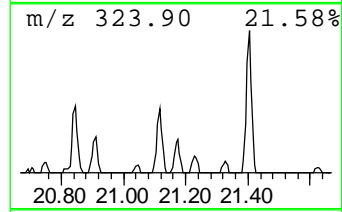
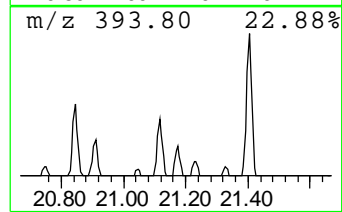
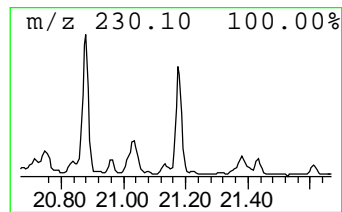
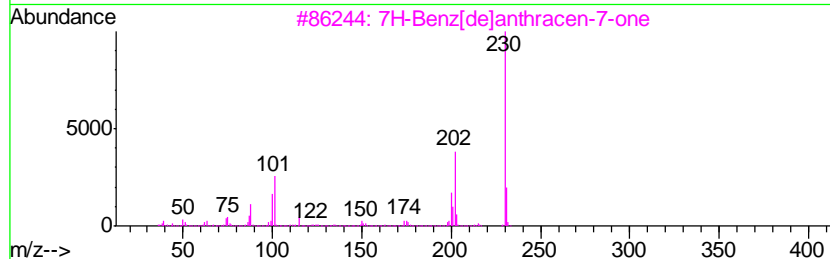
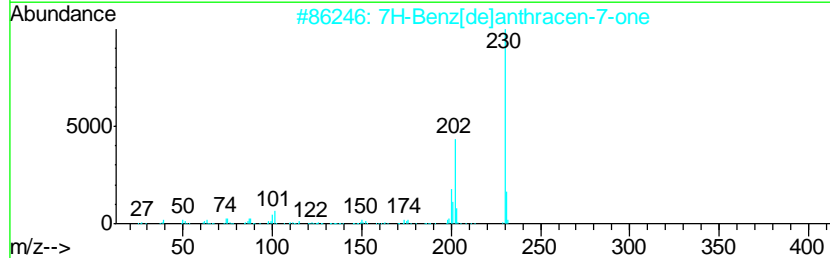
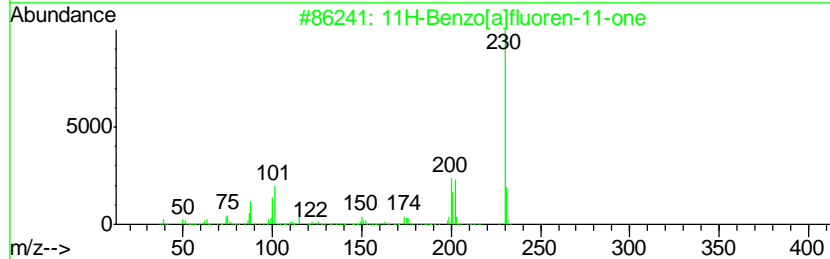
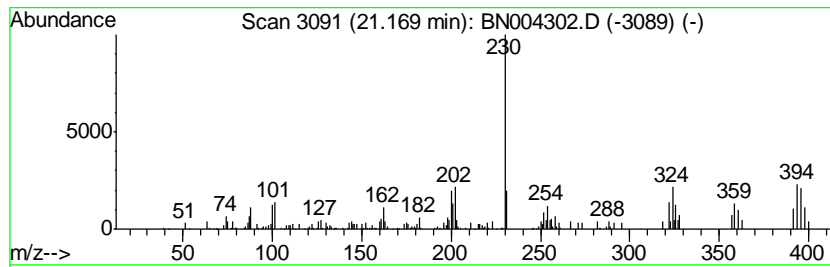
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 21 11H-Benzo[a]fluoren-11-one Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.17 | 2.03 ng/ul | 125369 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1 | 5 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 93 |
| 2 | | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 86 |
| 3 | | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 62 |
| 4 | | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 58 |
| 5 | | 6H-Benz[de]anthracen-6-one | 230 | C17H10O | 080252-14-8 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T8

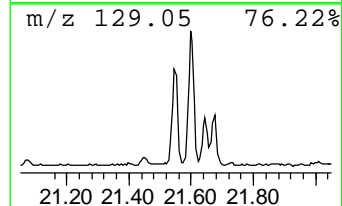
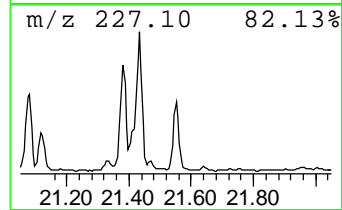
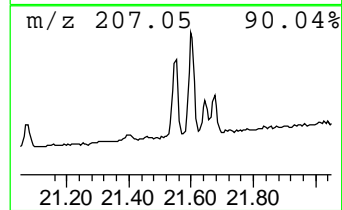
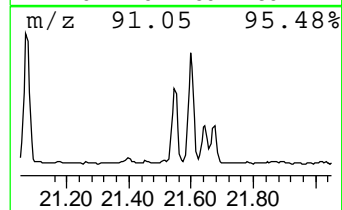
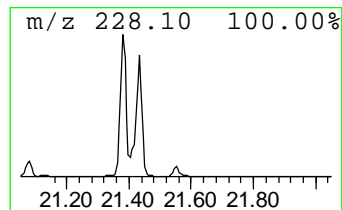
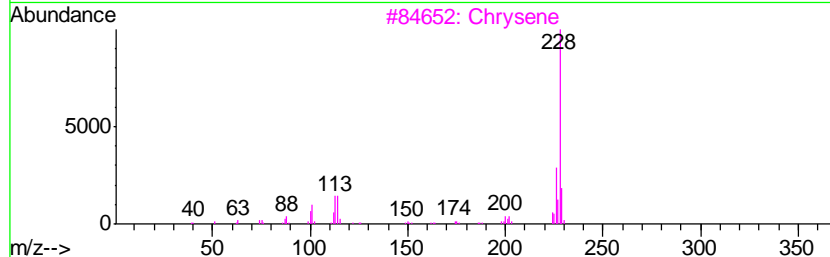
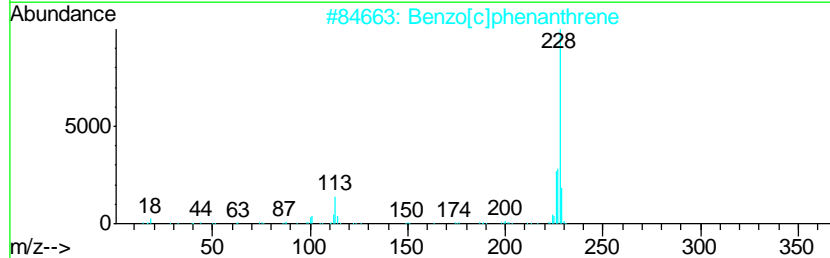
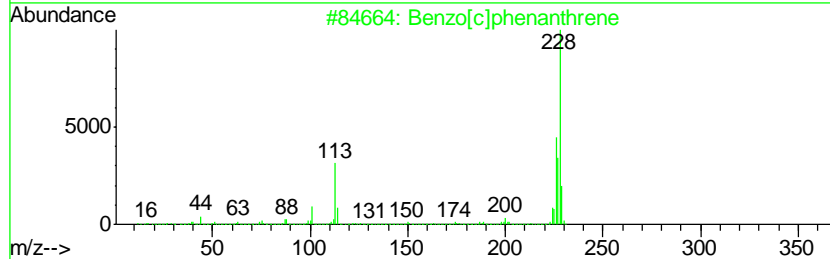
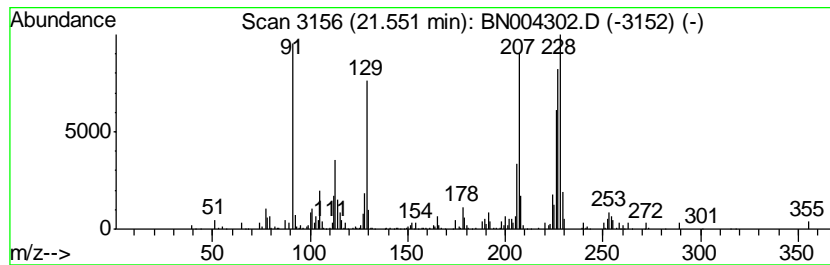
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 22 unknown-04 Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.55 | 2.05 ng/ul | 127137 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 35 |
| 2 | | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 35 |
| 3 | | Chrysene | 228 | C18H12 | 000218-01-9 | 25 |
| 4 | | 1H-Indole, 1-methyl-2-phenyl- | 207 | C15H13N | 003558-24-5 | 25 |
| 5 | | Triphenylene | 228 | C18H12 | 000217-59-4 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T8

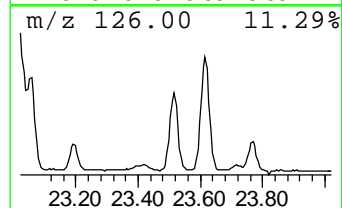
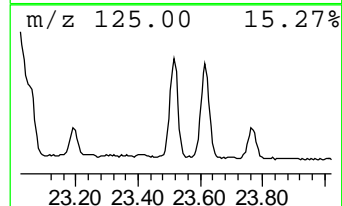
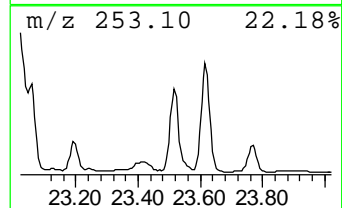
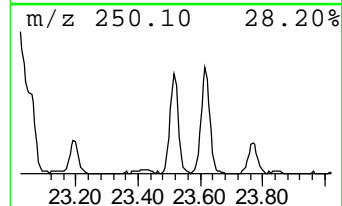
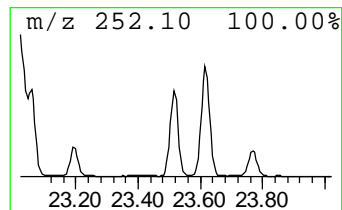
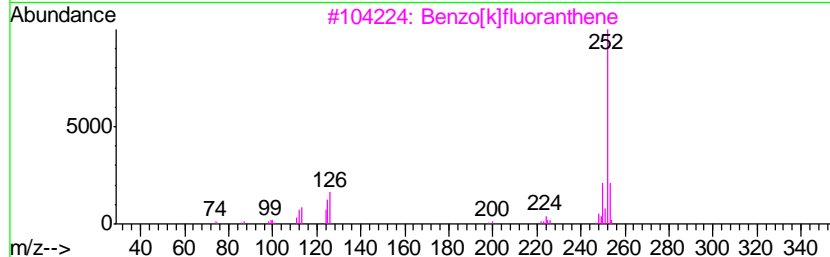
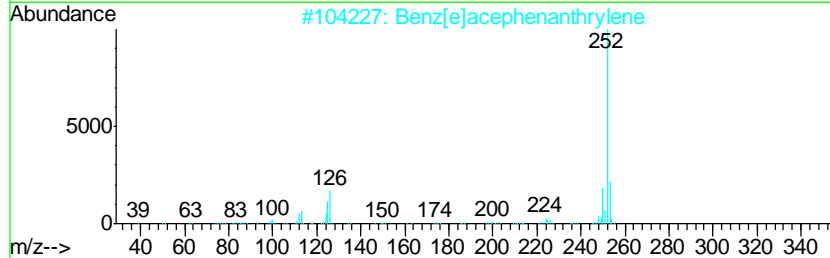
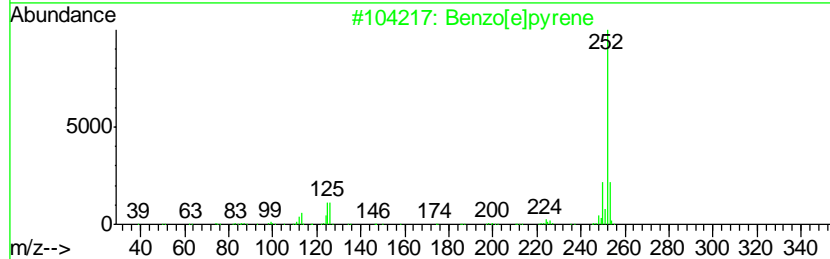
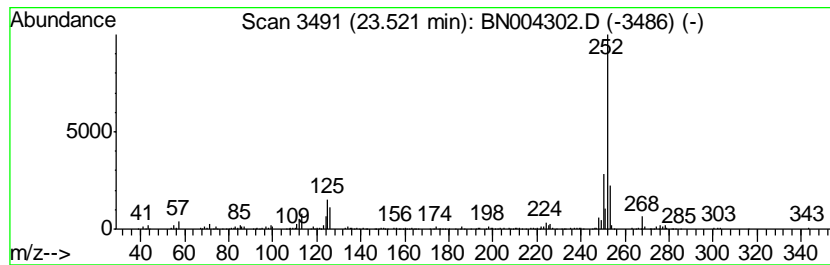
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 23 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|-------------|--------|------------------|-------|
| 23.52 | 13.55 ng/ul | 300728 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 98 |
| 3 | | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 97 |
| 4 | | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 94 |
| 5 | | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T8

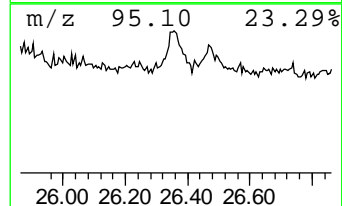
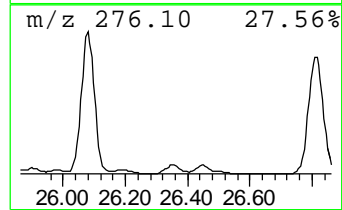
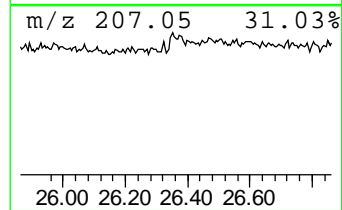
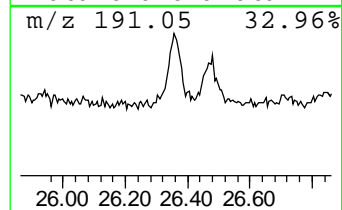
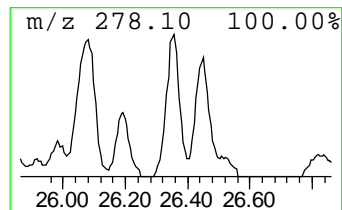
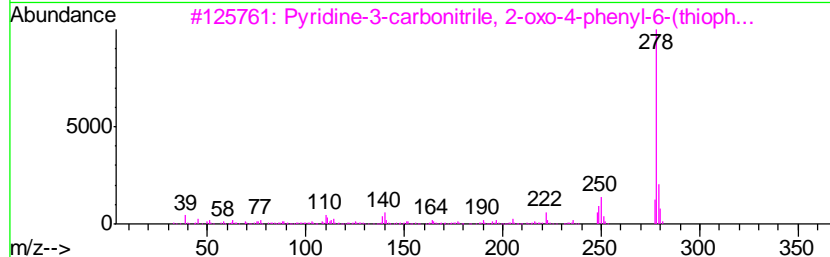
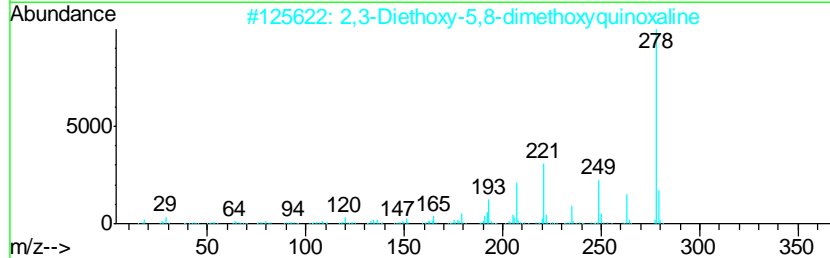
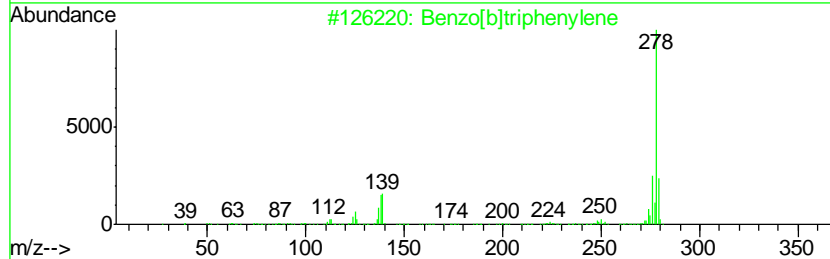
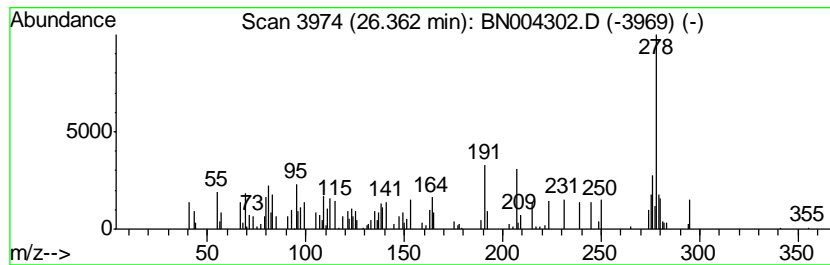
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 24 Benzo[b]triphenylene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 26.36 | 3.02 ng/ul | 66966 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1 | 5 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 60 |
| 2 | | 2,3-Diethoxy-5,8-dimethoxyquinox... | 278 | C14H18N2O4 | 002427-85-2 | 52 |
| 3 | | Pyridine-3-carbonitrile, 2-oxo-4... | 278 | C16H10N2OS | 1000304-72-3 | 50 |
| 4 | | Pentacene | 278 | C22H14 | 000135-48-8 | 49 |
| 5 | | [1,2,4]Oxadiazole-5-carboxylic a... | 278 | C13H14N2O5 | 1000316-89-9 | 49 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004302.D
 Acq On : 29 Dec 2018 15:35
 Operator : JU/SJ
 Sample : J6428-04
 Misc : GCMS Confirmation
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 8.4 | ng/ul | 70580 | 1 | 7.82 | 167041 | 20.0 |
| Tetrachloroethylene | 4.53 | 5.1 | ng/ul | 42910 | 1 | 7.82 | 167041 | 20.0 |
| unknown-01 | 16.95 | 2.4 | ng/ul | 60271 | 4 | 17.21 | 498896 | 20.0 |
| 1,1'-Biphenyl, 2'... | 17.80 | 4.6 | ng/ul | 115223 | 4 | 17.21 | 498896 | 20.0 |
| Anthracene, 2-met... | 18.07 | 4.7 | ng/ul | 116655 | 4 | 17.21 | 498896 | 20.0 |
| Phenanthrene, 2-m... | 18.13 | 5.5 | ng/ul | 137007 | 4 | 17.21 | 498896 | 20.0 |
| 2,2',3,6-Tetrachl... | 18.27 | 8.9 | ng/ul | 221167 | 4 | 17.21 | 498896 | 20.0 |
| unknown-02 | 18.32 | 3.5 | ng/ul | 87428 | 4 | 17.21 | 498896 | 20.0 |
| Naphthalene, 2-ph... | 18.58 | 2.8 | ng/ul | 70871 | 4 | 17.21 | 498896 | 20.0 |
| Phenanthrene, 2,5... | 18.99 | 2.3 | ng/ul | 57206 | 4 | 17.21 | 498896 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.04 | 2.3 | ng/ul | 57207 | 4 | 17.21 | 498896 | 20.0 |
| 2,3,4',5-Tetrachl... | 19.09 | 2.8 | ng/ul | 69205 | 4 | 17.21 | 498896 | 20.0 |
| 1,1'-Biphenyl, 2,... | 19.11 | 6.8 | ng/ul | 169164 | 4 | 17.21 | 498896 | 20.0 |
| Hexadecanoic acid... | 19.49 | 2.3 | ng/ul | 143525 | 5 | 21.40 | 1237790 | 20.0 |
| 11H-Benzo[b]fluorene | 19.96 | 2.4 | ng/ul | 148584 | 5 | 21.40 | 1237790 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.10 | 4.8 | ng/ul | 299286 | 5 | 21.40 | 1237790 | 20.0 |
| 2,3,3',4',5,5'-He... | 20.38 | 3.6 | ng/ul | 223963 | 5 | 21.40 | 1237790 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.70 | 4.5 | ng/ul | 279932 | 5 | 21.40 | 1237790 | 20.0 |
| unknown-03 | 21.12 | 2.3 | ng/ul | 144314 | 5 | 21.40 | 1237790 | 20.0 |
| 11H-Benzo[a]fluor... | 21.17 | 2.0 | ng/ul | 125369 | 5 | 21.40 | 1237790 | 20.0 |
| unknown-04 | 21.55 | 2.0 | ng/ul | 127137 | 5 | 21.40 | 1237790 | 20.0 |
| Benzo[e]pyrene | 23.52 | 13.6 | ng/ul | 300728 | 6 | 23.72 | 443871 | 20.0 |
| Benzo[b]triphenylene | 26.36 | 3.0 | ng/ul | 66966 | 6 | 23.72 | 443871 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T8DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-04DL
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035067.D
 % Solids : 86.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 10.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 380 | U |
| 11104-28-2 | Aroclor-1221 | 380 | U |
| 11141-16-5 | Aroclor-1232 | 380 | U |
| 53469-21-9 | Aroclor-1242 | 380 | U |
| 12672-29-6 | Aroclor-1248 | 13000 | ED |
| 11097-69-1 | Aroclor-1254 | 380 | U |
| 11096-82-5 | Aroclor-1260 | 45000 | ED |
| 37324-23-5 | Aroclor-1262 | 380 | U |
| 11100-14-4 | Aroclor-1268 | 380 | U |

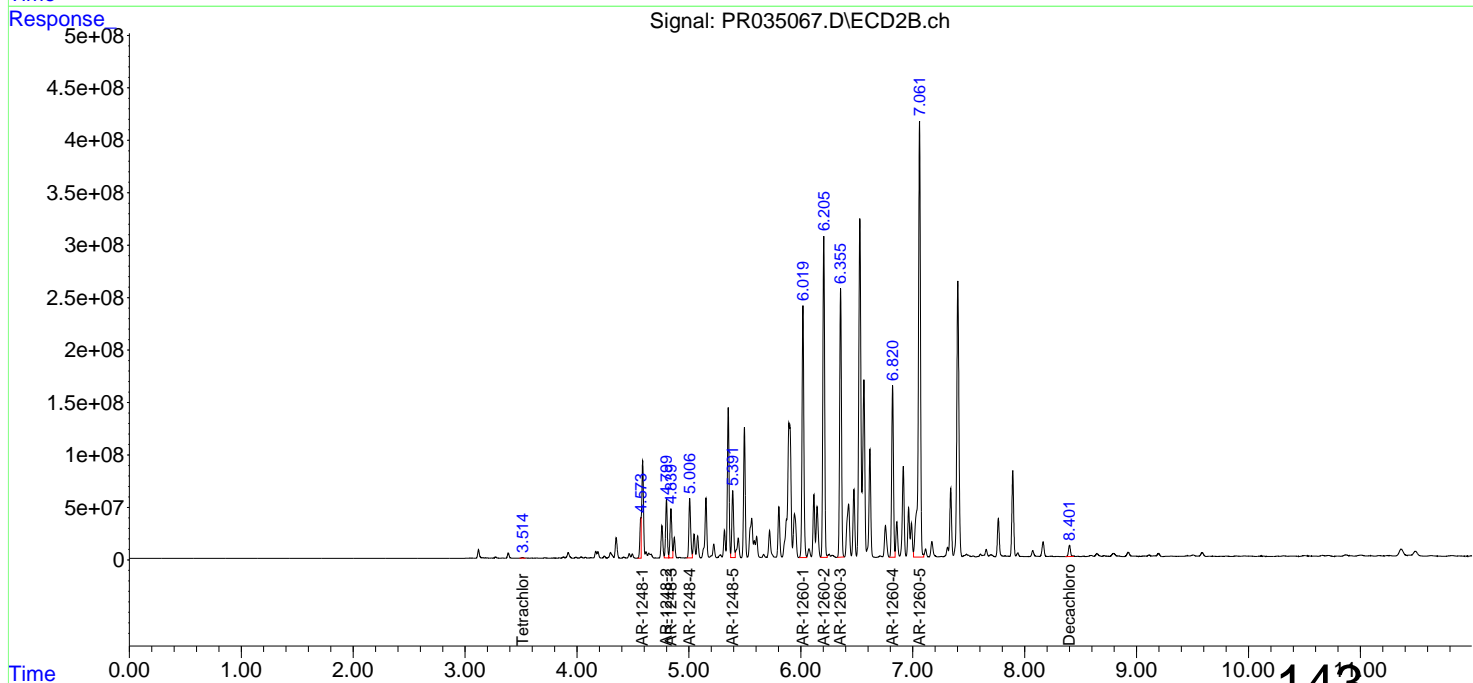
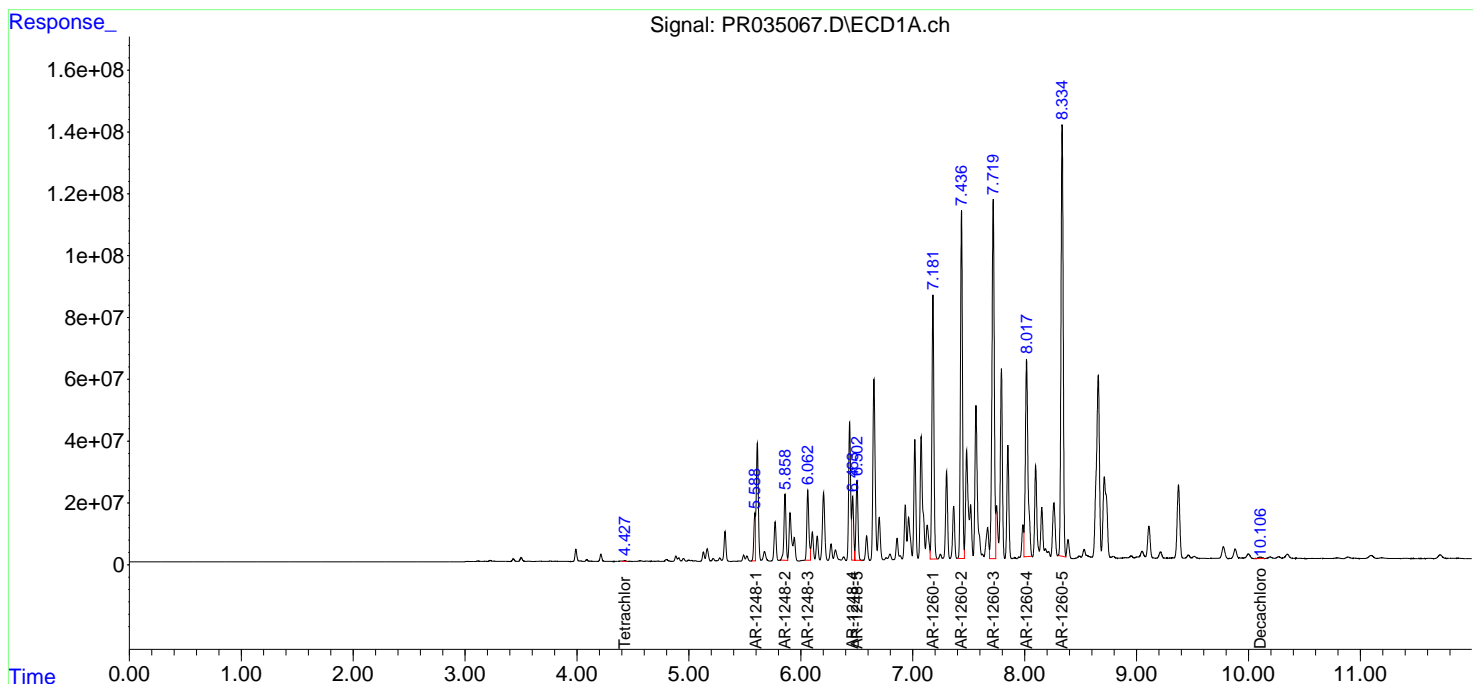
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 Data File : PR035067.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 07:25
 Operator : SM\SJ
 Sample : J6428-04DL 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T8DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:39 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 01:21:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035067.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 07:25
 Operator : SM\SJ
 Sample : J6428-04DL 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T8DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:39 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 01:21:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.514 | 3937821 | 7564758 | 2.025 | 2.170 |
| 2) SA Decachlor... | 10.105 | 8.401 | 10518977 | 130.1E6 | 5.351 | 29.598 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.573 | 139.8E6 | 307.5E6 | 2880.705 | 3153.678m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 269.6E6 | 570.8E6 | 4080.904 | 4455.420 |
| 23) L5 AR-1248-3 | 6.062 | 4.840 | 290.4E6 | 525.4E6 | 3887.112 | 3980.905 |
| 24) L5 AR-1248-4 | 6.464 | 5.006 | 234.2E6 | 637.0E6 | 2621.608 | 3871.431m# |
| 25) L5 AR-1248-5 | 6.502 | 5.392 | 321.5E6 | 718.9E6 | 3842.151 | 4295.835 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 1055.2E6 | 2700.1E6 | 11224.671 | 12560.069 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 1392.1E6 | 3436.3E6 | 11990.300 | 12627.740 |
| 33) L7 AR-1260-3 | 7.719 | 6.356 | 1691.4E6 | 2881.1E6 | 12120.149 | 11606.124 |
| 34) L7 AR-1260-4 | 8.017 | 6.820 | 1047.5E6 | 1806.6E6 | 12129.194 | 10565.792 |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 1918.5E6 | 5589.5E6 | 10625.800 | 11557.090 |
| ----- | | | | | | |

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

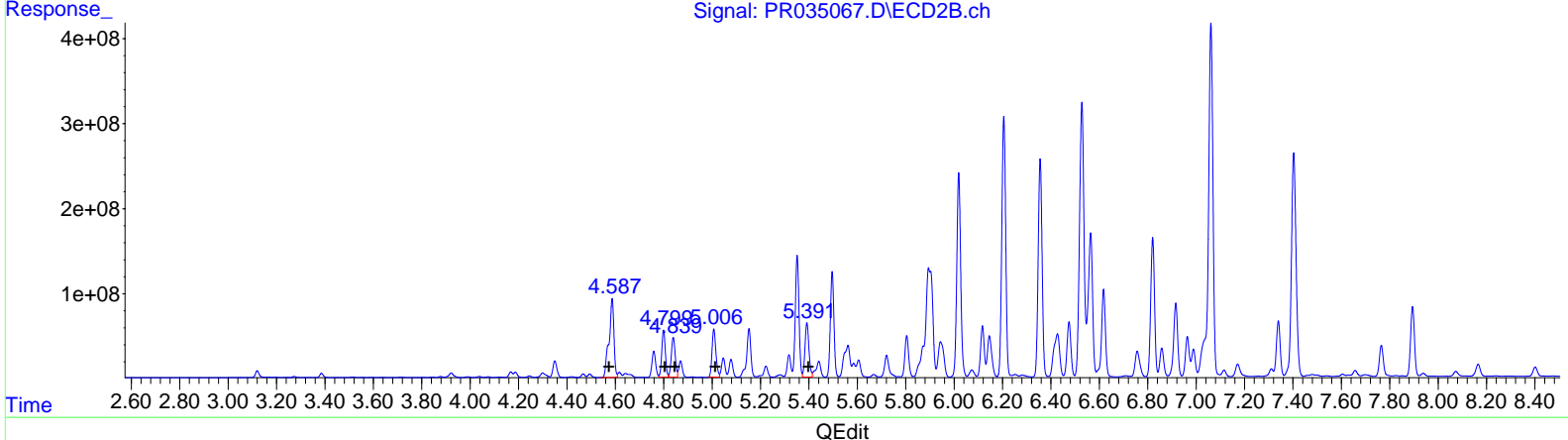
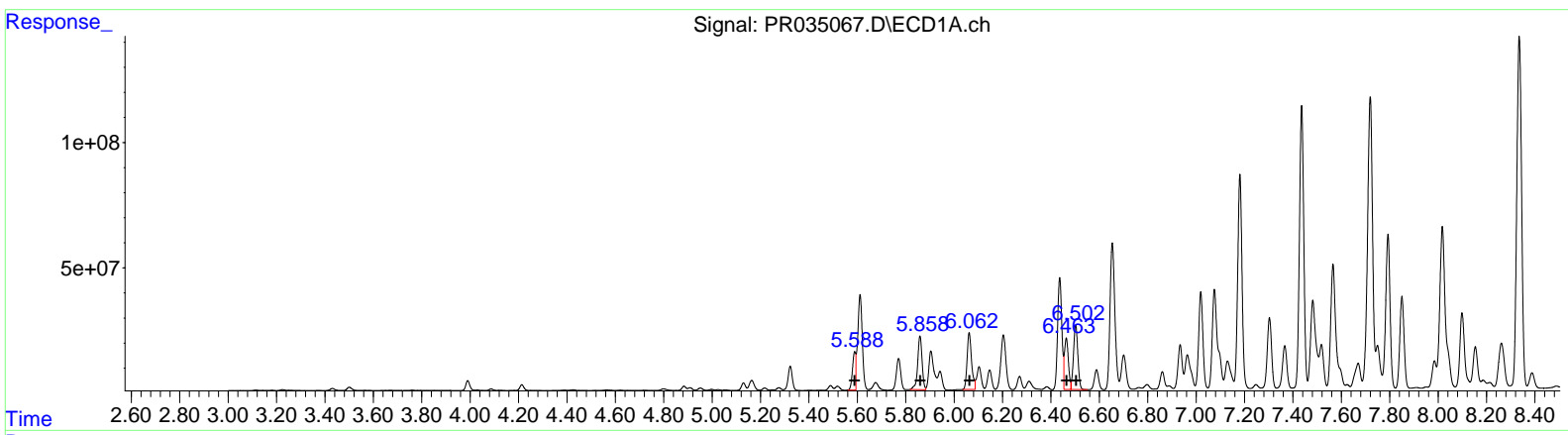
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 Data File : PR035067.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 07:25
 Operator : SM\SJ
 Sample : J6428-04DL 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T8DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:39 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 01:21:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 139779380 | 2880.71 |
| 5.86 | 269639610 | 4080.90 |
| 6.06 | 290425254 | 3887.11 |
| 6.46 | 234230030 | 2621.61 |
| 6.50 | 321466003 | 3842.15 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 4.59 | 1306056046 | 13395.21 |
| 4.80 | 570750029 | 4455.42 |
| 4.84 | 525388645 | 3980.91 |
| 5.01 | 627748781 | 3815.40 |
| 5.39 | 718932476 | 4295.84 |

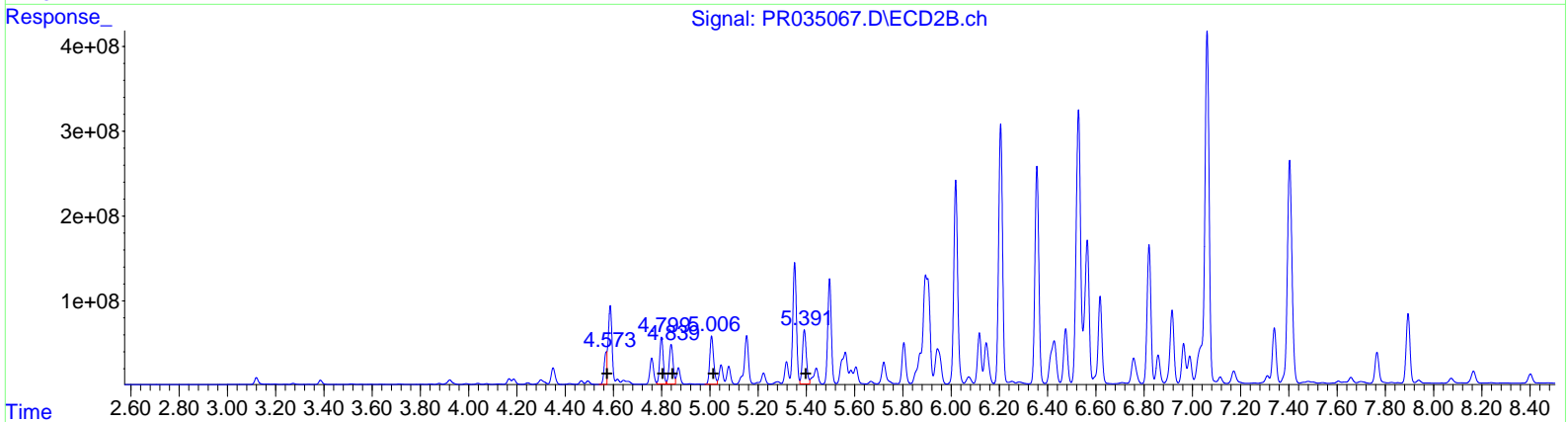
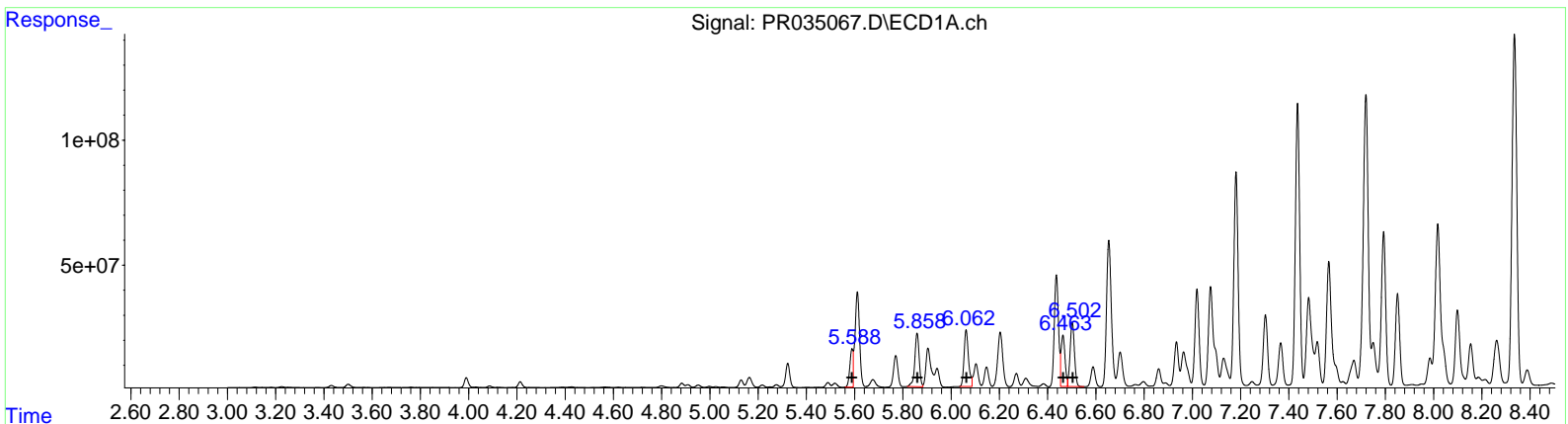
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 Data File : PR035067.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 07:25
 Operator : SM\SJ
 Sample : J6428-04DL 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T8DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:39 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 01:21:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 139779380 | 2880.71 |
| 5.86 | 269639610 | 4080.90 |
| 6.06 | 290425254 | 3887.11 |
| 6.46 | 234230030 | 2621.61 |
| 6.50 | 321466003 | 3842.15 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 307488944 | 3153.68 |
| 4.80 | 570750029 | 4455.42 |
| 4.84 | 525388645 | 3980.91 |
| 5.01 | 636967669 | 3871.43 |
| 5.39 | 718932476 | 4295.84 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035067.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 07:25
 Operator : SM\SJ
 Sample : J6428-04DL 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T8DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:39 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 01:21:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.514 | 3937821 | 7564758 | 2.025 | 2.170 |
| 2) SA Decachlor... | 10.105 | 8.401 | 10518977 | 130.1E6 | 5.351 | 29.598 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.573 | 139.8E6 | 307.5E6 | 2880.705 | 3153.678m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 269.6E6 | 570.8E6 | 4080.904 | 4455.420 |
| 23) L5 AR-1248-3 | 6.062 | 4.840 | 290.4E6 | 525.4E6 | 3887.112 | 3980.905 |
| 24) L5 AR-1248-4 | 6.464 | 5.006 | 234.2E6 | 637.0E6 | 2621.608 | 3871.431m# |
| 25) L5 AR-1248-5 | 6.502 | 5.392 | 321.5E6 | 718.9E6 | 3842.151 | 4295.835 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 1055.2E6 | 2700.1E6 | 11224.671 | 12560.069 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 1392.1E6 | 3436.3E6 | 11990.300 | 12627.740 |
| 33) L7 AR-1260-3 | 7.719 | 6.356 | 1691.4E6 | 2881.1E6 | 12120.149 | 11606.124 |
| 34) L7 AR-1260-4 | 8.017 | 6.820 | 1047.5E6 | 1806.6E6 | 12129.194 | 10565.792 |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 1918.5E6 | 5589.5E6 | 10625.800 | 11557.090 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T8DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-04DL2
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035103.D
 % Solids : 86.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 200.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

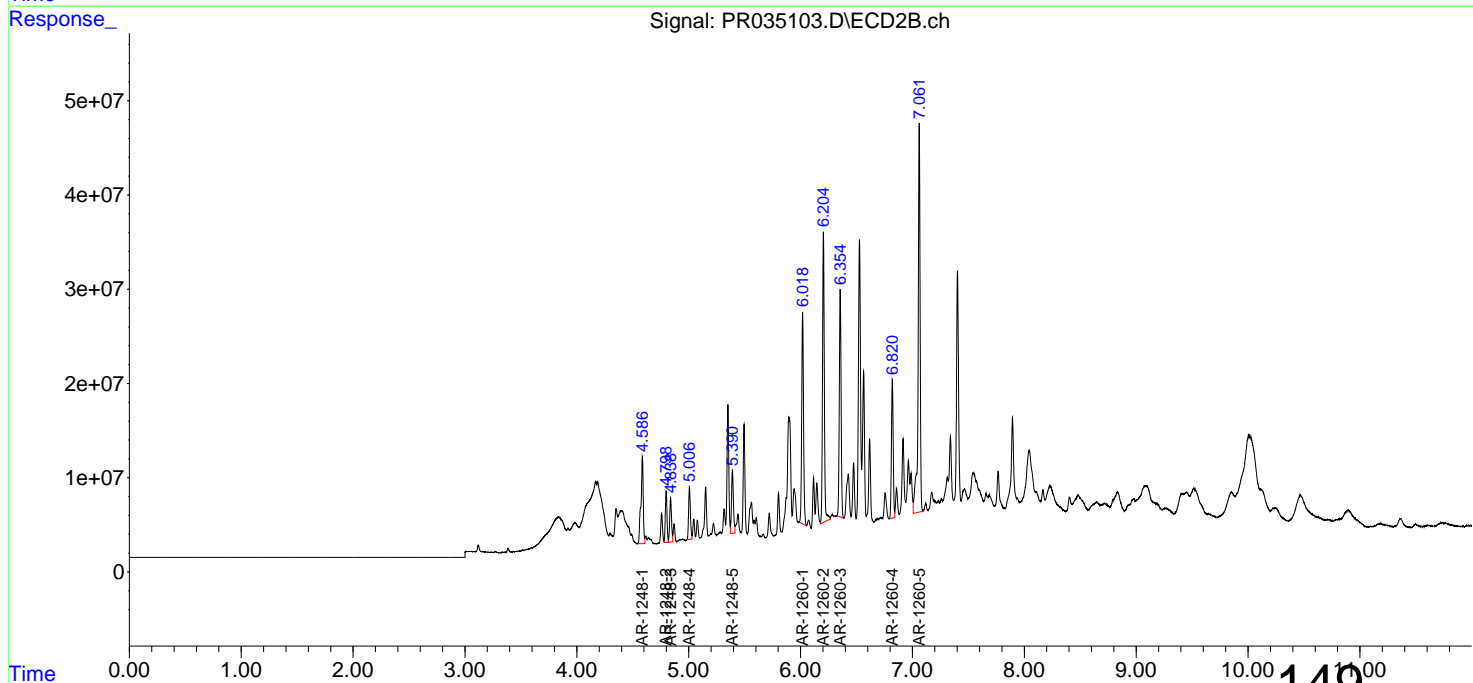
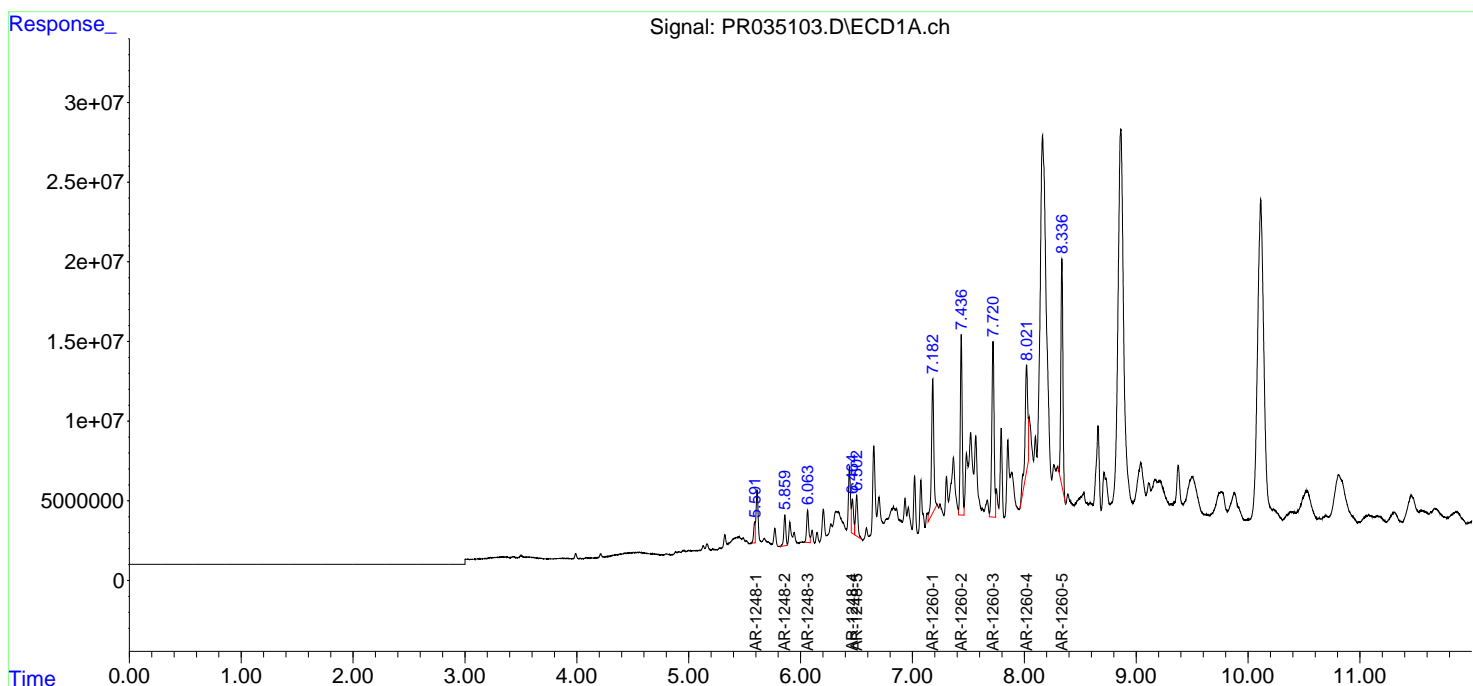
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 7600 | U |
| 11104-28-2 | Aroclor-1221 | 7600 | U |
| 11141-16-5 | Aroclor-1232 | 7600 | U |
| 53469-21-9 | Aroclor-1242 | 7600 | U |
| 12672-29-6 | Aroclor-1248 | 26000 | DP |
| 11097-69-1 | Aroclor-1254 | 7600 | U |
| 11096-82-5 | Aroclor-1260 | 85000 | D |
| 37324-23-5 | Aroclor-1262 | 7600 | U |
| 11100-14-4 | Aroclor-1268 | 7600 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035103.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:37
 Operator : SM\SJ
 Sample : J6428-04DL2 200X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T8DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035103.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:37
 Operator : SM\SJ
 Sample : J6428-04DL2 200X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41T8DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

Target Compounds

| | | | | | | | | | |
|-----|----|-----------|-------|-------|----------|----------|----------|----------|---|
| 21) | L5 | AR-1248-1 | 5.591 | 4.586 | 11790221 | 132.5E6 | 242.984 | 1358.878 | # |
| 22) | L5 | AR-1248-2 | 5.860 | 4.799 | 23850705 | 56793487 | 360.972 | 443.344 | |
| 23) | L5 | AR-1248-3 | 6.063 | 4.838 | 26399535 | 52590058 | 353.337 | 398.478 | |
| 24) | L5 | AR-1248-4 | 6.464 | 5.007 | 26952362 | 62201492 | 301.663 | 378.055 | # |
| 25) | L5 | AR-1248-5 | 6.502 | 5.391 | 35261639 | 79490868 | 421.446 | 474.982 | |
| 31) | L7 | AR-1260-1 | 7.182 | 6.018 | 122.1E6 | 255.3E6 | 1298.631 | 1187.601 | |
| 32) | L7 | AR-1260-2 | 7.437 | 6.204 | 136.4E6 | 345.3E6 | 1174.491 | 1269.102 | |
| 33) | L7 | AR-1260-3 | 7.721 | 6.355 | 156.3E6 | 267.6E6 | 1120.022 | 1077.971 | |
| 34) | L7 | AR-1260-4 | 8.021 | 6.821 | 115.7E6 | 161.5E6 | 1339.108 | 944.600 | # |
| 35) | L7 | AR-1260-5 | 8.336 | 7.061 | 180.3E6 | 518.9E6 | 998.550 | 1072.838 | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T9

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-05
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035054.D
 % Solids : 82.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|-----|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 40 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 7500 | EPC |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 18000 | EC |
| 37324-23-5 | Aroclor-1262 | 40 | U |
| 11100-14-4 | Aroclor-1268 | 40 | U |

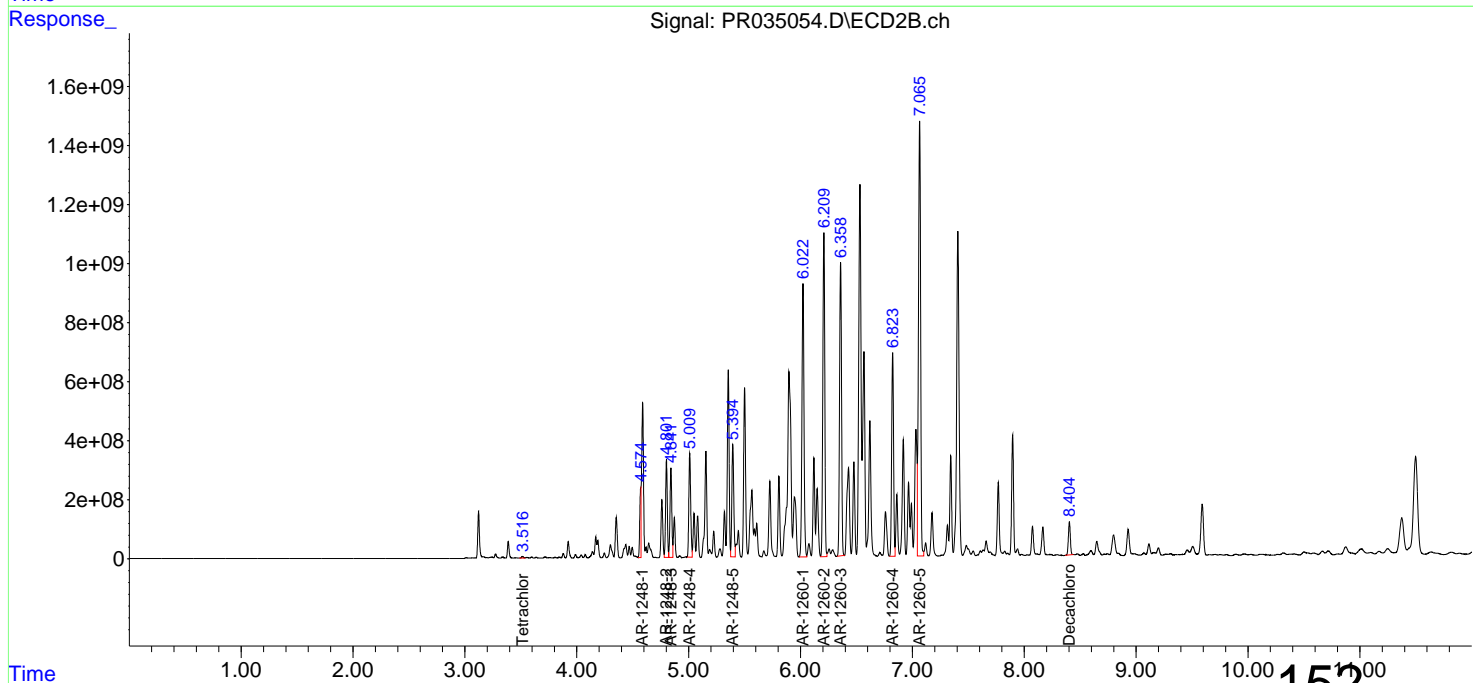
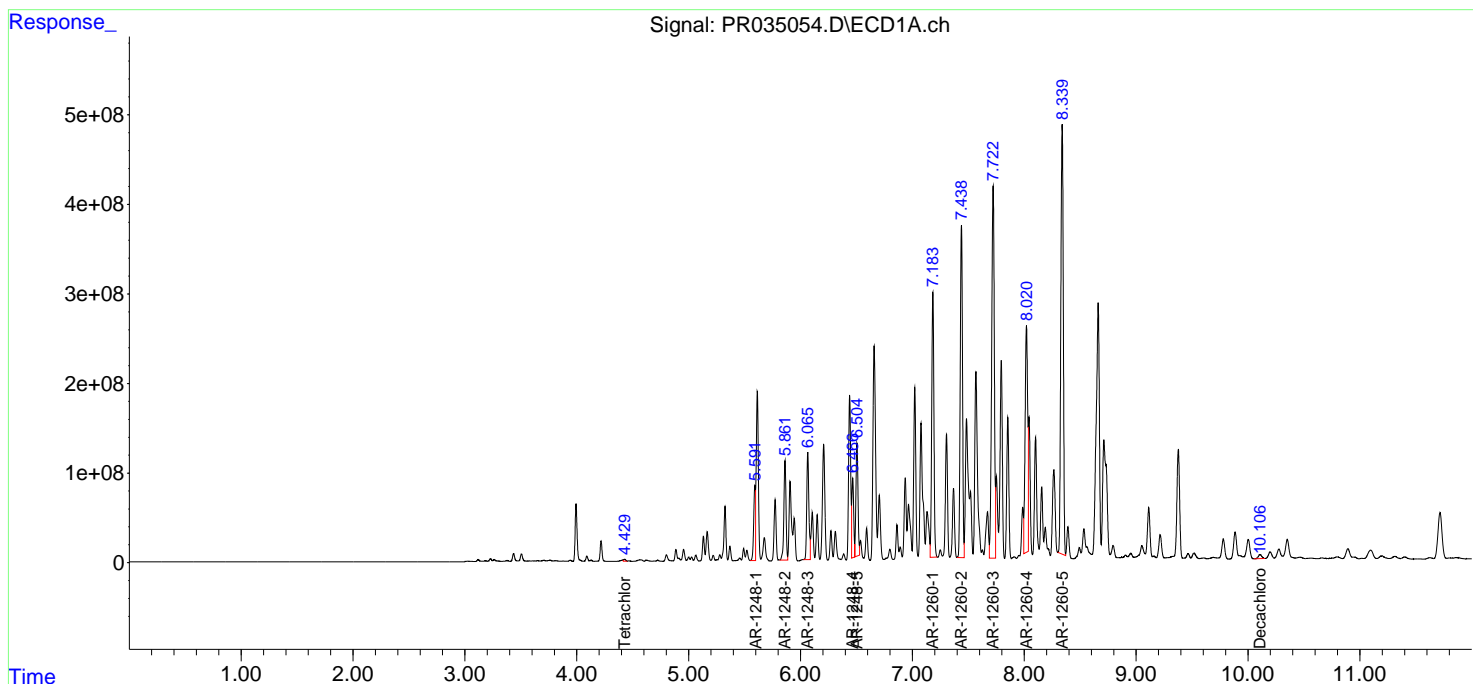
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 Data File : PR035054.D
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 Acq On : 28 Dec 2018 04:18
 Operator : SM\SJ
 Sample : J6428-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:29 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:18
 Operator : SM\SJ
 Sample : J6428-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41T9

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:29 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.429 | 3.516 | 25198935 | 64210811 | 12.956m | 18.419 # |
| 2) SA Decachlor... | 10.106 | 8.404 | 96768987 | 1362.1E6 | 49.223 | 309.793 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.574 | 908.7E6 | 1825.9E6 | 18727.148m | 18726.953m |
| 22) L5 AR-1248-2 | 5.861 | 4.802 | 1478.9E6 | 3464.0E6 | 22382.757m | 27041.193 |
| 23) L5 AR-1248-3 | 6.065 | 4.842 | 1600.0E6 | 3398.5E6 | 21414.809m | 25751.001 |
| 24) L5 AR-1248-4 | 6.467 | 5.010 | 1036.8E6 | 4064.9E6 | 11604.582 | 24705.958 # |
| 25) L5 AR-1248-5 | 6.505 | 5.395 | 1633.7E6 | 4553.6E6 | 19525.537 | 27209.272 # |
| 31) L7 AR-1260-1 | 7.183 | 6.022 | 4030.0E6 | 11754.9E6 | 42868.450 | 54680.820 # |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 5207.9E6 | 13348.6E6 | 44856.559 | 49053.687 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 6857.2E6 | 12271.8E6 | 49135.352 | 49436.091 |
| 34) L7 AR-1260-4 | 8.020 | 6.824 | 4024.0E6 | 8103.2E6 | 46593.259 | 47389.868 |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 7426.3E6 | 19966.7E6 | 41130.867 | 41283.776 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:18
 Operator : SM\SJ
 Sample : J6428-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

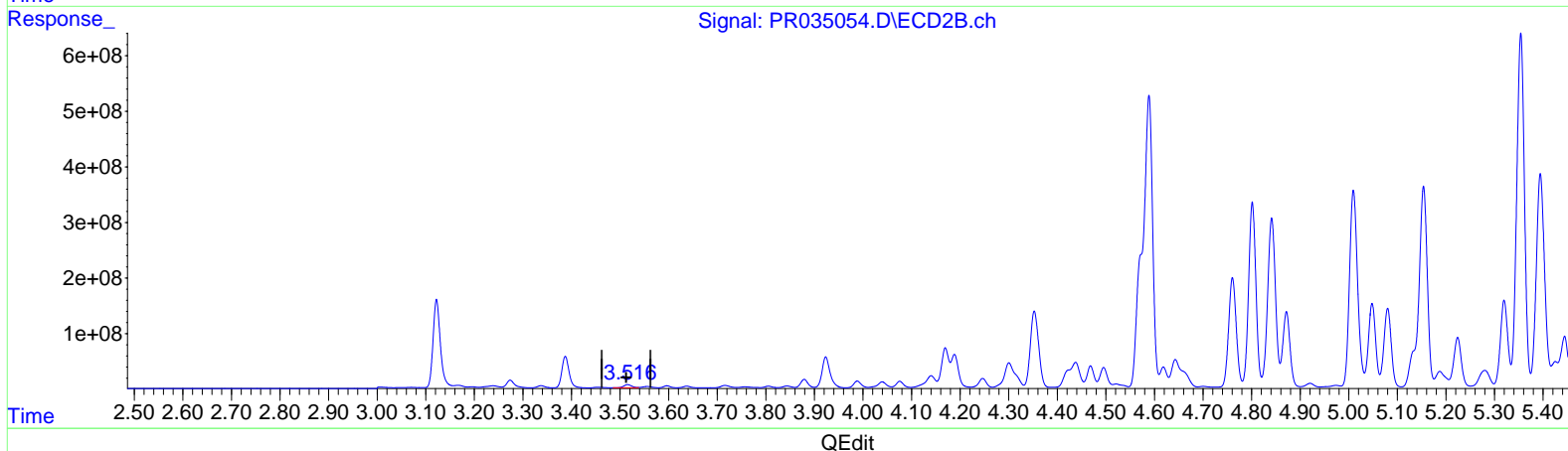
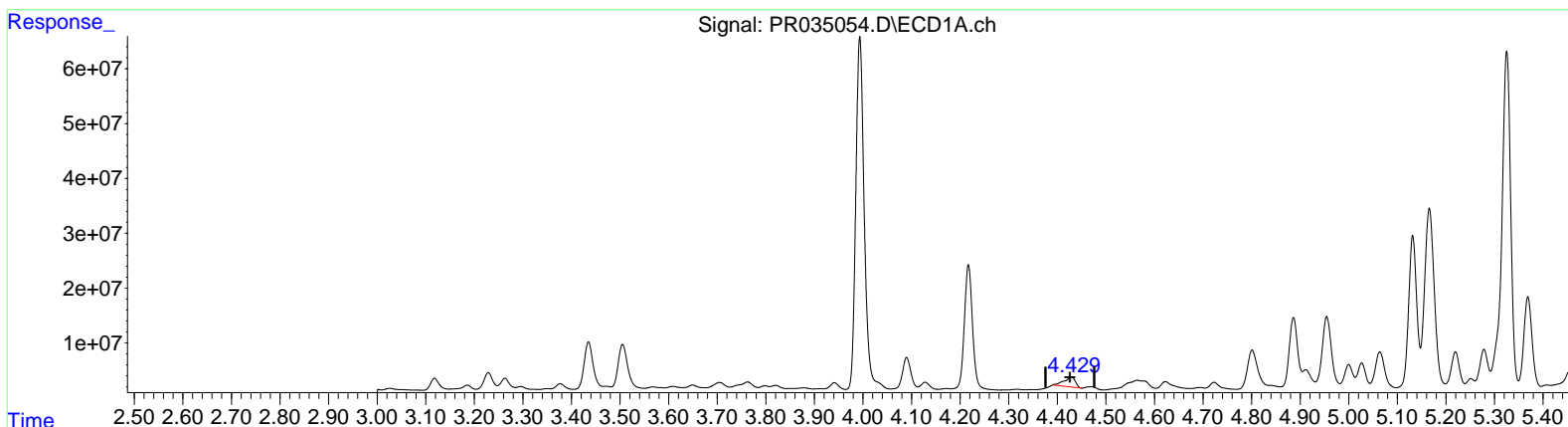
Instrument :
 ECD_R
 ClientSampled :
 A41T9

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:29 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.429min 14.968 ng/ml

response 29114079

(1) Tetrachloro-m-xylene #2 (SA)

3.516min 18.419 ng/ml

response 64210811

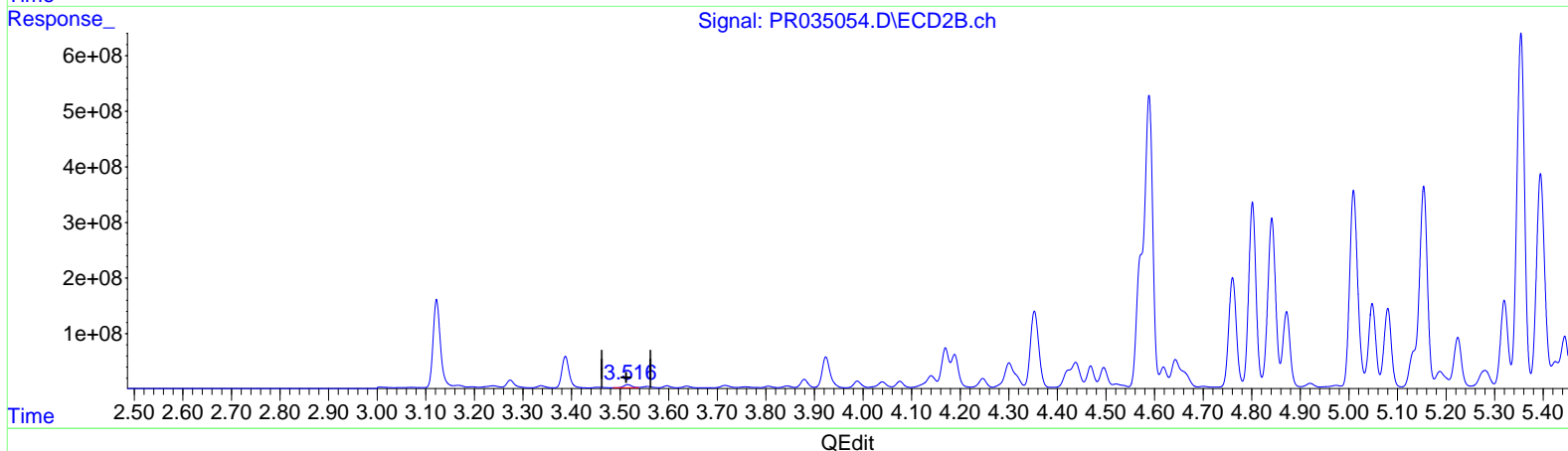
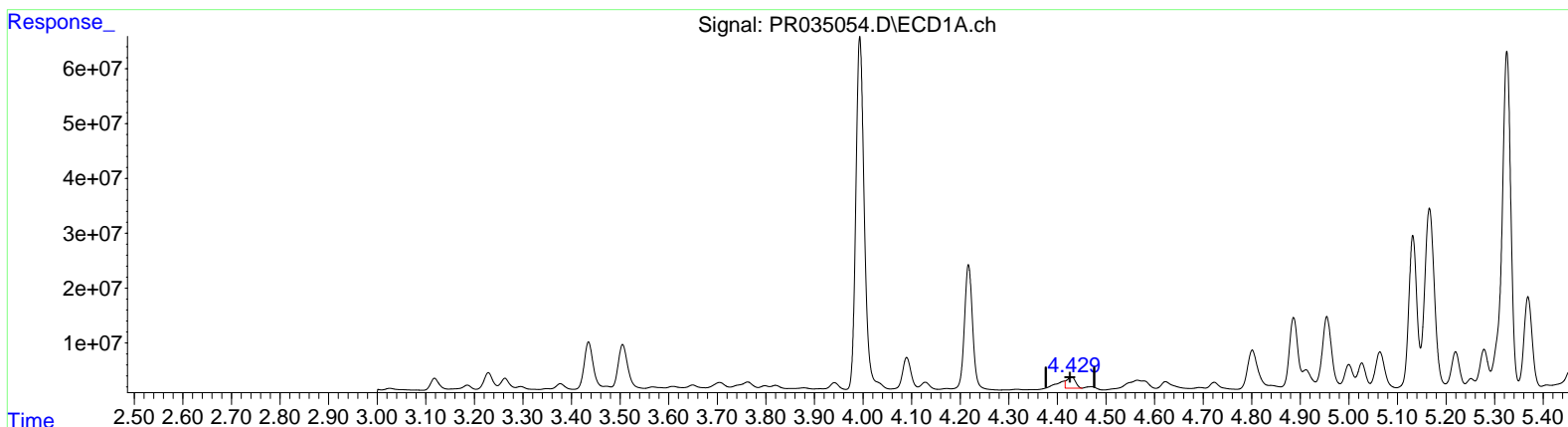
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 Data File : PR035054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:18
 Operator : SM\SJ
 Sample : J6428-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:29 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.429min 12.956 ng/ml m
 response 25198935

(1) Tetrachloro-m-xylene #2 (SA)

3.516min 18.419 ng/ml
 response 64210811

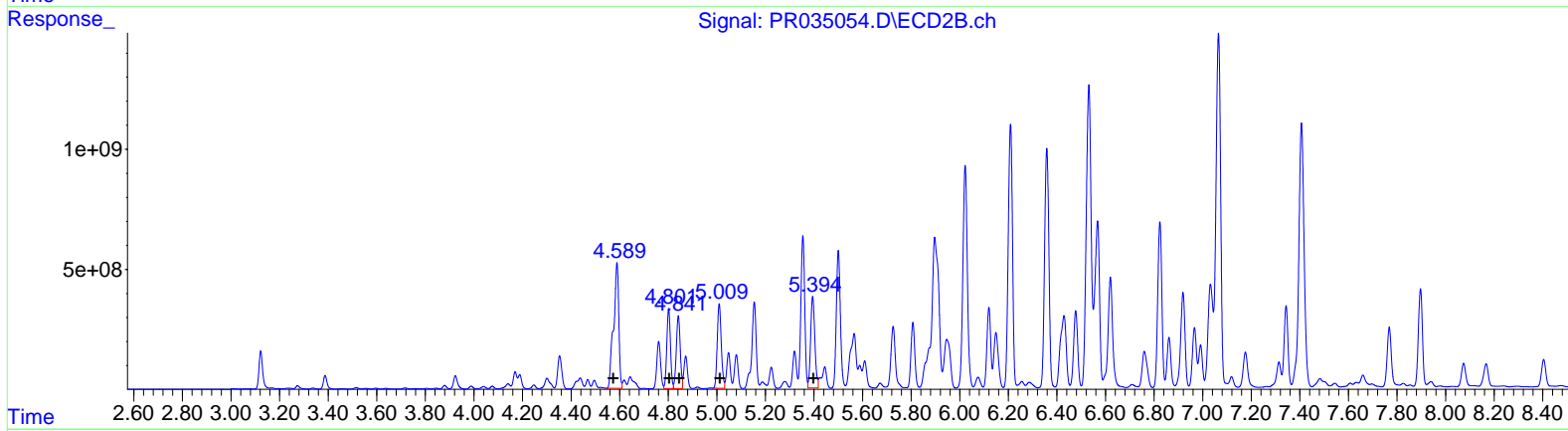
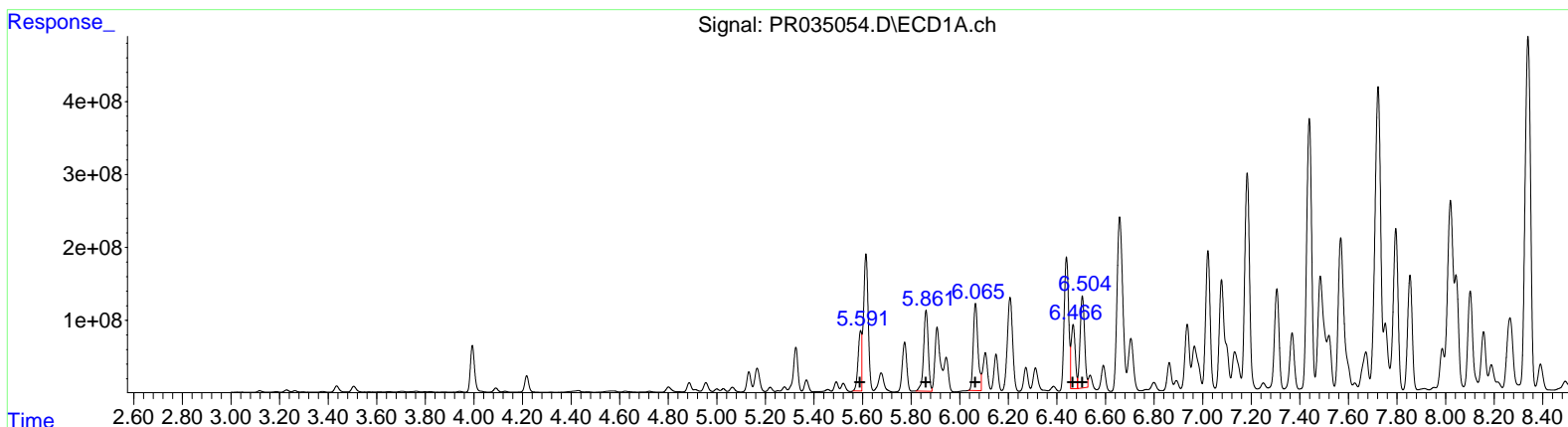
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:18
 Operator : SM\SJ
 Sample : J6428-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:29 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.59 | 828056335 | 17065.36 |
| 5.86 | 1480159081 | 22401.70 |
| 6.06 | 1589958071 | 21280.33 |
| 6.47 | 1036822195 | 11604.58 |
| 6.50 | 1633667268 | 19525.54 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.59 | 7781584394 | 79809.74 |
| 4.80 | 3464042032 | 27041.19 |
| 4.84 | 3398544552 | 25751.00 |
| 5.01 | 4064878622 | 24705.96 |
| 5.39 | 4553626423 | 27209.27 |

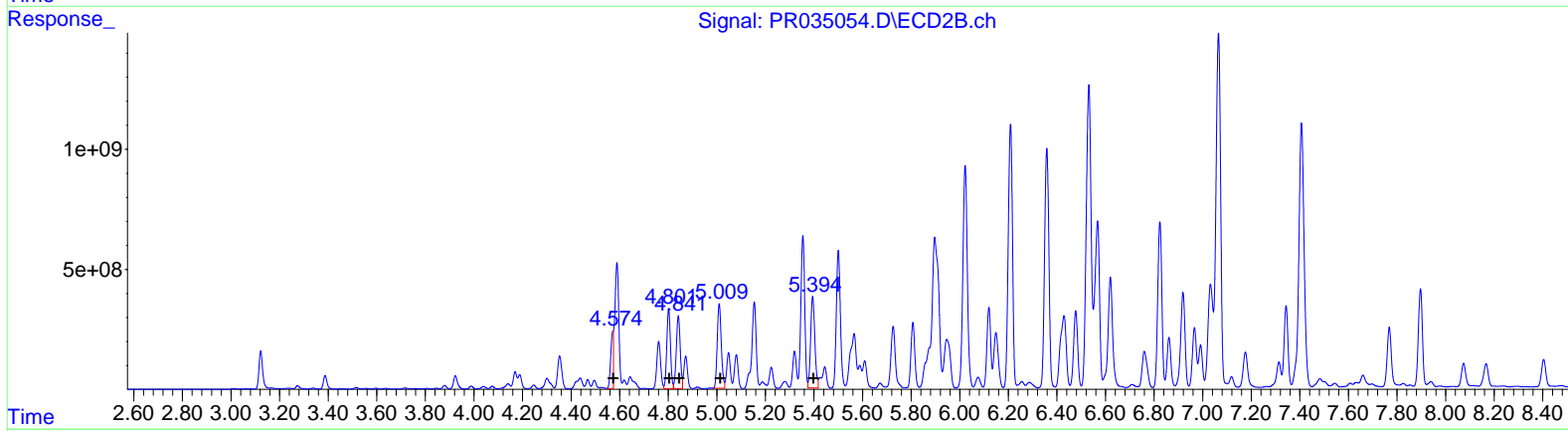
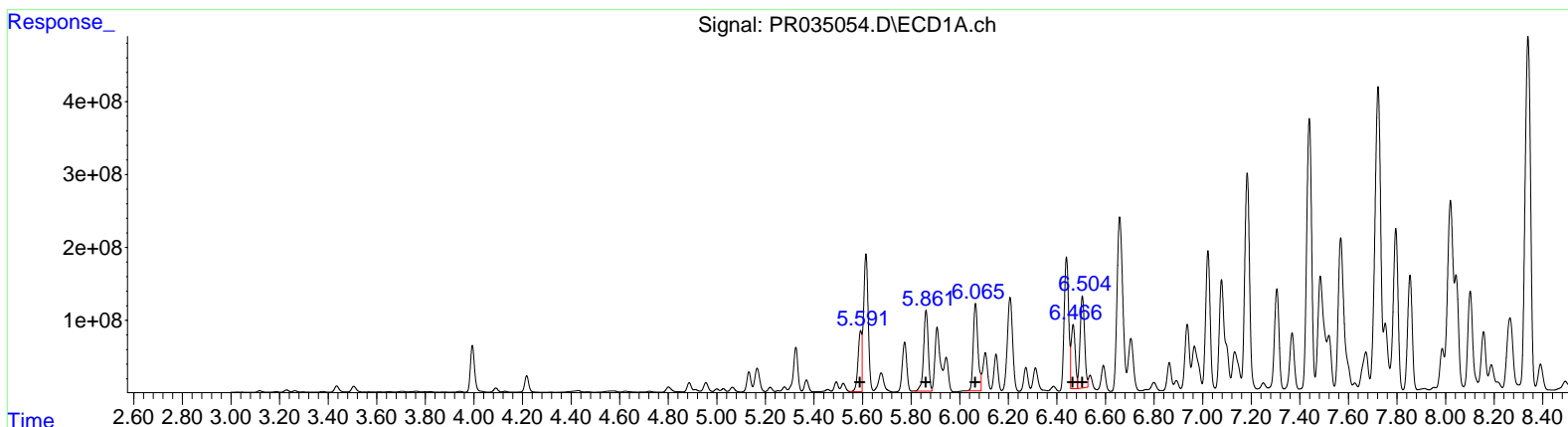
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:18
 Operator : SM\SJ
 Sample : J6428-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T9

Manual Integrations
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 12/29/2018 12:17:29 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.59 | 908690458 | 18727.15 |
| 5.86 | 1478907193 | 22382.76 |
| 6.06 | 1600005683 | 21414.81 |
| 6.47 | 1036822195 | 11604.58 |
| 6.50 | 1633667268 | 19525.54 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.57 | 1825909618 | 18726.95 |
| 4.80 | 3464042032 | 27041.19 |
| 4.84 | 3398544552 | 25751.00 |
| 5.01 | 4064878622 | 24705.96 |
| 5.39 | 4553626423 | 27209.27 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035054.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:18
 Operator : SM\SJ
 Sample : J6428-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T9

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|---------|-----------|
| 1) SA Tetrachlo... | 4.429 | 3.516 | 25198935 | 64210811 | 12.956m | 18.419 # |
| 2) SA Decachlor... | 10.106 | 8.404 | 96768987 | 1362.1E6 | 49.223 | 309.793 # |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|-----------|------------|-------------|
| 21) L5 AR-1248-1 | 5.591 | 4.574 | 908.7E6 | 1825.9E6 | 18727.148m | 18726.953m |
| 22) L5 AR-1248-2 | 5.861 | 4.802 | 1478.9E6 | 3464.0E6 | 22382.757m | 27041.193 |
| 23) L5 AR-1248-3 | 6.065 | 4.842 | 1600.0E6 | 3398.5E6 | 21414.809m | 25751.001 |
| 24) L5 AR-1248-4 | 6.467 | 5.010 | 1036.8E6 | 4064.9E6 | 11604.582 | 24705.958 # |
| 25) L5 AR-1248-5 | 6.505 | 5.395 | 1633.7E6 | 4553.6E6 | 19525.537 | 27209.272 # |
| 31) L7 AR-1260-1 | 7.183 | 6.022 | 4030.0E6 | 11754.9E6 | 42868.450 | 54680.820 # |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 5207.9E6 | 13348.6E6 | 44856.559 | 49053.687 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 6857.2E6 | 12271.8E6 | 49135.352 | 49436.091 |
| 34) L7 AR-1260-4 | 8.020 | 6.824 | 4024.0E6 | 8103.2E6 | 46593.259 | 47389.868 |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 7426.3E6 | 19966.7E6 | 41130.867 | 41283.776 |

} SJ
 12/28/18

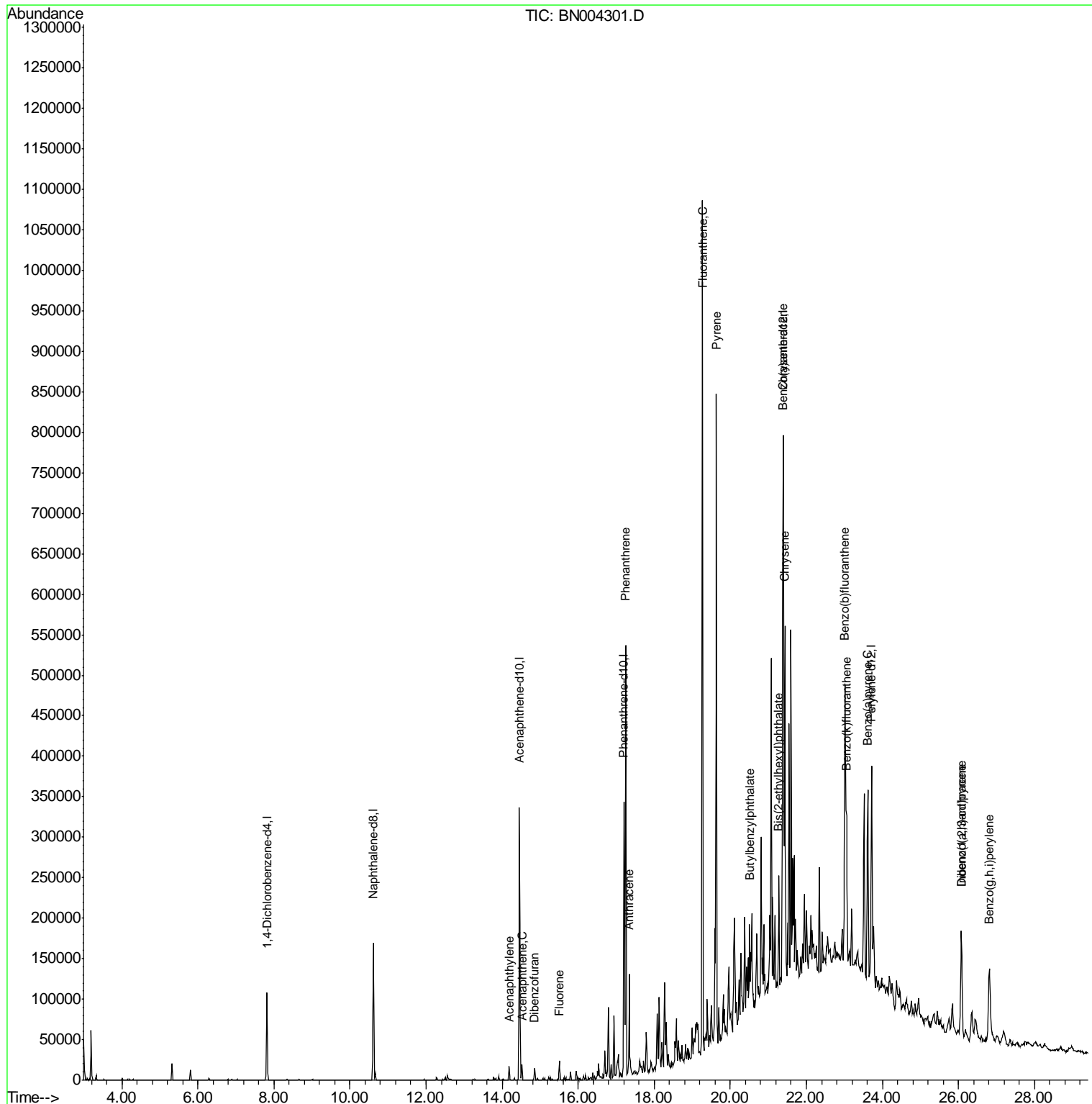
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

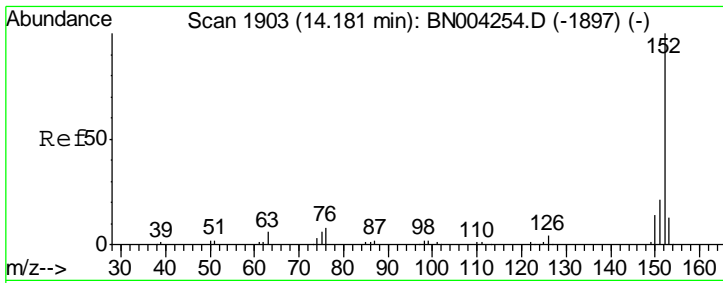
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampled :
 A41T9

Manual Integrations
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 1/2/2019 3:42:19 PM

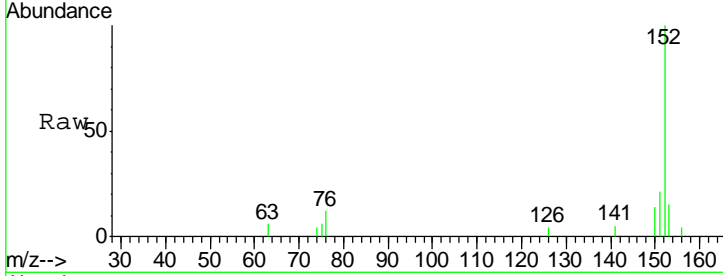
Quant Time: Dec 31 02:45:01 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#47
 Acenaphthylene
 Concen: 1.508 ng/ul
 RT: 14.18 min Scan# 1903
 Delta R.T. -0.01 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

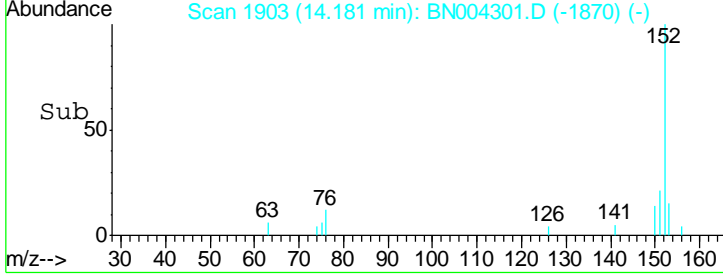
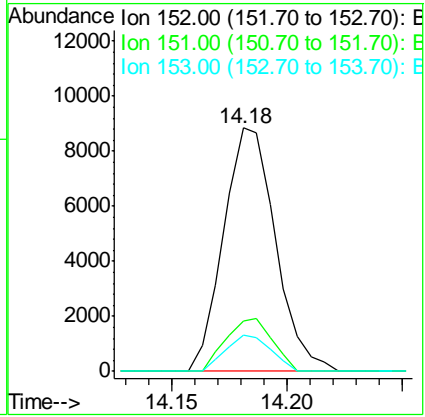
Instrument :
 BNA_N
 ClientSampled :
 A41T9



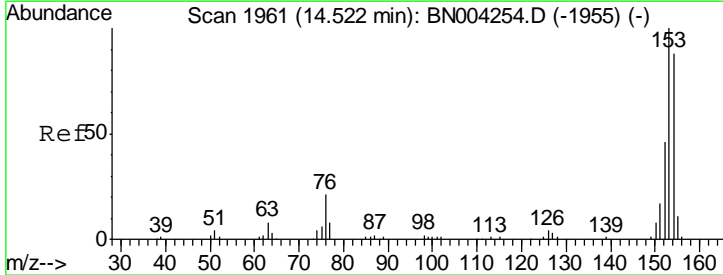
Tgt Ion: 152 Resp: 13876

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100 | | |
| 151 | 20.6 | 16.2 | 24.2 |
| 153 | 14.8 | 10.6 | 15.8 |

Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:19 PM

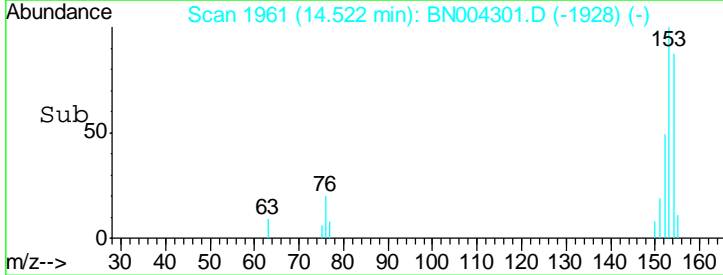
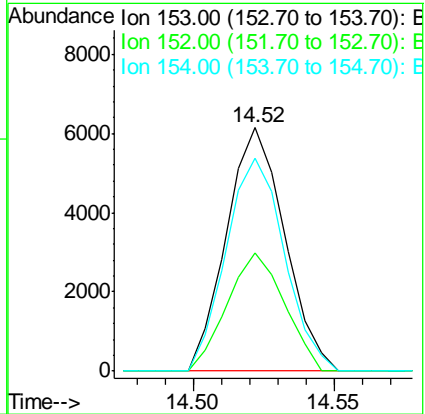


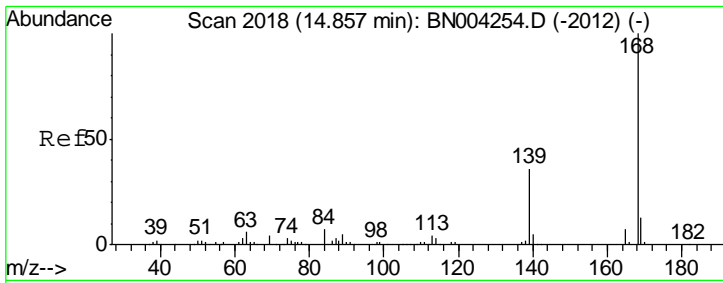
#49
 Acenaphthene
 Concen: 1.345 ng/ul
 RT: 14.52 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00



Tgt Ion: 153 Resp: 8814

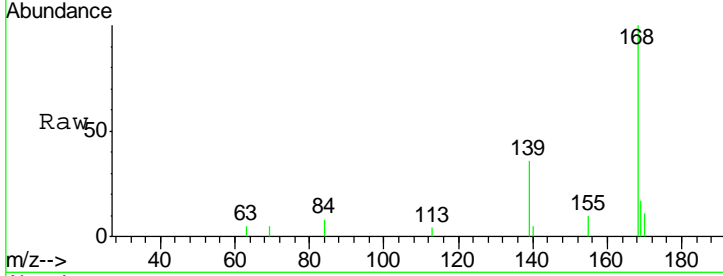
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100 | | |
| 152 | 48.8 | 37.8 | 56.6 |
| 154 | 87.3 | 71.0 | 106.6 |





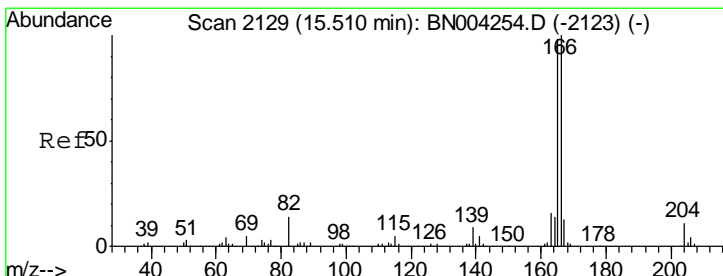
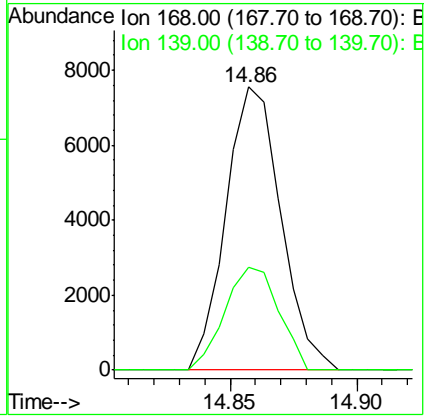
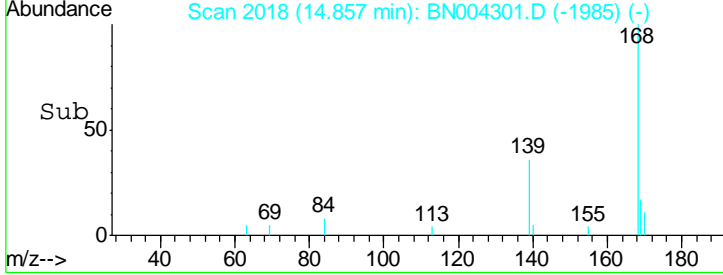
#53
 Dibenzofuran
 Concen: 1.229 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

Instrument :
 BNA_N
 ClientSampled :
 A41T9

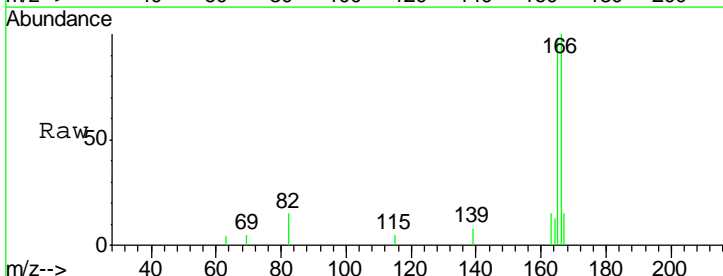


Tgt Ion:168 Resp: 11431
 Ion Ratio Lower Upper
 168 100
 139 36.3 28.8 43.2

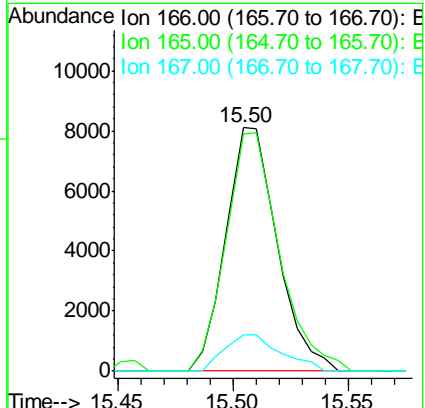
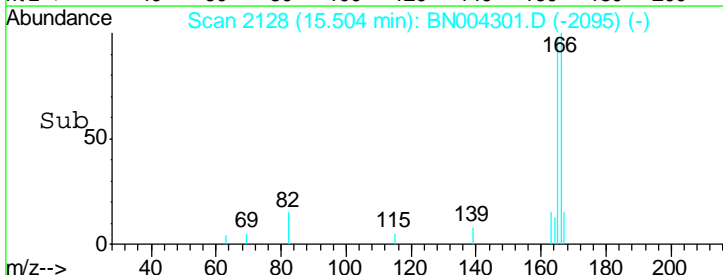
Manual Integrations
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 1/2/2019 3:42:19 PM

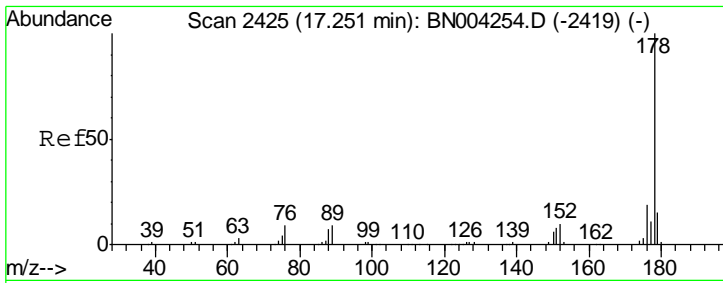


#58
 Fluorene
 Concen: 1.629 ng/ul
 RT: 15.50 min Scan# 2128
 Delta R.T. -0.01 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00



Tgt Ion:166 Resp: 12620
 Ion Ratio Lower Upper
 166 100
 165 97.6 78.6 117.8
 167 15.0 10.3 15.5





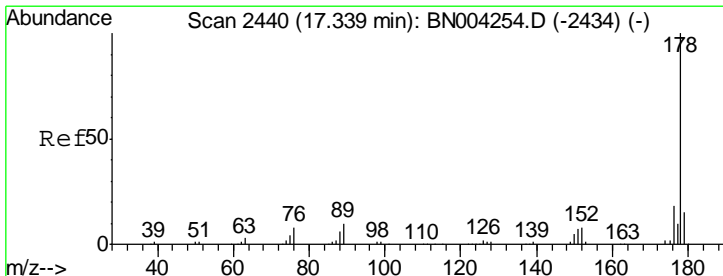
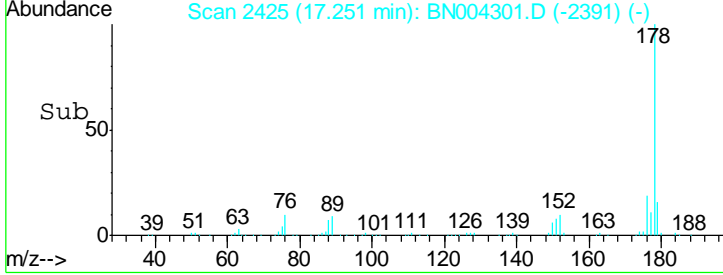
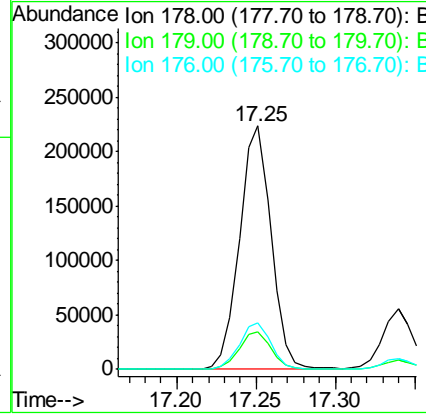
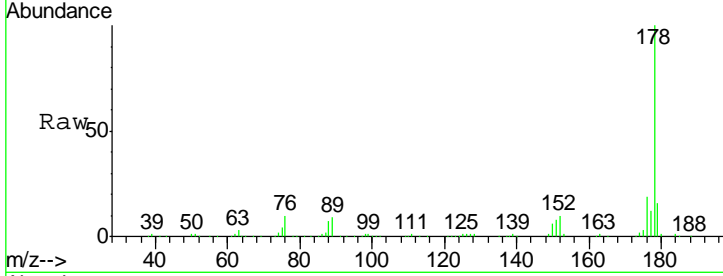
#69
 Phenanthrene
 Concen: 25.934 ng/ul
 RT: 17.25 min Scan# 2425
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

Instrument :
 BNA_N
 ClientSampled :
 A41T9

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178 | 100 | | |
| 179 | 15.7 | 12.1 | 18.1 |
| 176 | 19.1 | 15.0 | 22.6 |

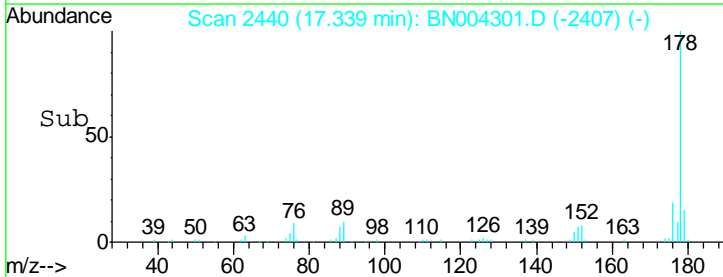
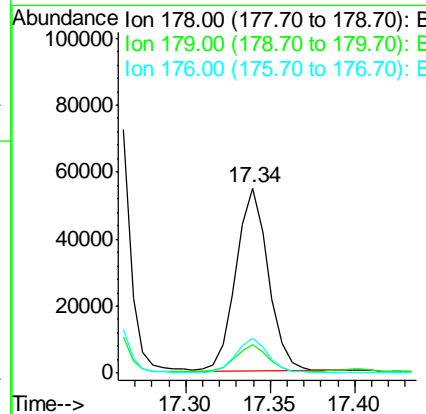
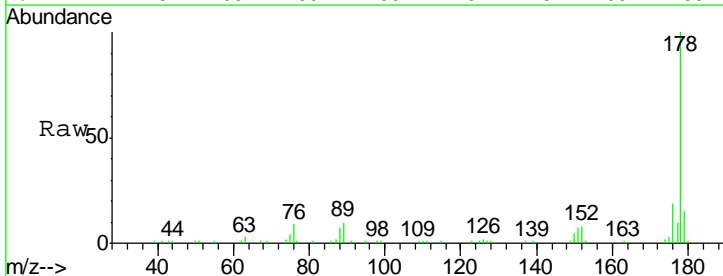
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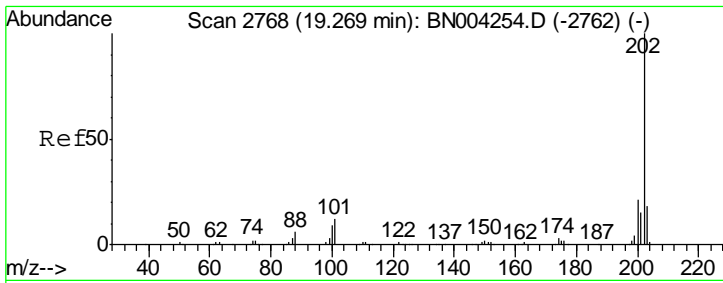
Sohil
 1/2/2019 3:42:19 PM



#71
 Anthracene
 Concen: 5.960 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178 | 100 | | |
| 179 | 15.2 | 12.1 | 18.1 |
| 176 | 18.6 | 15.2 | 22.8 |



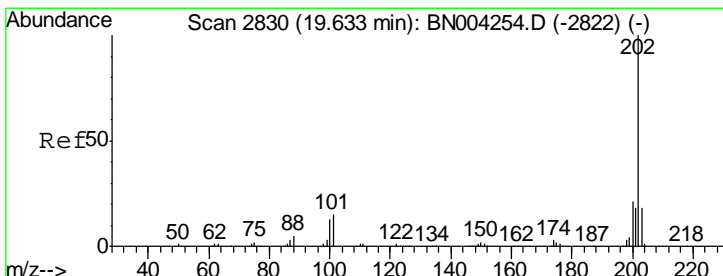
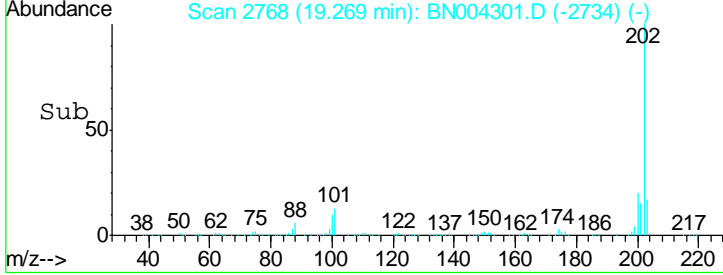
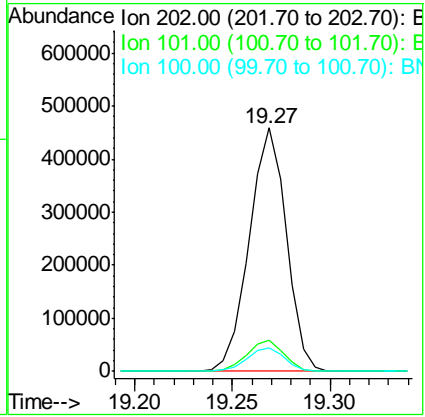
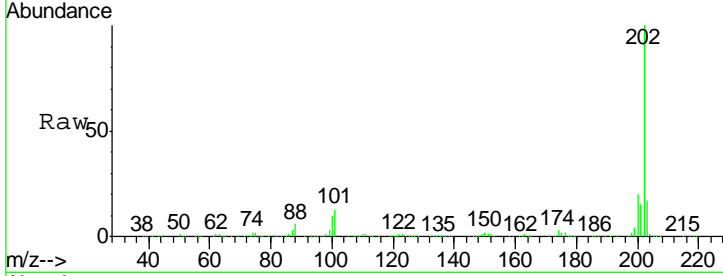


#76
 Fluoranthene
 Concen: 41.268 ng/ul
 RT: 19.27 min Scan# 2768
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

Instrument :
 BNA_N
 ClientSampled :
 A41T9

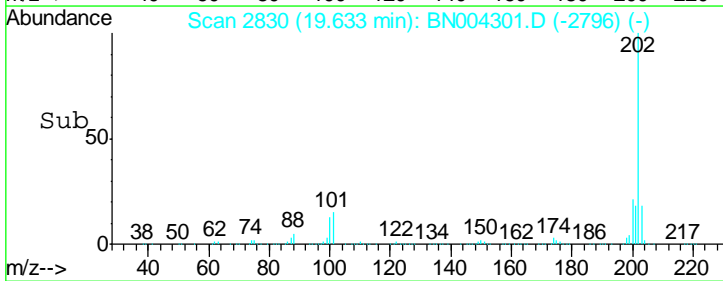
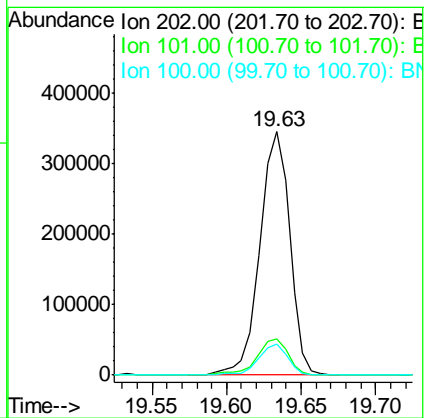
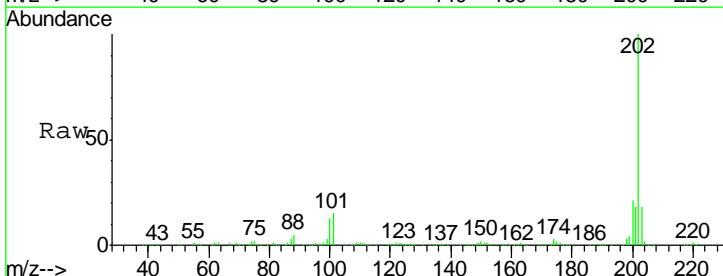
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 202 | 603162 | | |
| 101 | 12.8 | 10.2 | 15.2 |
| 100 | 9.8 | 7.8 | 11.8 |

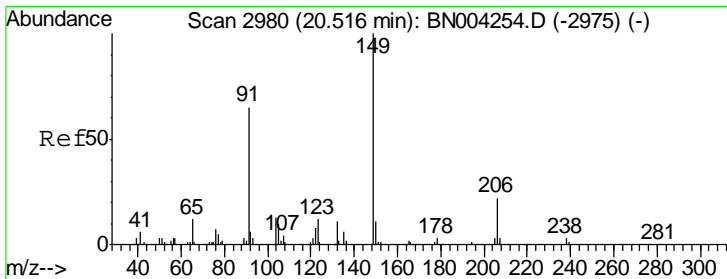
Manual Integrations
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 1/2/2019 3:42:19 PM



#79
 Pyrene
 Concen: 41.356 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 202 | 478053 | | |
| 101 | 14.8 | 12.2 | 18.2 |
| 100 | 12.5 | 9.9 | 14.9 |





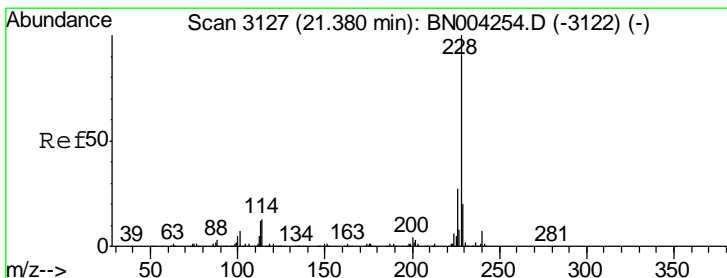
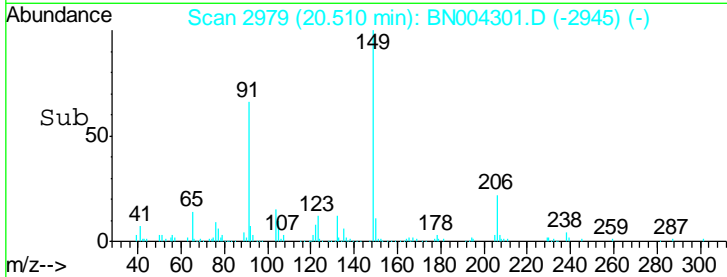
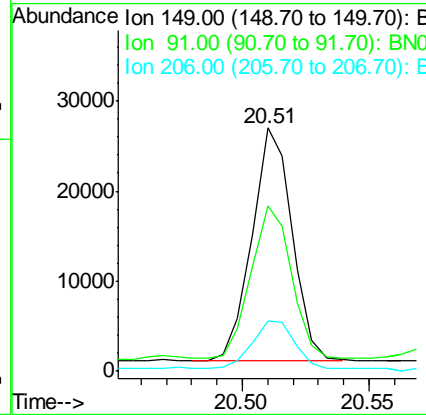
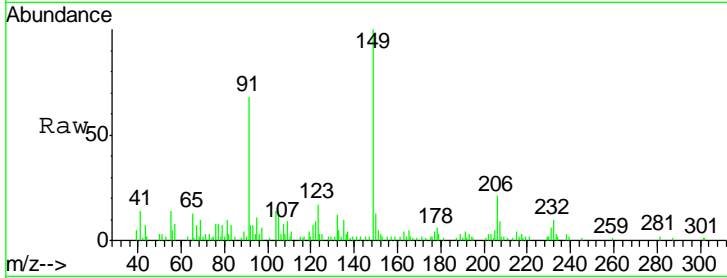
#80
 Butylbenzylphthalate
 Concen: 5.528 ng/ul
 RT: 20.51 min Scan# 2979
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

Instrument :
 BNA_N
 ClientSampled :
 A41T9

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 149 | 100 | | |
| 91 | 68.1 | 53.0 | 79.4 |
| 206 | 20.9 | 17.1 | 25.7 |

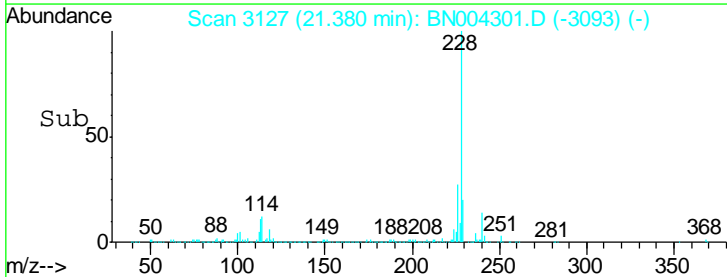
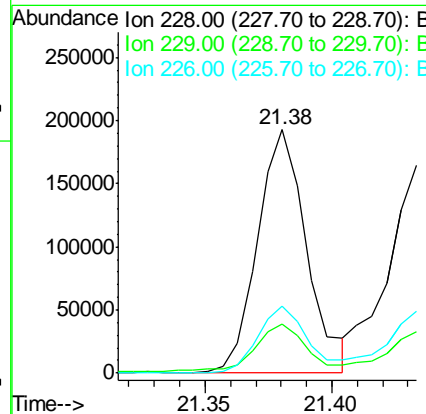
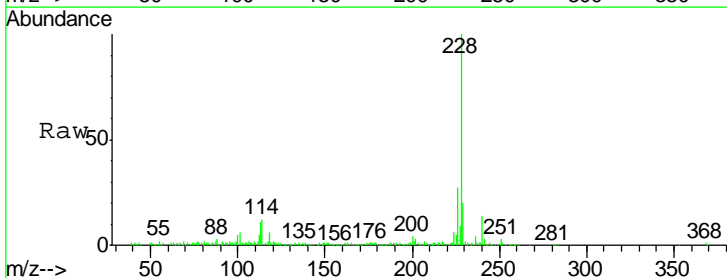
Manual Integrations
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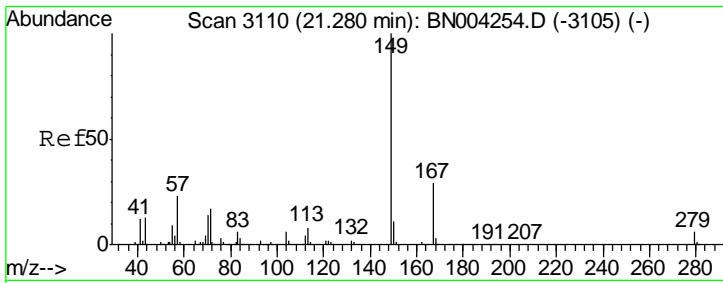
Sohil
 1/2/2019 3:42:19 PM



#82
 Benzo(a)anthracene
 Concen: 20.028 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 229 | 20.3 | 15.9 | 23.9 |
| 226 | 27.4 | 21.4 | 32.2 |





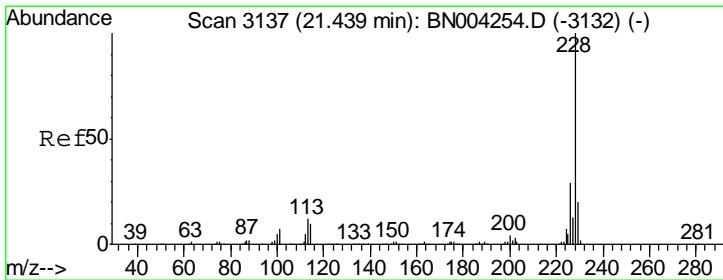
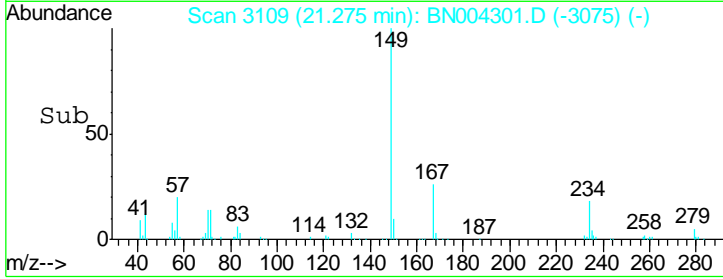
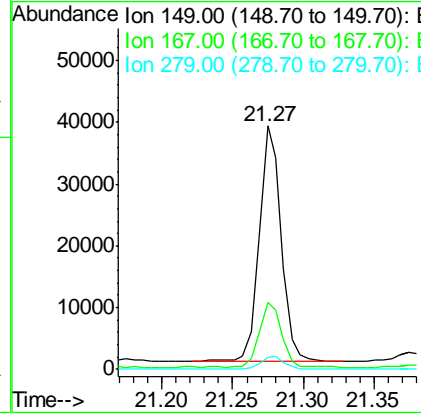
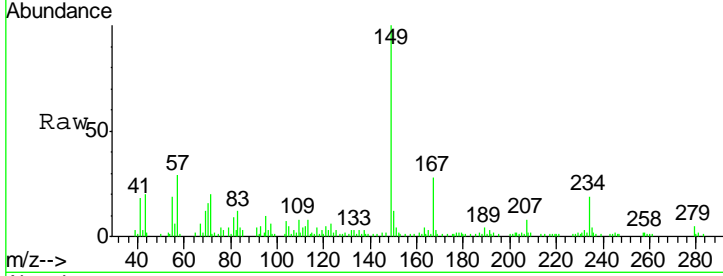
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 5.243 ng/ul
 RT: 21.27 min Scan# 3109
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

Instrument :
 BNA_N
 ClientSampled :
 A41T9

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 149 | 41368 | | |
| 167 | 27.7 | 23.0 | 34.4 |
| 279 | 5.1 | 4.4 | 6.6 |

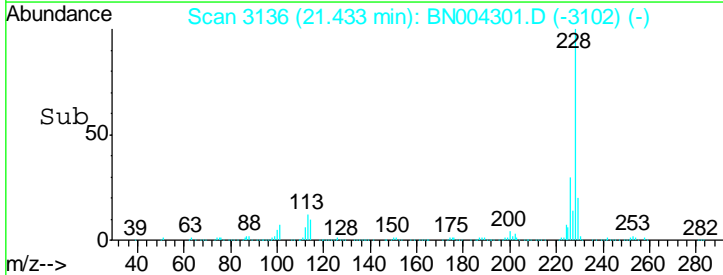
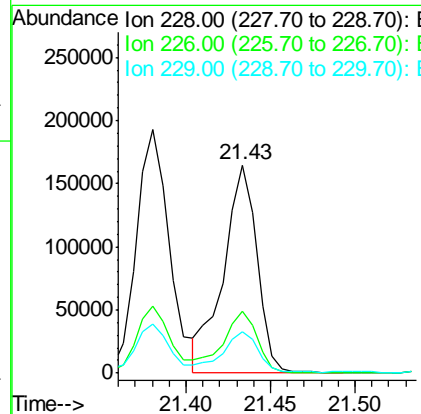
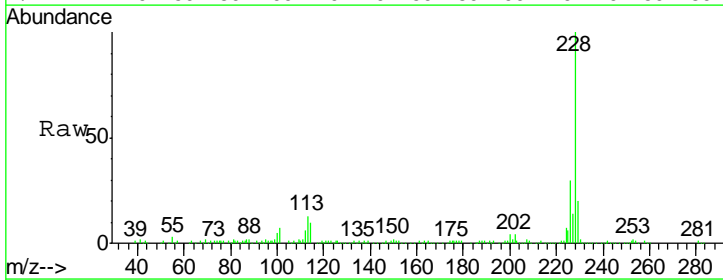
Manual Integrations
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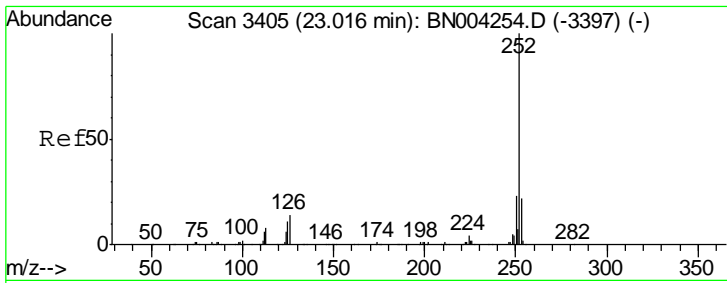
Sohil
 1/2/2019 3:42:19 PM



#84
 Chrysene
 Concen: 18.748 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 226572 | | |
| 226 | 29.9 | 23.8 | 35.8 |
| 229 | 20.2 | 15.8 | 23.6 |





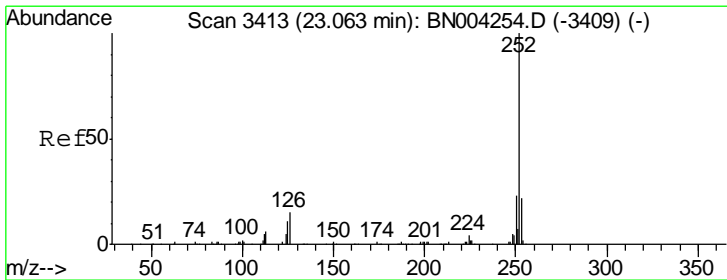
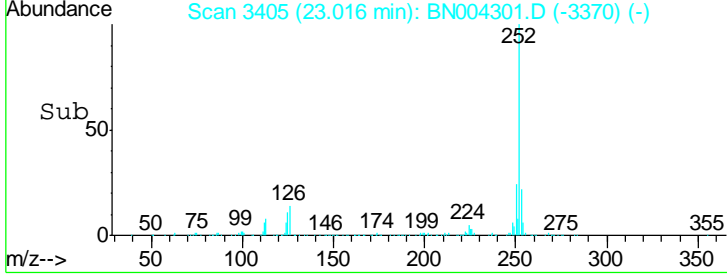
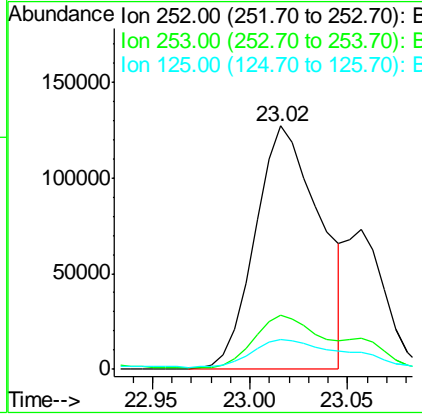
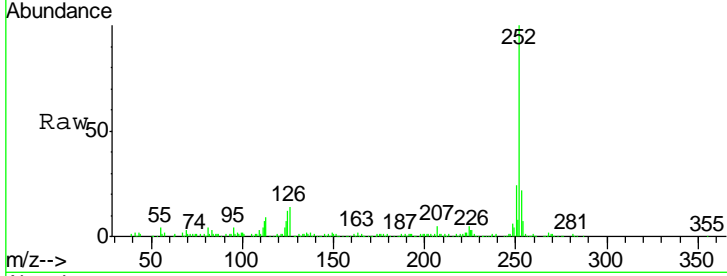
#87
 Benzo(b)fluoranthene
 Concen: 25.834 ng/ul
 RT: 23.02 min Scan# 3405
 Delta R.T. 0.01 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

Instrument :
 BNA_N
 ClientSampled :
 A41T9

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.5 | 17.3 | 25.9 |
| 125 | 12.4 | 8.2 | 12.4# |

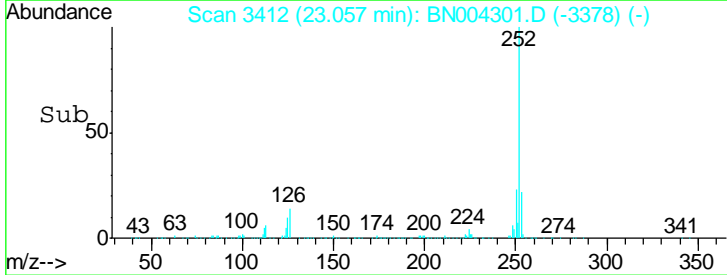
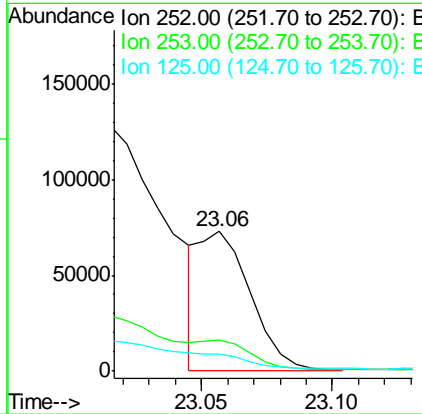
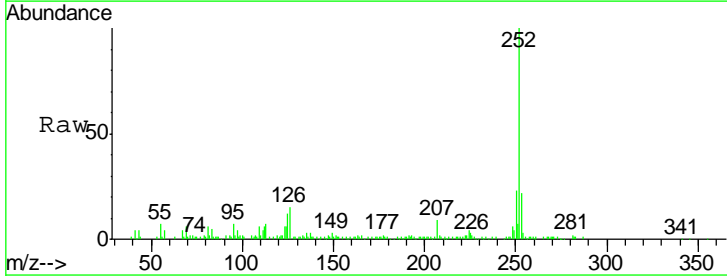
Manual Integrations
 APPROVED

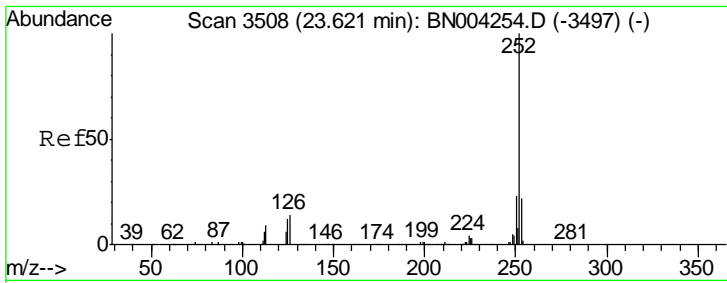
Sohil
 1/2/2019 3:42:19 PM



#88
 Benzo(k)fluoranthene
 Concen: 9.341 ng/ul m
 RT: 23.06 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.3 | 17.1 | 25.7 |
| 125 | 12.2 | 7.9 | 11.9# |





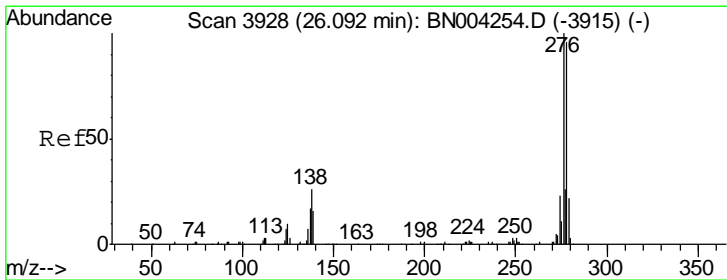
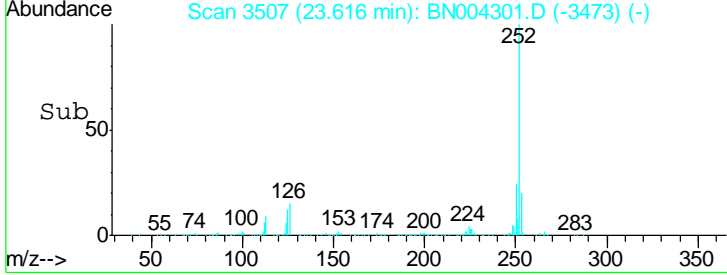
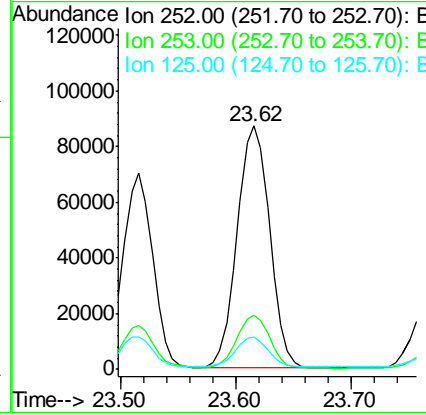
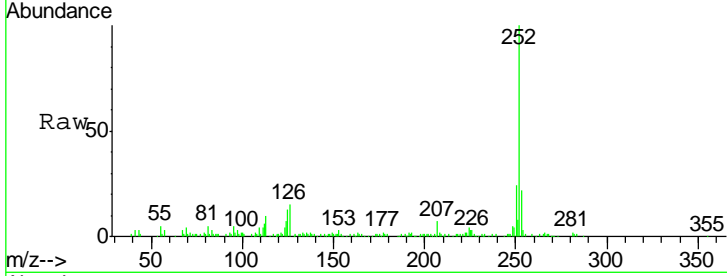
#90
 Benzo(a)pyrene
 Concen: 15.606 ng/ul
 RT: 23.62 min Scan# 3507
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

Instrument :
 BNA_N
 ClientSampled :
 A41T9

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 252 | 170185 | | |
| 253 | 22.1 | 17.5 | 26.3 |
| 125 | 13.3 | 9.1 | 13.7 |

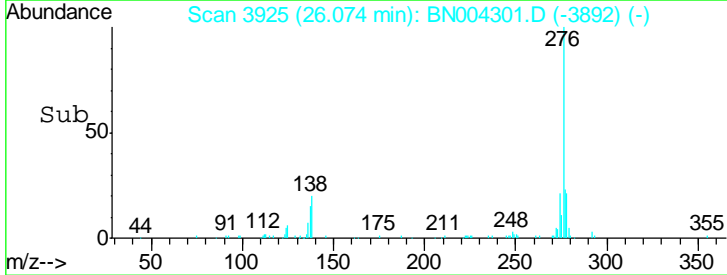
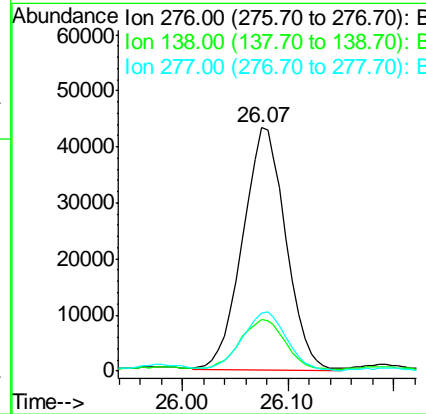
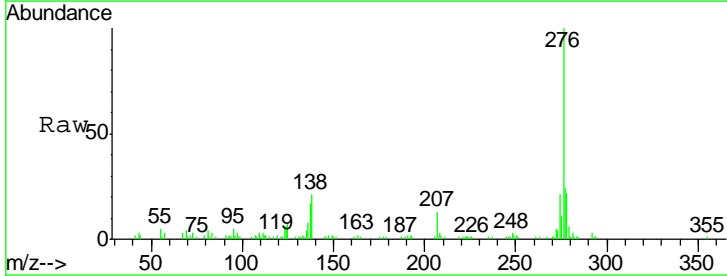
Manual Integrations
 APPROVED

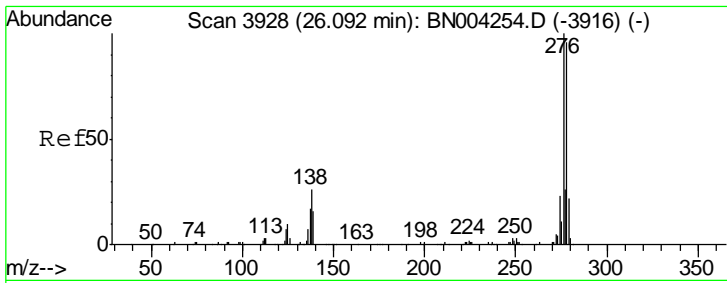
Sohil
 1/2/2019 3:42:19 PM



#91
 Indeno(1,2,3-cd)pyrene
 Concen: 8.608 ng/ul
 RT: 26.07 min Scan# 3925
 Delta R.T. -0.01 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

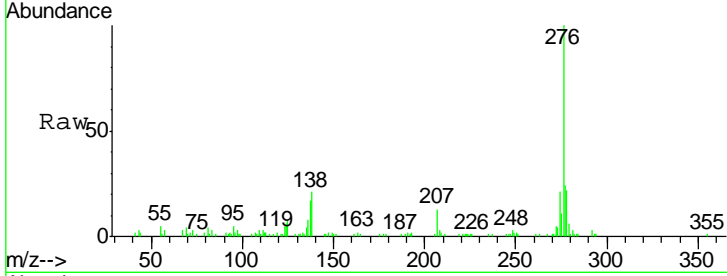
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 276 | 122363 | | |
| 138 | 21.2 | 20.4 | 30.6 |
| 277 | 23.8 | 20.6 | 30.8 |





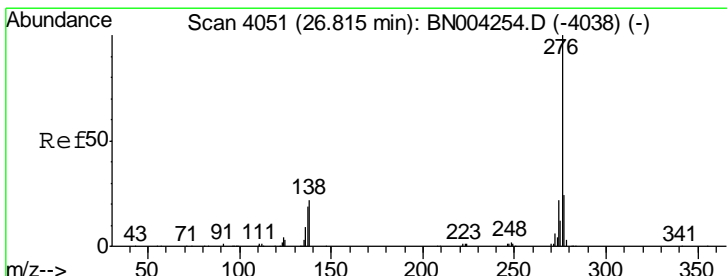
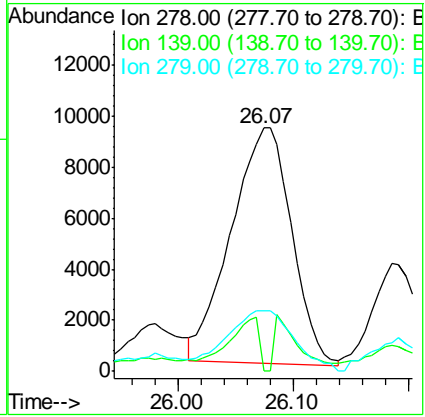
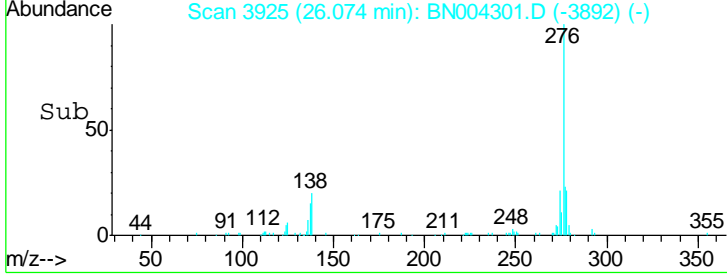
#92
 Dibenzo(a,h)anthracene
 Concen: 2.857 ng/ul
 RT: 26.07 min Scan# 3925
 Delta R.T. -0.01 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00

Instrument :
 BNA_N
 ClientSampled :
 A41T9

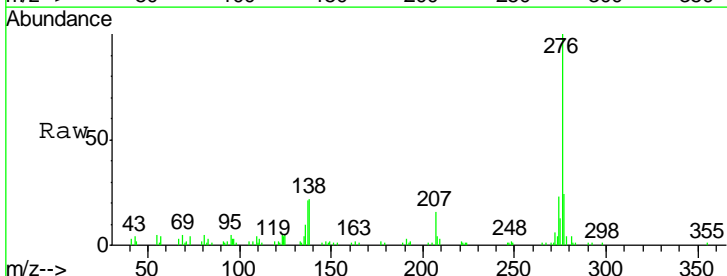


| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 278 | 33760 | | |
| 278 | 100 | | |
| 139 | 0.0 | 13.3 | 19.9# |
| 279 | 25.1 | 19.0 | 28.6 |

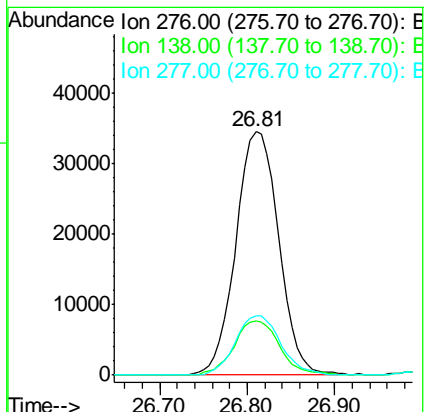
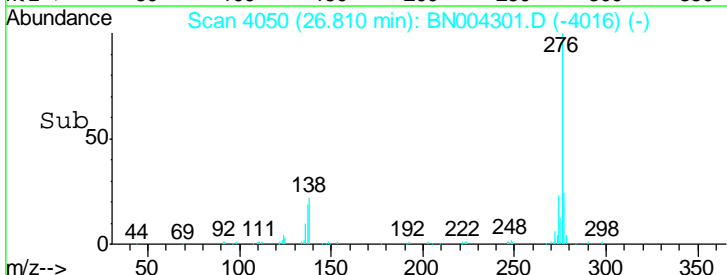
Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:19 PM



#93
 Benzo(g,h,i)perylene
 Concen: 9.706 ng/ul
 RT: 26.81 min Scan# 4050
 Delta R.T. 0.00 min
 Lab File: BN004301.D
 Acq: 29 Dec 2018 15:00



| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 276 | 115483 | | |
| 276 | 100 | | |
| 138 | 22.2 | 18.2 | 27.4 |
| 277 | 24.4 | 19.0 | 28.6 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T9

Manual Integrations
 APPROVED

Sohil
 1/2/2019 3:42:19 PM

Quant Time: Dec 31 02:45:01 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 31145 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 149813 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 91230 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 206375 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 206913 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 189029 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0d | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue | |
|--------------------------------|-------|-----|--------|--------|--------|-----|
| 47) Acenaphthylene | 14.18 | 152 | 13876 | 1.508 | ng/ul | 98 |
| 49) Acenaphthene | 14.52 | 153 | 8814 | 1.345 | ng/ul | 98 |
| 53) Dibenzofuran | 14.86 | 168 | 11431 | 1.229 | ng/ul | 100 |
| 58) Fluorene | 15.50 | 166 | 12620 | 1.629 | ng/ul | 99 |
| 69) Phenanthrene | 17.25 | 178 | 309239 | 25.934 | ng/ul | 99 |
| 71) Anthracene | 17.34 | 178 | 72844 | 5.960 | ng/ul | 99 |
| 76) Fluoranthene | 19.27 | 202 | 603162 | 41.268 | ng/ul | 100 |
| 79) Pyrene | 19.63 | 202 | 478053 | 41.356 | ng/ul | 99 |
| 80) Butylbenzylphthalate | 20.51 | 149 | 28552 | 5.528 | ng/ul | 98 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 258415 | 20.028 | ng/ul | 99 |
| 83) Bis(2-ethylhexyl)phthalate | 21.27 | 149 | 41368 | 5.243 | ng/ul | 98 |
| 84) Chrysene | 21.43 | 228 | 226572 | 18.748 | ng/ul | 99 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 292527 | 25.834 | ng/ul# | 97 |
| 88) Benzo(k)fluoranthene | 23.06 | 252 | 99044m | 9.341 | ng/ul | |
| 90) Benzo(a)pyrene | 23.62 | 252 | 170185 | 15.606 | ng/ul | 98 |
| 91) Indeno(1,2,3-cd)pyrene | 26.07 | 276 | 122363 | 8.608 | ng/ul | 94 |
| 92) Dibenzo(a,h)anthracene | 26.07 | 278 | 33760 | 2.857 | ng/ul# | 83 |
| 93) Benzo(g,h,i)perylene | 26.81 | 276 | 115483 | 9.706 | ng/ul | 99 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T9

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 45 | rVB | 61102 | 73517 | 5.03% | 0.431% |
| 2 | 5.322 | 392 | 397 | 402 | rBB | 20603 | 26852 | 1.84% | 0.157% |
| 3 | 5.805 | 474 | 479 | 484 | rBB | 12661 | 17919 | 1.23% | 0.105% |
| 4 | 7.816 | 816 | 821 | 828 | rBB | 108197 | 164764 | 11.27% | 0.966% |
| 5 | 10.616 | 1290 | 1297 | 1302 | rBV | 169446 | 280532 | 19.18% | 1.644% |
| 6 | 12.563 | 1623 | 1628 | 1644 | rBV3 | 5902 | 16036 | 1.10% | 0.094% |
| 7 | 14.181 | 1899 | 1903 | 1910 | rBB | 16962 | 24091 | 1.65% | 0.141% |
| 8 | 14.457 | 1943 | 1950 | 1957 | rBV2 | 336434 | 488834 | 33.43% | 2.865% |
| 9 | 14.522 | 1957 | 1961 | 1966 | rVB | 19551 | 27395 | 1.87% | 0.161% |
| 10 | 14.857 | 2011 | 2018 | 2024 | rBB2 | 15340 | 24006 | 1.64% | 0.141% |
| 11 | 15.510 | 2123 | 2129 | 2136 | rBB | 24167 | 37396 | 2.56% | 0.219% |
| 12 | 15.945 | 2199 | 2203 | 2209 | rBV | 11781 | 20782 | 1.42% | 0.122% |
| 13 | 16.540 | 2301 | 2304 | 2310 | rVB2 | 17474 | 23066 | 1.58% | 0.135% |
| 14 | 16.698 | 2327 | 2331 | 2334 | rBV | 33498 | 40134 | 2.74% | 0.235% |
| 15 | 16.798 | 2340 | 2348 | 2355 | rVB | 87228 | 131084 | 8.96% | 0.768% |
| 16 | 16.863 | 2355 | 2359 | 2365 | rVB | 16462 | 24410 | 1.67% | 0.143% |
| 17 | 16.945 | 2365 | 2373 | 2377 | rBV2 | 77249 | 111863 | 7.65% | 0.656% |
| 18 | 17.028 | 2381 | 2387 | 2389 | rVV | 20011 | 34692 | 2.37% | 0.203% |
| 19 | 17.051 | 2389 | 2391 | 2398 | rVB2 | 27551 | 39490 | 2.70% | 0.231% |
| 20 | 17.204 | 2411 | 2417 | 2421 | rBV2 | 338524 | 521971 | 35.70% | 3.060% |
| 21 | 17.251 | 2421 | 2425 | 2431 | rVB | 529617 | 715566 | 48.93% | 4.194% |
| 22 | 17.339 | 2435 | 2440 | 2444 | rBV | 122312 | 163280 | 11.17% | 0.957% |
| 23 | 17.622 | 2483 | 2488 | 2493 | rBV2 | 14779 | 29408 | 2.01% | 0.172% |
| 24 | 17.716 | 2500 | 2504 | 2509 | rBV2 | 15477 | 22198 | 1.52% | 0.130% |
| 25 | 17.798 | 2511 | 2518 | 2523 | rVV3 | 48890 | 91686 | 6.27% | 0.537% |
| 26 | 17.916 | 2534 | 2538 | 2544 | rVB3 | 10388 | 18160 | 1.24% | 0.106% |
| 27 | 18.075 | 2556 | 2565 | 2570 | rBV | 69989 | 125332 | 8.57% | 0.735% |
| 28 | 18.128 | 2570 | 2574 | 2582 | rVV2 | 89527 | 138974 | 9.50% | 0.815% |
| 29 | 18.210 | 2583 | 2588 | 2593 | rVV | 32667 | 50128 | 3.43% | 0.294% |
| 30 | 18.275 | 2593 | 2599 | 2603 | rVV3 | 106266 | 216400 | 14.80% | 1.268% |
| 31 | 18.316 | 2603 | 2606 | 2611 | rVV2 | 55968 | 81028 | 5.54% | 0.475% |
| 32 | 18.363 | 2611 | 2614 | 2622 | rVB4 | 15572 | 27324 | 1.87% | 0.160% |
| 33 | 18.545 | 2642 | 2645 | 2647 | rBV | 27799 | 32525 | 2.22% | 0.191% |
| 34 | 18.575 | 2647 | 2650 | 2656 | rVV | 55584 | 86023 | 5.88% | 0.504% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T9

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 18.634 | 2656 | 2660 | 2667 | rVB2 | 26427 | 45813 | 3.13% | 0.269% |
| 36 | 18.728 | 2673 | 2676 | 2679 | rVB2 | 19062 | 20681 | 1.41% | 0.121% |
| 37 | 18.822 | 2689 | 2692 | 2697 | rVB3 | 17651 | 21293 | 1.46% | 0.125% |
| 38 | 18.875 | 2698 | 2701 | 2705 | rVB | 14866 | 16788 | 1.15% | 0.098% |
| 39 | 18.992 | 2717 | 2721 | 2725 | rBV | 37923 | 55666 | 3.81% | 0.326% |
| 40 | 19.045 | 2725 | 2730 | 2732 | rBV4 | 19190 | 31799 | 2.17% | 0.186% |
| 41 | 19.086 | 2735 | 2737 | 2739 | rBV | 21720 | 19644 | 1.34% | 0.115% |
| 42 | 19.110 | 2739 | 2741 | 2745 | rVV2 | 14380 | 24984 | 1.71% | 0.146% |
| 43 | 19.269 | 2761 | 2768 | 2774 | rBV | 1052770 | 1406233 | 96.17% | 8.243% |
| 44 | 19.316 | 2774 | 2776 | 2781 | rBV3 | 15848 | 33085 | 2.26% | 0.194% |
| 45 | 19.392 | 2786 | 2789 | 2797 | rVV3 | 60745 | 103552 | 7.08% | 0.607% |
| 46 | 19.457 | 2797 | 2800 | 2803 | rVV3 | 15027 | 20498 | 1.40% | 0.120% |
| 47 | 19.498 | 2803 | 2807 | 2815 | rVV3 | 50031 | 98615 | 6.74% | 0.578% |
| 48 | 19.598 | 2817 | 2824 | 2826 | rVV2 | 142518 | 243820 | 16.67% | 1.429% |
| 49 | 19.633 | 2826 | 2830 | 2837 | rVB | 801268 | 1092912 | 74.74% | 6.406% |
| 50 | 19.698 | 2837 | 2841 | 2845 | rBV | 44236 | 62015 | 4.24% | 0.364% |
| 51 | 19.810 | 2856 | 2860 | 2863 | rBV | 49678 | 69438 | 4.75% | 0.407% |
| 52 | 19.845 | 2863 | 2866 | 2870 | rVB | 28654 | 33735 | 2.31% | 0.198% |
| 53 | 19.963 | 2879 | 2886 | 2889 | rBV2 | 78495 | 153445 | 10.49% | 0.899% |
| 54 | 20.104 | 2902 | 2910 | 2917 | rBV5 | 141084 | 374826 | 25.63% | 2.197% |
| 55 | 20.222 | 2927 | 2930 | 2934 | rBV | 48576 | 55212 | 3.78% | 0.324% |
| 56 | 20.281 | 2934 | 2940 | 2945 | rBV2 | 76458 | 158862 | 10.86% | 0.931% |
| 57 | 20.381 | 2953 | 2957 | 2960 | rVB | 113270 | 137900 | 9.43% | 0.808% |
| 58 | 20.422 | 2960 | 2964 | 2969 | rBV3 | 51979 | 105846 | 7.24% | 0.620% |
| 59 | 20.469 | 2969 | 2972 | 2975 | rVV | 54543 | 66132 | 4.52% | 0.388% |
| 60 | 20.510 | 2976 | 2979 | 2982 | rVV | 92215 | 107145 | 7.33% | 0.628% |
| 61 | 20.539 | 2982 | 2984 | 2986 | rVV3 | 56052 | 67890 | 4.64% | 0.398% |
| 62 | 20.563 | 2986 | 2988 | 2992 | rVB | 102004 | 104108 | 7.12% | 0.610% |
| 63 | 20.680 | 3004 | 3008 | 3009 | rBV3 | 48022 | 63004 | 4.31% | 0.369% |
| 64 | 20.698 | 3009 | 3011 | 3017 | rVB3 | 79062 | 104503 | 7.15% | 0.613% |
| 65 | 20.810 | 3026 | 3030 | 3033 | rBV | 192872 | 226245 | 15.47% | 1.326% |
| 66 | 20.839 | 3033 | 3035 | 3038 | rVB2 | 35523 | 35883 | 2.45% | 0.210% |
| 67 | 20.875 | 3038 | 3041 | 3044 | rBV | 74816 | 79944 | 5.47% | 0.469% |
| 68 | 21.039 | 3065 | 3069 | 3071 | rBV2 | 78673 | 98983 | 6.77% | 0.580% |
| 69 | 21.075 | 3071 | 3075 | 3079 | rVV2 | 397885 | 471906 | 32.27% | 2.766% |
| 70 | 21.116 | 3079 | 3082 | 3087 | rVV | 107259 | 137082 | 9.37% | 0.804% |
| 71 | 21.175 | 3089 | 3092 | 3098 | rVB | 90241 | 119763 | 8.19% | 0.702% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T9

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 72 | 21.275 | 3106 | 3109 | 3114 | rVB2 | 134808 | 159873 | 10.93% | 0.937% |
| 73 | 21.392 | 3122 | 3129 | 3133 | rBV2 | 664164 | 1462298 | 100.00% | 8.572% |
| 74 | 21.433 | 3133 | 3136 | 3145 | rVB | 431860 | 582170 | 39.81% | 3.413% |
| 75 | 21.510 | 3145 | 3149 | 3152 | rBV2 | 65842 | 85515 | 5.85% | 0.501% |
| 76 | 21.545 | 3152 | 3155 | 3160 | rVV2 | 306108 | 379262 | 25.94% | 2.223% |
| 77 | 21.598 | 3160 | 3164 | 3168 | rVV | 422053 | 487134 | 33.31% | 2.855% |
| 78 | 21.645 | 3168 | 3172 | 3174 | rVV | 138987 | 183358 | 12.54% | 1.075% |
| 79 | 21.675 | 3174 | 3177 | 3180 | rVV | 141779 | 168349 | 11.51% | 0.987% |
| 80 | 21.722 | 3181 | 3185 | 3189 | rVB3 | 63175 | 97410 | 6.66% | 0.571% |
| 81 | 21.892 | 3212 | 3214 | 3218 | rBV2 | 27965 | 33542 | 2.29% | 0.197% |
| 82 | 21.951 | 3220 | 3224 | 3228 | rVV2 | 90128 | 138767 | 9.49% | 0.813% |
| 83 | 22.010 | 3230 | 3234 | 3241 | rVB3 | 70571 | 114935 | 7.86% | 0.674% |
| 84 | 22.116 | 3250 | 3252 | 3256 | rVB | 54353 | 64185 | 4.39% | 0.376% |
| 85 | 22.345 | 3286 | 3291 | 3295 | rVB | 128050 | 169822 | 11.61% | 0.995% |
| 86 | 22.416 | 3300 | 3303 | 3308 | rBV3 | 45841 | 68519 | 4.69% | 0.402% |
| 87 | 23.016 | 3399 | 3405 | 3410 | rBV | 334216 | 752618 | 51.47% | 4.412% |
| 88 | 23.192 | 3432 | 3435 | 3440 | rVB | 69006 | 103736 | 7.09% | 0.608% |
| 89 | 23.516 | 3485 | 3490 | 3498 | rVB | 226596 | 412139 | 28.18% | 2.416% |
| 90 | 23.616 | 3501 | 3507 | 3514 | rVB | 231099 | 460353 | 31.48% | 2.698% |
| 91 | 23.716 | 3518 | 3524 | 3529 | rBV | 253424 | 480564 | 32.86% | 2.817% |
| 92 | 26.074 | 3917 | 3925 | 3936 | rVB | 130814 | 383534 | 26.23% | 2.248% |
| 93 | 26.810 | 4042 | 4050 | 4063 | rBV | 82792 | 275582 | 18.85% | 1.615% |

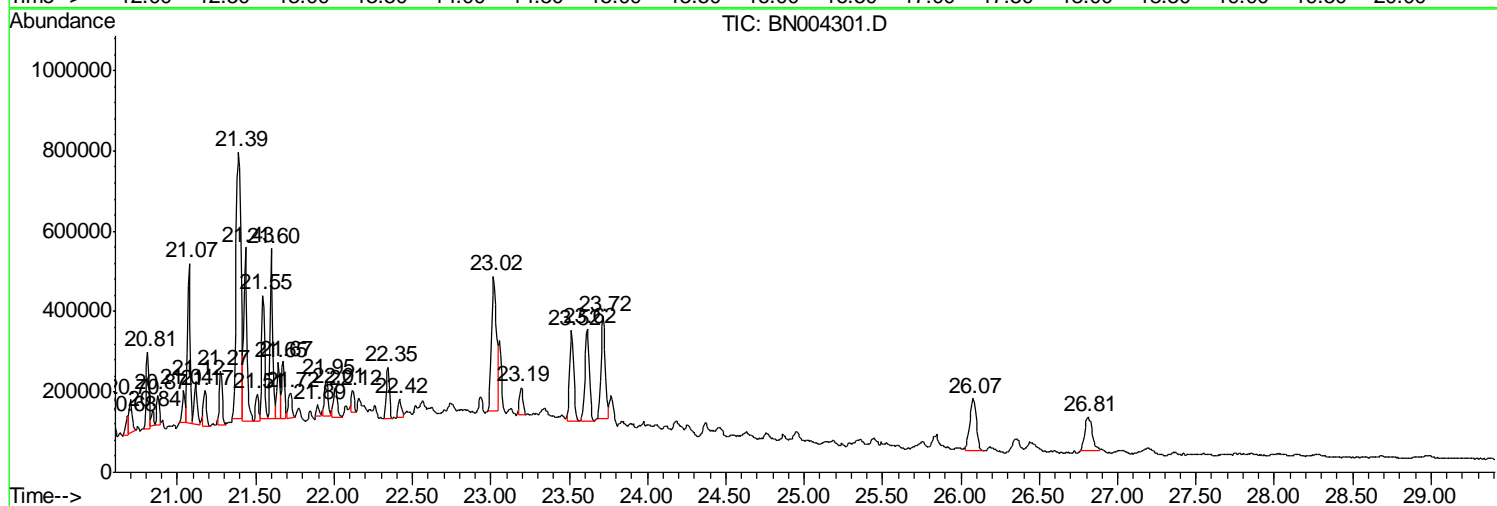
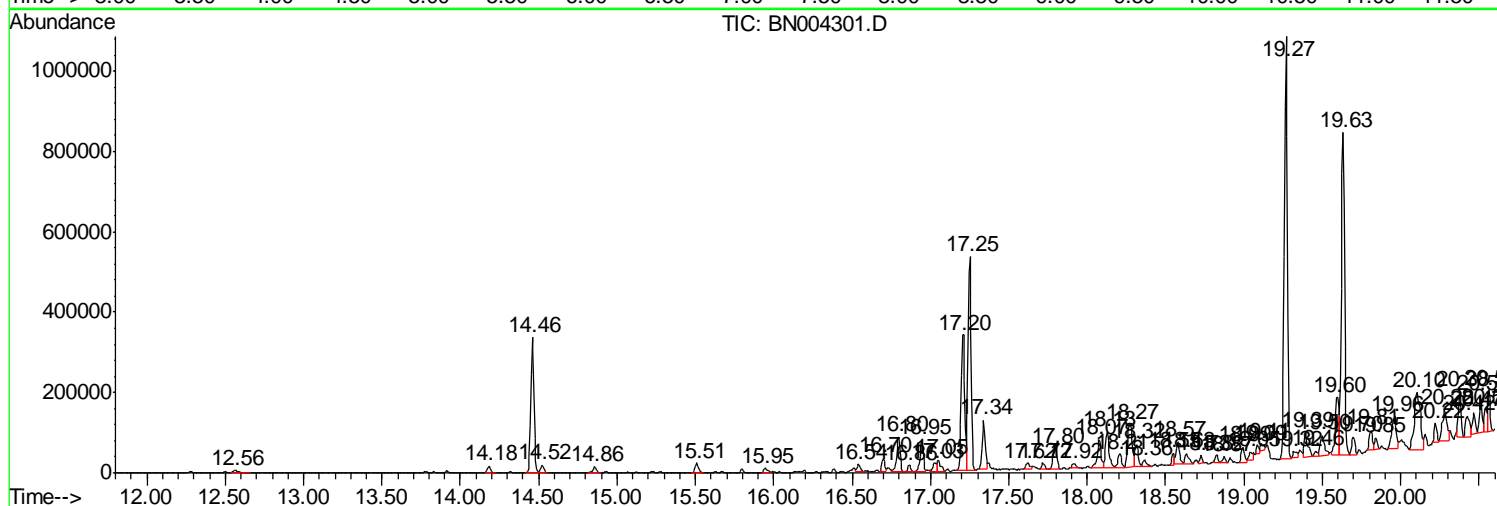
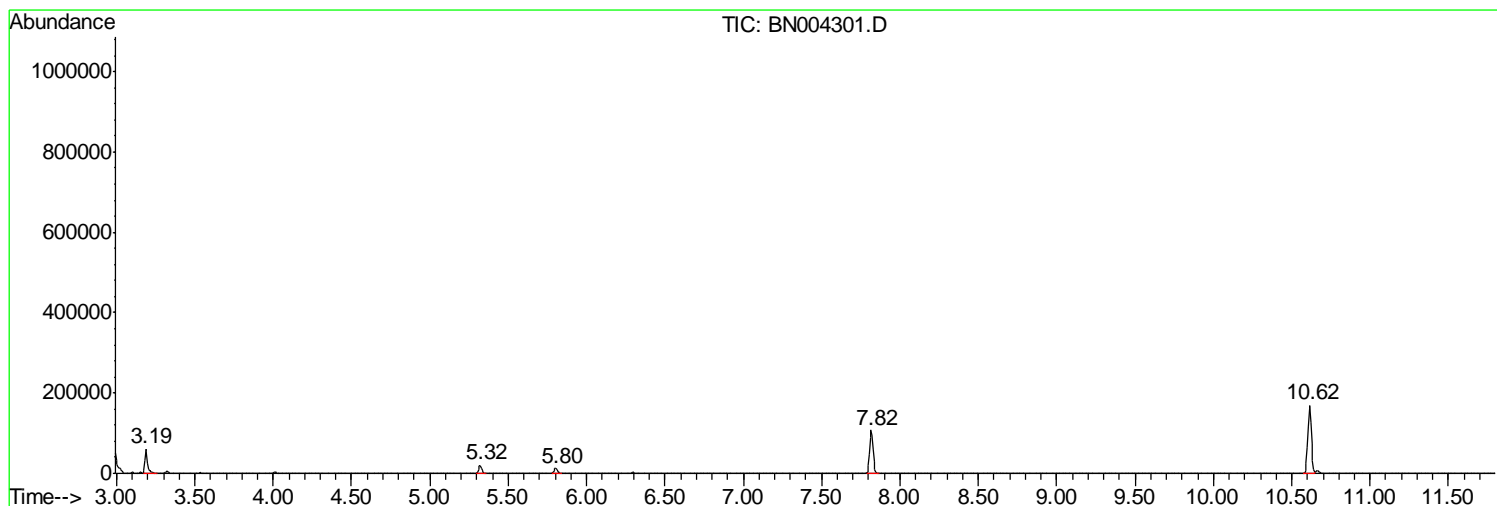
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 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
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TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



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 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
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 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
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 ClientSampleID :
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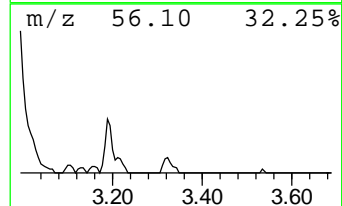
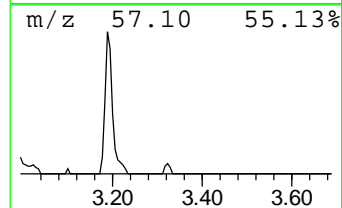
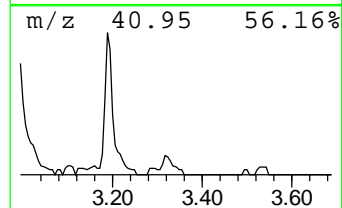
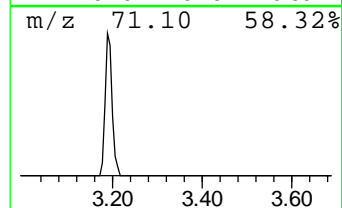
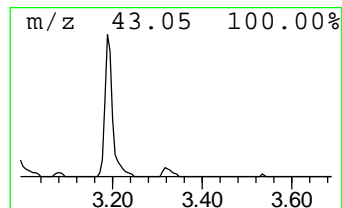
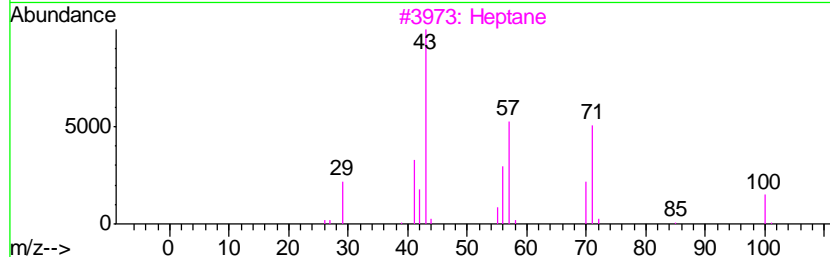
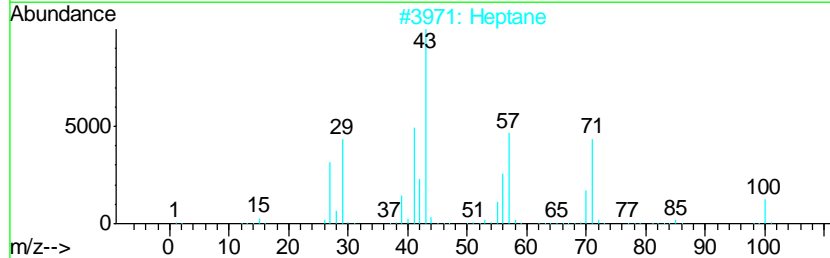
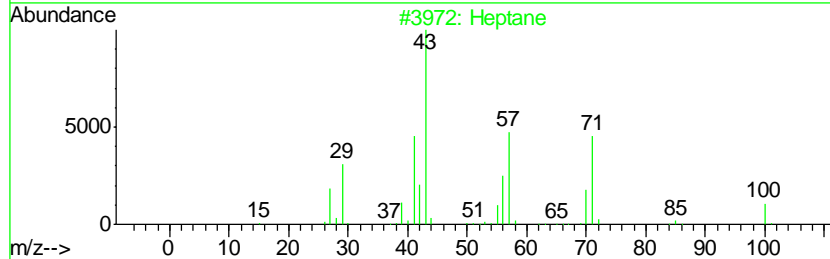
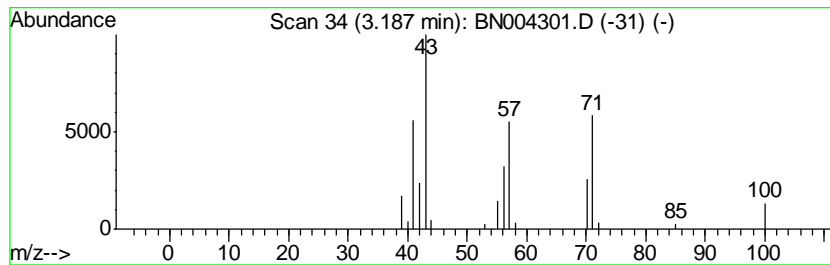
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 3.19 | 8.92 ng/ul | 73517 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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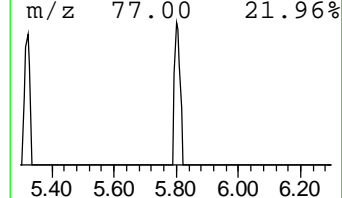
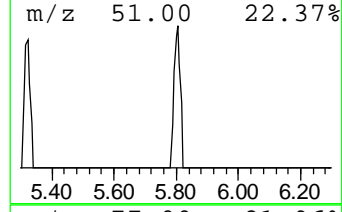
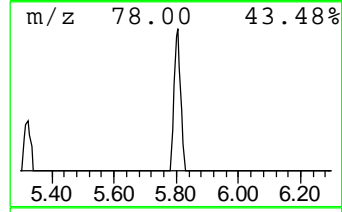
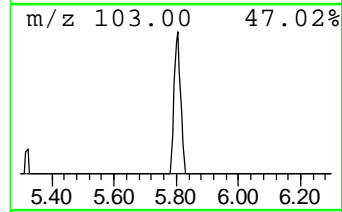
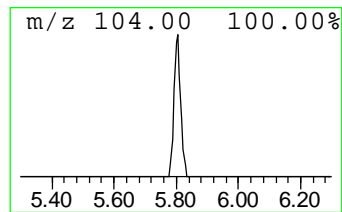
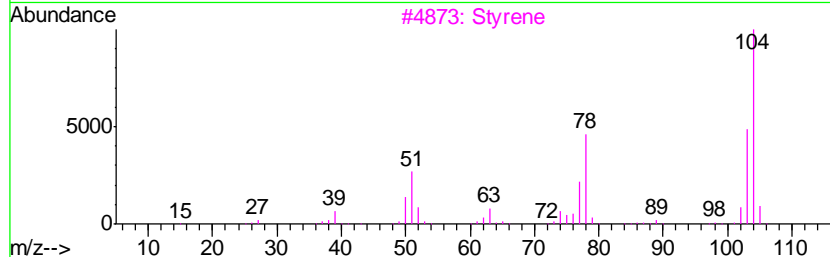
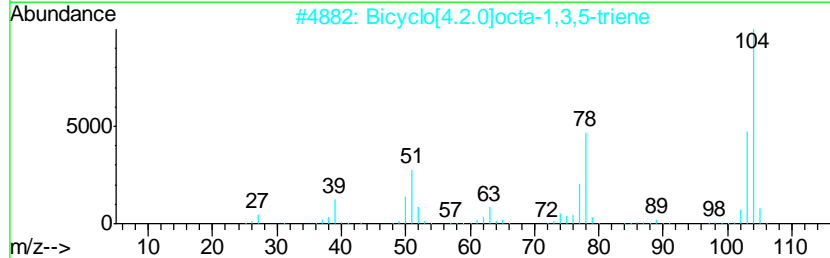
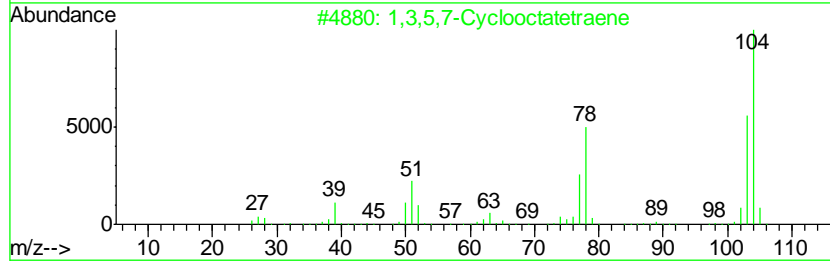
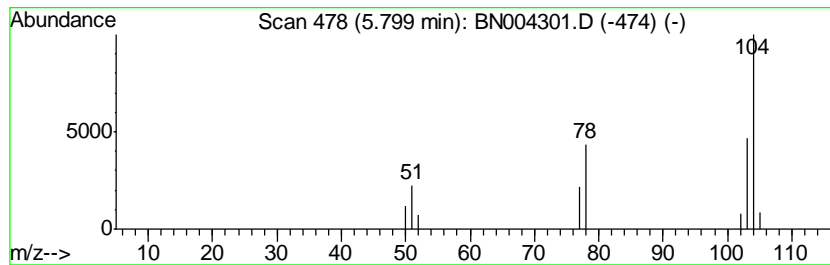
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 1,3,5,7-Cyclooctatetraene Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 5.80 | 2.18 ng/ul | 17919 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1 | 5 | 1,3,5,7-Cyclooctatetraene | 104 | C8H8 | 000629-20-9 | 91 |
| 2 | | Bicyclo[4.2.0]octa-1,3,5-triene | 104 | C8H8 | 000694-87-1 | 91 |
| 3 | | Styrene | 104 | C8H8 | 000100-42-5 | 91 |
| 4 | | 1,3,5,7-Cyclooctatetraene | 104 | C8H8 | 000629-20-9 | 91 |
| 5 | | Styrene | 104 | C8H8 | 000100-42-5 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
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 ALS Vial : 37 Sample Multiplier: 1

Instrument :
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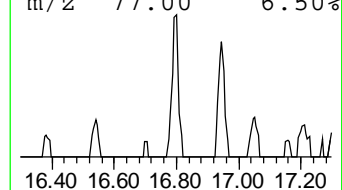
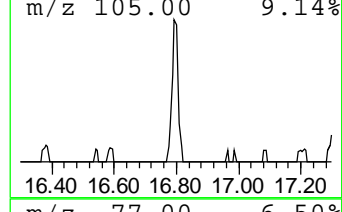
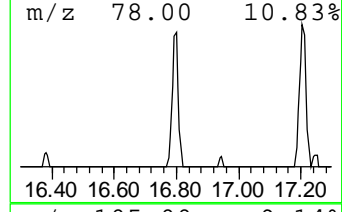
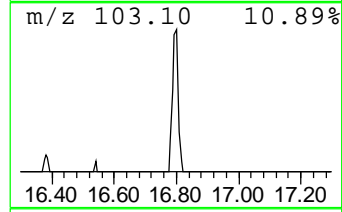
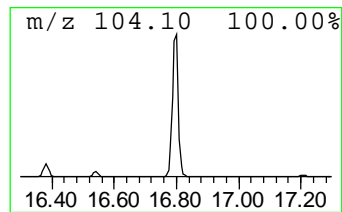
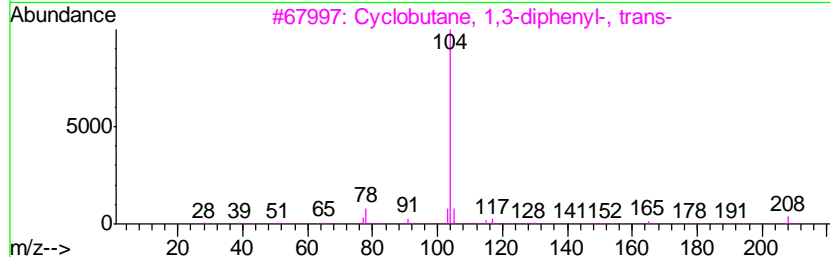
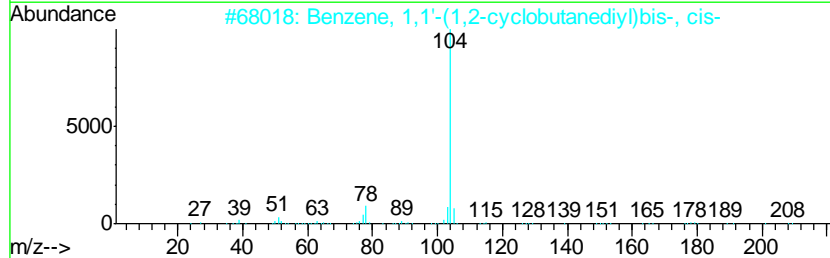
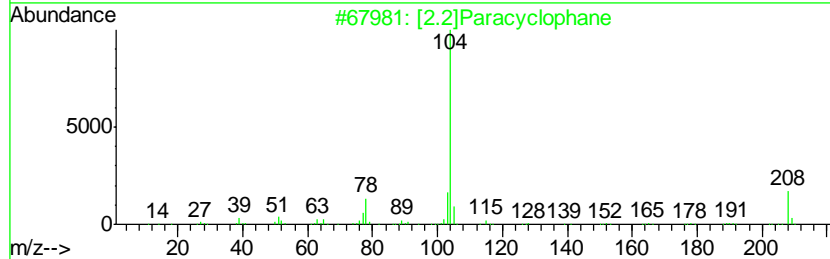
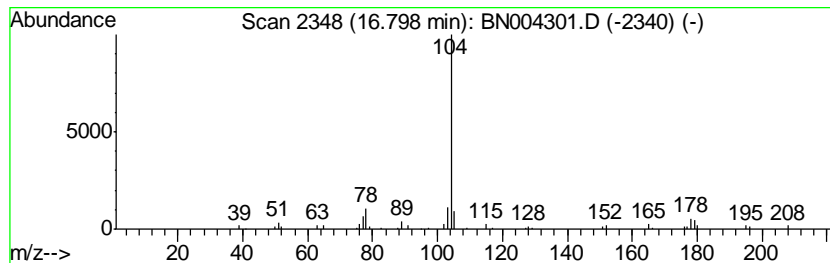
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 [2.2]Paracyclophane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 16.80 | 5.02 ng/ul | 131084 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | [2.2]Paracyclophane | 208 | C16H16 | 001633-22-3 | 72 |
| 2 | | Benzene, 1,1'-(1,2-cyclobutanedi... | 208 | C16H16 | 007694-30-6 | 72 |
| 3 | | Cyclobutane, 1,3-diphenyl-, trans- | 208 | C16H16 | 025558-23-0 | 72 |
| 4 | | [2.2]Paracyclophane | 208 | C16H16 | 001633-22-3 | 72 |
| 5 | | Cyclobutane, 1,2-diphenyl- | 208 | C16H16 | 003018-21-1 | 56 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
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Instrument :
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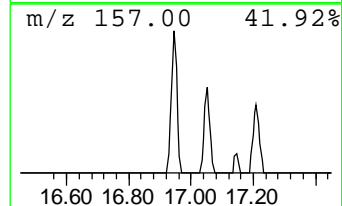
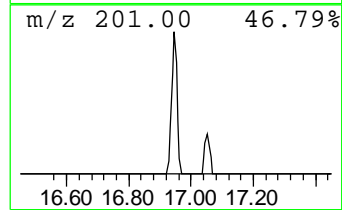
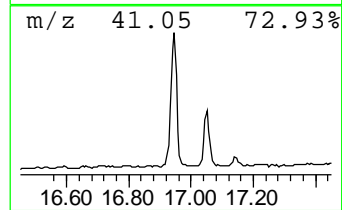
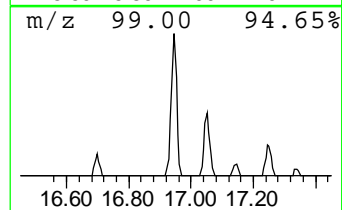
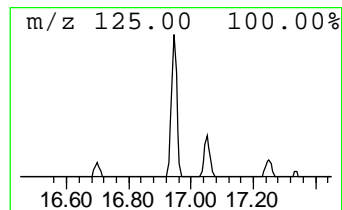
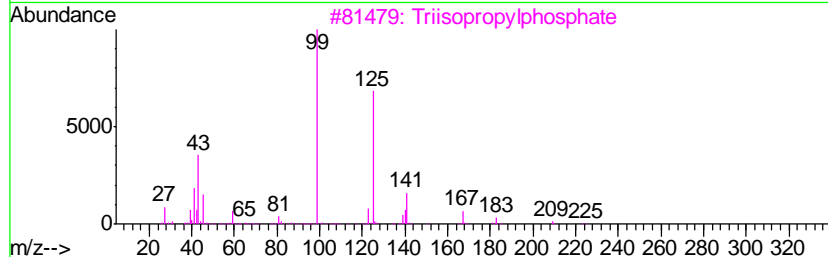
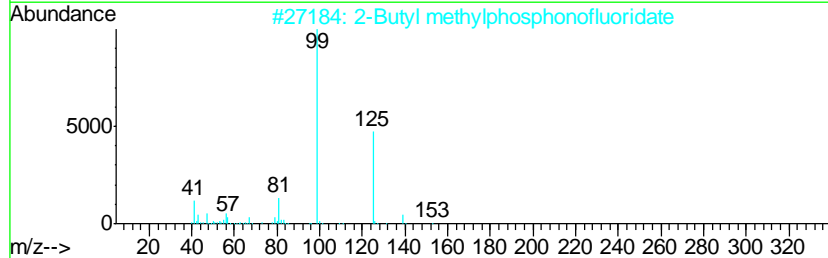
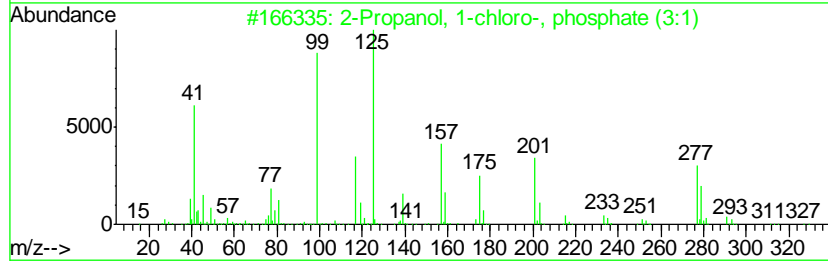
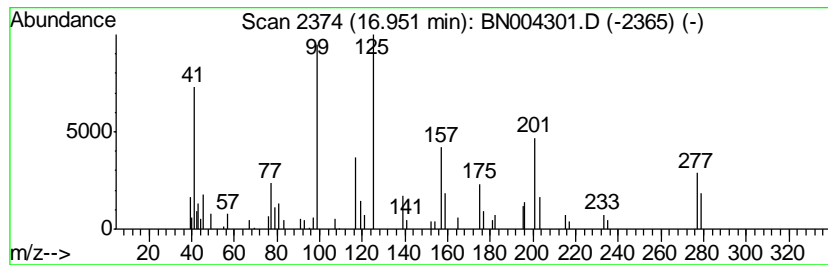
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TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 2-Propanol, 1-chloro-, phos... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 16.95 | 4.29 ng/ul | 111863 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1 | 5 | 2-Propanol, 1-chloro-, phosphate... | 326 | C9H18Cl3O4P | 013674-84-5 | 90 |
| 2 | | 2-Butyl methylphosphonofluoridate | 154 | C5H12FO2P | 000352-52-3 | 17 |
| 3 | | Triisopropylphosphate | 224 | C9H21O4P | 000513-02-0 | 17 |
| 4 | | 1,2,5-Oxadiazol-3-amine, 4-[5-(4... | 277 | C11H8ClN5O2 | 1000276-59-0 | 12 |
| 5 | | cis-1,9,12-Trioxadispiro[4.2.4.2... | 270 | C13H18O6 | 1000153-27-5 | 10 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
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Instrument :
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 ClientSampled :
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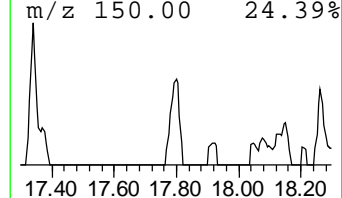
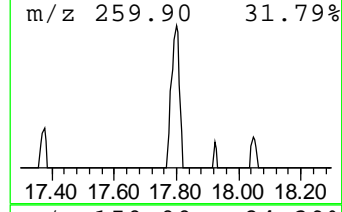
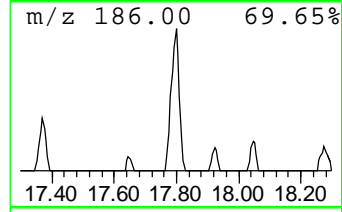
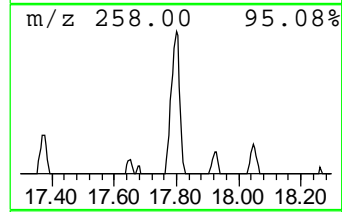
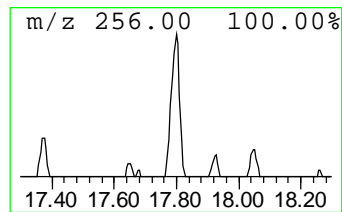
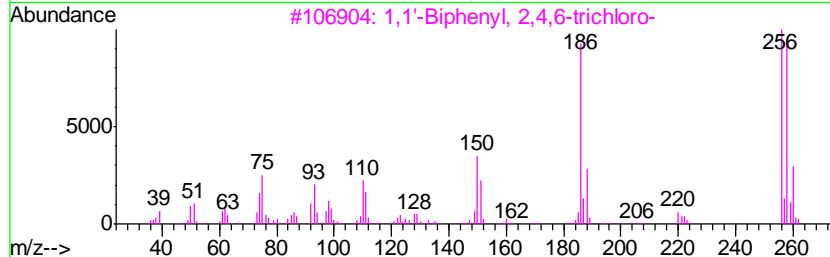
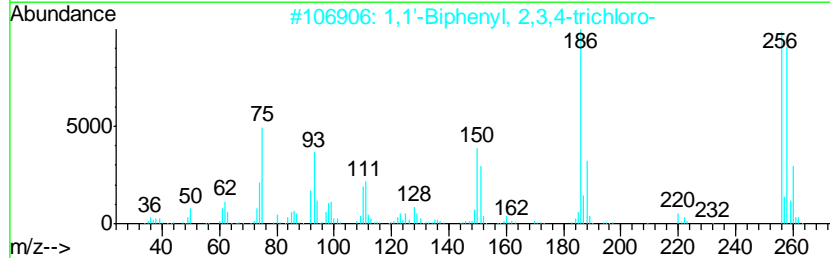
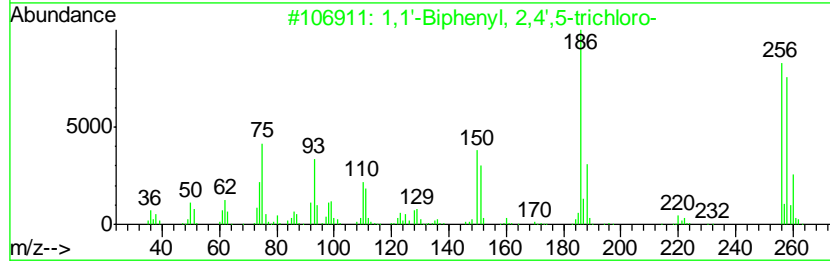
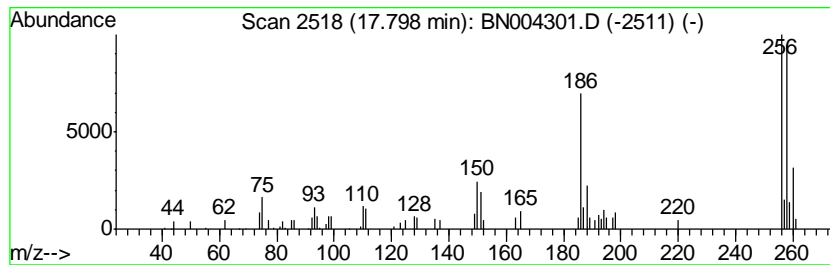
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 1,1'-Biphenyl, 2,4',5-trich... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 17.80 | 3.51 ng/ul | 91686 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,4',5-trichloro- | 256 | C12H7Cl3 | 016606-02-3 | 99 |
| 2 | | 1,1'-Biphenyl, 2,3,4-trichloro- | 256 | C12H7Cl3 | 055702-46-0 | 99 |
| 3 | | 1,1'-Biphenyl, 2,4,6-trichloro- | 256 | C12H7Cl3 | 035693-92-6 | 99 |
| 4 | | 1,1'-Biphenyl, 2,3,4-trichloro- | 256 | C12H7Cl3 | 055702-46-0 | 99 |
| 5 | | 1,1'-Biphenyl, 3,3',5-trichloro- | 256 | C12H7Cl3 | 038444-87-0 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
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 Misc : GCMS Confirmation
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Instrument :
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 ClientSampleID :
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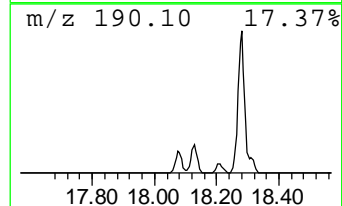
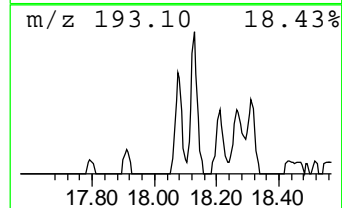
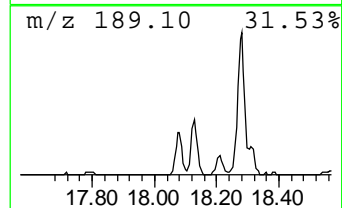
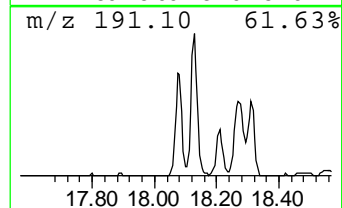
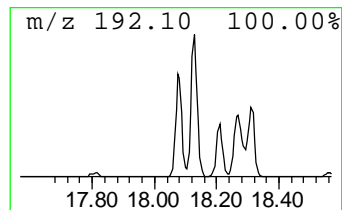
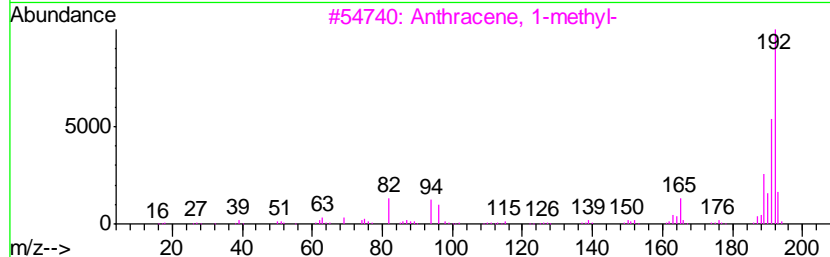
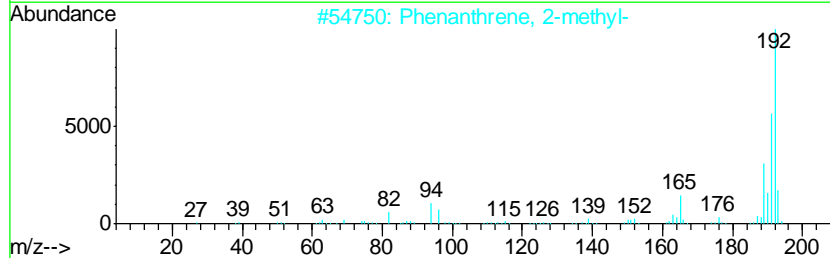
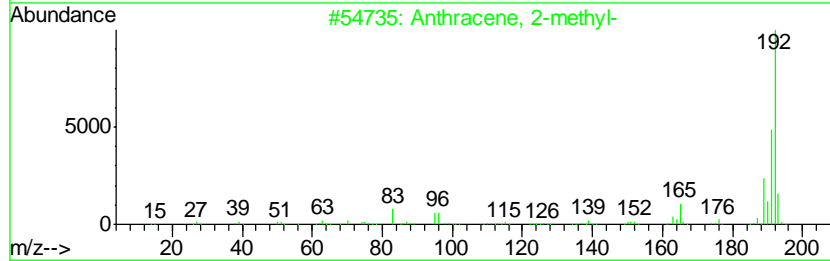
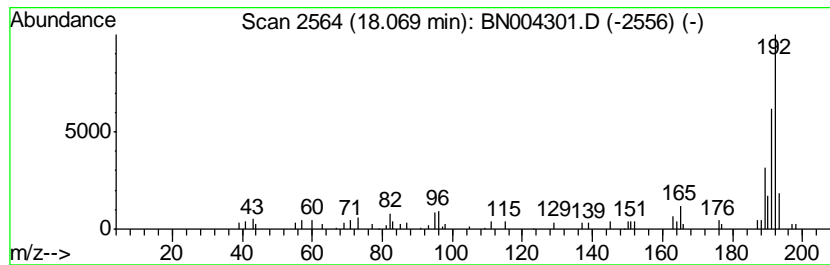
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 7 Anthracene, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.07 | 4.80 ng/ul | 125332 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |
| 4 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 5 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T9

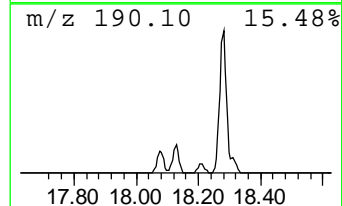
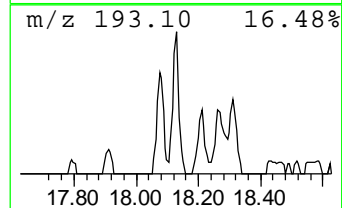
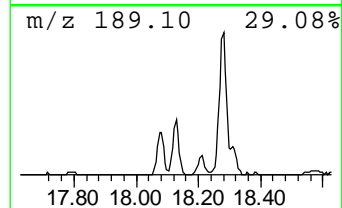
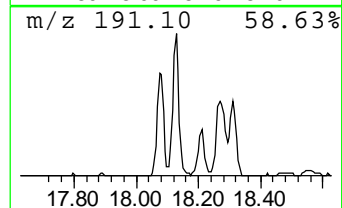
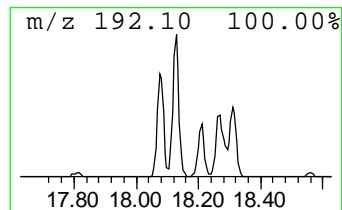
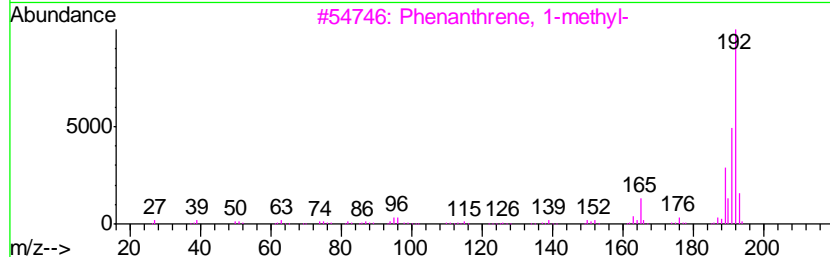
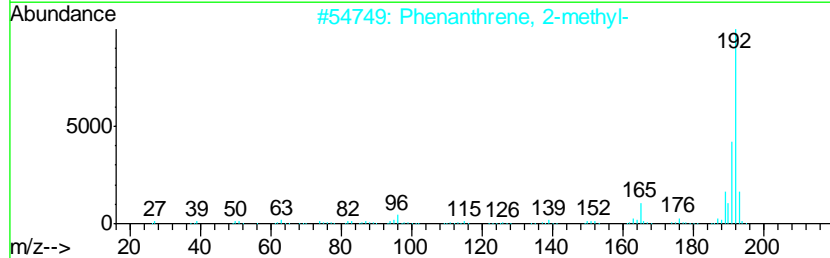
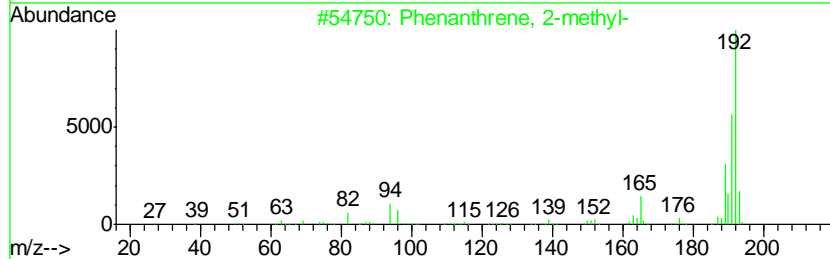
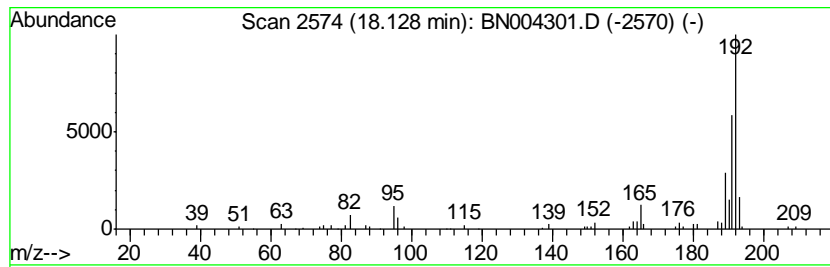
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.13 | 5.32 ng/ul | 138974 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 97 |
| 2 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 96 |
| 5 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T9

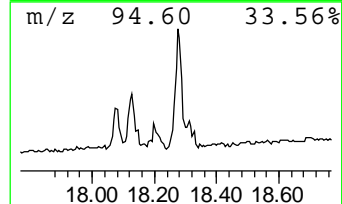
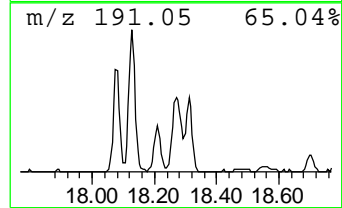
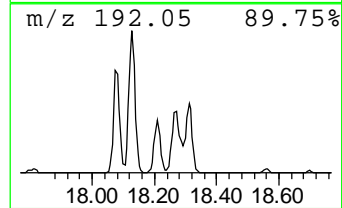
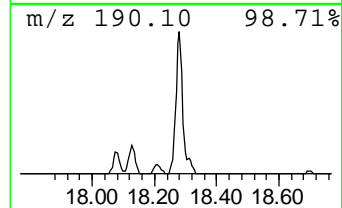
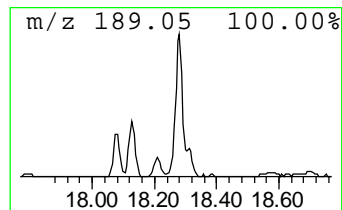
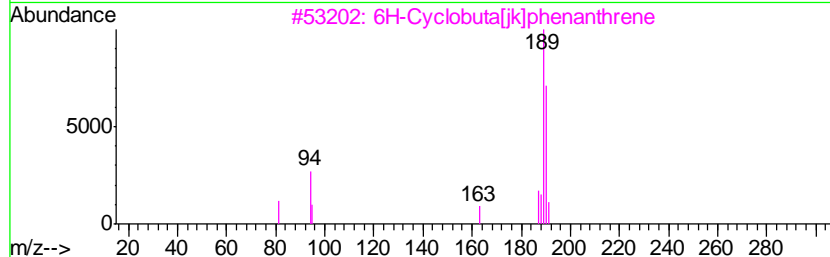
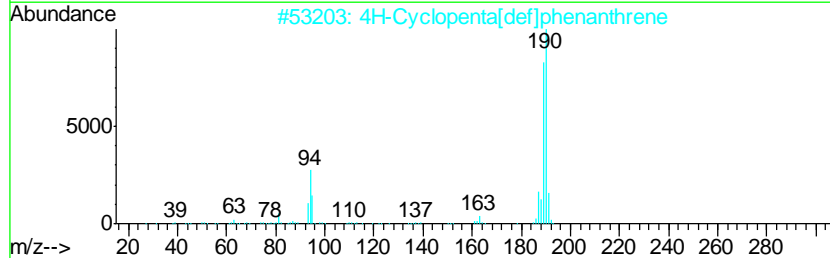
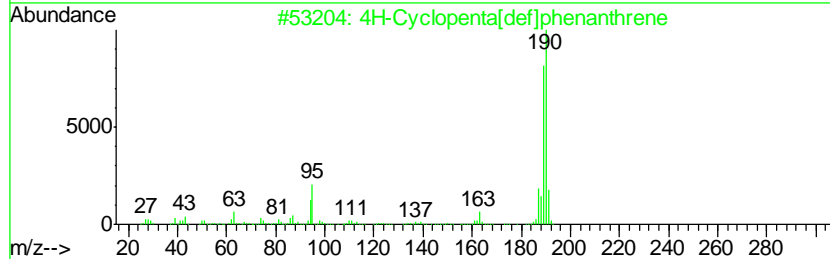
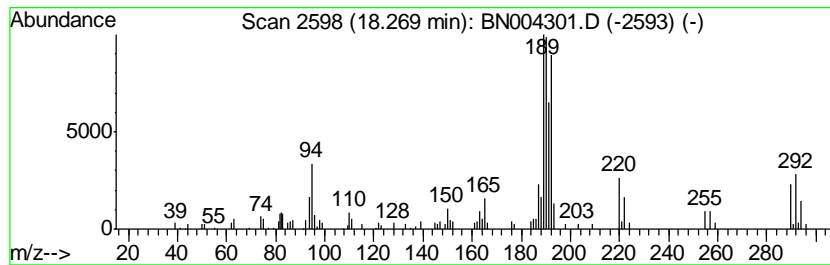
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.27 | 8.29 ng/ul | 216400 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------------------|-----|----------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 2 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 52 |
| 3 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 50 |
| 4 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 43 |
| 5 | | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 37 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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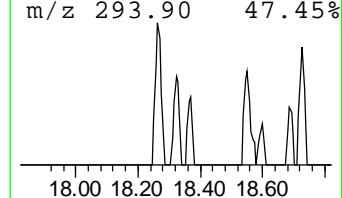
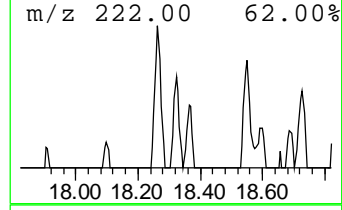
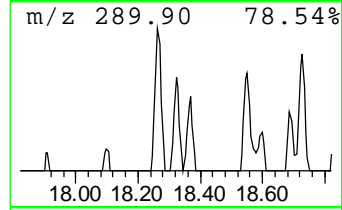
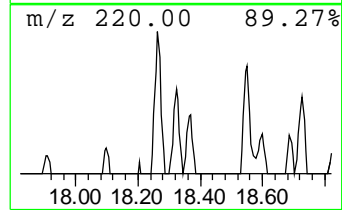
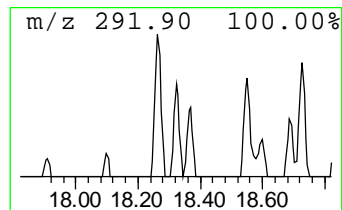
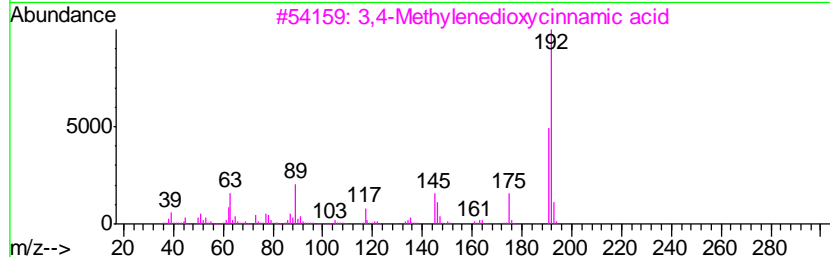
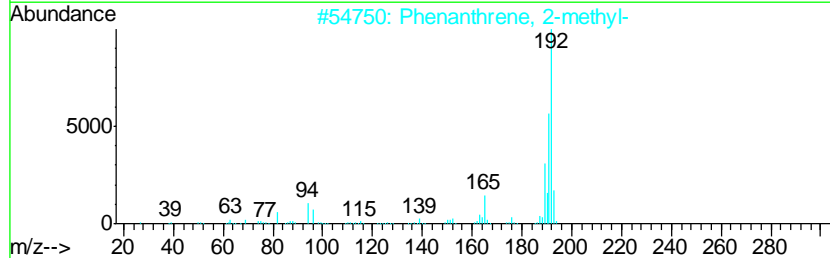
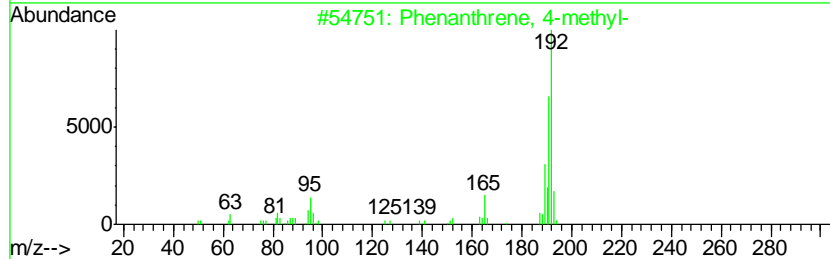
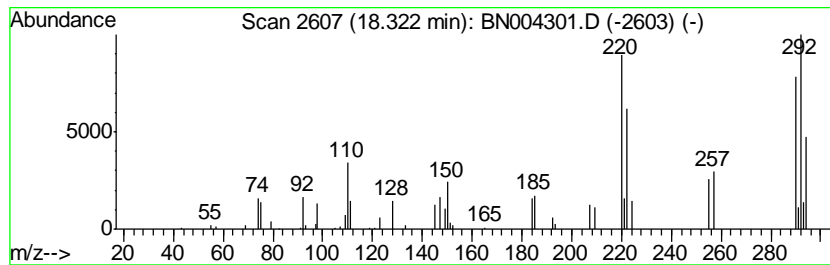
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 10 unknown-01 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.32 | 3.10 ng/ul | 81028 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 45 |
| 2 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 43 |
| 3 | | 3,4-Methylenedioxycinnamic acid | 192 | C10H8O4 | 002373-80-0 | 43 |
| 4 | | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 43 |
| 5 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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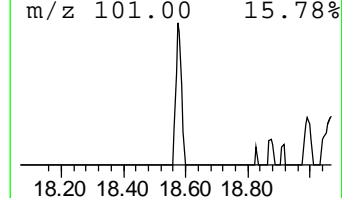
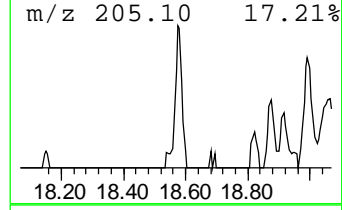
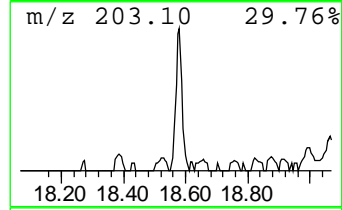
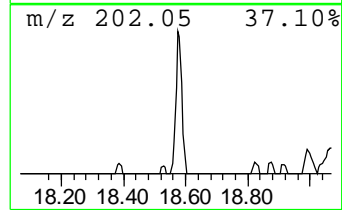
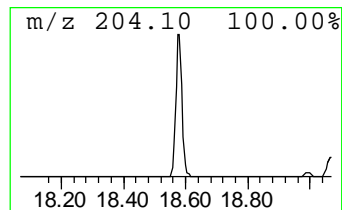
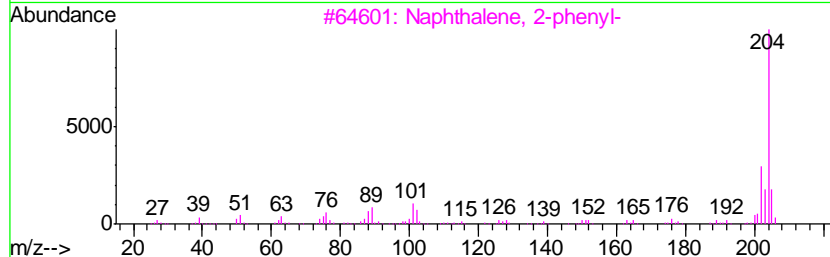
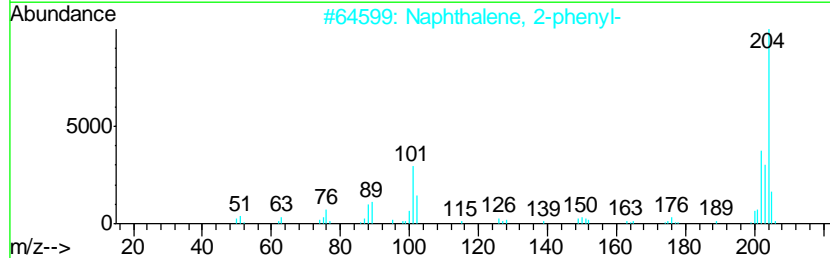
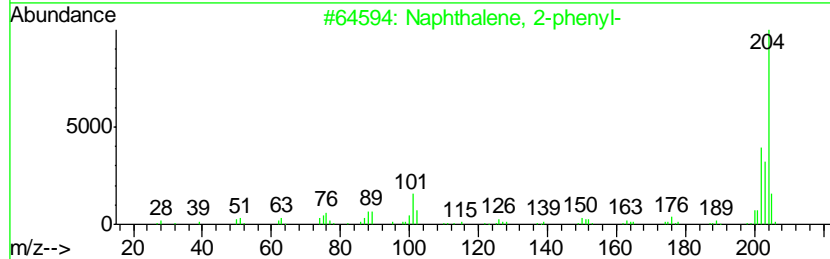
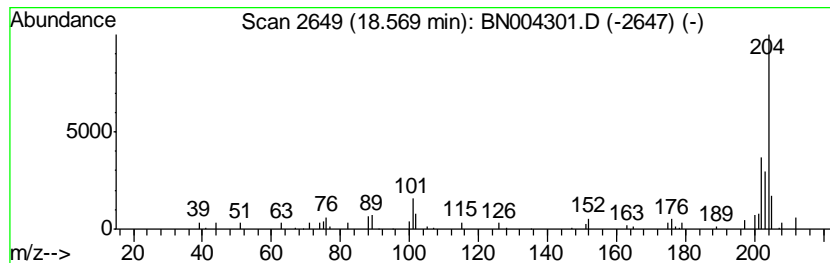
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.57 | 3.30 ng/ul | 86023 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 96 |
| 2 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 93 |
| 3 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 92 |
| 4 | | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 5 | | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 78 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
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 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
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 ClientSampleID :
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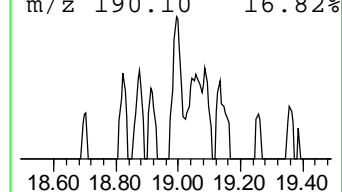
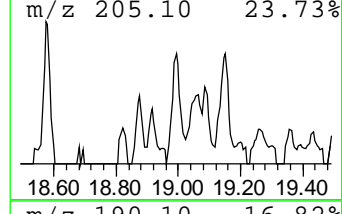
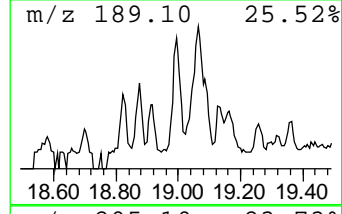
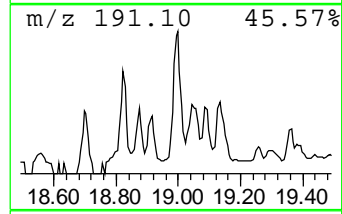
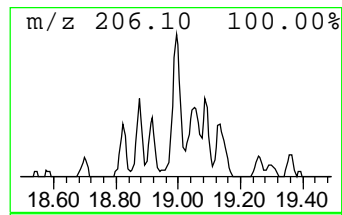
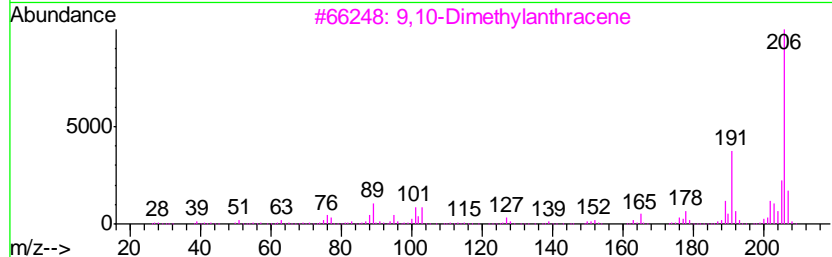
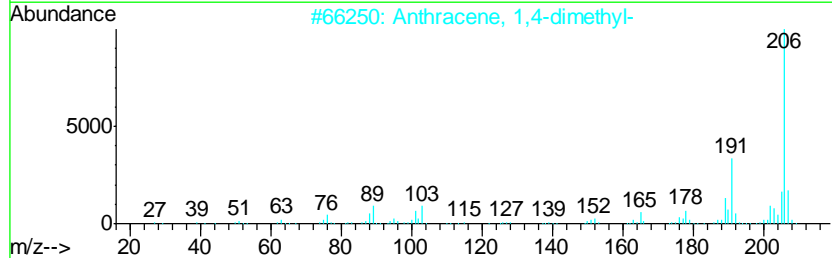
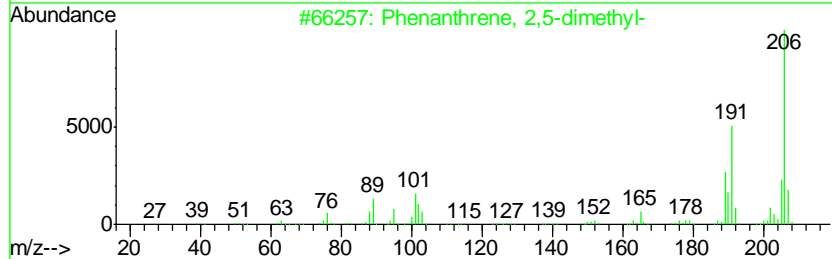
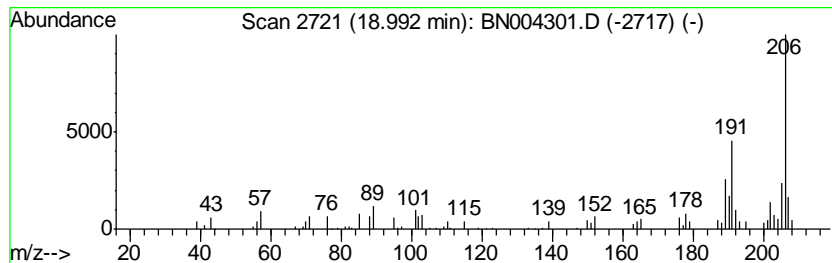
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.99 | 2.13 ng/ul | 55666 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | | Anthracene, 1,4-dimethyl- | 206 | C16H14 | 000781-92-0 | 93 |
| 3 | | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 4 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 5 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
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 ALS Vial : 37 Sample Multiplier: 1

Instrument :
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 ClientSampled :
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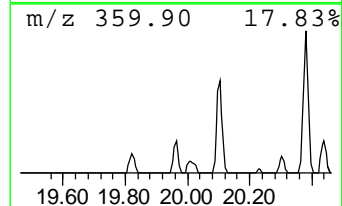
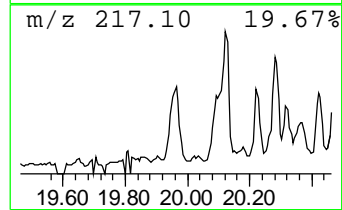
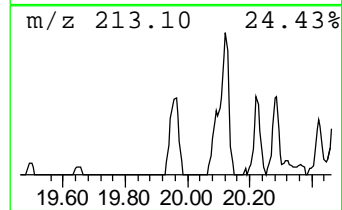
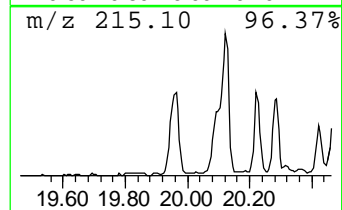
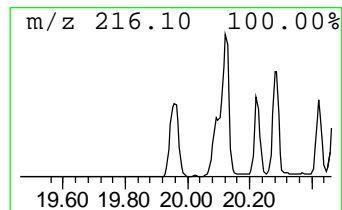
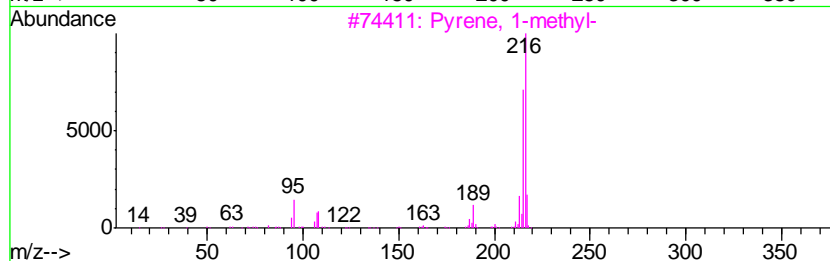
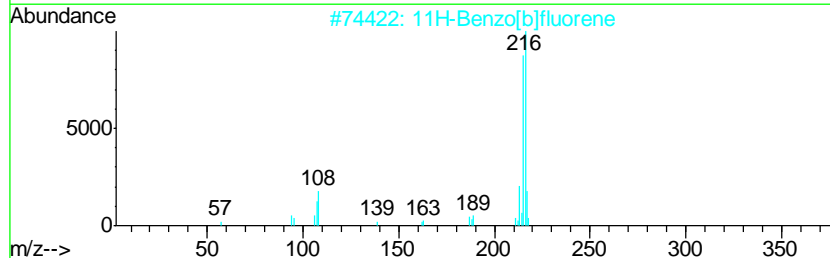
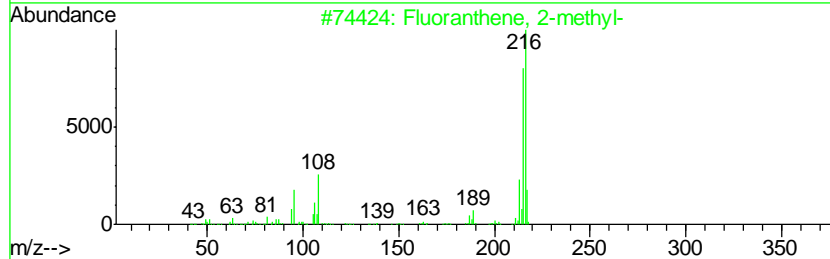
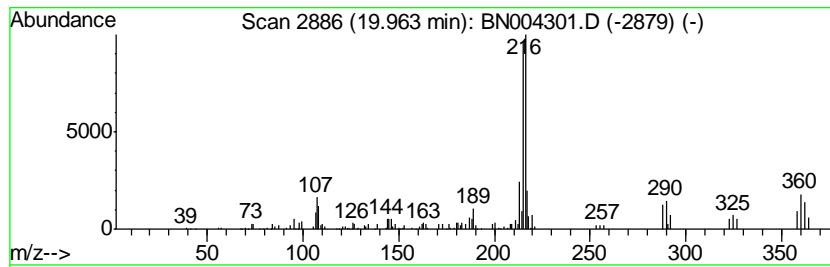
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 13 Fluoranthene, 2-methyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.96 | 2.10 ng/ul | 153445 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 86 |
| 2 | | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 86 |
| 3 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 81 |
| 4 | | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 68 |
| 5 | | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 62 |



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 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T9

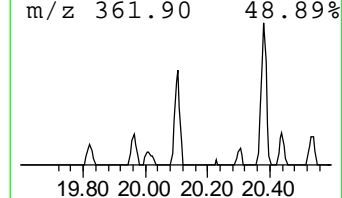
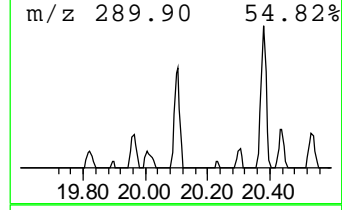
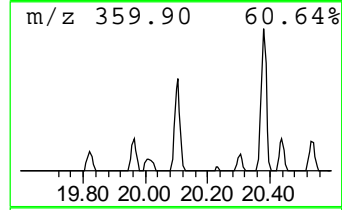
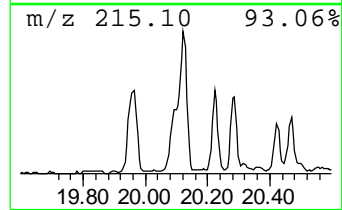
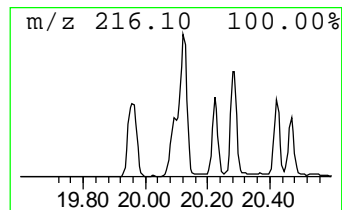
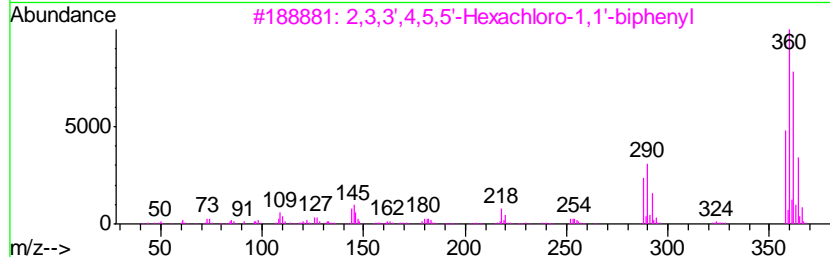
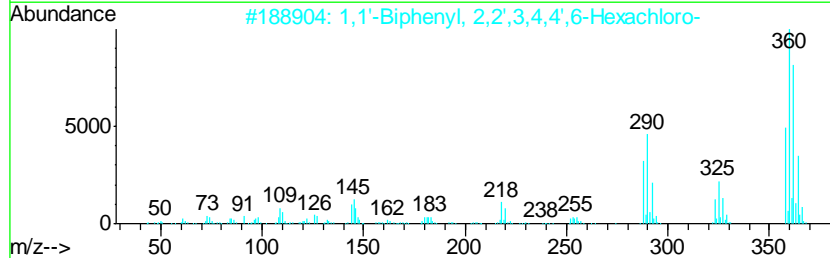
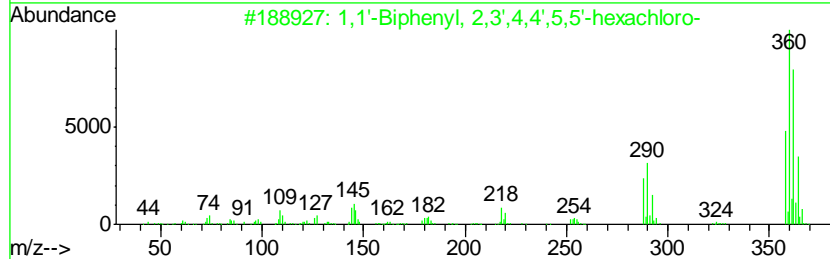
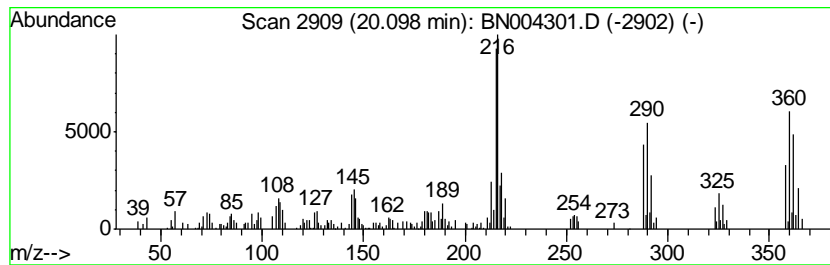
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 14 1,1'-Biphenyl, 2,3',4,4',5,... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.10 | 5.13 ng/ul | 374826 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 052663-72-6 | 97 |
| 2 | | 1,1'-Biphenyl, 2,2',3,4,4',6-Hex... | 358 | C12H4Cl6 | 056030-56-9 | 97 |
| 3 | | 2,3,3',4,5,5'-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 039635-35-3 | 97 |
| 4 | | 2,2',3,5,6,6'-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 068194-09-2 | 97 |
| 5 | | 2,3,3',4,5',6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-43-8 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

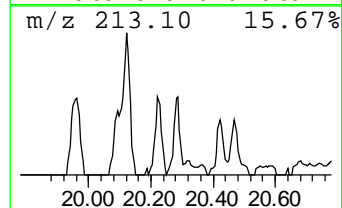
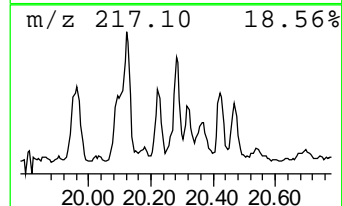
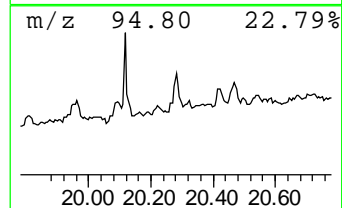
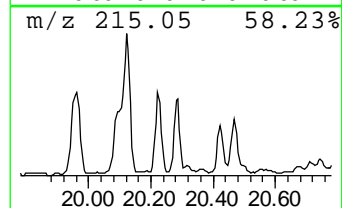
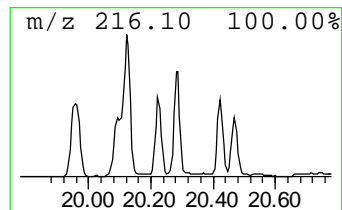
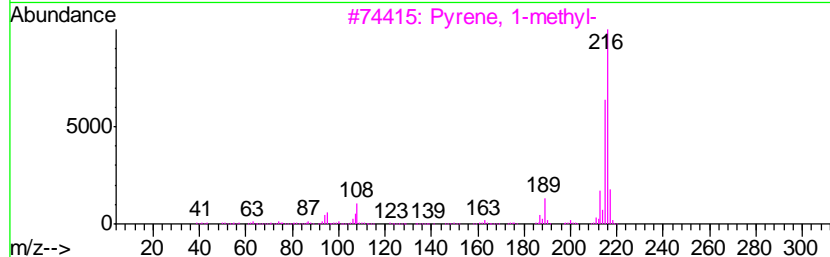
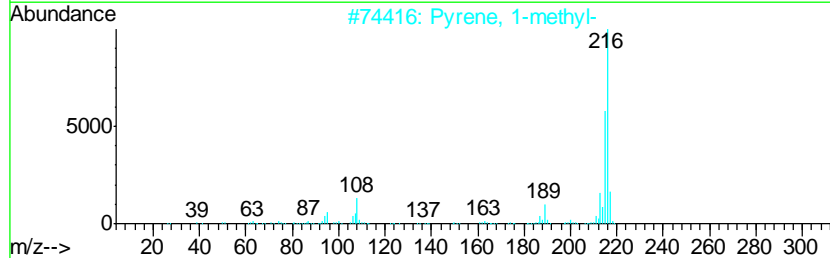
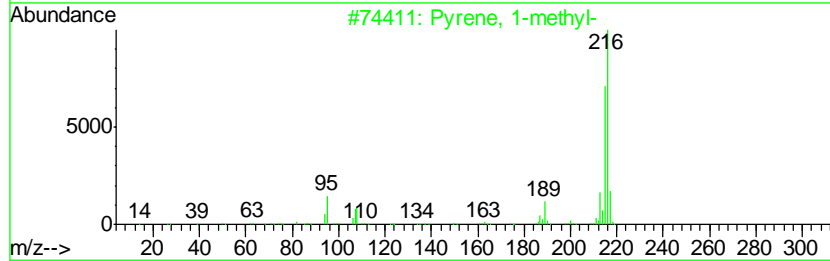
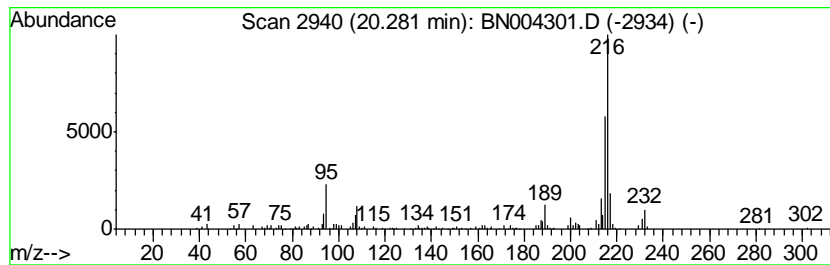
Instrument :
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 ClientSampled :
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 15 Pyrene, 1-methyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---------|------------|-------------------|------------------|----------------|
| 20.28 | 2.17 ng/ul | 158862 | Chrysene-d12 | 21.40 |
| Hit# of | 5 | Tentative ID | MW MolForm | CAS# Qual |
| 1 | | Pyrene, 1-methyl- | 216 C17H12 | 002381-21-7 98 |
| 2 | | Pyrene, 1-methyl- | 216 C17H12 | 002381-21-7 98 |
| 3 | | Pyrene, 1-methyl- | 216 C17H12 | 002381-21-7 98 |
| 4 | | Pyrene, 4-methyl- | 216 C17H12 | 003353-12-6 96 |
| 5 | | Pyrene, 2-methyl- | 216 C17H12 | 003442-78-2 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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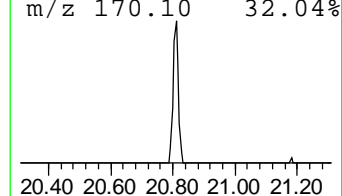
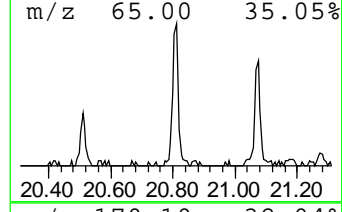
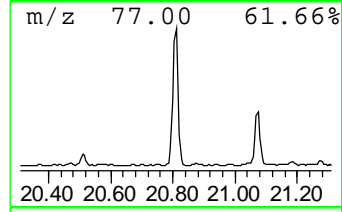
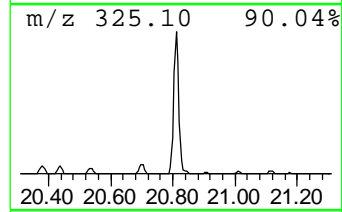
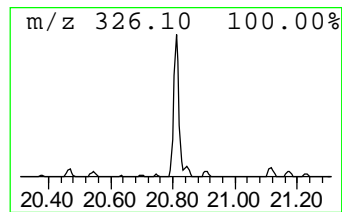
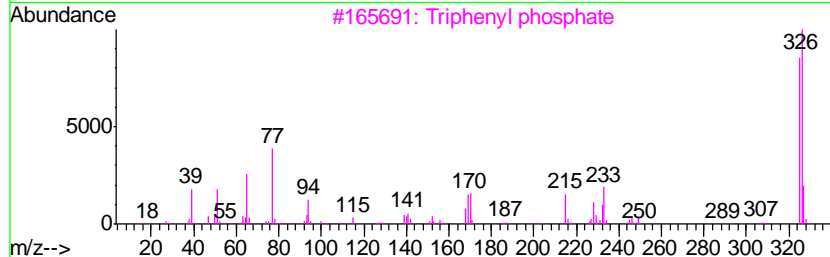
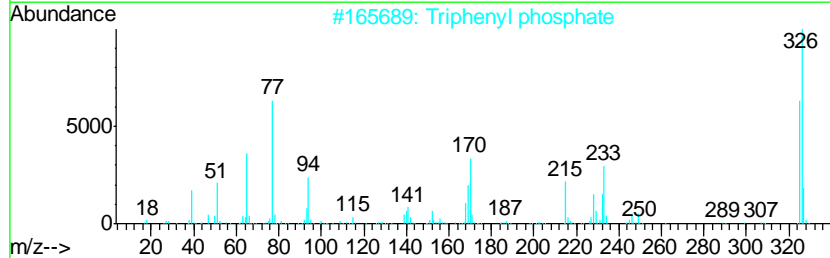
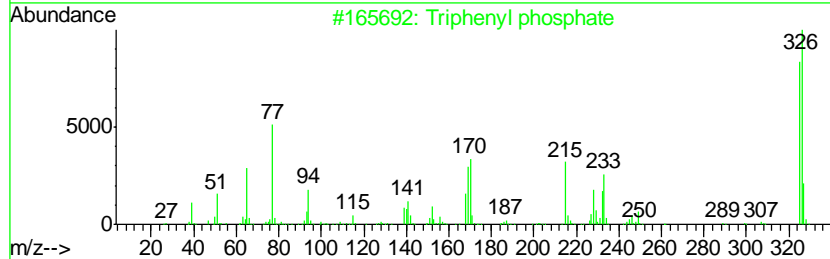
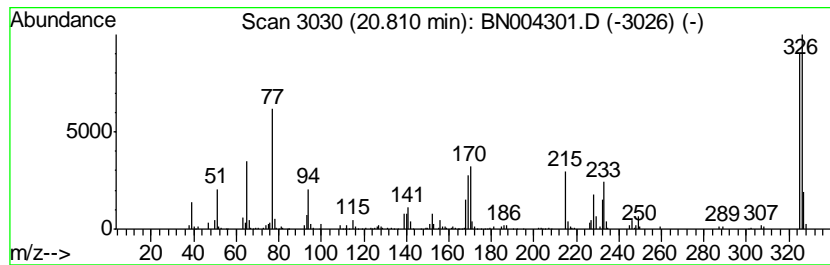
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 16 Triphenyl phosphate Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.81 | 3.09 ng/ul | 226245 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------|-----|-----------|-------------|------|
| 1 | 5 | Triphenyl phosphate | 326 | C18H15O4P | 000115-86-6 | 99 |
| 2 | | Triphenyl phosphate | 326 | C18H15O4P | 000115-86-6 | 99 |
| 3 | | Triphenyl phosphate | 326 | C18H15O4P | 000115-86-6 | 96 |
| 4 | | Triphenyl phosphate | 326 | C18H15O4P | 000115-86-6 | 96 |
| 5 | | Triphenyl phosphate | 326 | C18H15O4P | 000115-86-6 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
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 ALS Vial : 37 Sample Multiplier: 1

Instrument :
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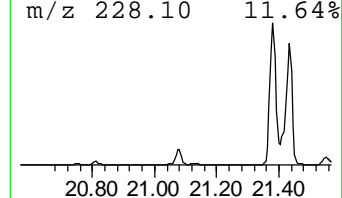
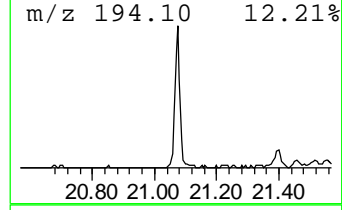
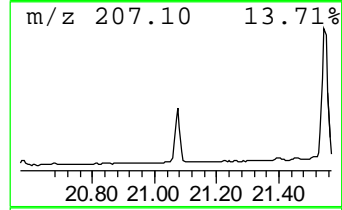
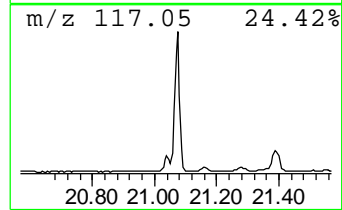
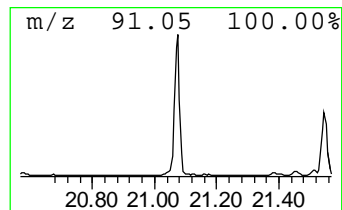
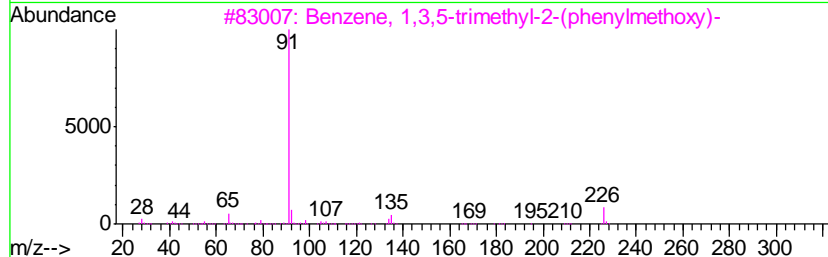
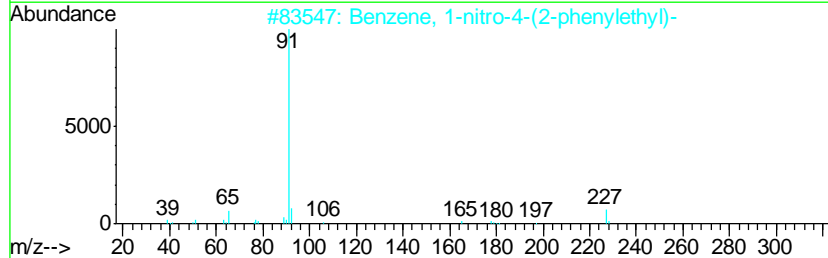
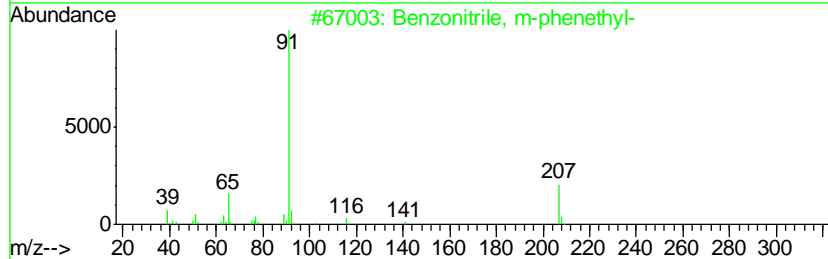
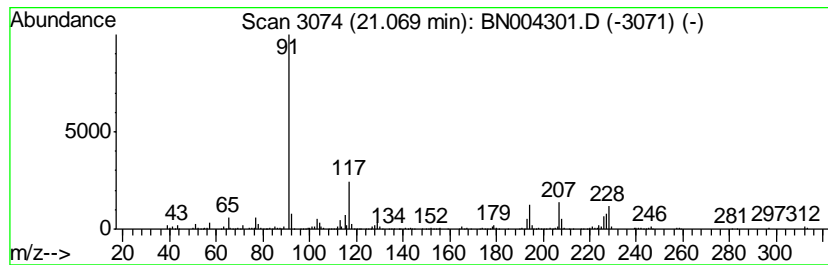
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 17 unknown-02 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.07 | 6.45 ng/ul | 471906 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1 | 5 | Benzonitrile, m-phenethyl- | 207 | C15H13N | 034176-91-5 | 22 |
| 2 | | Benzene, 1-nitro-4-(2-phenylethyl)- | 227 | C14H13NO2 | 014310-29-3 | 18 |
| 3 | | Benzene, 1,3,5-trimethyl-2-(phen... | 226 | C16H18O | 019578-76-8 | 14 |
| 4 | | 3-Phenylthiane,S-oxide | 194 | C11H14OS | 058121-26-9 | 10 |
| 5 | | 2,3-Dihydrobenzoxazol-2-one-3-ca... | 314 | C15H10N2O6 | 300808-99-5 | 10 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
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 Sample : J6428-05
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 ALS Vial : 37 Sample Multiplier: 1

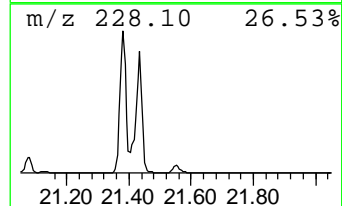
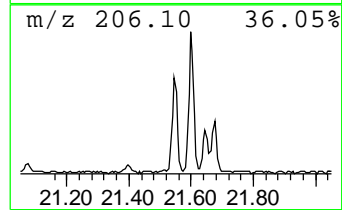
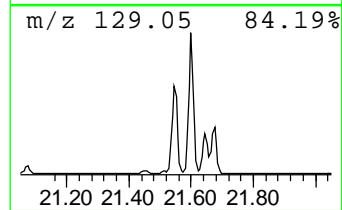
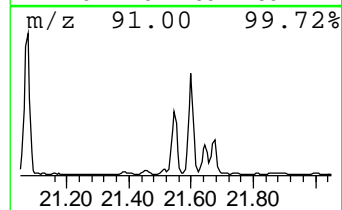
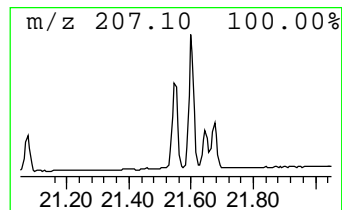
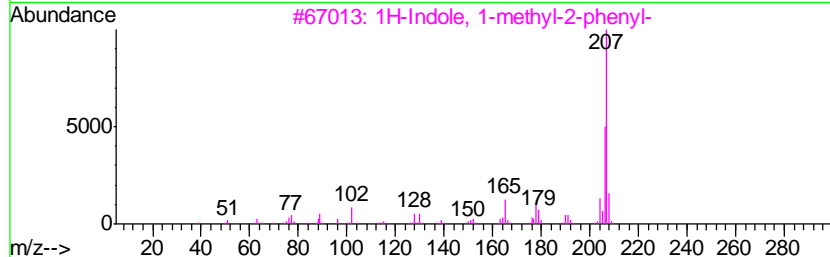
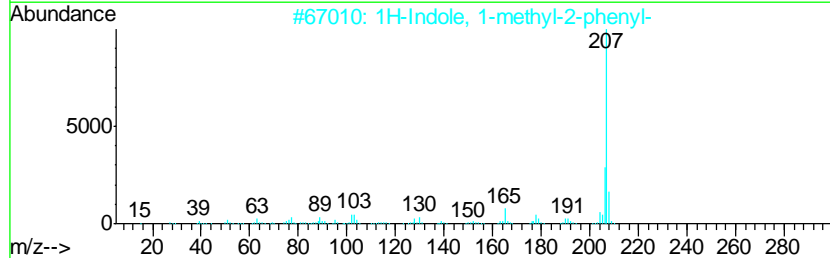
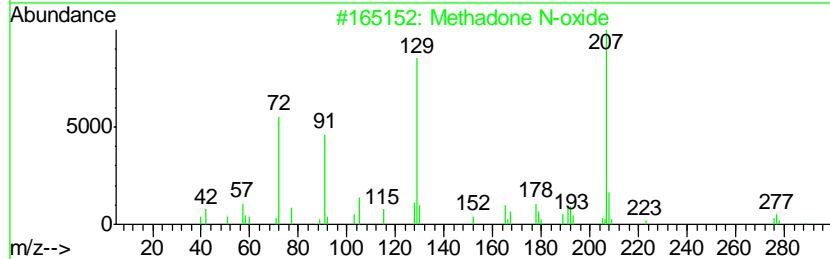
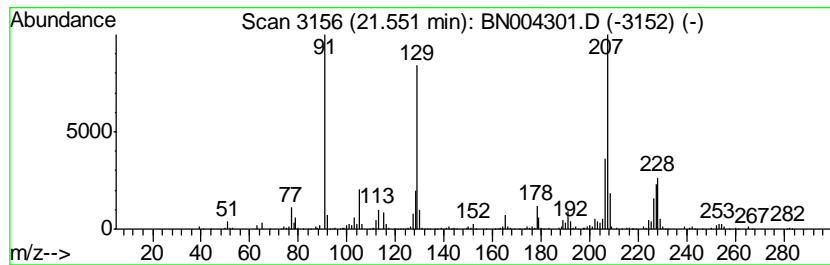
Instrument :
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 ClientSampled :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 18 Methadone N-oxide Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---------|------------|----------------------------------|------------------|-----------------|
| 21.55 | 5.19 ng/ul | 379262 | Chrysene-d12 | 21.40 |
| Hit# of | 5 | Tentative ID | MW MolForm | CAS# Qual |
| 1 | | Methadone N-oxide | 325 C21H27NO2 | 1000120-80-7 64 |
| 2 | | 1H-Indole, 1-methyl-2-phenyl- | 207 C15H13N | 003558-24-5 41 |
| 3 | | 1H-Indole, 1-methyl-2-phenyl- | 207 C15H13N | 003558-24-5 38 |
| 4 | | 1H-Indole, 2-methyl-3-phenyl- | 207 C15H13N | 004757-69-1 38 |
| 5 | | Benzo[h]quinoline, 2,4-dimethyl- | 207 C15H13N | 000605-67-4 30 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
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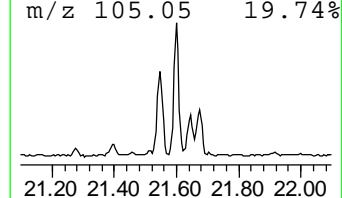
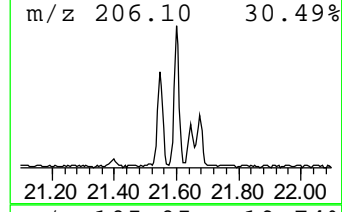
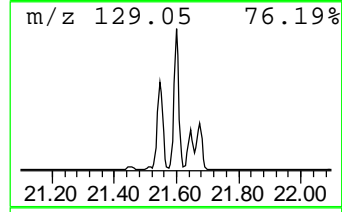
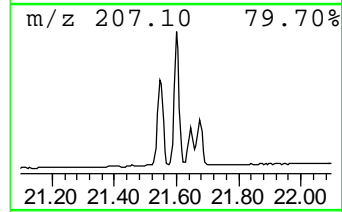
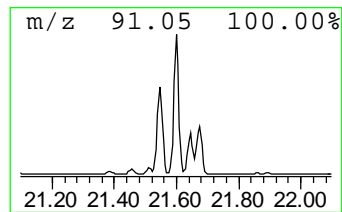
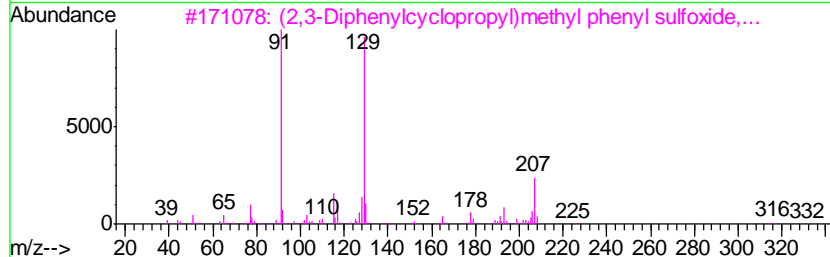
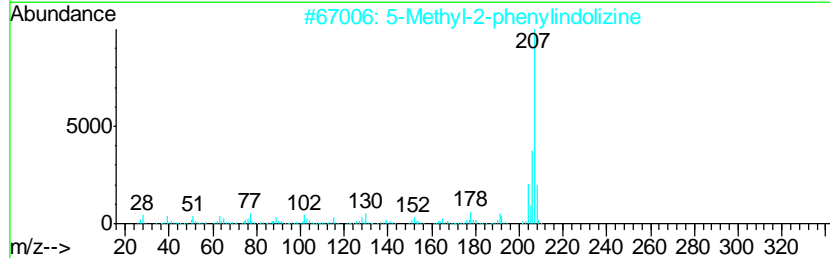
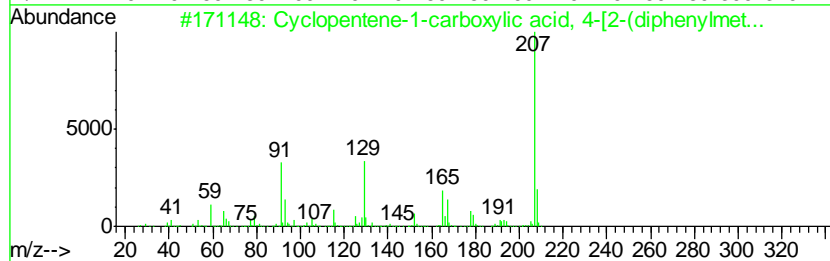
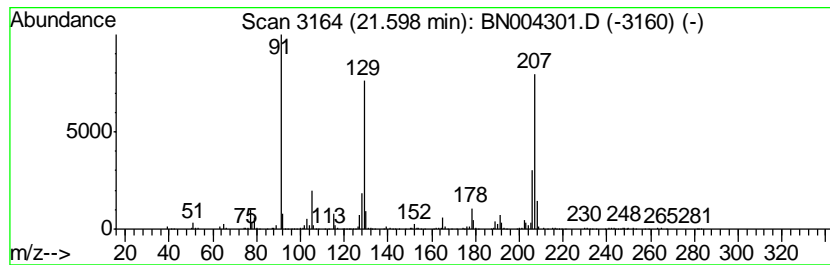
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 19 unknown-03 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.60 | 6.66 ng/ul | 487134 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Cyclopentene-1-carboxylic acid, ... | 332 | C23H24O2 | 1000159-40-6 | 45 |
| 2 | | 5-Methyl-2-phenylindolizine | 207 | C15H13N | 036944-99-7 | 38 |
| 3 | | (2,3-Diphenylcyclopropyl)methyl ... | 332 | C22H20OS | 131758-71-9 | 38 |
| 4 | | 1-benzylindole | 207 | C15H13N | 1000334-31-3 | 35 |
| 5 | | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 32 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
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Instrument :
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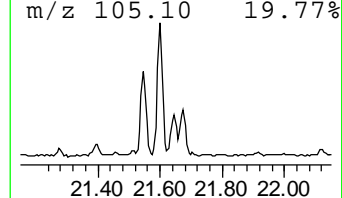
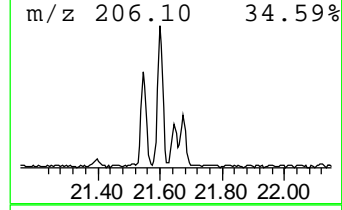
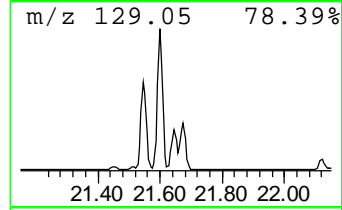
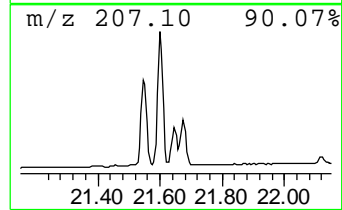
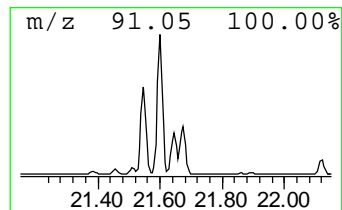
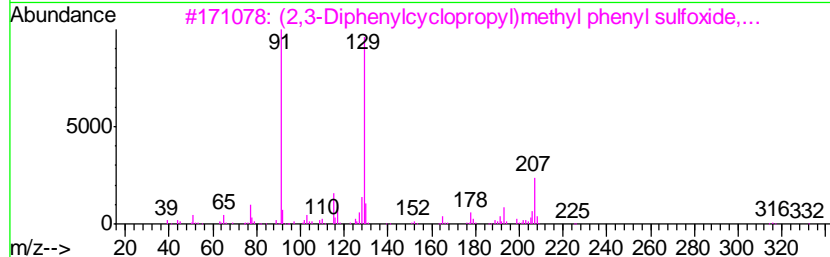
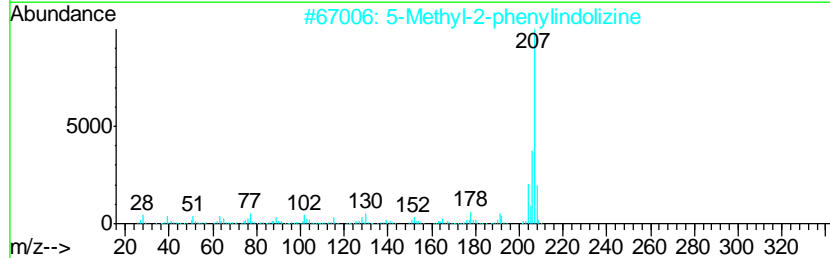
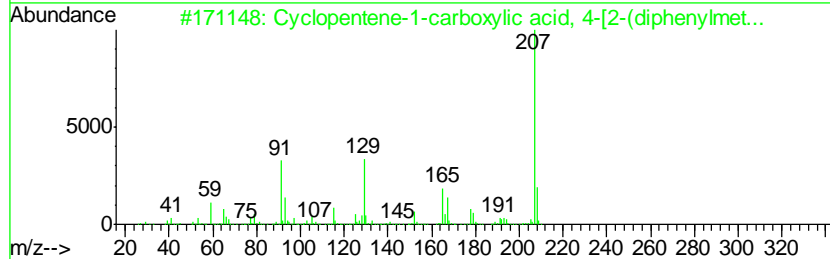
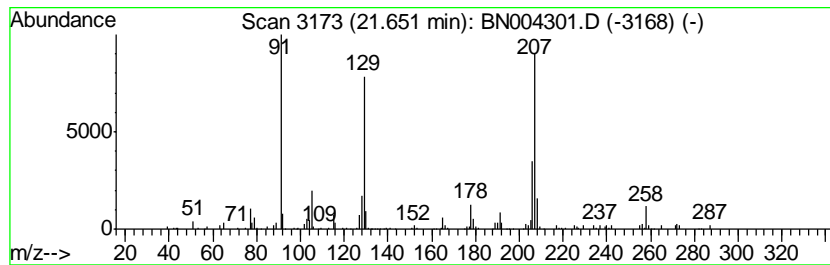
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 20 unknown-04 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.65 | 2.51 ng/ul | 183358 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Cyclopentene-1-carboxylic acid, ... | 332 | C23H24O2 | 1000159-40-6 | 42 |
| 2 | | 5-Methyl-2-phenylindolizine | 207 | C15H13N | 036944-99-7 | 38 |
| 3 | | (2,3-Diphenylcyclopropyl)methyl ... | 332 | C22H20OS | 131758-71-9 | 38 |
| 4 | | 1H-Indole, 1-methyl-2-phenyl- | 207 | C15H13N | 003558-24-5 | 38 |
| 5 | | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T9

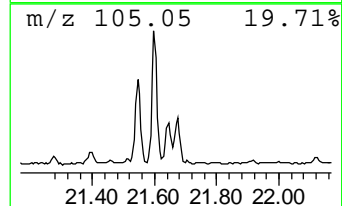
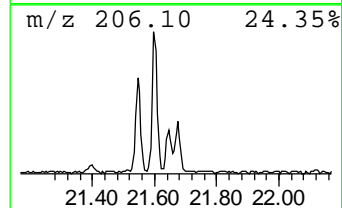
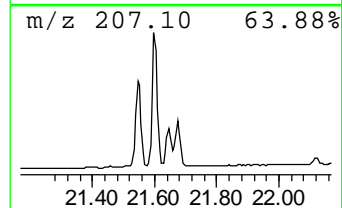
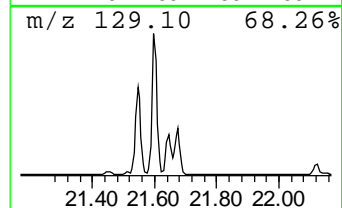
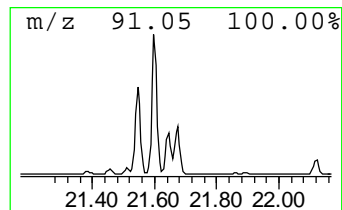
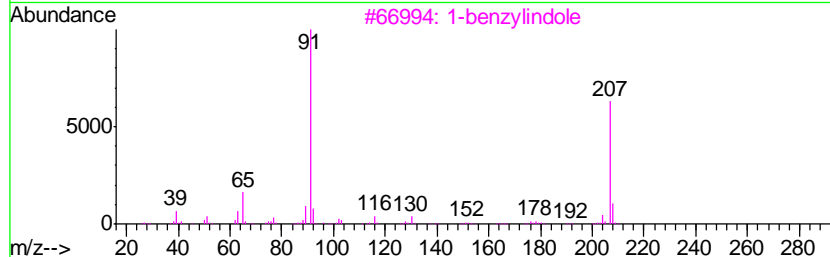
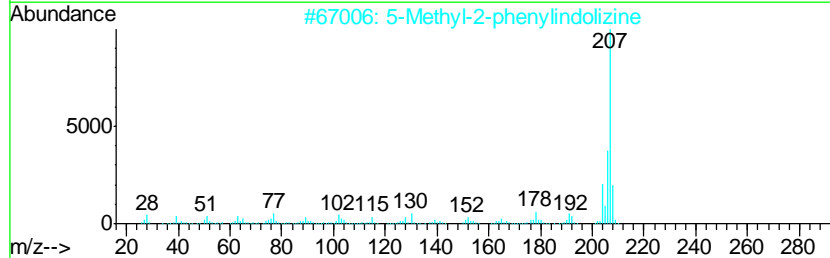
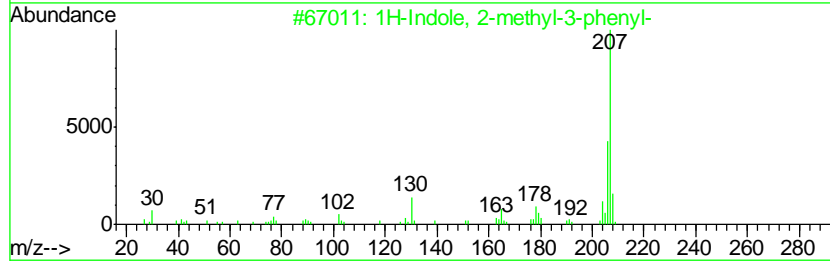
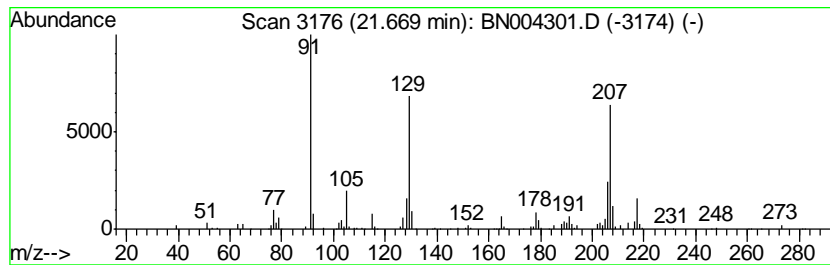
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 21 unknown-05 Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.67 | 2.30 ng/ul | 168349 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 49 |
| 2 | | 5-Methyl-2-phenylindolizine | 207 | C15H13N | 036944-99-7 | 49 |
| 3 | | 1-benzylindole | 207 | C15H13N | 1000334-31-3 | 43 |
| 4 | | 1H-Indole, 1-methyl-2-phenyl- | 207 | C15H13N | 003558-24-5 | 43 |
| 5 | | Cyclopentene-1-carboxylic acid, ... | 332 | C23H24O2 | 1000159-40-6 | 40 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T9

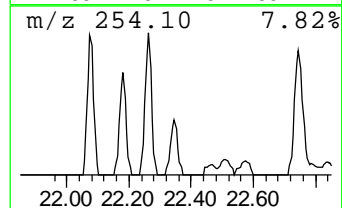
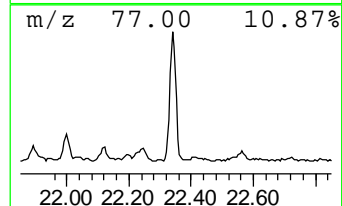
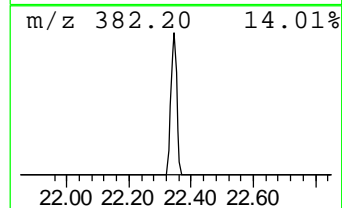
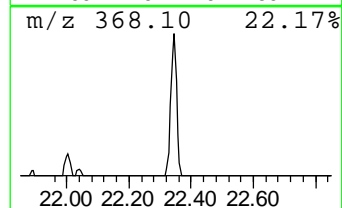
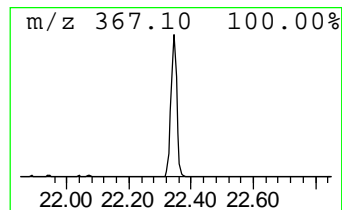
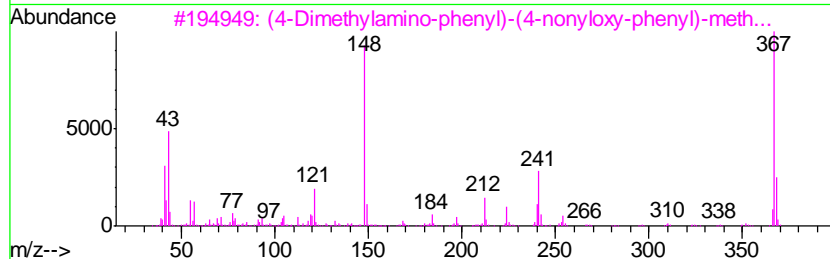
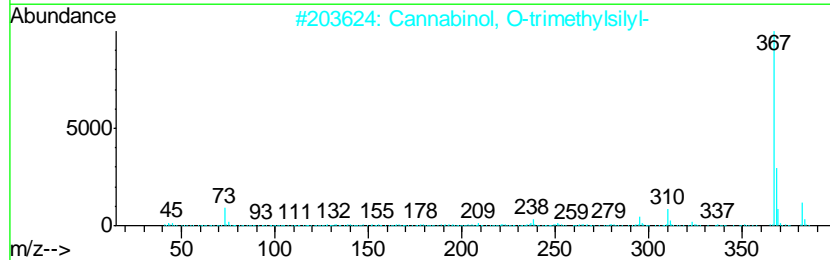
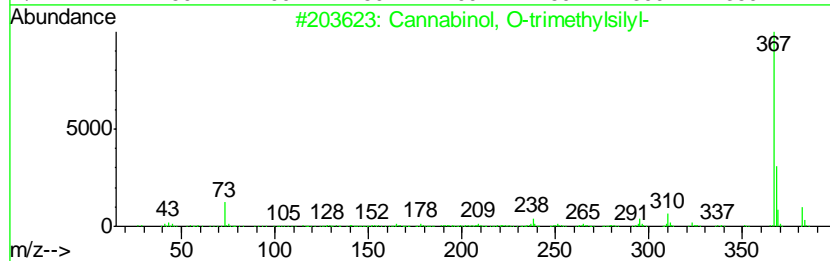
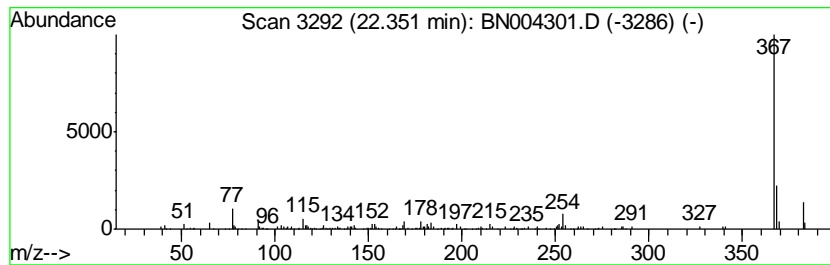
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 22 Cannabinol, O-trimethylsilyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 22.35 | 2.32 ng/ul | 169822 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1 | 5 | Cannabinol, O-trimethylsilyl- | 382 | C24H34O2Si | 064846-18-0 | 80 |
| 2 | | Cannabinol, O-trimethylsilyl- | 382 | C24H34O2Si | 064846-18-0 | 72 |
| 3 | | (4-Dimethylamino-phenyl)-(4-nony... | 367 | C24H33NO2 | 300382-52-9 | 56 |
| 4 | | 4-(2,3,4,6-Tetramethylphenyl)-tr... | 382 | C20H22N4O4 | 1000243-17-2 | 56 |
| 5 | | 8H-Dinaphtho[2,3-c:2',3'-g]carba... | 367 | C28H17N | 000313-87-1 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T9

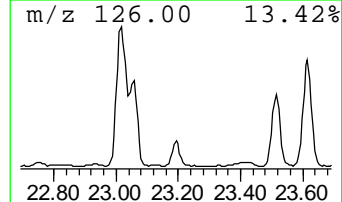
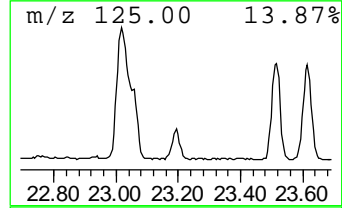
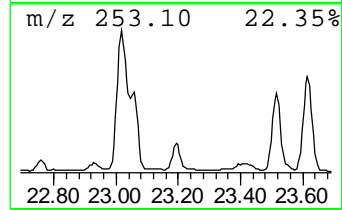
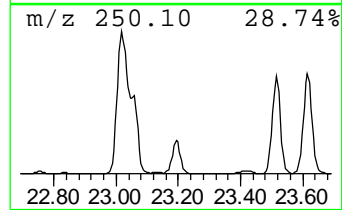
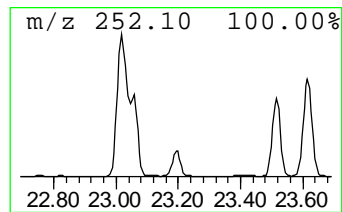
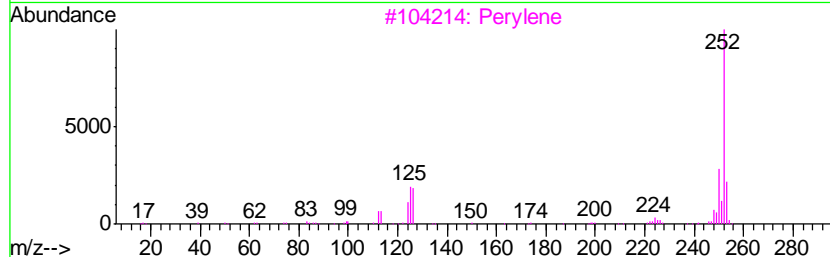
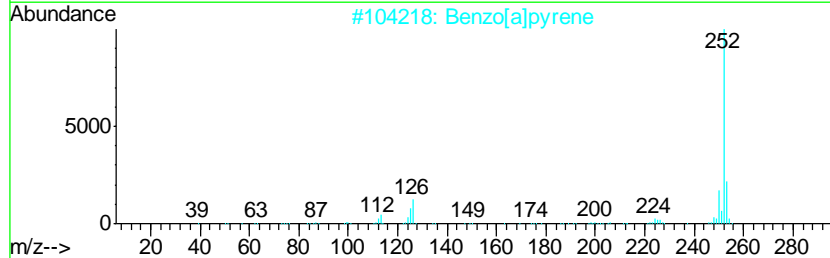
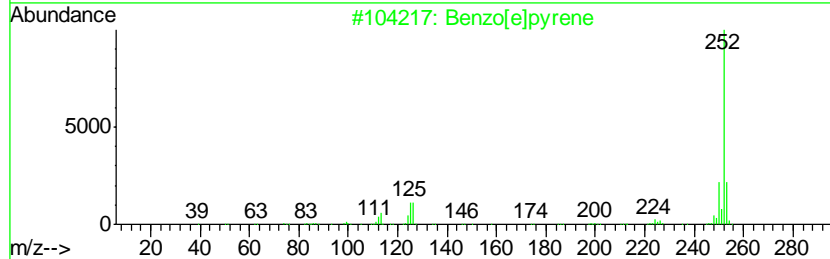
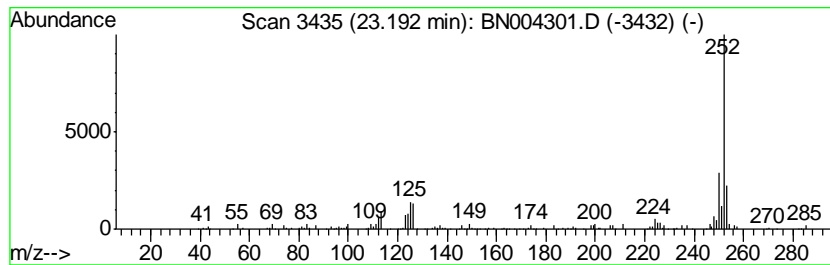
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 23 Benzo[e]pyrene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 23.19 | 4.32 ng/ul | 103736 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 97 |
| 2 | | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 3 | | Perylene | 252 | C20H12 | 000198-55-0 | 96 |
| 4 | | Perylene | 252 | C20H12 | 000198-55-0 | 96 |
| 5 | | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004301.D
 Acq On : 29 Dec 2018 15:00
 Operator : JU/SJ
 Sample : J6428-05
 Misc : GCMS Confirmation
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 8.9 | ng/ul | 73517 | 1 | 7.82 | 164764 | 20.0 |
| 1,3,5,7-Cycloocta... | 5.80 | 2.2 | ng/ul | 17919 | 1 | 7.82 | 164764 | 20.0 |
| [2.2]Paracyclophane | 16.80 | 5.0 | ng/ul | 131084 | 4 | 17.20 | 521971 | 20.0 |
| 2-Propanol, 1-chl... | 16.95 | 4.3 | ng/ul | 111863 | 4 | 17.20 | 521971 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.80 | 3.5 | ng/ul | 91686 | 4 | 17.20 | 521971 | 20.0 |
| Anthracene, 2-met... | 18.07 | 4.8 | ng/ul | 125332 | 4 | 17.20 | 521971 | 20.0 |
| Phenanthrene, 2-m... | 18.13 | 5.3 | ng/ul | 138974 | 4 | 17.20 | 521971 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 8.3 | ng/ul | 216400 | 4 | 17.20 | 521971 | 20.0 |
| unknown-01 | 18.32 | 3.1 | ng/ul | 81028 | 4 | 17.20 | 521971 | 20.0 |
| Naphthalene, 2-ph... | 18.57 | 3.3 | ng/ul | 86023 | 4 | 17.20 | 521971 | 20.0 |
| Phenanthrene, 2,5... | 18.99 | 2.1 | ng/ul | 55666 | 4 | 17.20 | 521971 | 20.0 |
| Fluoranthene, 2-m... | 19.96 | 2.1 | ng/ul | 153445 | 5 | 21.40 | 1462300 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.10 | 5.1 | ng/ul | 374826 | 5 | 21.40 | 1462300 | 20.0 |
| Pyrene, 1-methyl- | 20.28 | 2.2 | ng/ul | 158862 | 5 | 21.40 | 1462300 | 20.0 |
| Triphenyl phosphate | 20.81 | 3.1 | ng/ul | 226245 | 5 | 21.40 | 1462300 | 20.0 |
| unknown-02 | 21.07 | 6.5 | ng/ul | 471906 | 5 | 21.40 | 1462300 | 20.0 |
| Methadone N-oxide | 21.55 | 5.2 | ng/ul | 379262 | 5 | 21.40 | 1462300 | 20.0 |
| unknown-03 | 21.60 | 6.7 | ng/ul | 487134 | 5 | 21.40 | 1462300 | 20.0 |
| unknown-04 | 21.65 | 2.5 | ng/ul | 183358 | 5 | 21.40 | 1462300 | 20.0 |
| unknown-05 | 21.67 | 2.3 | ng/ul | 168349 | 5 | 21.40 | 1462300 | 20.0 |
| Cannabinol, O-tri... | 22.35 | 2.3 | ng/ul | 169822 | 5 | 21.40 | 1462300 | 20.0 |
| Benzo[e]pyrene | 23.19 | 4.3 | ng/ul | 103736 | 6 | 23.72 | 480564 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T9DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-05DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035104.D
 % Solids : 82.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 10.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|-----|
| 12674-11-2 | Aroclor-1016 | 400 | U |
| 11104-28-2 | Aroclor-1221 | 400 | U |
| 11141-16-5 | Aroclor-1232 | 400 | U |
| 53469-21-9 | Aroclor-1242 | 400 | U |
| 12672-29-6 | Aroclor-1248 | 9400 | EDP |
| 11097-69-1 | Aroclor-1254 | 400 | U |
| 11096-82-5 | Aroclor-1260 | 25000 | ED |
| 37324-23-5 | Aroclor-1262 | 400 | U |
| 11100-14-4 | Aroclor-1268 | 400 | U |

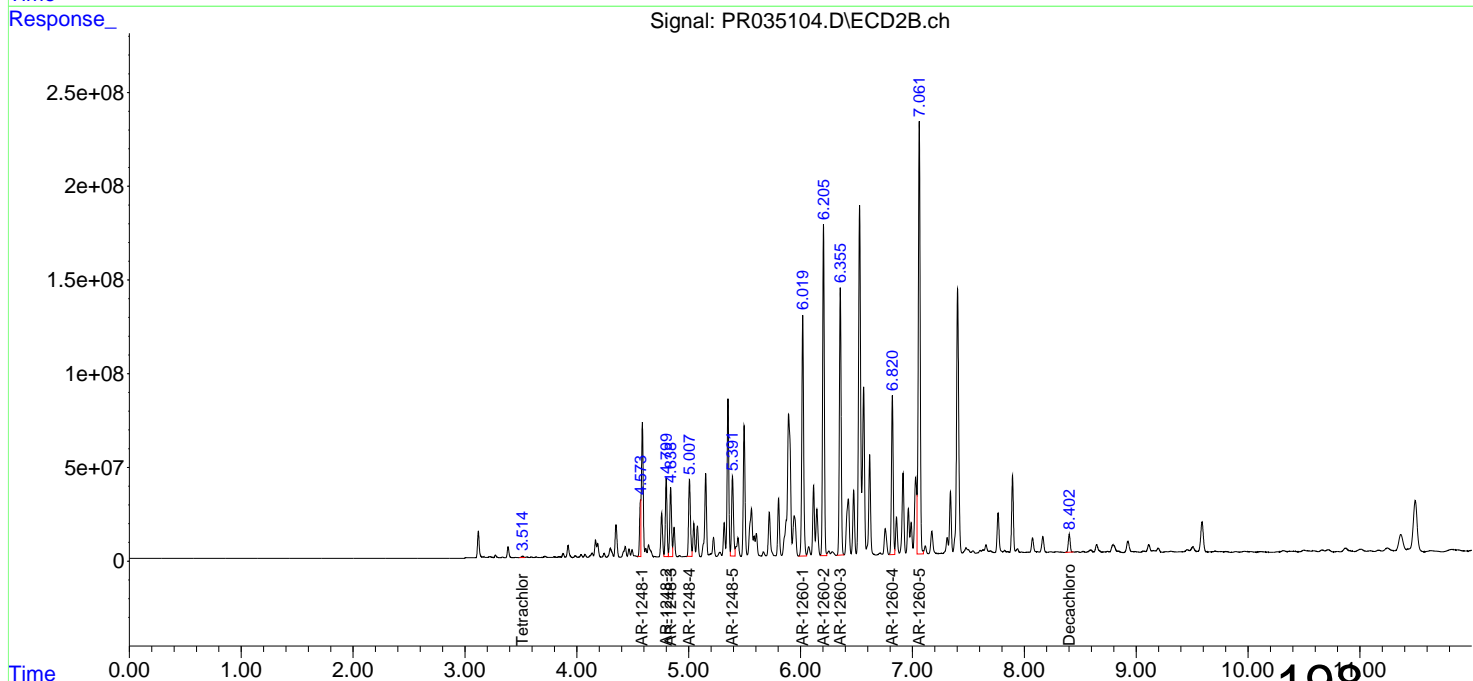
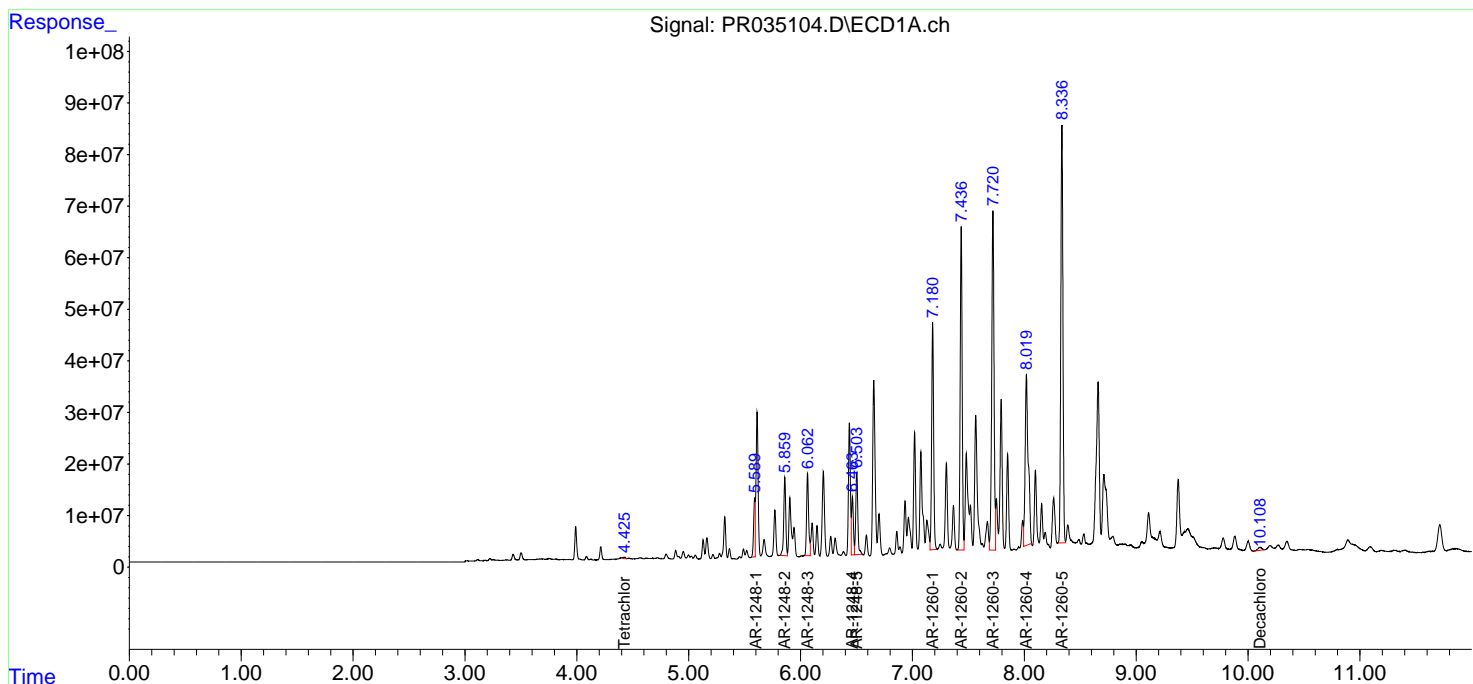
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 Acq On : 28 Dec 2018 18:51
 Operator : SM\SJ
 Sample : J6428-05DL 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035104.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:51
 Operator : SM\SJ
 Sample : J6428-05DL 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.514 | 3145497 | 9550544 | 1.617m | 2.740 # |
| 2) SA Decachlor... | 10.108 | 8.402 | 14067578 | 114.4E6 | 7.156 | 26.017 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 107.2E6 | 233.0E6 | 2209.261 | 2389.457m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 191.0E6 | 430.8E6 | 2891.002 | 3362.714 |
| 23) L5 AR-1248-3 | 6.063 | 4.839 | 201.5E6 | 406.2E6 | 2697.501 | 3078.127 |
| 24) L5 AR-1248-4 | 6.464 | 5.007 | 127.4E6 | 471.6E6 | 1425.984 | 2866.454 # |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 205.0E6 | 499.1E6 | 2449.841 | 2981.998 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 540.9E6 | 1455.9E6 | 5753.710 | 6772.304 |
| 32) L7 AR-1260-2 | 7.437 | 6.205 | 763.6E6 | 1872.1E6 | 6576.890 | 6879.482 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 935.6E6 | 1559.6E6 | 6704.384 | 6282.676 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 636.2E6 | 909.4E6 | 7367.101 | 5318.524 # |
| 35) L7 AR-1260-5 | 8.337 | 7.062 | 1066.7E6 | 2724.2E6 | 5907.828 | 5632.679 |

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

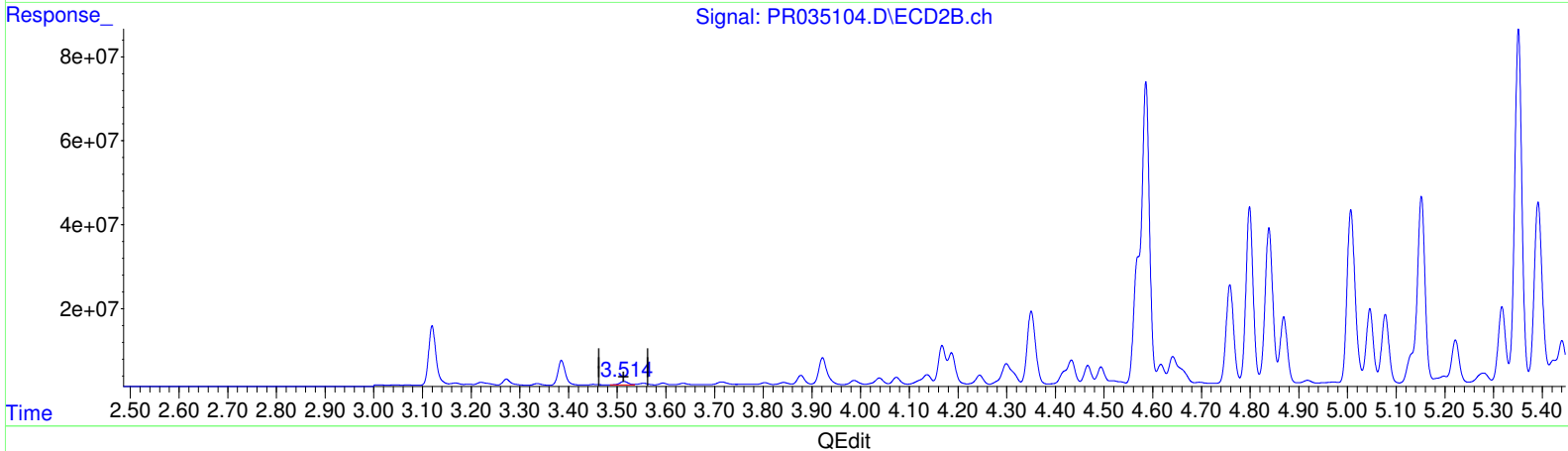
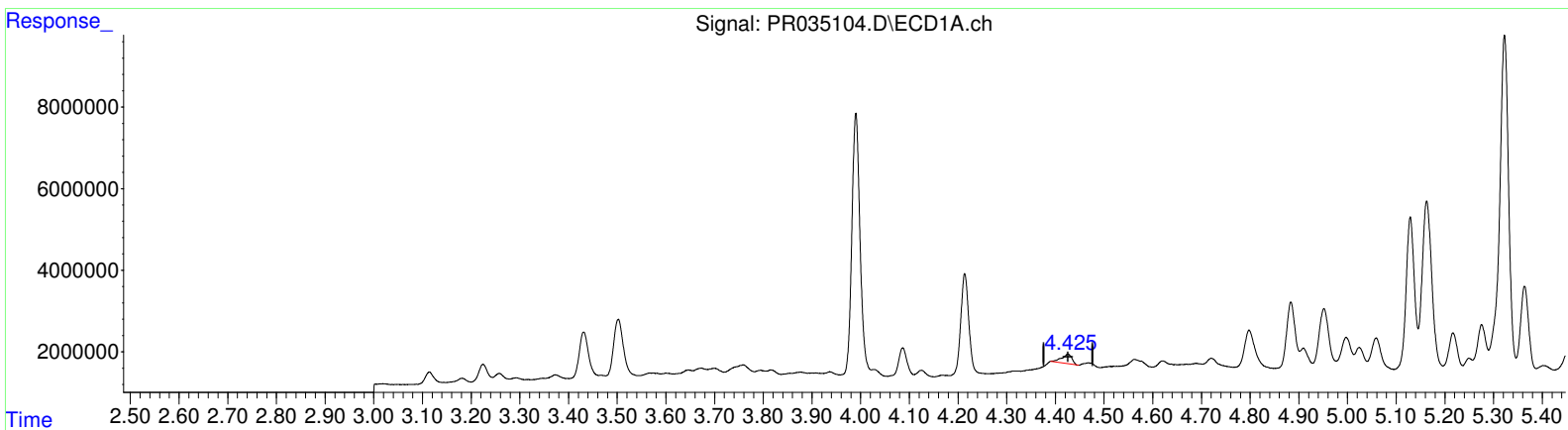
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 Acq On : 28 Dec 2018 18:51
 Operator : SM\SJ
 Sample : J6428-05DL 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T9DL

Manual Integrations
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 Sohil
 12/29/2018 12:18:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 1.729 ng/ml
 response 3362140

(1) Tetrachloro-m-xylene #2 (SA)
 3.514min 2.740 ng/ml
 response 9550544

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035104.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:51
 Operator : SM\SJ
 Sample : J6428-05DL 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

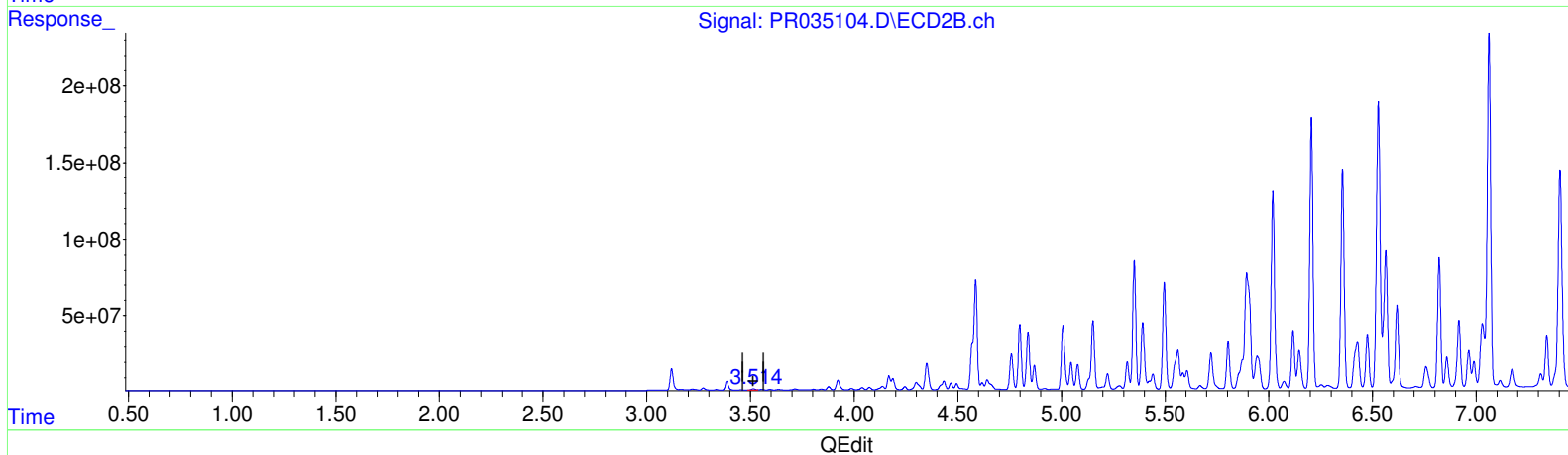
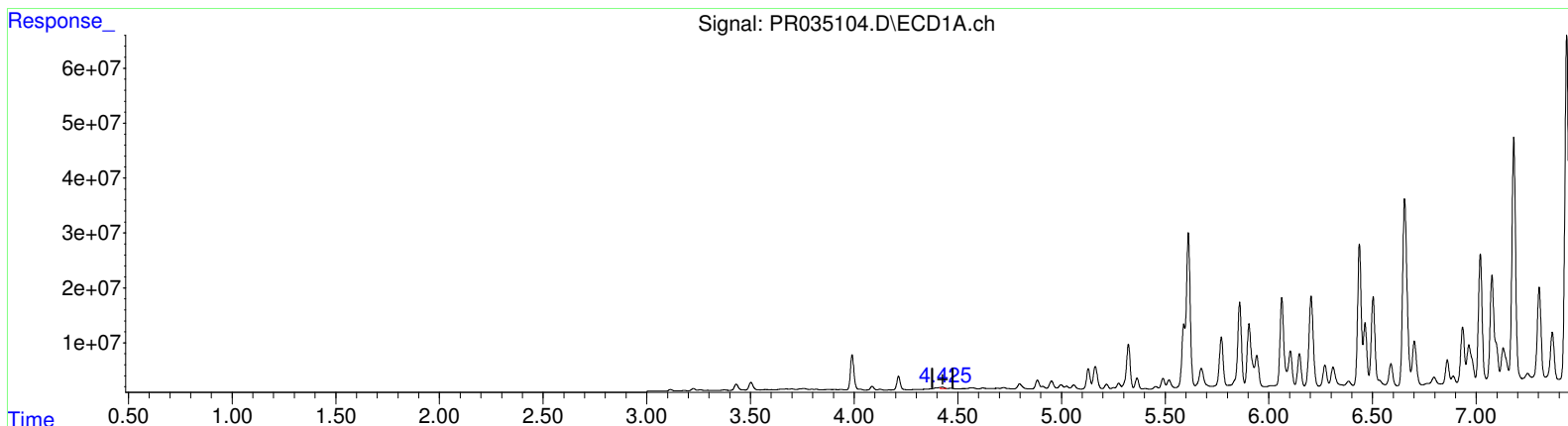
Instrument :
 ECD_R
 ClientSampled :
 A41T9DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.425min 1.617 ng/ml m
 response 3145497

(1) Tetrachloro-m-xylene #2 (SA)

3.514min 2.740 ng/ml
 response 9550544

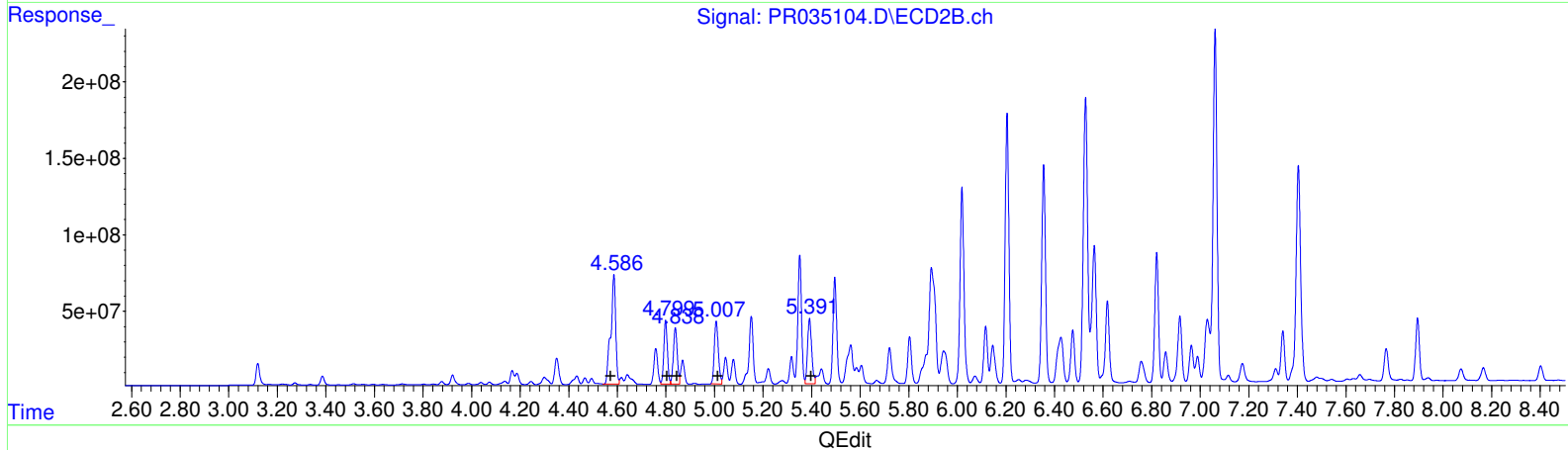
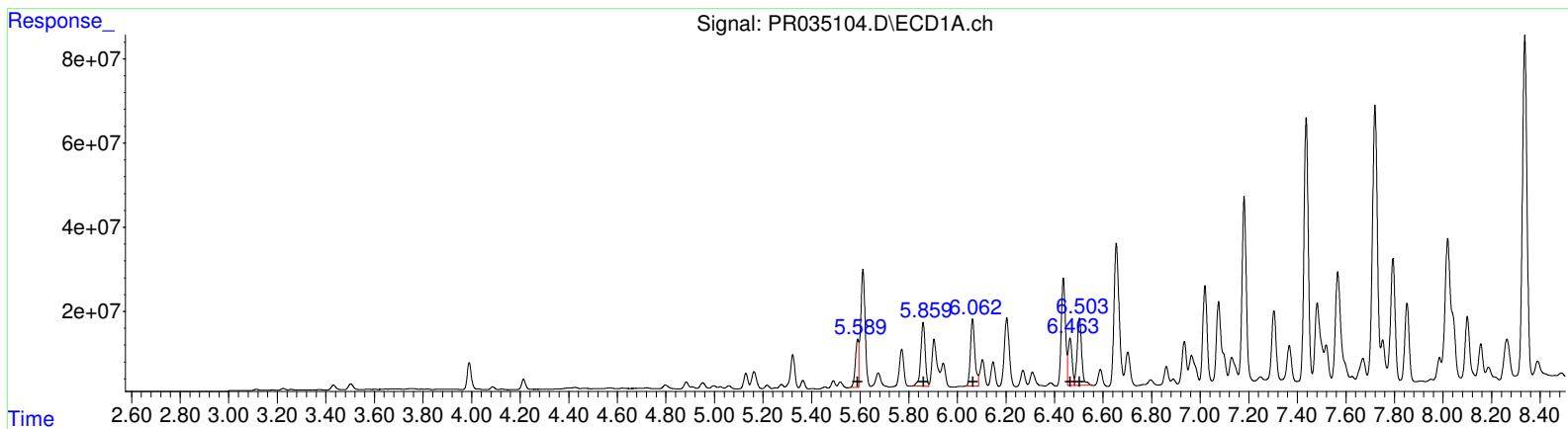
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 Data File : PR035104.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:51
 Operator : SM\SJ
 Sample : J6428-05DL 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T9DL

Manual Integrations
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 12/29/2018 12:18:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
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 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | | |
|------------------------|------------|----------|--|
| R.T. | Response | Conc | |
| 5.59 | 107199170 | 2209.26 | |
| 5.86 | 191018618 | 2891.00 | |
| 6.06 | 201543543 | 2697.50 | |
| 6.46 | 127405831 | 1425.98 | |
| 6.50 | 204973902 | 2449.84 | |
| (21) AR-1248-1 #2 (L5) | | | |
| R.T. | Response | Conc | |
| 4.59 | 1000753786 | 10263.96 | |
| 4.80 | 430771754 | 3362.71 | |
| 4.84 | 406242519 | 3078.13 | |
| 5.01 | 471618525 | 2866.45 | |
| 5.39 | 499054386 | 2982.00 | |

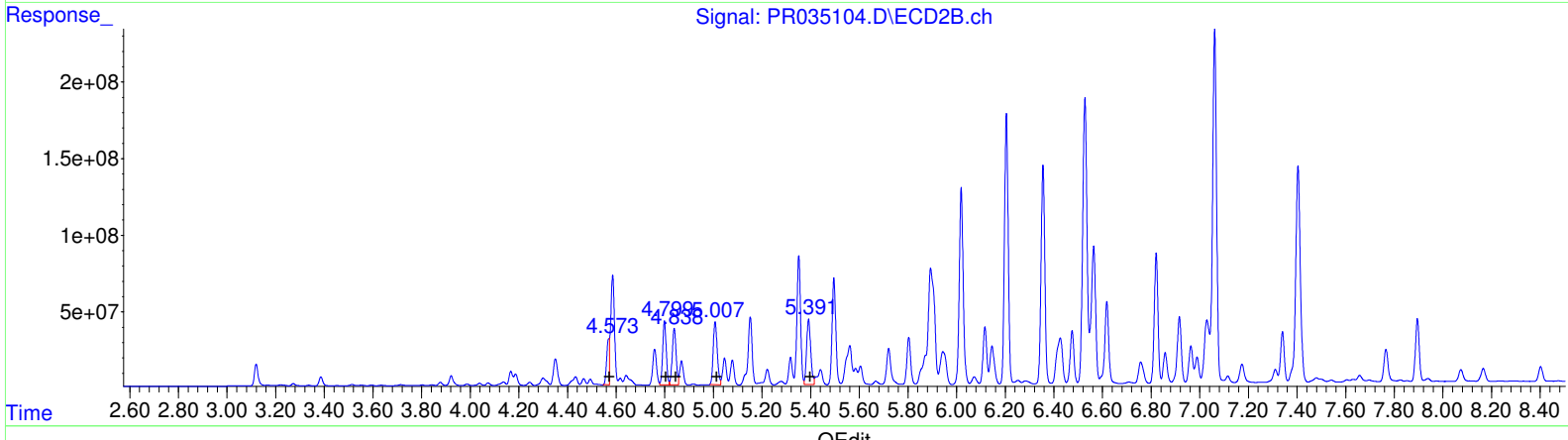
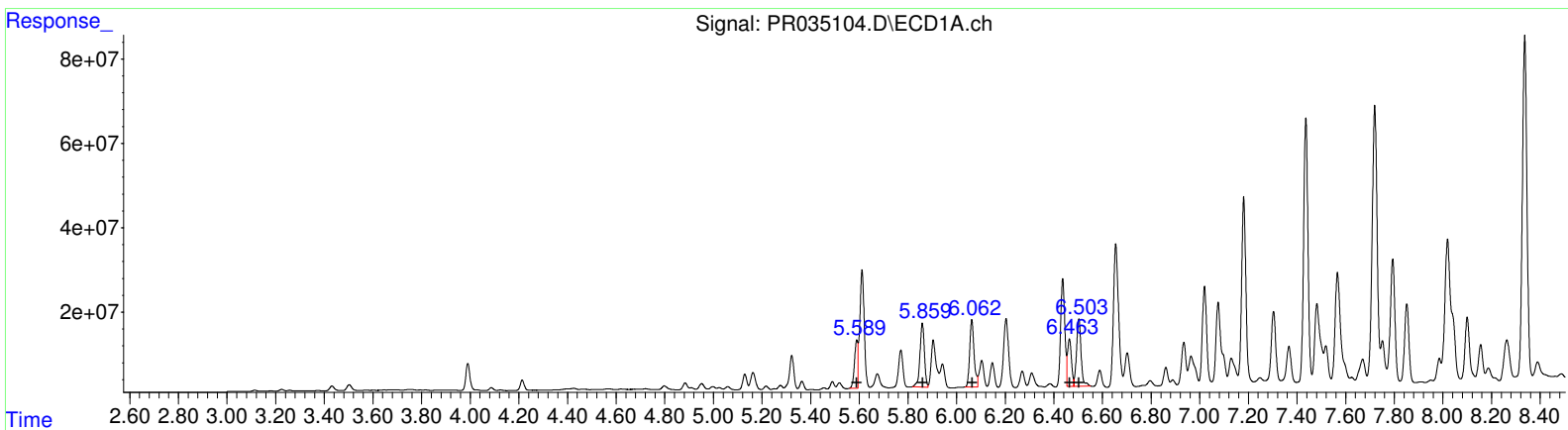
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035104.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:51
 Operator : SM\SJ
 Sample : J6428-05DL 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T9DL

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| Retention Time (min) | Response | Concentration |
|-------------------------------|-----------|---------------|
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 5.59 | 107199170 | 2209.26 |
| 5.86 | 191018618 | 2891.00 |
| 6.06 | 201543543 | 2697.50 |
| 6.46 | 127405831 | 1425.98 |
| 6.50 | 204973902 | 2449.84 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.57 | 232976108 | 2389.46 |
| 4.80 | 430771754 | 3362.71 |
| 4.84 | 406242519 | 3078.13 |
| 5.01 | 471618525 | 2866.45 |
| 5.39 | 499054386 | 2982.00 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035104.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 18:51
 Operator : SM\SJ
 Sample : J6428-05DL 10X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T9DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 Last Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.514 | 3145497 | 9550544 | 1.617m | 2.740 # |
| 2) SA Decachlor... | 10.108 | 8.402 | 14067578 | 114.4E6 | 7.156 | 26.017 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 107.2E6 | 233.0E6 | 2209.261 | 2389.457m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 191.0E6 | 430.8E6 | 2891.002 | 3362.714 |
| 23) L5 AR-1248-3 | 6.063 | 4.839 | 201.5E6 | 406.2E6 | 2697.501 | 3078.127 |
| 24) L5 AR-1248-4 | 6.464 | 5.007 | 127.4E6 | 471.6E6 | 1425.984 | 2866.454 # |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 205.0E6 | 499.1E6 | 2449.841 | 2981.998 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 540.9E6 | 1455.9E6 | 5753.710 | 6772.304 |
| 32) L7 AR-1260-2 | 7.437 | 6.205 | 763.6E6 | 1872.1E6 | 6576.890 | 6879.482 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 935.6E6 | 1559.6E6 | 6704.384 | 6282.676 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 636.2E6 | 909.4E6 | 7367.101 | 5318.524 # |
| 35) L7 AR-1260-5 | 8.337 | 7.062 | 1066.7E6 | 2724.2E6 | 5907.828 | 5632.679 |

SS
12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T9DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-05DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035105.D
 % Solids : 82.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 100.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 4000 | U |
| 11104-28-2 | Aroclor-1221 | 4000 | U |
| 11141-16-5 | Aroclor-1232 | 4000 | U |
| 53469-21-9 | Aroclor-1242 | 4000 | U |
| 12672-29-6 | Aroclor-1248 | 21000 | D |
| 11097-69-1 | Aroclor-1254 | 4000 | U |
| 11096-82-5 | Aroclor-1260 | 52000 | D |
| 37324-23-5 | Aroclor-1262 | 4000 | U |
| 11100-14-4 | Aroclor-1268 | 4000 | U |

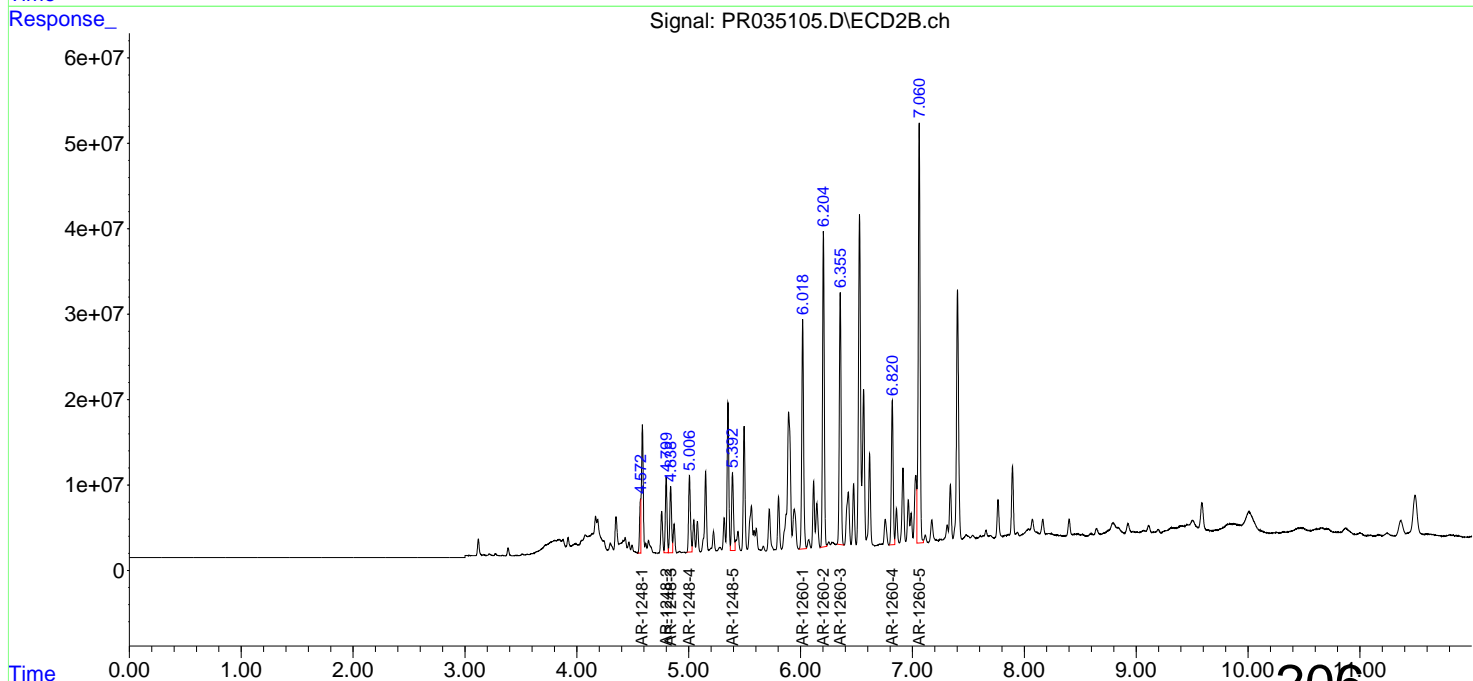
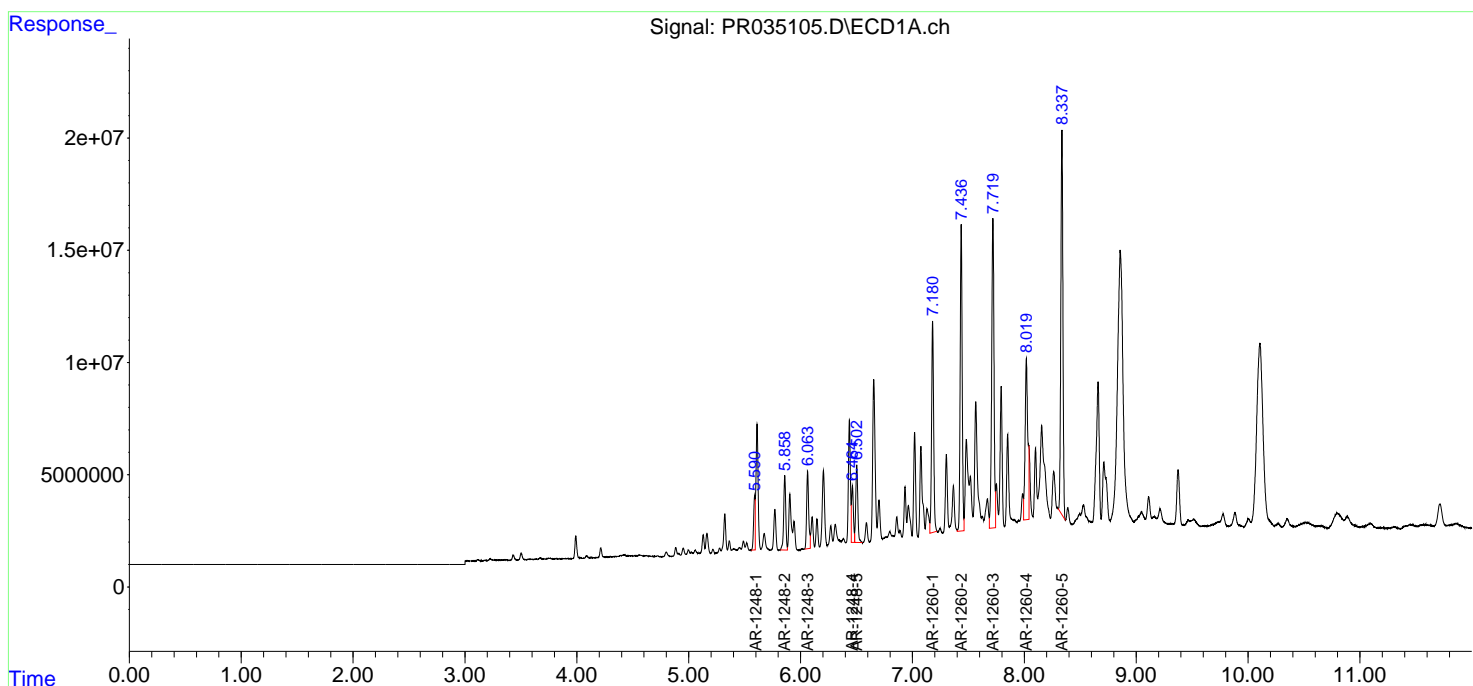
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 Data File : PR035105.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:06
 Operator : SM\SJ
 Sample : J6428-05DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T9DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:30 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:34 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035105.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:06
 Operator : SM\SJ
 Sample : J6428-05DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41T9DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:30 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:34 2018
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 Quant Title : GC EXTRACTABLES
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

Target Compounds

| | | | | | | | | |
|-----|----|-----------|-------|-------|----------|----------|-----------|-----------|
| 21) | L5 | AR-1248-1 | 5.590 | 4.572 | 22307625 | 48091448 | 459.737 | 493.237m |
| 22) | L5 | AR-1248-2 | 5.859 | 4.799 | 42560206 | 92832684 | 644.134 | 724.676 |
| 23) | L5 | AR-1248-3 | 6.063 | 4.839 | 44273329 | 88402446 | 592.563 | 669.831 |
| 24) | L5 | AR-1248-4 | 6.464 | 5.007 | 28992540 | 102.4E6 | 324.498 | 622.308 # |
| 25) | L5 | AR-1248-5 | 6.503 | 5.392 | 44478340 | 107.8E6 | 531.604 | 644.110 |
| 31) | L7 | AR-1260-1 | 7.181 | 6.019 | 120.7E6 | 306.9E6 | 1284.427 | 1427.643 |
| 32) | L7 | AR-1260-2 | 7.437 | 6.204 | 168.5E6 | 397.8E6 | 1451.269 | 1461.979 |
| 33) | L7 | AR-1260-3 | 7.720 | 6.355 | 198.4E6 | 328.8E6 | 1421.664 | 1324.492 |
| 34) | L7 | AR-1260-4 | 8.019 | 6.820 | 119.0E6 | 188.4E6 | 1378.093m | 1101.699 |
| 35) | L7 | AR-1260-5 | 8.337 | 7.061 | 220.9E6 | 564.7E6 | 1223.511 | 1167.590 |

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

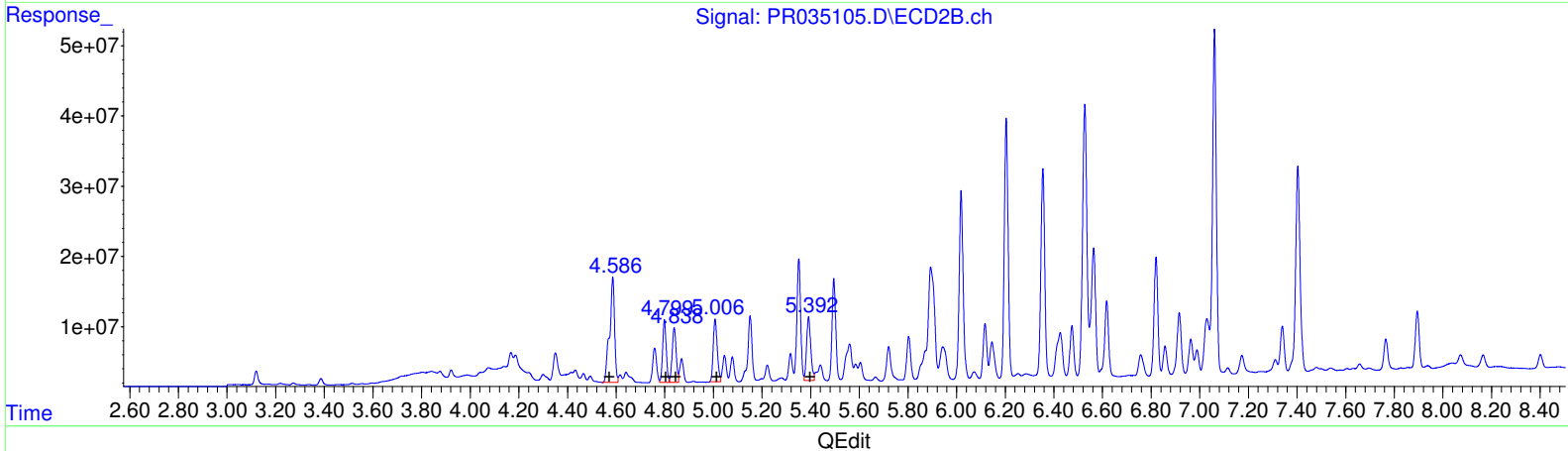
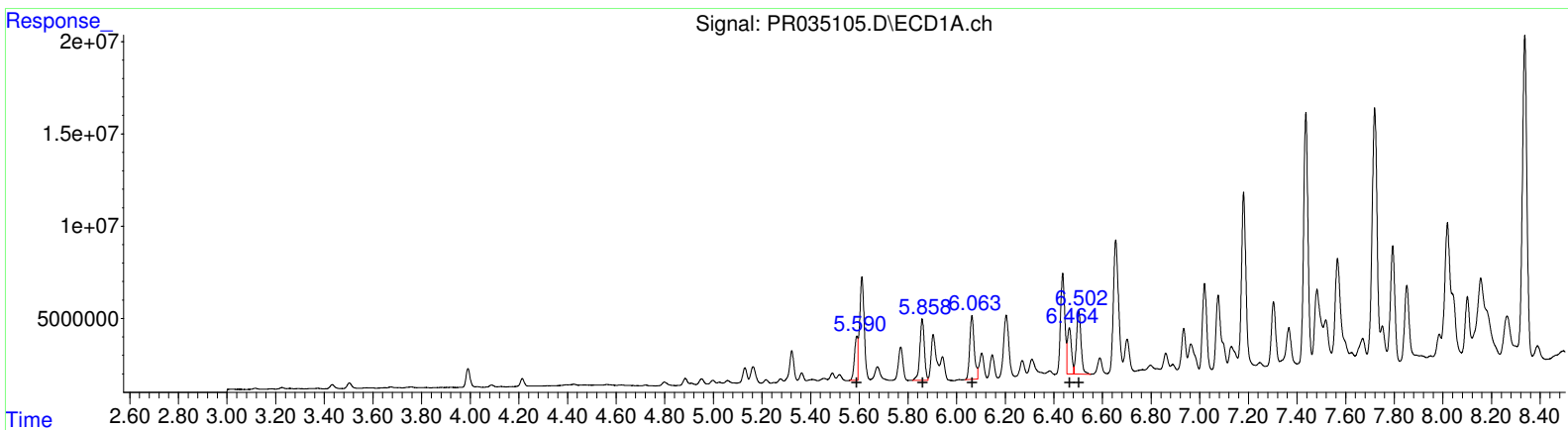
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 Data File : PR035105.D
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 Operator : SM\SJ
 Sample : J6428-05DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T9DL2

Manual Integrations
APPROVED
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Integration File signal 1: autoint1.e
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 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (21) AR-1248-1 (L5) | | | |
|------------------------|-----------|---------|--|
| R.T. | Response | Conc | |
| 5.59 | 22307625 | 459.74 | |
| 5.86 | 42560206 | 644.13 | |
| 6.06 | 44273329 | 592.56 | |
| 6.46 | 28992540 | 324.50 | |
| 6.50 | 44478340 | 531.60 | |
| (21) AR-1248-1 #2 (L5) | | | |
| R.T. | Response | Conc | |
| 4.59 | 210967631 | 2163.73 | |
| 4.80 | 92832684 | 724.68 | |
| 4.84 | 88402446 | 669.83 | |
| 5.01 | 102388448 | 622.31 | |
| 5.39 | 107795396 | 644.11 | |

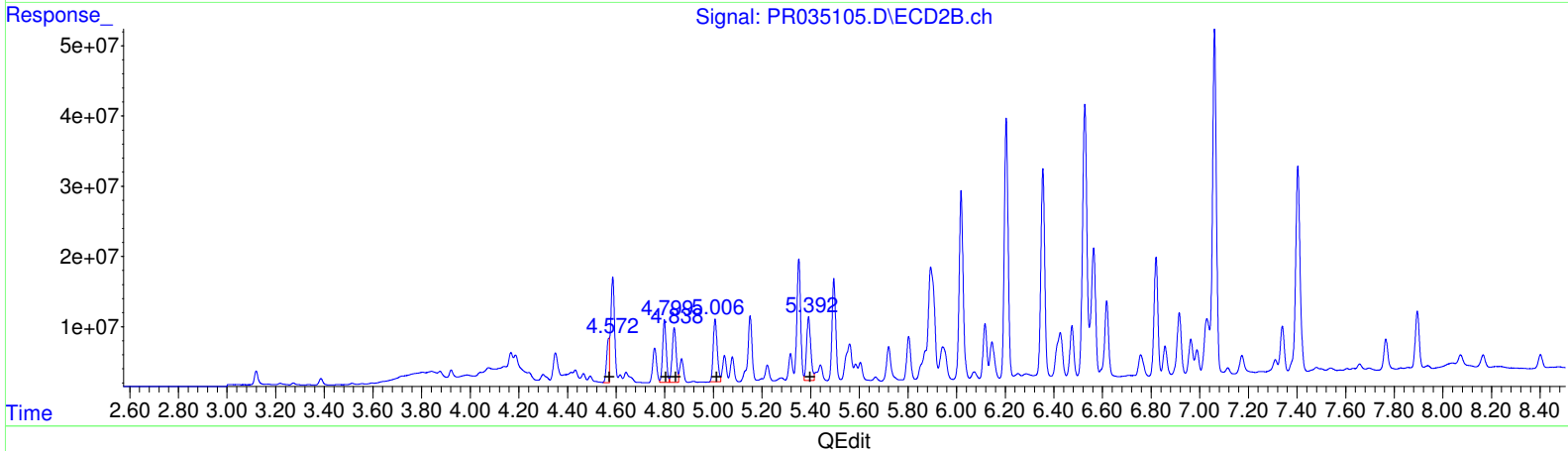
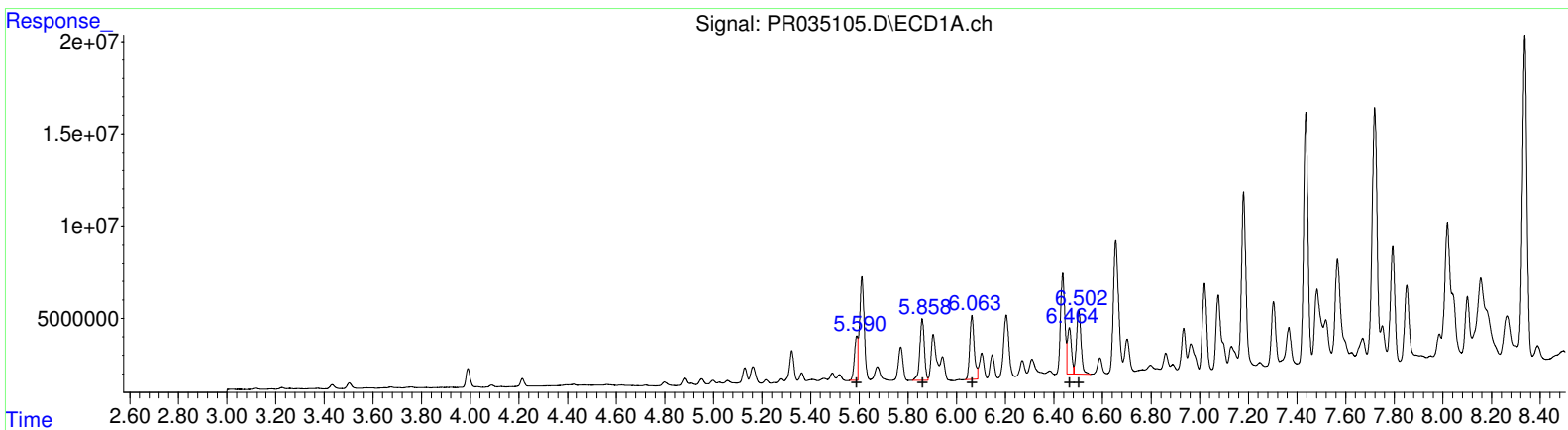
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035105.D
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 Acq On : 28 Dec 2018 19:06
 Operator : SM\SJ
 Sample : J6428-05DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T9DL2

Manual Integrations
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Integration File signal 1: autoint1.e
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 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (21) AR-1248-1 (L5) | | | |
|------------------------|-----------|--------|--|
| R.T. | Response | Conc | |
| 5.59 | 22307625 | 459.74 | |
| 5.86 | 42560206 | 644.13 | |
| 6.06 | 44273329 | 592.56 | |
| 6.46 | 28992540 | 324.50 | |
| 6.50 | 44478340 | 531.60 | |
| (21) AR-1248-1 #2 (L5) | | | |
| R.T. | Response | Conc | |
| 4.57 | 48091448 | 493.24 | |
| 4.80 | 92832684 | 724.68 | |
| 4.84 | 88402446 | 669.83 | |
| 5.01 | 102388448 | 622.31 | |
| 5.39 | 107795396 | 644.11 | |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035105.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:06
 Operator : SM\SJ
 Sample : J6428-05DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

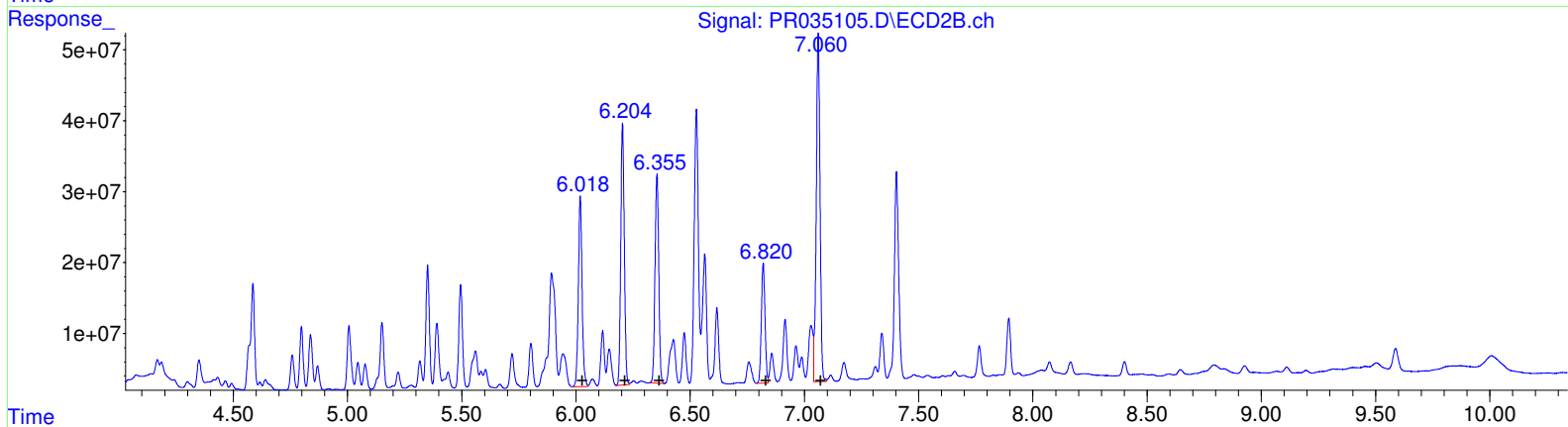
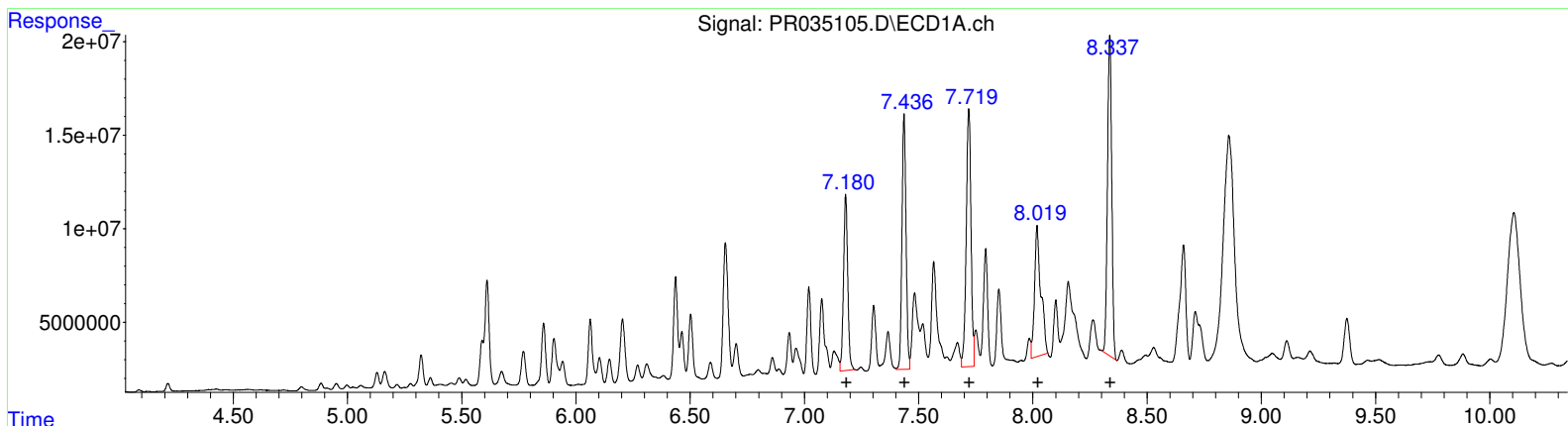
Instrument :
 ECD_R
 ClientSampled :
 A41T9DL2

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:30 PM

Integration File signal 1: autoint1.e
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 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 120746418 | 1284.43 |
| 7.44 | 168494030 | 1451.27 |
| 7.72 | 198402377 | 1421.66 |
| 8.02 | 133796195 | 1549.22 |
| 8.34 | 220909559 | 1223.51 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 306903640 | 1427.64 |
| 6.20 | 397836109 | 1461.98 |
| 6.35 | 328786516 | 1324.49 |
| 6.82 | 188379870 | 1101.70 |
| 7.06 | 564699306 | 1167.59 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035105.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:06
 Operator : SM\SJ
 Sample : J6428-05DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

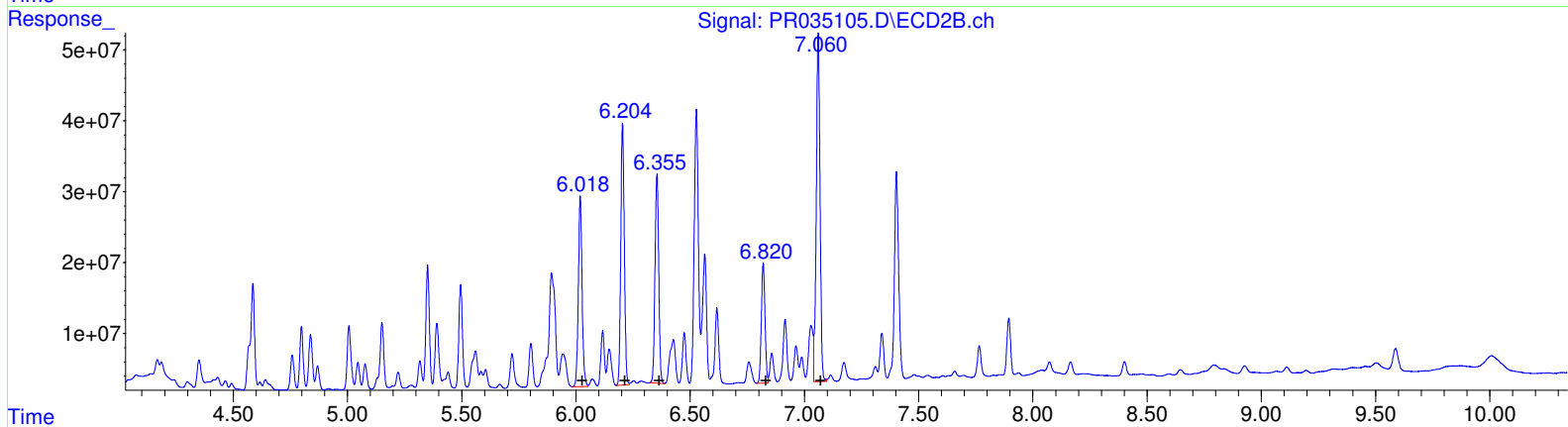
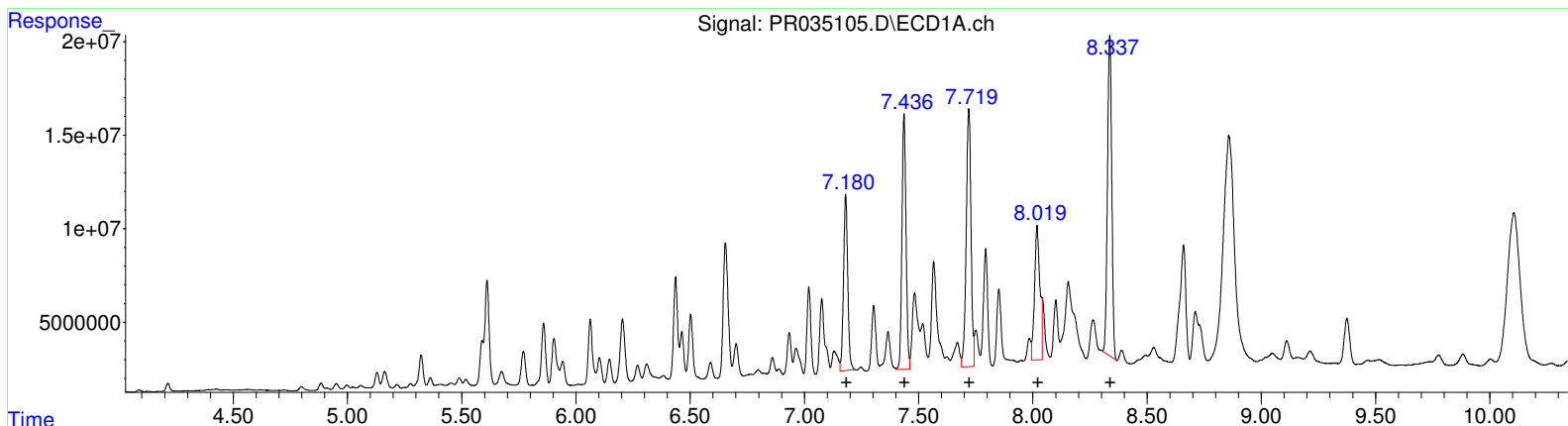
Instrument :
 ECD_R
 Client Sampled :
 A41T9DL2

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:30 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:34 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (31) AR-1260-1 #2 (L7) | | | |
|------------------------|-----------|---------|--|
| R.T. | Response | Conc | |
| 7.18 | 120746418 | 1284.43 | |
| 7.44 | 168494030 | 1451.27 | |
| 7.72 | 198402377 | 1421.66 | |
| 8.02 | 119017041 | 1378.09 | |
| 8.34 | 220909559 | 1223.51 | |
| (31) AR-1260-1 #2 (L7) | | | |
| R.T. | Response | Conc | |
| 6.02 | 306903640 | 1427.64 | |
| 6.20 | 397836109 | 1461.98 | |
| 6.35 | 328786516 | 1324.49 | |
| 6.82 | 188379870 | 1101.70 | |
| 7.06 | 564699306 | 1167.59 | |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035105.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:06
 Operator : SM\SJ
 Sample : J6428-05DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T9DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:19:34 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|-----------|-----------|
| 21) L5 AR-1248-1 | 5.590 | 4.572 | 22307625 | 48091448 | 459.737 | 493.237m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 42560206 | 92832684 | 644.134 | 724.676 |
| 23) L5 AR-1248-3 | 6.063 | 4.839 | 44273329 | 88402446 | 592.563 | 669.831 |
| 24) L5 AR-1248-4 | 6.464 | 5.007 | 28992540 | 102.4E6 | 324.498 | 622.308 # |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 44478340 | 107.8E6 | 531.604 | 644.110 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 120.7E6 | 306.9E6 | 1284.427 | 1427.643 |
| 32) L7 AR-1260-2 | 7.437 | 6.204 | 168.5E6 | 397.8E6 | 1451.269 | 1461.979 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 198.4E6 | 328.8E6 | 1421.664 | 1324.492 |
| 34) L7 AR-1260-4 | 8.019 | 6.820 | 119.0E6 | 188.4E6 | 1378.093m | 1101.699 |
| 35) L7 AR-1260-5 | 8.337 | 7.061 | 220.9E6 | 564.7E6 | 1223.511 | 1167.590 |

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 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W0

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-06
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035055.D
 % Solids : 78 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 42 | U |
| 11097-69-1 | Aroclor-1254 | 42 | U |
| 11096-82-5 | Aroclor-1260 | 2000 | E |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

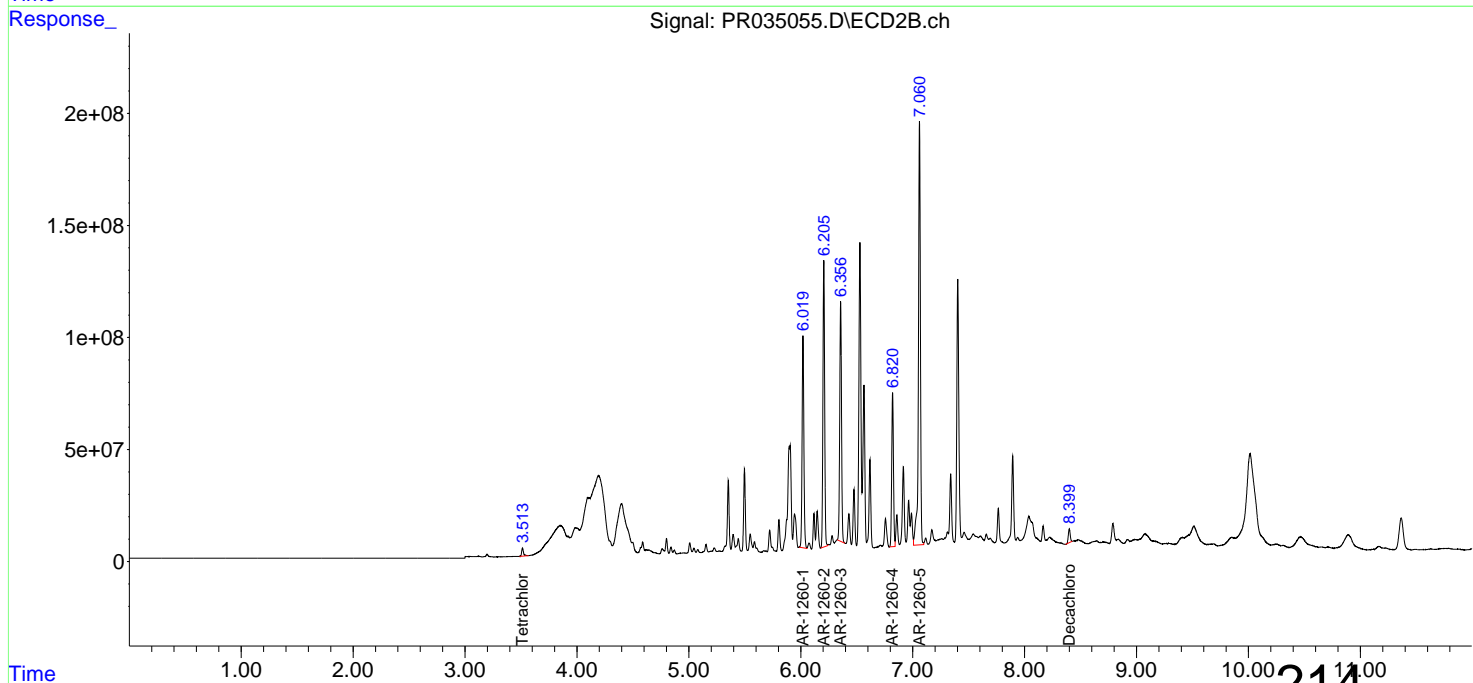
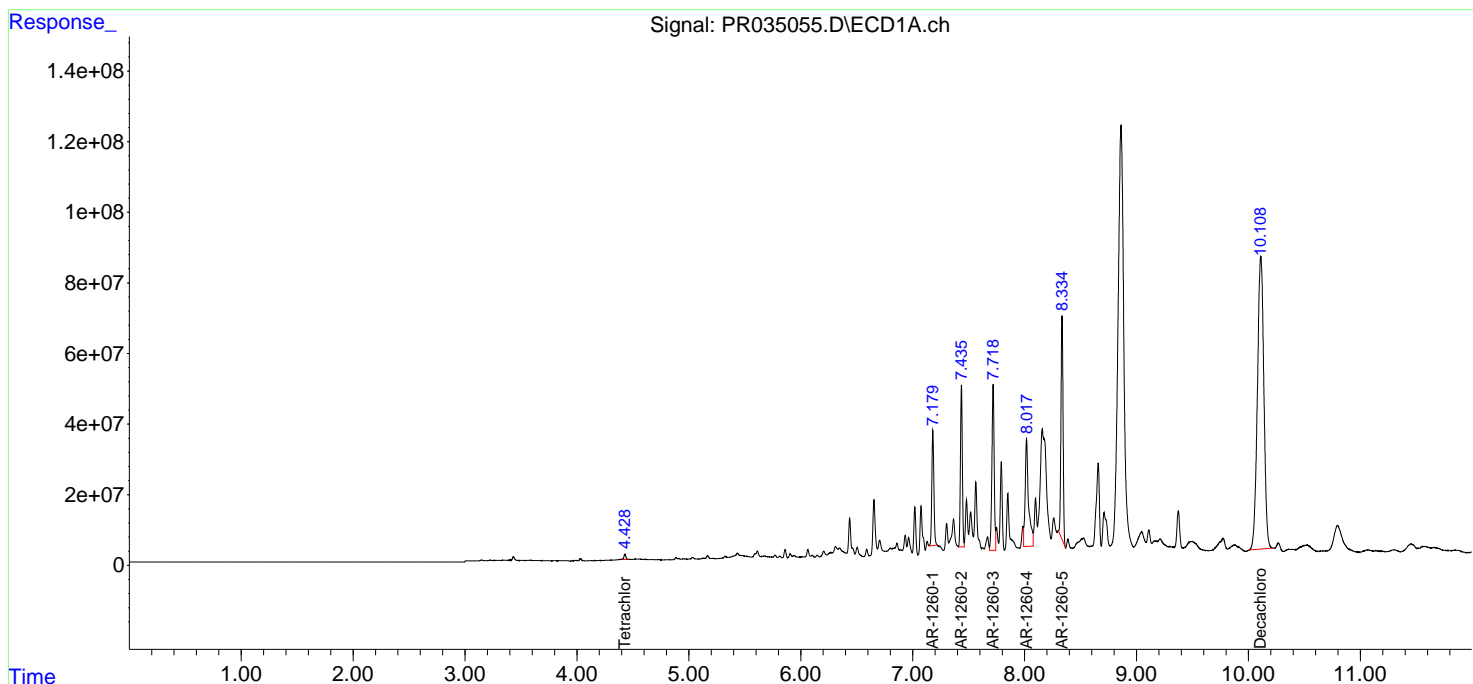
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W0

Manual Integrations
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 12/29/2018 12:17:31 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W0

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:31 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 17658381 | 41568421 | 9.079m | 11.924 # |
| 2) SA Decachlor... | 10.108 | 8.400 | 3307.2E6 | 72657252 | 1682.246m | 16.526 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.179 | 6.020 | 417.9E6 | 1041.3E6 | 4445.002m | 4843.997 |
| 32) L7 AR-1260-2 | 7.435 | 6.206 | 542.3E6 | 1368.8E6 | 4671.148m | 5030.231 |
| 33) L7 AR-1260-3 | 7.719 | 6.356 | 664.8E6 | 1187.6E6 | 4763.497 | 4784.112 |
| 34) L7 AR-1260-4 | 8.017 | 6.821 | 647.3E6 | 746.5E6 | 7495.440m | 4365.668 # |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 830.0E6 | 2345.1E6 | 4596.932 | 4848.874 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

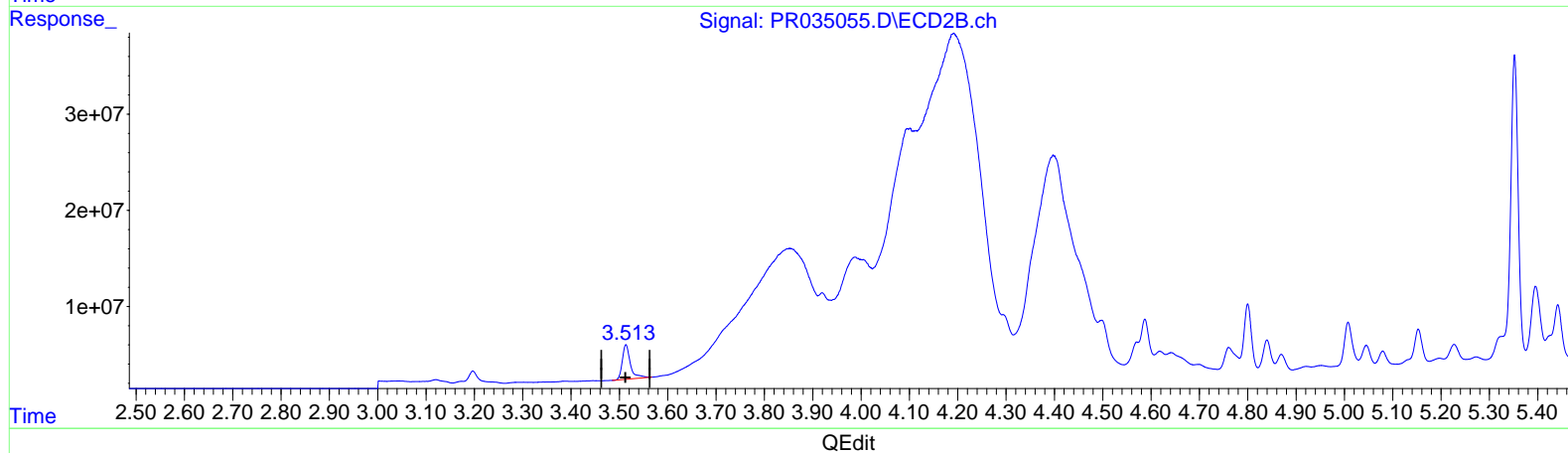
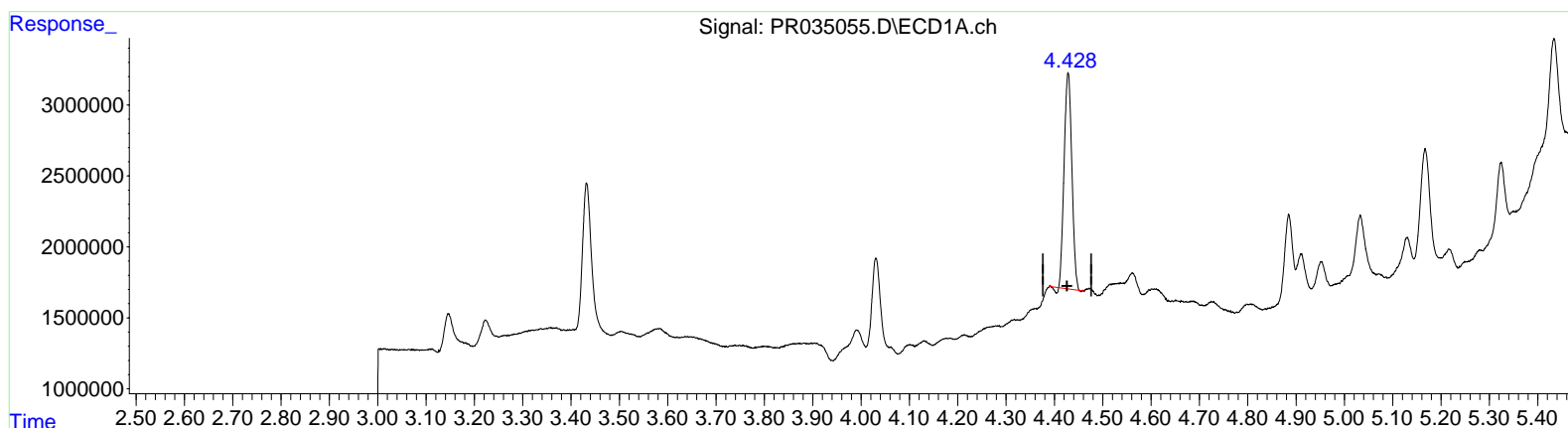
Instrument :
 ECD_R
 ClientSampled :
 A41W0

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.429min 8.653 ng/ml

response 16830026

(1) Tetrachloro-m-xylene #2 (SA)

3.514min 11.924 ng/ml

response 41568421

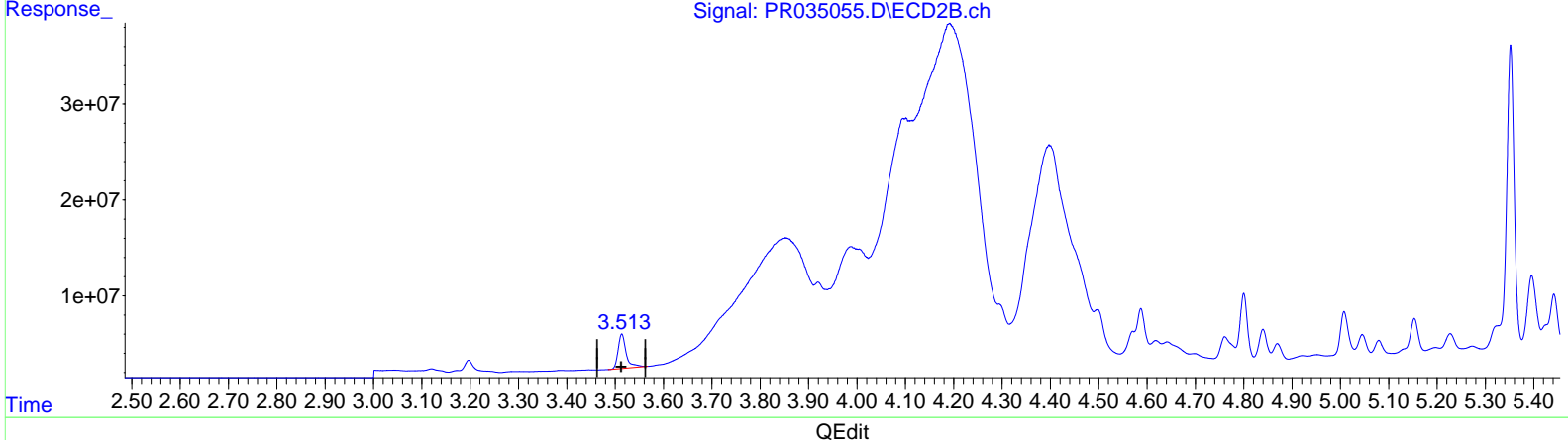
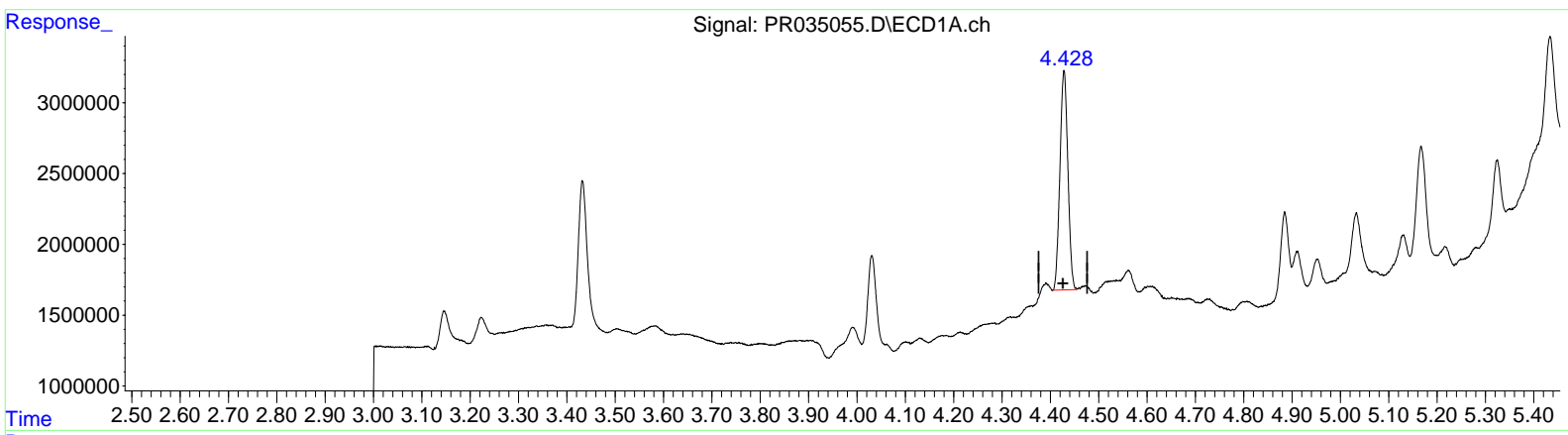
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W0

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.428min 9.079 ng/ml m
 response 17658381

(1) Tetrachloro-m-xylene #2 (SA)
 3.514min 11.924 ng/ml
 response 41568421

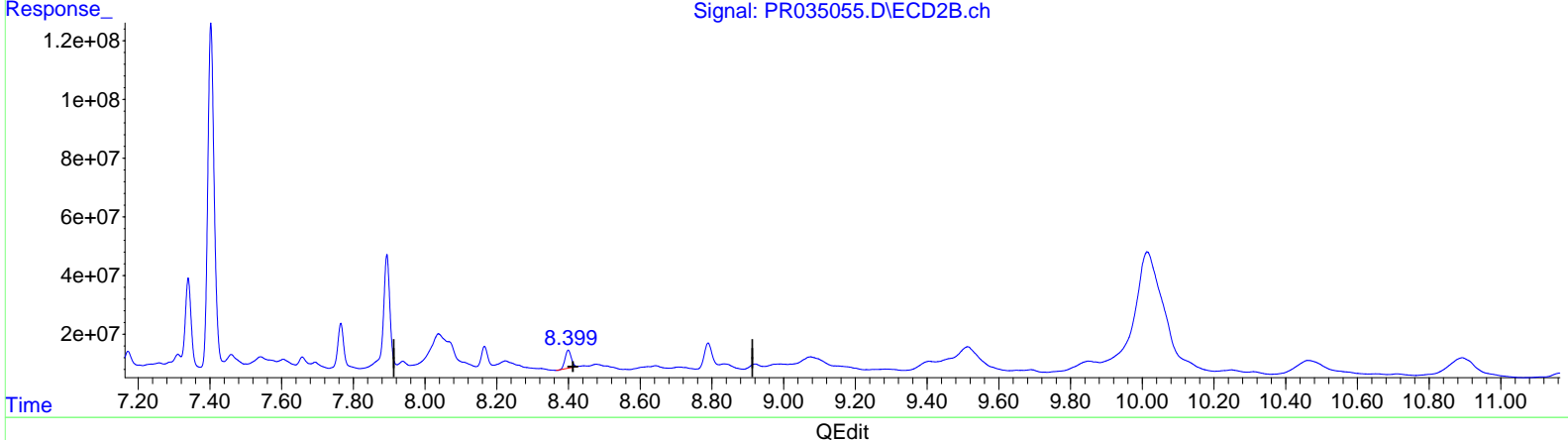
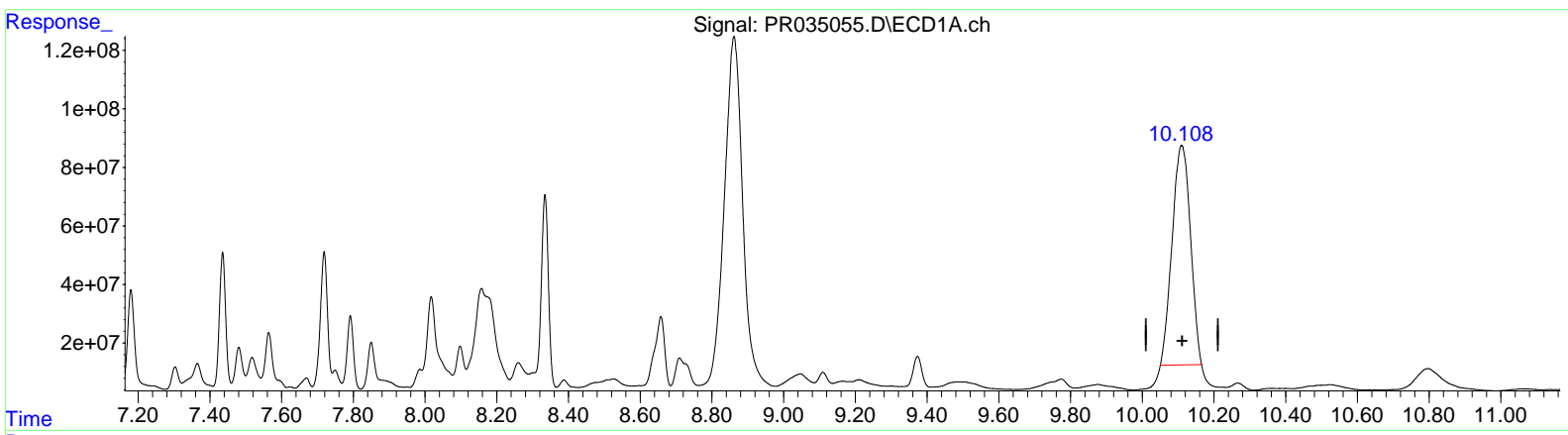
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W0

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.110min 1348.874 ng/ml
 response 2651782254

(2) Decachlorobiphenyl #2 (SA)
 8.400min 16.526 ng/ml
 response 72657252

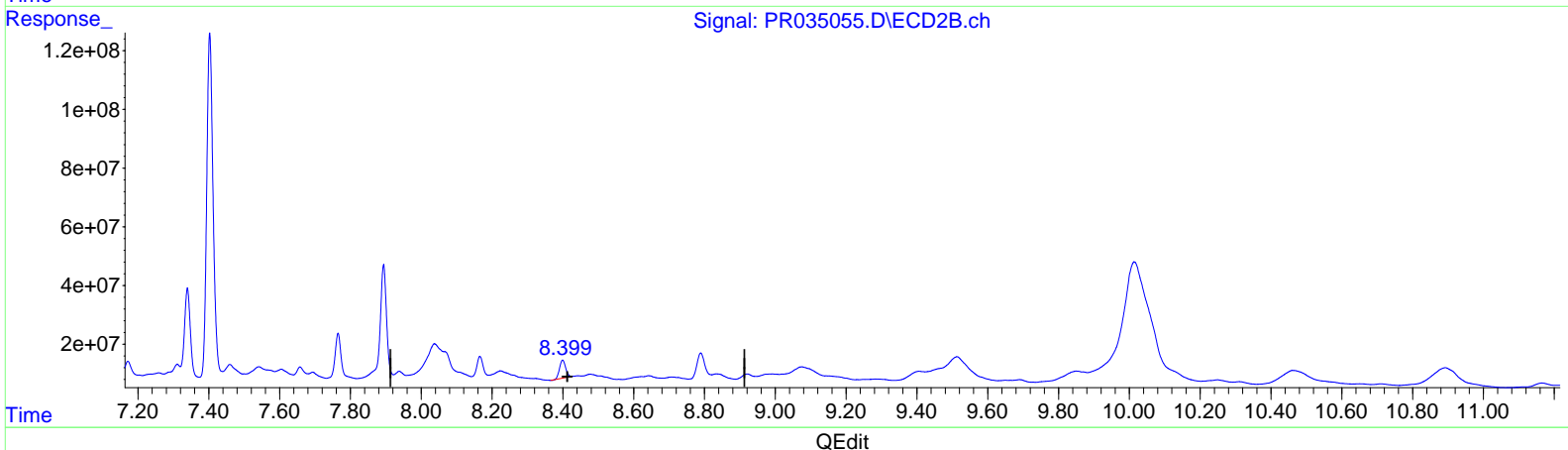
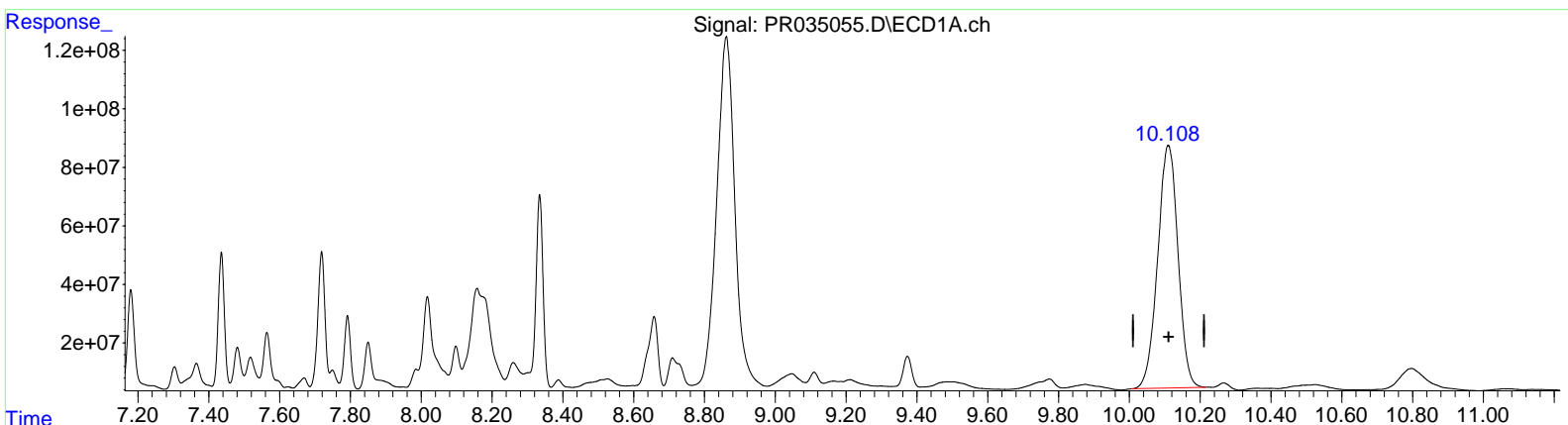
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W0

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.108min 1682.246 ng/ml m
 response 3307165125

(2) Decachlorobiphenyl #2 (SA)
 8.400min 16.526 ng/ml
 response 72657252

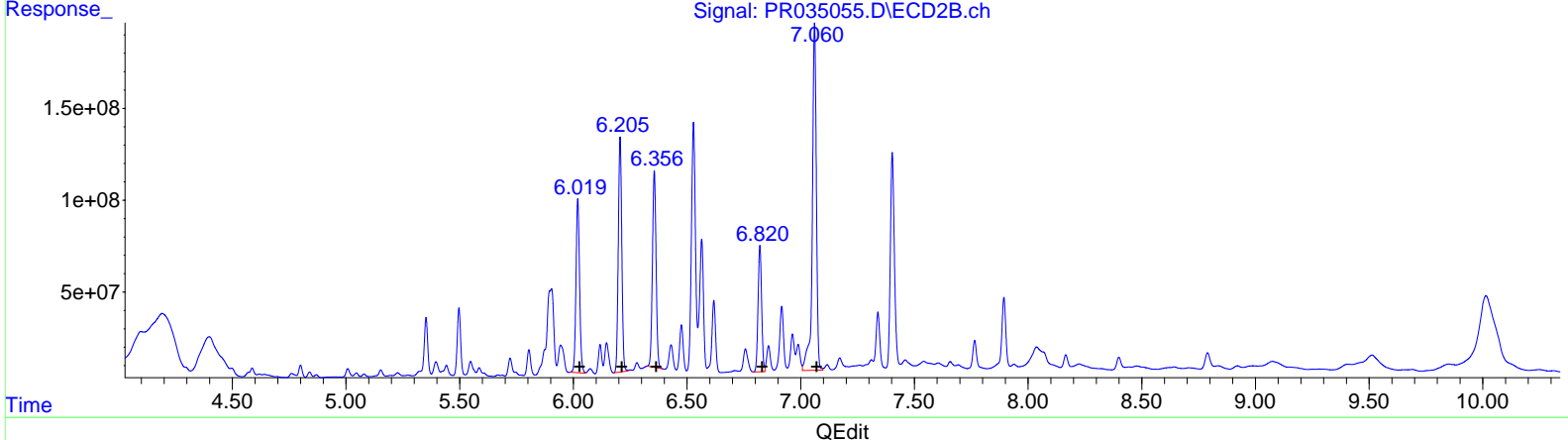
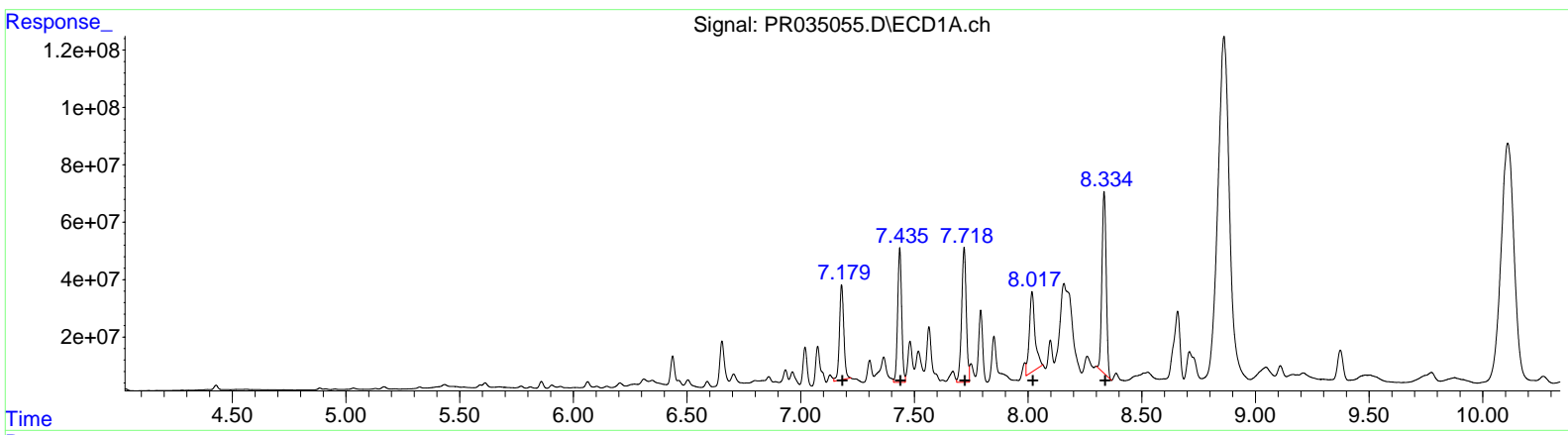
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W0

Manual Integrations
APPROVED
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 12/29/2018 12:17:31 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 440394905 | 4684.65 |
| 7.44 | 572462707 | 4930.72 |
| 7.72 | 664776562 | 4763.50 |
| 8.02 | 487101975 | 5640.13 |
| 8.33 | 829993212 | 4596.93 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|------------|---------|
| 6.02 | 1041324640 | 4844.00 |
| 6.21 | 1368834327 | 5030.23 |
| 6.36 | 1187588066 | 4784.11 |
| 6.82 | 746487051 | 4365.67 |
| 7.06 | 2345135535 | 4848.87 |

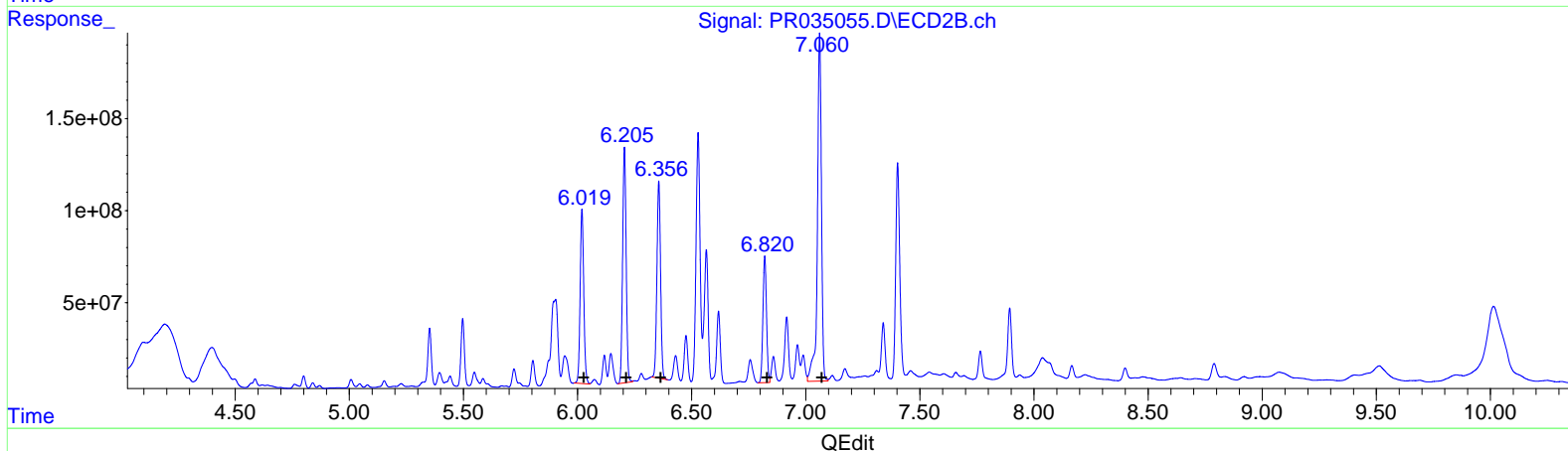
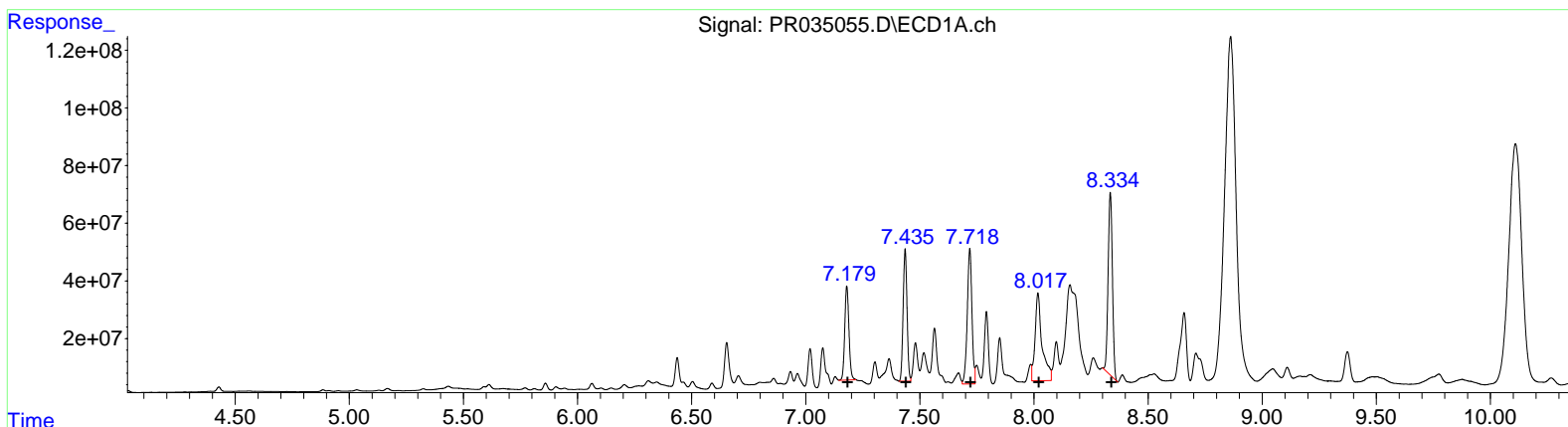
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W0

Manual Integrations
APPROVED
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 12/29/2018 12:17:31 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 417865768 | 4445.00 |
| 7.44 | 542325700 | 4671.15 |
| 7.72 | 664776562 | 4763.50 |
| 8.02 | 647333028 | 7495.44 |
| 8.33 | 829993212 | 4596.93 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|------------|---------|
| 6.02 | 1041324640 | 4844.00 |
| 6.21 | 1368834327 | 5030.23 |
| 6.36 | 1187588066 | 4784.11 |
| 6.82 | 746487051 | 4365.67 |
| 7.06 | 2345135535 | 4848.87 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035055.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:32
 Operator : SM\SJ
 Sample : J6428-06
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W0

Manual Integrations
APPROVED

Sohil
 12/29/2018 12:17:31 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|-----------|----------|
| 1) SA Tetrachlo... | 4.428 | 3.514 | 17658381 | 41568421 | 9.079m | 11.924 # |
| 2) SA Decachlor... | 10.108 | 8.400 | 3307.2E6 | 72657252 | 1682.246m | 16.526 # |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|----------|-----------|------------|
| 31) L7 AR-1260-1 | 7.179 | 6.020 | 417.9E6 | 1041.3E6 | 4445.002m | 4843.997 |
| 32) L7 AR-1260-2 | 7.435 | 6.206 | 542.3E6 | 1368.8E6 | 4671.148m | 5030.231 |
| 33) L7 AR-1260-3 | 7.719 | 6.356 | 664.8E6 | 1187.6E6 | 4763.497 | 4784.112 |
| 34) L7 AR-1260-4 | 8.017 | 6.821 | 647.3E6 | 746.5E6 | 7495.440m | 4365.668 # |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 830.0E6 | 2345.1E6 | 4596.932 | 4848.874 |

S3
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W0DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-06DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035155.D
 % Solids : 78 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

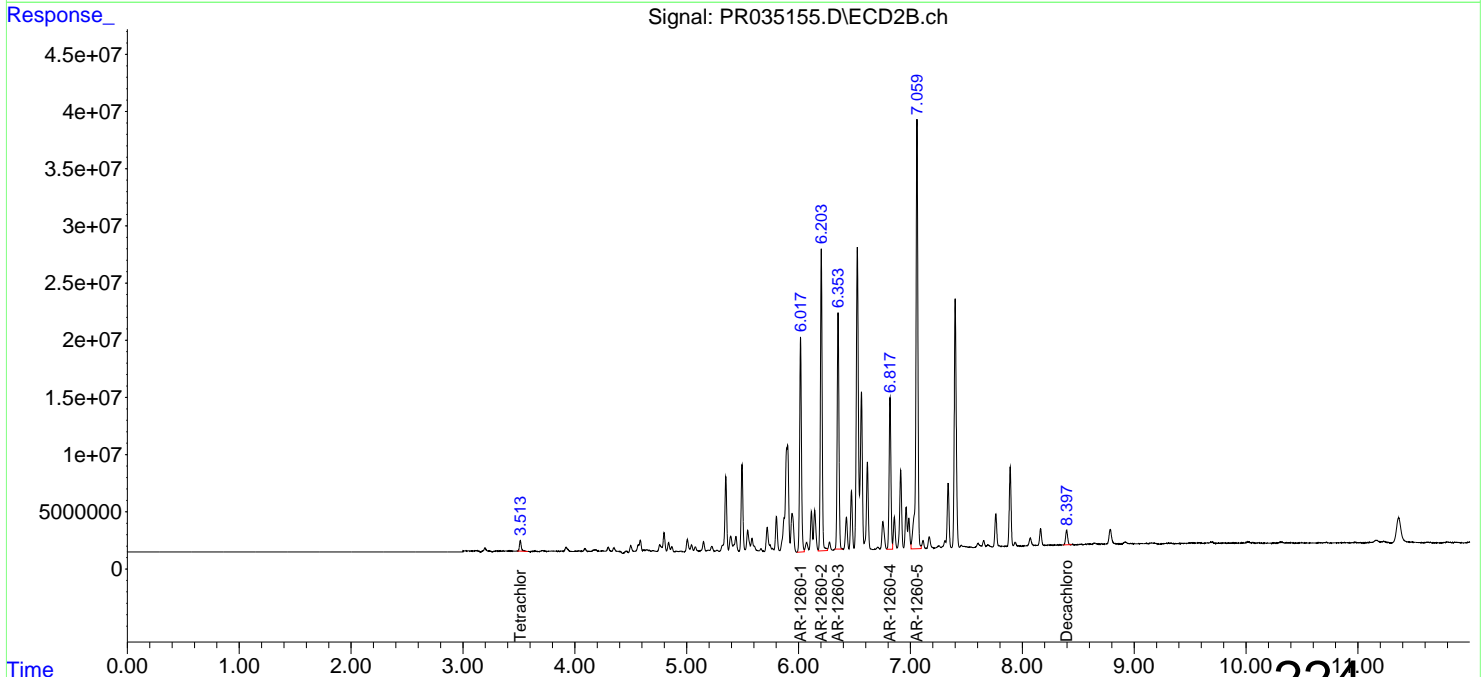
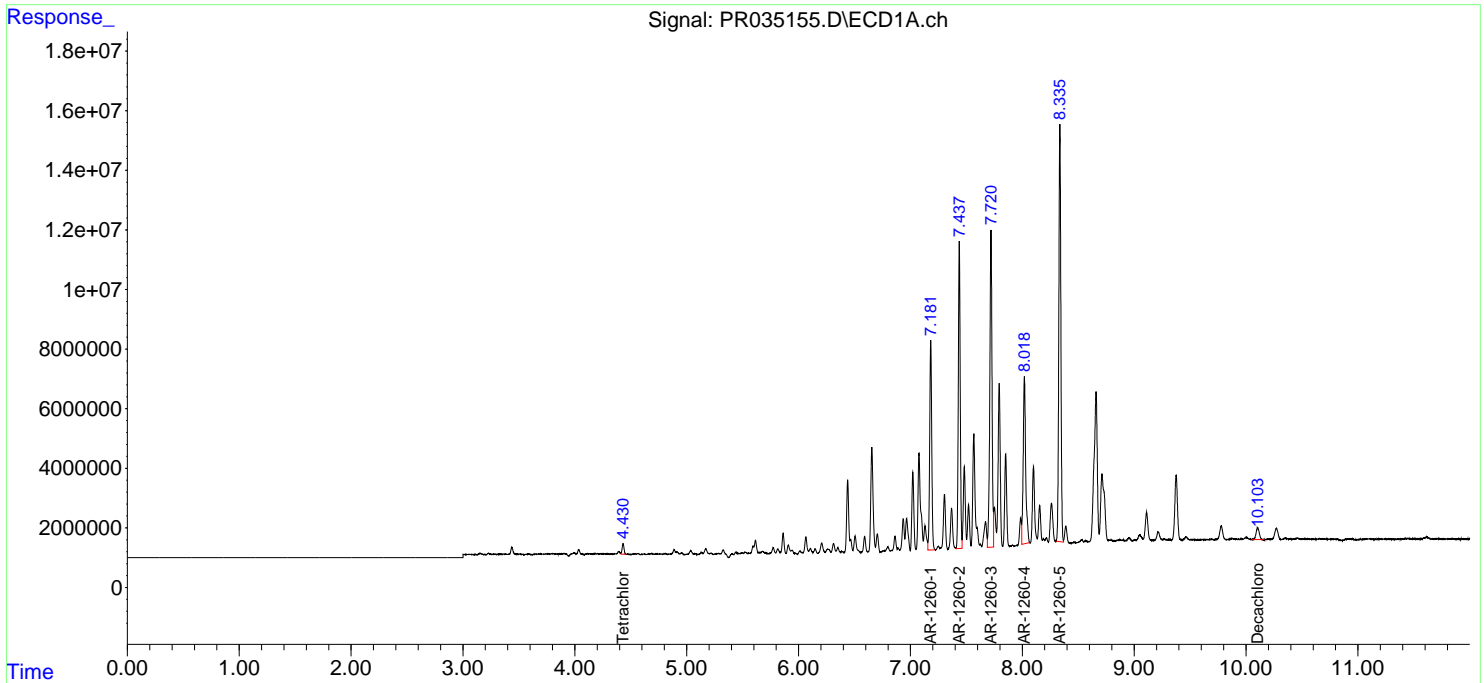
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 210 | U |
| 11104-28-2 | Aroclor-1221 | 210 | U |
| 11141-16-5 | Aroclor-1232 | 210 | U |
| 53469-21-9 | Aroclor-1242 | 210 | U |
| 12672-29-6 | Aroclor-1248 | 210 | U |
| 11097-69-1 | Aroclor-1254 | 210 | U |
| 11096-82-5 | Aroclor-1260 | 2000 | D |
| 37324-23-5 | Aroclor-1262 | 210 | U |
| 11100-14-4 | Aroclor-1268 | 210 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035155.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:12
 Operator : SM\SJ
 Sample : J6428-06DL 5X
 Misc :
 ALS Vial : 121 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W0DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 10:03:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035155.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:12
 Operator : SM\SJ
 Sample : J6428-06DL 5X
 Misc :
 ALS Vial : 121 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W0DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 10:03:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.431 | 3.513 | 4264891 | 10823078 | 2.193 | 3.105 # |
| 2) SA Decachlor... | 10.103 | 8.397 | 7695752 | 15873634 | 3.915 | 3.610 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.018 | 89157494 | 208.8E6 | 948.403 | 971.119 |
| 32) L7 AR-1260-2 | 7.437 | 6.203 | 121.8E6 | 286.5E6 | 1049.357 | 1052.692 |
| 33) L7 AR-1260-3 | 7.721 | 6.353 | 145.9E6 | 225.9E6 | 1045.237 | 910.035 |
| 34) L7 AR-1260-4 | 8.019 | 6.818 | 86875554 | 147.1E6 | 1005.928 | 860.307 |
| 35) L7 AR-1260-5 | 8.336 | 7.059 | 177.4E6 | 464.1E6 | 982.501 | 959.653 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W1

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-07
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035056.D
 % Solids : 81.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

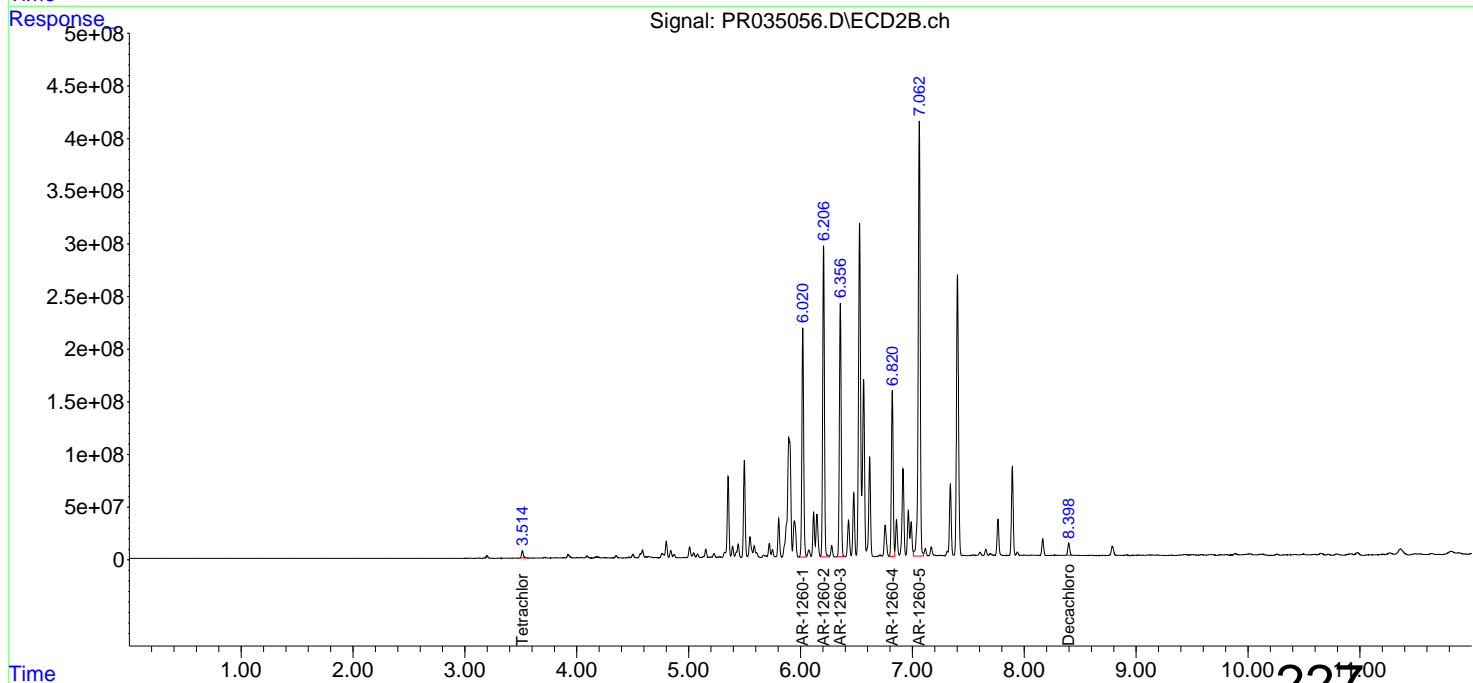
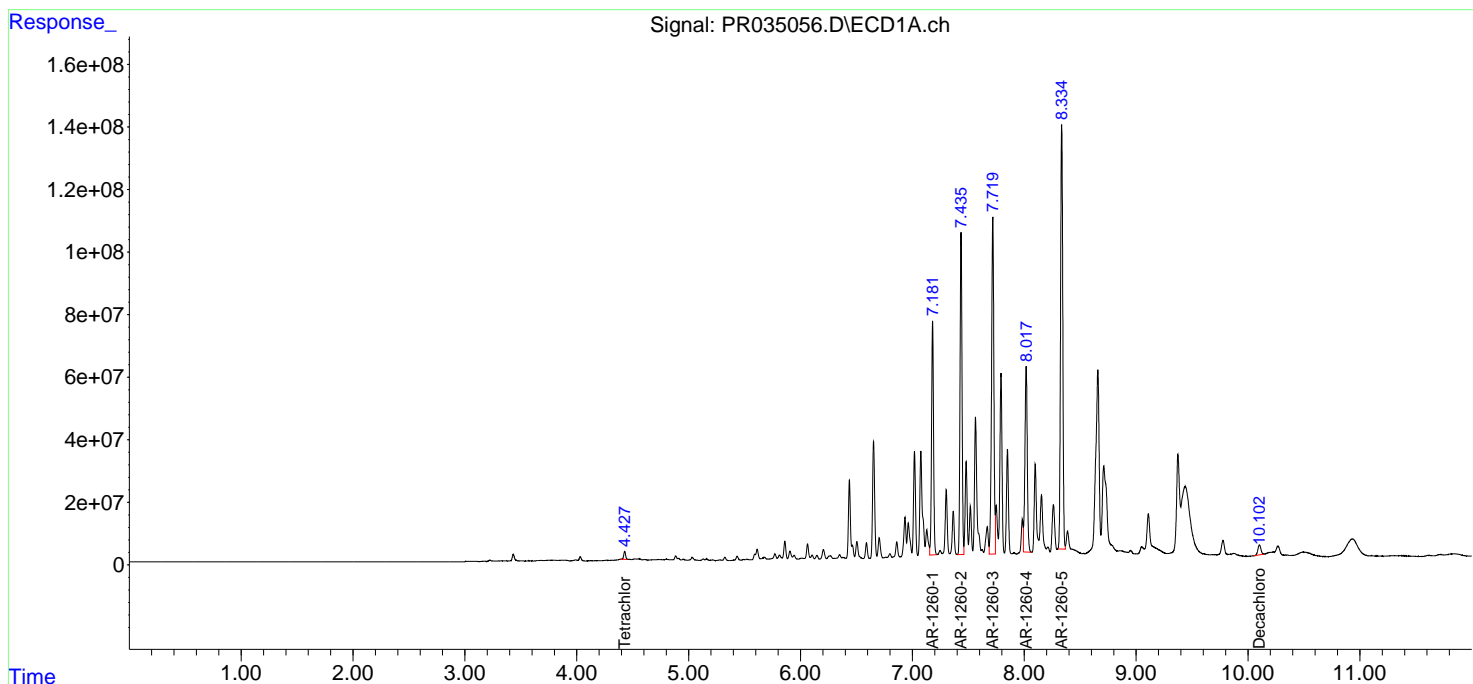
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 41 | U |
| 11104-28-2 | Aroclor-1221 | 41 | U |
| 11141-16-5 | Aroclor-1232 | 41 | U |
| 53469-21-9 | Aroclor-1242 | 41 | U |
| 12672-29-6 | Aroclor-1248 | 41 | U |
| 11097-69-1 | Aroclor-1254 | 41 | U |
| 11096-82-5 | Aroclor-1260 | 4300 | EC |
| 37324-23-5 | Aroclor-1262 | 41 | U |
| 11100-14-4 | Aroclor-1268 | 41 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035056.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:46
 Operator : SM\SJ
 Sample : J6428-07
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:31 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035056.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 04:46
 Operator : SM\SJ
 Sample : J6428-07
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:02:31 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 30032932 | 84076867 | 15.441 | 24.118 # |
| 2) SA Decachlor... | 10.102 | 8.398 | 60580682 | 139.5E6 | 30.815 | 31.729 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 921.4E6 | 2422.1E6 | 9801.308 | 11267.195 |
| 32) L7 AR-1260-2 | 7.435 | 6.206 | 1270.2E6 | 3222.1E6 | 10940.382 | 11840.609 |
| 33) L7 AR-1260-3 | 7.719 | 6.356 | 1544.4E6 | 2693.1E6 | 11066.501 | 10848.846 |
| 34) L7 AR-1260-4 | 8.017 | 6.821 | 880.7E6 | 1760.2E6 | 10197.041 | 10293.926 |
| 35) L7 AR-1260-5 | 8.335 | 7.062 | 1875.6E6 | 5173.1E6 | 10388.135 | 10696.119 |
| ----- | | | | | | |

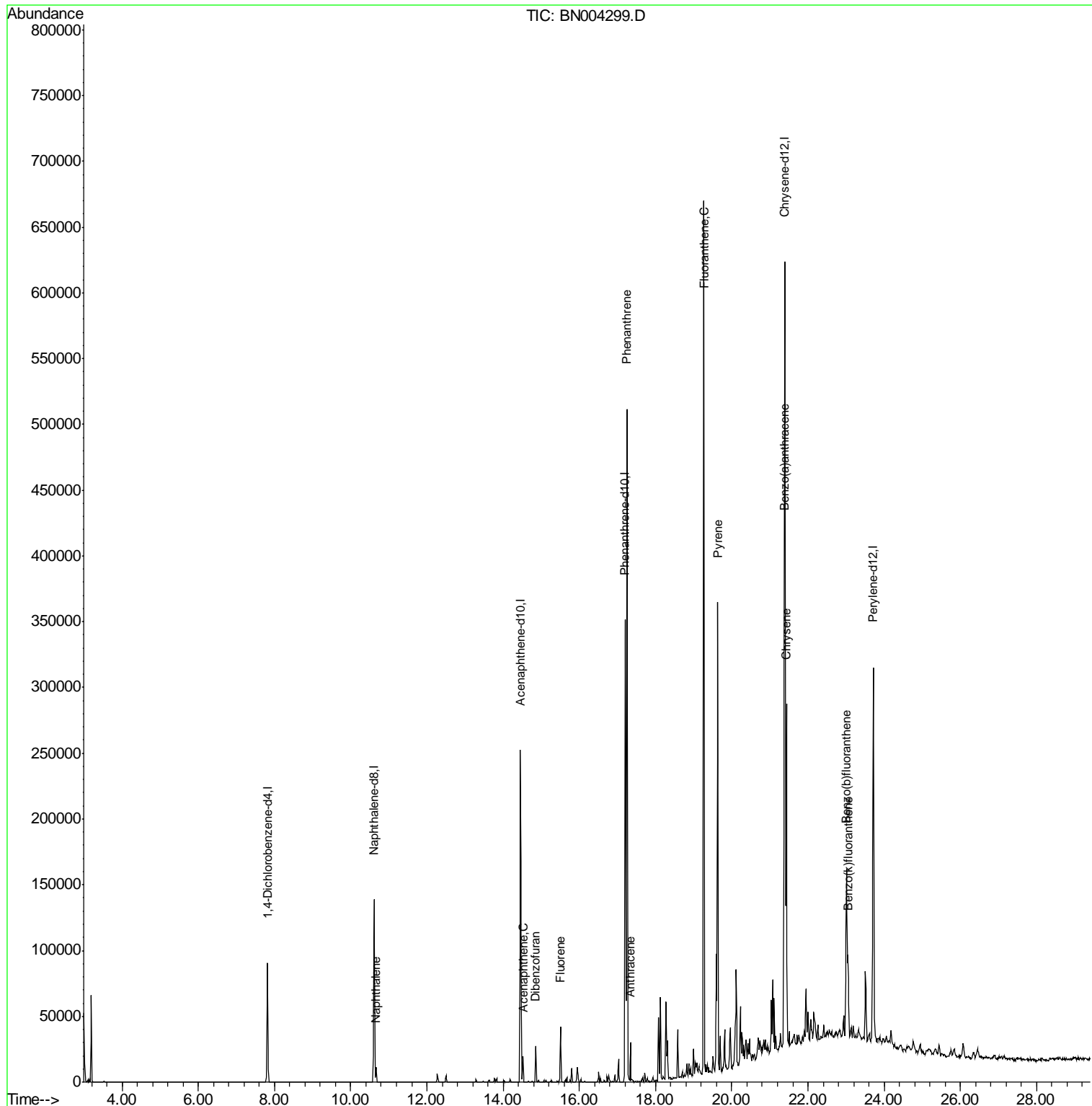
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

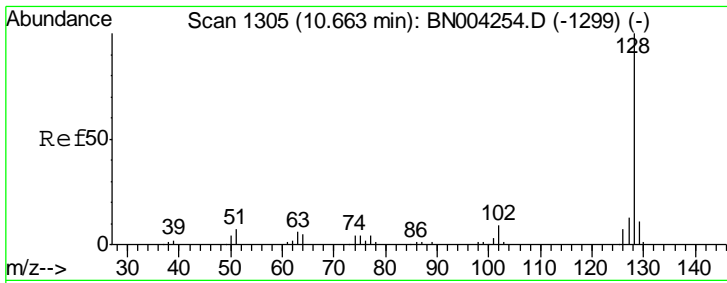
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampled :
 A41W1

Manual Integrations
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 1/2/2019 3:42:14 PM

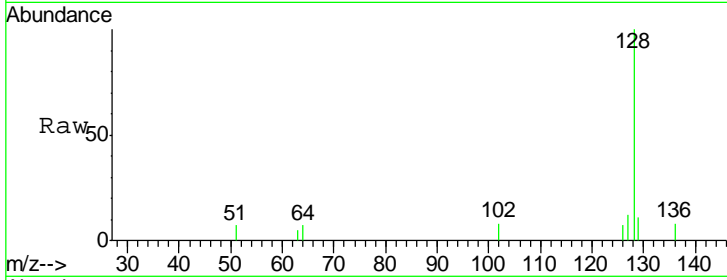
Quant Time: Dec 31 01:49:30 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#28
 Naphthalene
 Concen: 1.716 ng/ul
 RT: 10.66 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

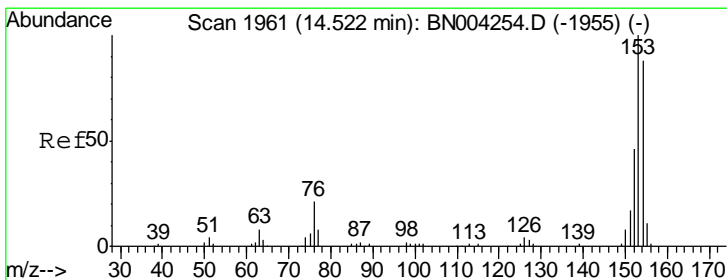
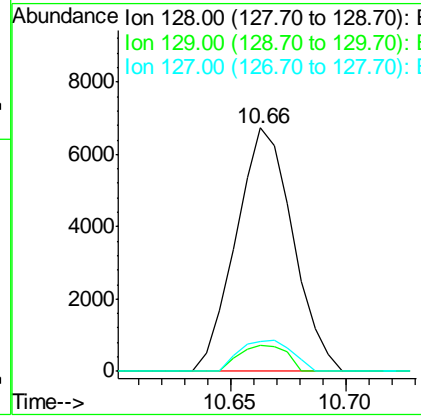
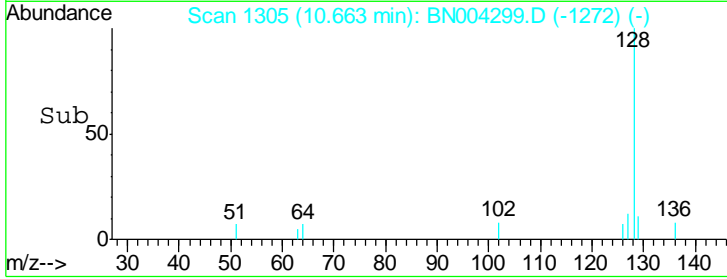
Instrument :
 BNA_N
ClientSampled :
 A41W1



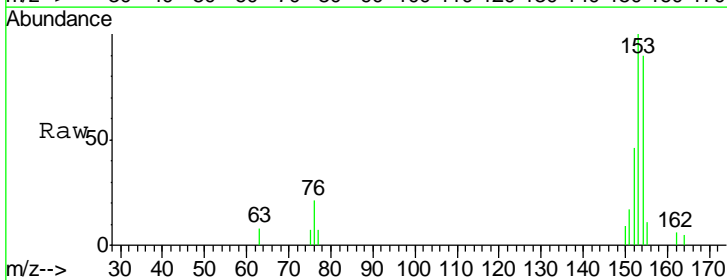
Tgt Ion: 128 Resp: 11531

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100 | | |
| 129 | 10.9 | 8.6 | 12.8 |
| 127 | 12.3 | 10.6 | 16.0 |

Manual Integrations
APPROVED
 Sohil
 1/2/2019 3:42:14 PM

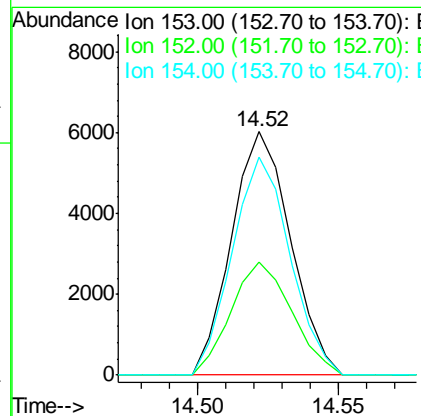
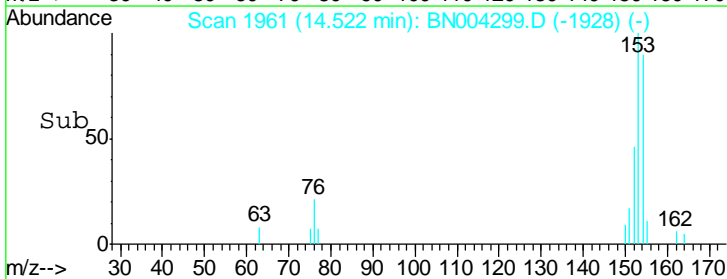


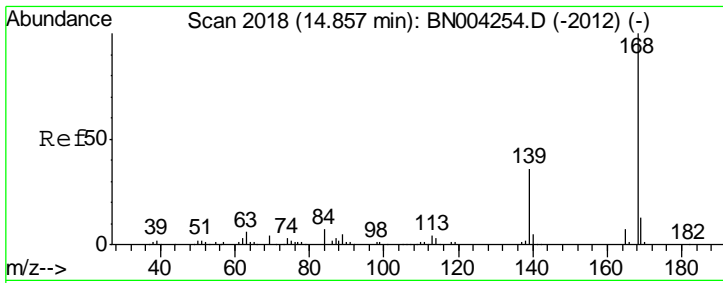
#49
 Acenaphthene
 Concen: 1.352 ng/ul
 RT: 14.52 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49



Tgt Ion: 153 Resp: 8712

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100 | | |
| 152 | 46.5 | 37.8 | 56.6 |
| 154 | 89.6 | 71.0 | 106.6 |



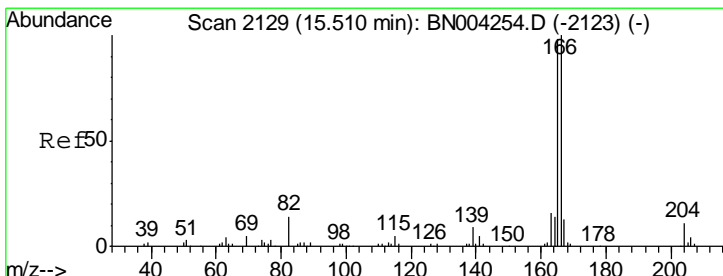
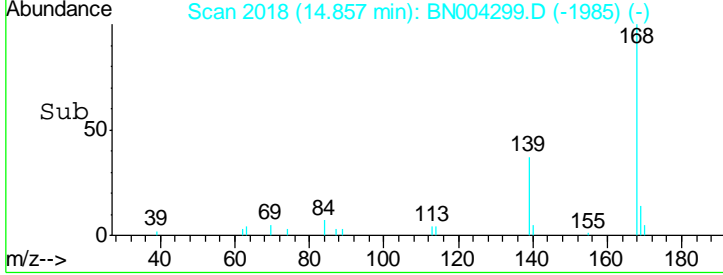
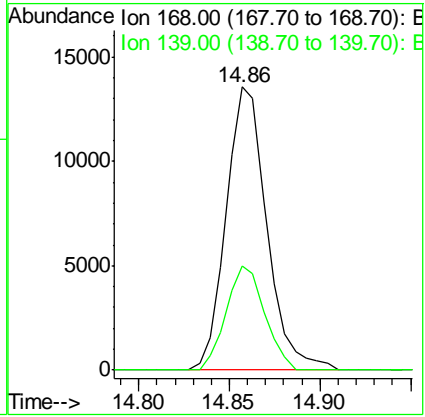
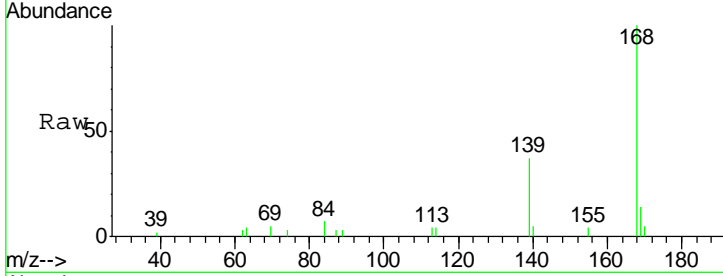


#53
 Dibenzofuran
 Concen: 2.308 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

Instrument :
 BNA_N
 ClientSampled :
 A41W1

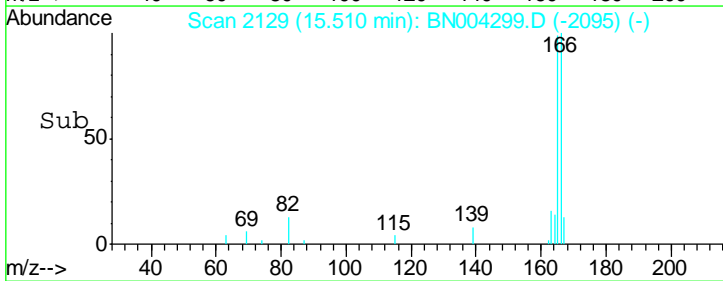
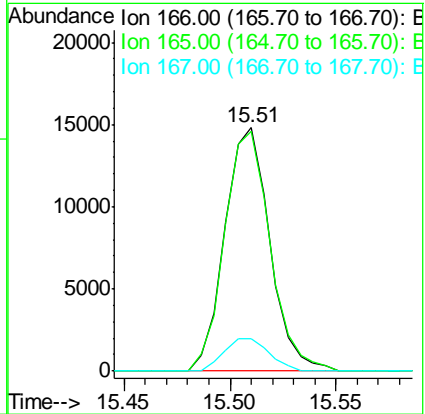
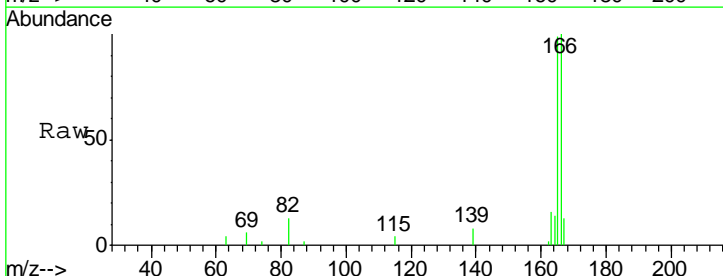
Tgt Ion:168 Resp: 21105
 Ion Ratio Lower Upper
 168 100
 139 36.9 28.8 43.2

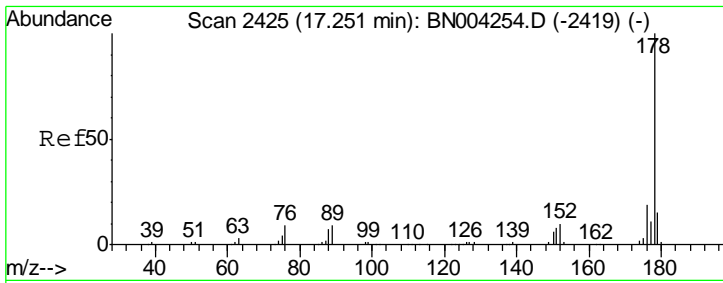
Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:14 PM



#58
 Fluorene
 Concen: 2.865 ng/ul
 RT: 15.51 min Scan# 2129
 Delta R.T. -0.00 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

Tgt Ion:166 Resp: 21817
 Ion Ratio Lower Upper
 166 100
 165 98.7 78.6 117.8
 167 13.4 10.3 15.5



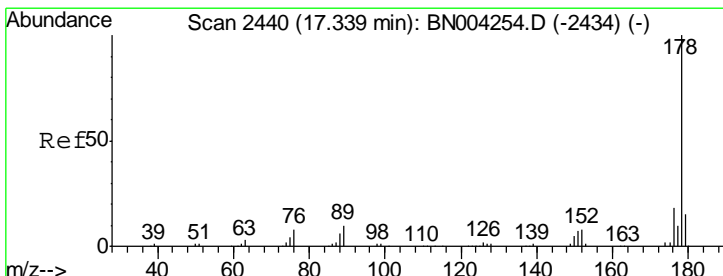
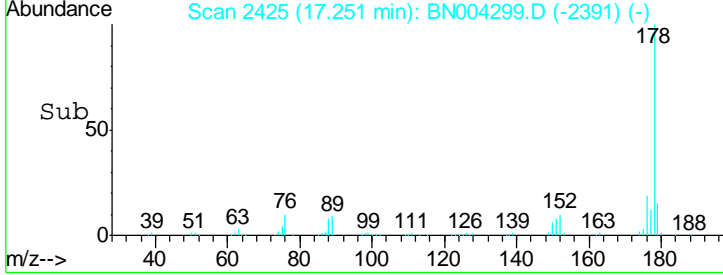
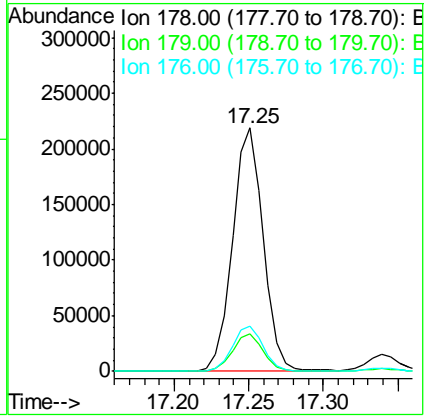
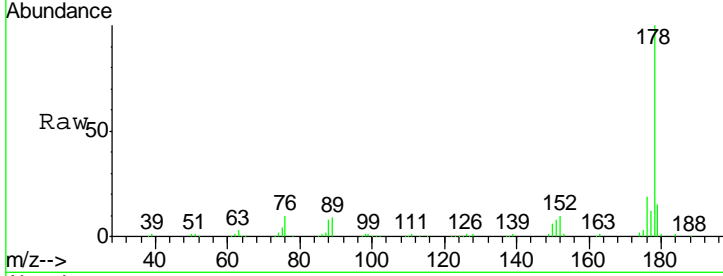


#69
 Phenanthrene
 Concen: 25.915 ng/ul
 RT: 17.25 min Scan# 2425
 Delta R.T. -0.00 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

Instrument :
 BNA_N
 ClientSampled :
 A41W1

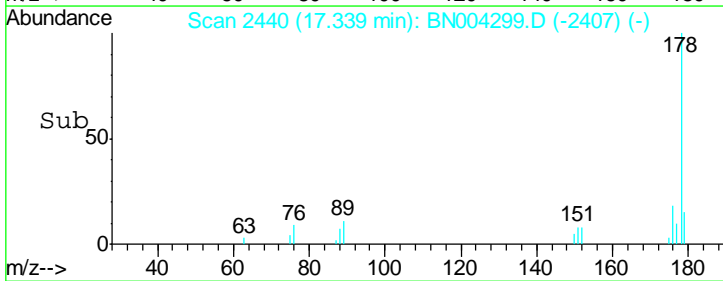
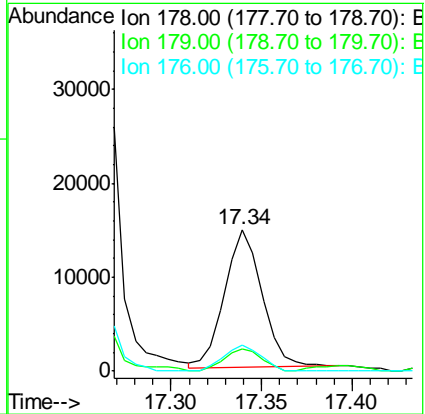
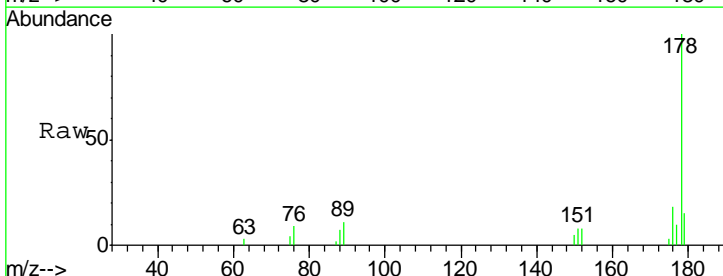
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 178 | 314273 | | |
| 179 | 15.5 | 12.1 | 18.1 |
| 176 | 18.8 | 15.0 | 22.6 |

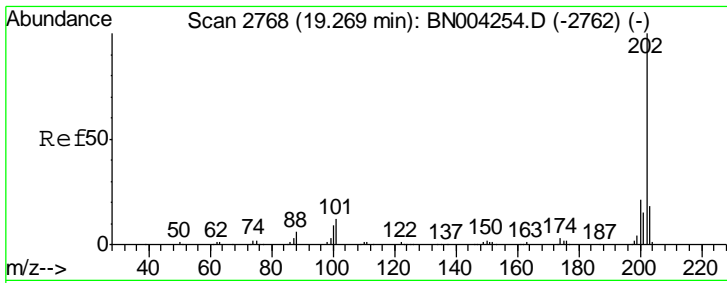
Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:14 PM



#71
 Anthracene
 Concen: 1.699 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 178 | 21125 | | |
| 179 | 15.3 | 12.1 | 18.1 |
| 176 | 18.4 | 15.2 | 22.8 |





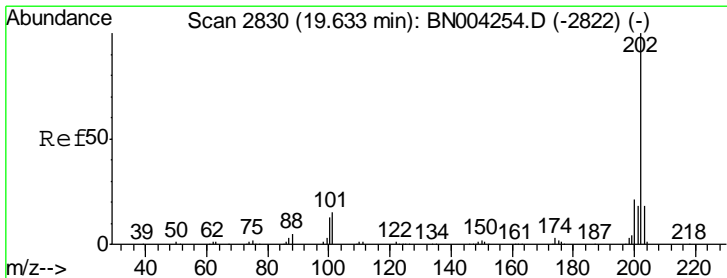
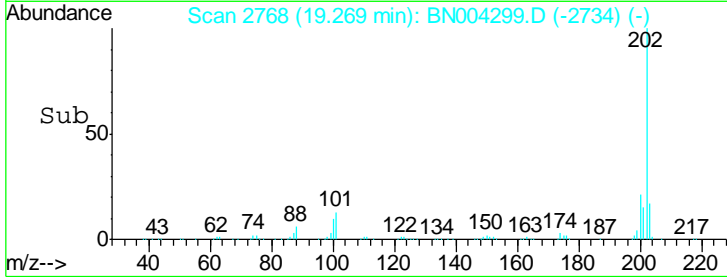
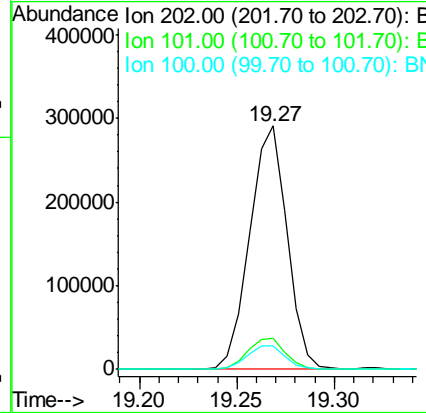
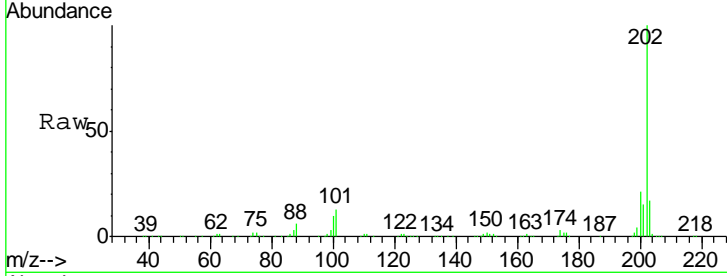
#76
 Fluoranthene
 Concen: 25.921 ng/ul
 RT: 19.27 min Scan# 2768
 Delta R.T. -0.00 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

Instrument :
 BNA_N
ClientSampled :
 A41W1

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 202 | 385303 | | |
| 101 | 12.8 | 10.2 | 15.2 |
| 100 | 9.6 | 7.8 | 11.8 |

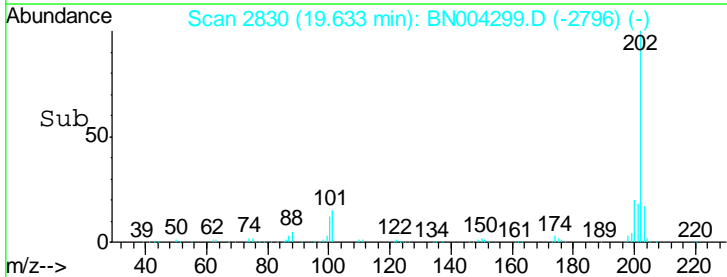
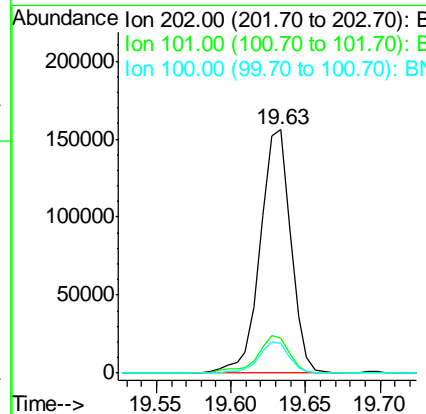
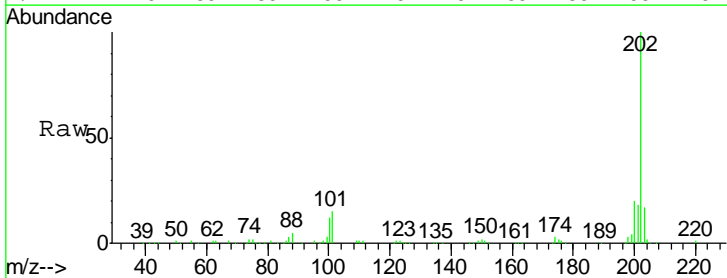
Manual Integrations
APPROVED

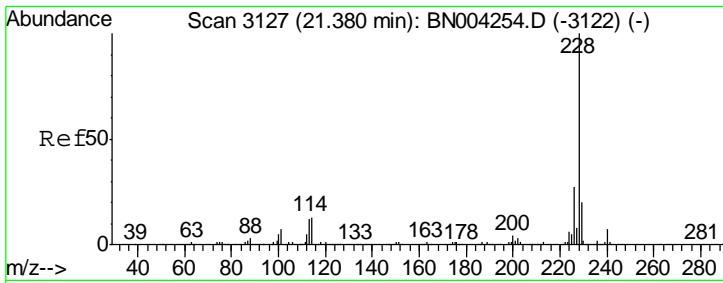
Sohil
 1/2/2019 3:42:14 PM



#79
 Pyrene
 Concen: 16.667 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. -0.00 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 202 | 220488 | | |
| 101 | 14.6 | 12.2 | 18.2 |
| 100 | 12.2 | 9.9 | 14.9 |



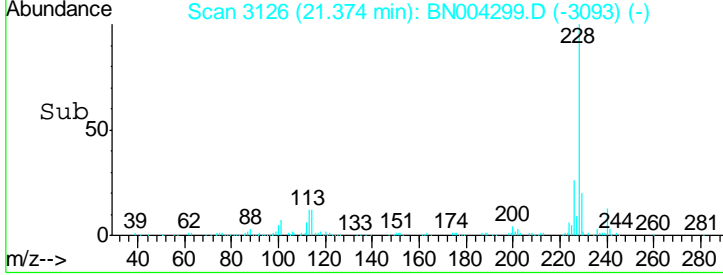
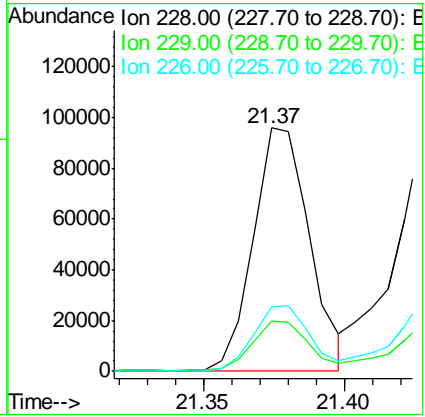
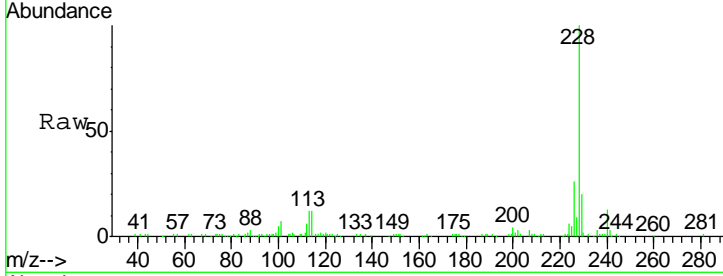


#82
 Benzo(a)anthracene
 Concen: 8.985 ng/ul
 RT: 21.37 min Scan# 3126
 Delta R.T. -0.01 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

Instrument :
 BNA_N
 ClientSampled :
 A41W1

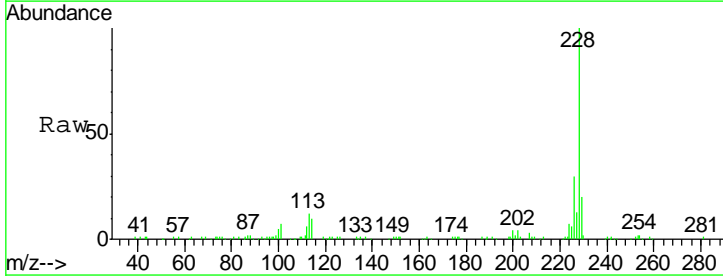
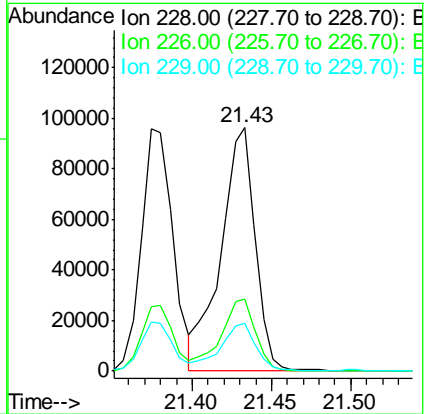
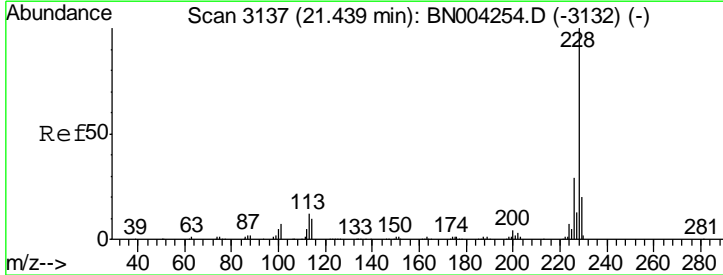
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 132676 | | |
| 229 | 20.4 | 15.9 | 23.9 |
| 226 | 26.5 | 21.4 | 32.2 |

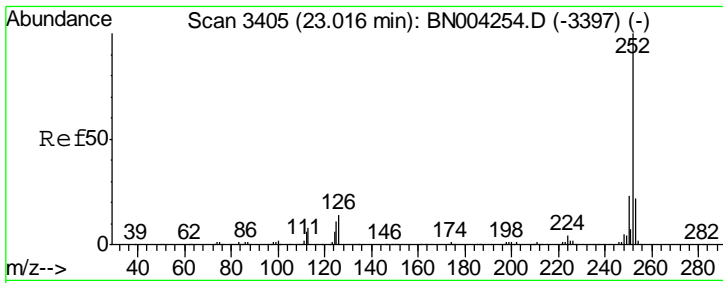
Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:14 PM



#84
 Chrysene
 Concen: 10.411 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. -0.00 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 143993 | | |
| 226 | 29.6 | 23.8 | 35.8 |
| 229 | 19.7 | 15.8 | 23.6 |



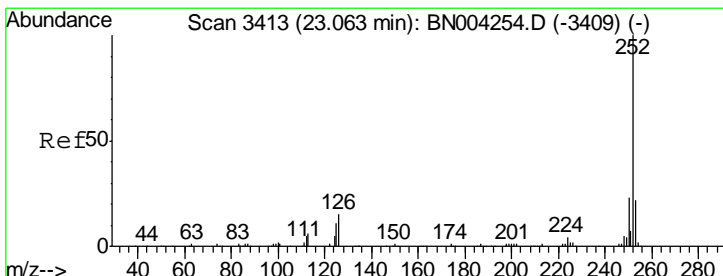
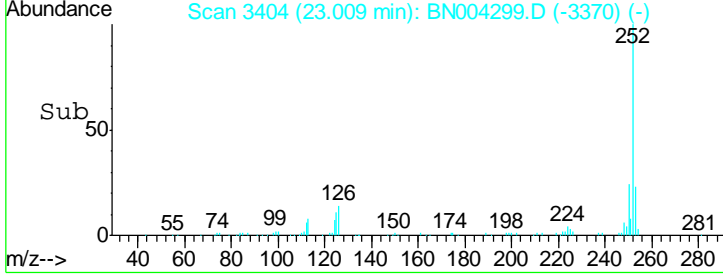
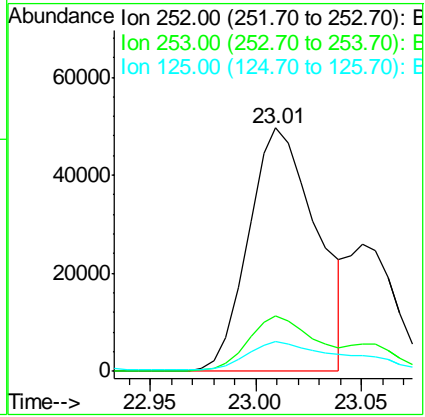
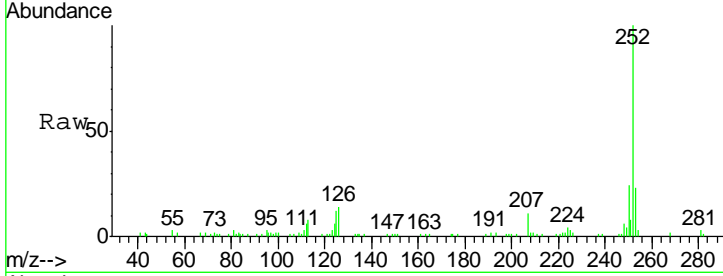


#87
 Benzo(b)fluoranthene
 Concen: 8.748 ng/ul
 RT: 23.01 min Scan# 3404
 Delta R.T. -0.00 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

Instrument :
 BNA_N
 ClientSampled :
 A41W1

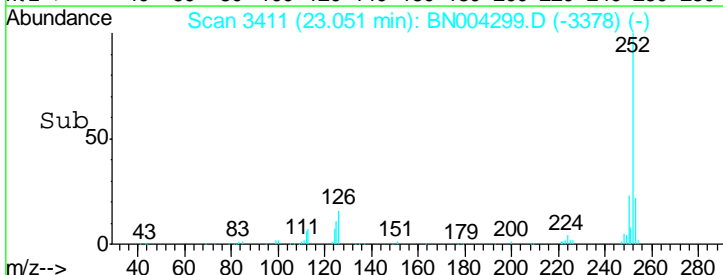
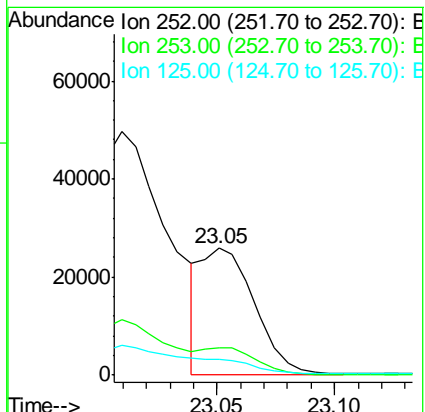
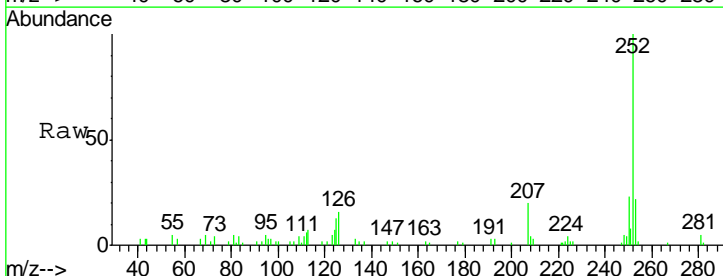
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 252 | 111072 | | |
| 253 | 22.7 | 17.3 | 25.9 |
| 125 | 12.2 | 8.2 | 12.4 |

Manual Integrations
APPROVED
 Sohil
 1/2/2019 3:42:14 PM



#88
 Benzo(k)fluoranthene
 Concen: 3.439 ng/ul m
 RT: 23.05 min Scan# 3411
 Delta R.T. -0.01 min
 Lab File: BN004299.D
 Acq: 29 Dec 2018 13:49

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 252 | 40881 | | |
| 253 | 21.8 | 17.1 | 25.7 |
| 125 | 12.7 | 7.9 | 11.9# |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W1

Manual Integrations
 APPROVED

Sohil
 1/2/2019 3:42:14 PM

Quant Time: Dec 31 01:49:30 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 26053 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 125266 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 89685 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 209888 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.39 | 240 | 236790 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 211959 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|--------------------------|-------|------|----------|--------|-------|--------|
| 28) Naphthalene | 10.66 | 128 | 11531 | 1.716 | ng/ul | 98 |
| 49) Acenaphthene | 14.52 | 153 | 8712 | 1.352 | ng/ul | 99 |
| 53) Dibenzofuran | 14.86 | 168 | 21105 | 2.308 | ng/ul | 98 |
| 58) Fluorene | 15.51 | 166 | 21817 | 2.865 | ng/ul | 99 |
| 69) Phenanthrene | 17.25 | 178 | 314273 | 25.915 | ng/ul | 100 |
| 71) Anthracene | 17.34 | 178 | 21125 | 1.699 | ng/ul | 99 |
| 76) Fluoranthene | 19.27 | 202 | 385303 | 25.921 | ng/ul | 100 |
| 79) Pyrene | 19.63 | 202 | 220488 | 16.667 | ng/ul | 99 |
| 82) Benzo(a)anthracene | 21.37 | 228 | 132676 | 8.985 | ng/ul | 99 |
| 84) Chrysene | 21.43 | 228 | 143993 | 10.411 | ng/ul | 100 |
| 87) Benzo(b)fluoranthene | 23.01 | 252 | 111072 | 8.748 | ng/ul | 97 |
| 88) Benzo(k)fluoranthene | 23.05 | 252 | 40881m | 3.439 | ng/ul | |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W1

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 41 | rVB | 65889 | 73159 | 6.70% | 0.967% |
| 2 | 7.816 | 816 | 821 | 829 | rBB | 90569 | 137129 | 12.56% | 1.813% |
| 3 | 10.616 | 1290 | 1297 | 1302 | rBV | 139060 | 232369 | 21.28% | 3.072% |
| 4 | 10.663 | 1302 | 1305 | 1311 | rVB | 11184 | 17167 | 1.57% | 0.227% |
| 5 | 14.457 | 1942 | 1950 | 1957 | rBV2 | 252339 | 399747 | 36.60% | 5.284% |
| 6 | 14.522 | 1957 | 1961 | 1966 | rVB | 19772 | 27663 | 2.53% | 0.366% |
| 7 | 14.857 | 2013 | 2018 | 2027 | rBB | 27426 | 39003 | 3.57% | 0.516% |
| 8 | 15.510 | 2123 | 2129 | 2136 | rBB | 41979 | 61724 | 5.65% | 0.816% |
| 9 | 15.798 | 2174 | 2178 | 2182 | rBB | 10800 | 13533 | 1.24% | 0.179% |
| 10 | 15.945 | 2199 | 2203 | 2211 | rBB | 11357 | 21185 | 1.94% | 0.280% |
| 11 | 16.510 | 2292 | 2299 | 2303 | rBB2 | 8011 | 11473 | 1.05% | 0.152% |
| 12 | 17.027 | 2382 | 2387 | 2392 | rVB | 17385 | 23571 | 2.16% | 0.312% |
| 13 | 17.204 | 2411 | 2417 | 2421 | rBV2 | 351597 | 510925 | 46.78% | 6.754% |
| 14 | 17.251 | 2421 | 2425 | 2436 | rVV | 510968 | 713370 | 65.31% | 9.430% |
| 15 | 17.339 | 2436 | 2440 | 2444 | rVV | 29004 | 38598 | 3.53% | 0.510% |
| 16 | 18.074 | 2560 | 2565 | 2569 | rBV | 47930 | 65188 | 5.97% | 0.862% |
| 17 | 18.127 | 2569 | 2574 | 2581 | rVB | 62640 | 85921 | 7.87% | 1.136% |
| 18 | 18.274 | 2593 | 2599 | 2603 | rBV2 | 59502 | 108865 | 9.97% | 1.439% |
| 19 | 18.310 | 2603 | 2605 | 2610 | rVB | 29058 | 35019 | 3.21% | 0.463% |
| 20 | 18.580 | 2647 | 2651 | 2657 | rBV | 36405 | 47636 | 4.36% | 0.630% |
| 21 | 18.821 | 2687 | 2692 | 2696 | rBV3 | 9558 | 12260 | 1.12% | 0.162% |
| 22 | 18.874 | 2696 | 2701 | 2705 | rBV | 9466 | 11625 | 1.06% | 0.154% |
| 23 | 18.992 | 2717 | 2721 | 2726 | rBV | 20358 | 29140 | 2.67% | 0.385% |
| 24 | 19.051 | 2726 | 2731 | 2735 | rBV2 | 8271 | 17293 | 1.58% | 0.229% |
| 25 | 19.269 | 2762 | 2768 | 2774 | rBV | 664120 | 891675 | 81.64% | 11.787% |
| 26 | 19.510 | 2804 | 2809 | 2816 | rBV2 | 11792 | 19185 | 1.76% | 0.254% |
| 27 | 19.592 | 2817 | 2823 | 2826 | rVV2 | 89838 | 140712 | 12.88% | 1.860% |
| 28 | 19.633 | 2826 | 2830 | 2837 | rVV | 356823 | 487506 | 44.64% | 6.445% |
| 29 | 19.698 | 2837 | 2841 | 2846 | rVB | 26919 | 33652 | 3.08% | 0.445% |
| 30 | 19.810 | 2855 | 2860 | 2864 | rBV | 29476 | 39129 | 3.58% | 0.517% |
| 31 | 19.963 | 2879 | 2886 | 2893 | rVB | 31880 | 63244 | 5.79% | 0.836% |
| 32 | 20.121 | 2901 | 2913 | 2917 | rBV3 | 73577 | 162281 | 14.86% | 2.145% |
| 33 | 20.221 | 2925 | 2930 | 2934 | rBV2 | 44852 | 66857 | 6.12% | 0.884% |
| 34 | 20.263 | 2934 | 2937 | 2940 | rVV | 23377 | 39107 | 3.58% | 0.517% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W1

Integration Parameters: LSCINT.P
 Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 20.316 | 2944 | 2946 | 2949 | rVV2 | 11135 | 11662 | 1.07% | 0.154% |
| 36 | 20.374 | 2950 | 2956 | 2960 | rVB4 | 14986 | 29202 | 2.67% | 0.386% |
| 37 | 20.421 | 2961 | 2964 | 2967 | rBV | 11406 | 13066 | 1.20% | 0.173% |
| 38 | 20.468 | 2968 | 2972 | 2975 | rVB2 | 10659 | 14217 | 1.30% | 0.188% |
| 39 | 20.704 | 3009 | 3012 | 3016 | rVB4 | 9556 | 14302 | 1.31% | 0.189% |
| 40 | 20.839 | 3031 | 3035 | 3038 | rBV5 | 7548 | 11073 | 1.01% | 0.146% |
| 41 | 21.039 | 3065 | 3069 | 3072 | rBV | 39364 | 51912 | 4.75% | 0.686% |
| 42 | 21.074 | 3072 | 3075 | 3079 | rVV | 54138 | 71555 | 6.55% | 0.946% |
| 43 | 21.115 | 3079 | 3082 | 3086 | rVV | 39756 | 46733 | 4.28% | 0.618% |
| 44 | 21.157 | 3086 | 3089 | 3093 | rVB2 | 10562 | 13496 | 1.24% | 0.178% |
| 45 | 21.280 | 3106 | 3110 | 3116 | rBV | 10960 | 16858 | 1.54% | 0.223% |
| 46 | 21.392 | 3121 | 3129 | 3133 | rVV2 | 596856 | 1092205 | 100.00% | 14.438% |
| 47 | 21.433 | 3133 | 3136 | 3142 | rVV | 260816 | 333873 | 30.57% | 4.414% |
| 48 | 21.504 | 3145 | 3148 | 3152 | rVB2 | 11718 | 15028 | 1.38% | 0.199% |
| 49 | 21.951 | 3218 | 3224 | 3228 | rVV2 | 37052 | 62039 | 5.68% | 0.820% |
| 50 | 22.004 | 3230 | 3233 | 3239 | rVB | 21864 | 32591 | 2.98% | 0.431% |
| 51 | 22.074 | 3242 | 3245 | 3248 | rBV2 | 12019 | 16772 | 1.54% | 0.222% |
| 52 | 22.157 | 3255 | 3259 | 3272 | rVB3 | 20784 | 55112 | 5.05% | 0.729% |
| 53 | 22.933 | 3388 | 3391 | 3395 | rVB | 15110 | 20460 | 1.87% | 0.270% |
| 54 | 23.009 | 3398 | 3404 | 3409 | rBV | 126969 | 278105 | 25.46% | 3.676% |
| 55 | 23.186 | 3431 | 3434 | 3441 | rVB2 | 9064 | 16725 | 1.53% | 0.221% |
| 56 | 23.509 | 3484 | 3489 | 3497 | rVB | 53304 | 99124 | 9.08% | 1.310% |
| 57 | 23.715 | 3516 | 3524 | 3539 | rVB2 | 285346 | 571569 | 52.33% | 7.556% |

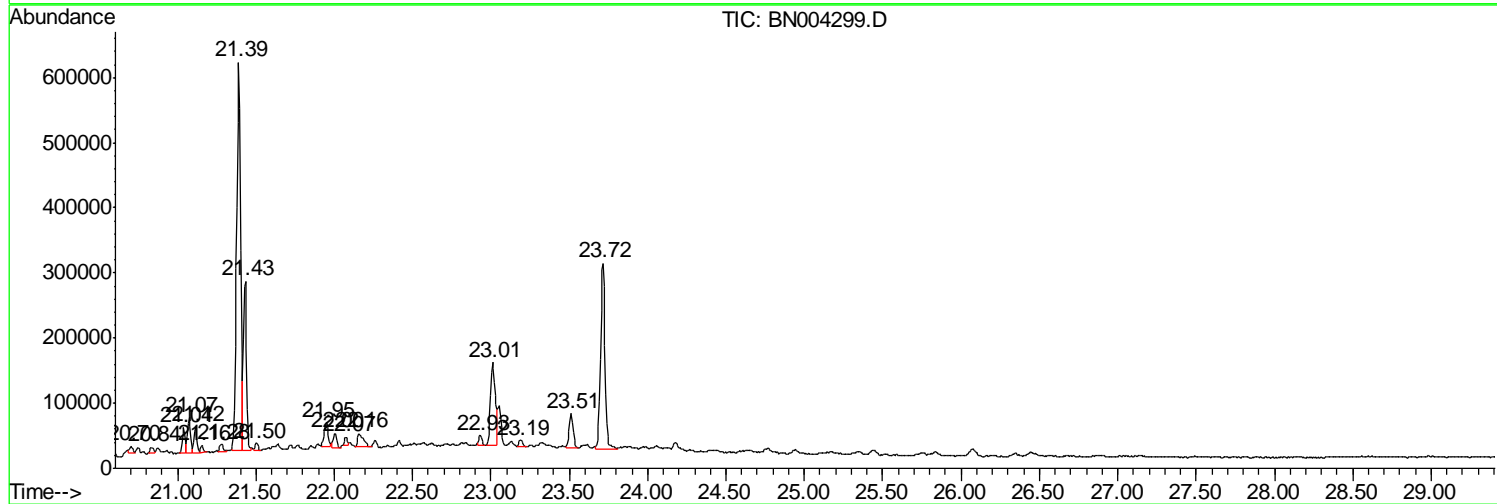
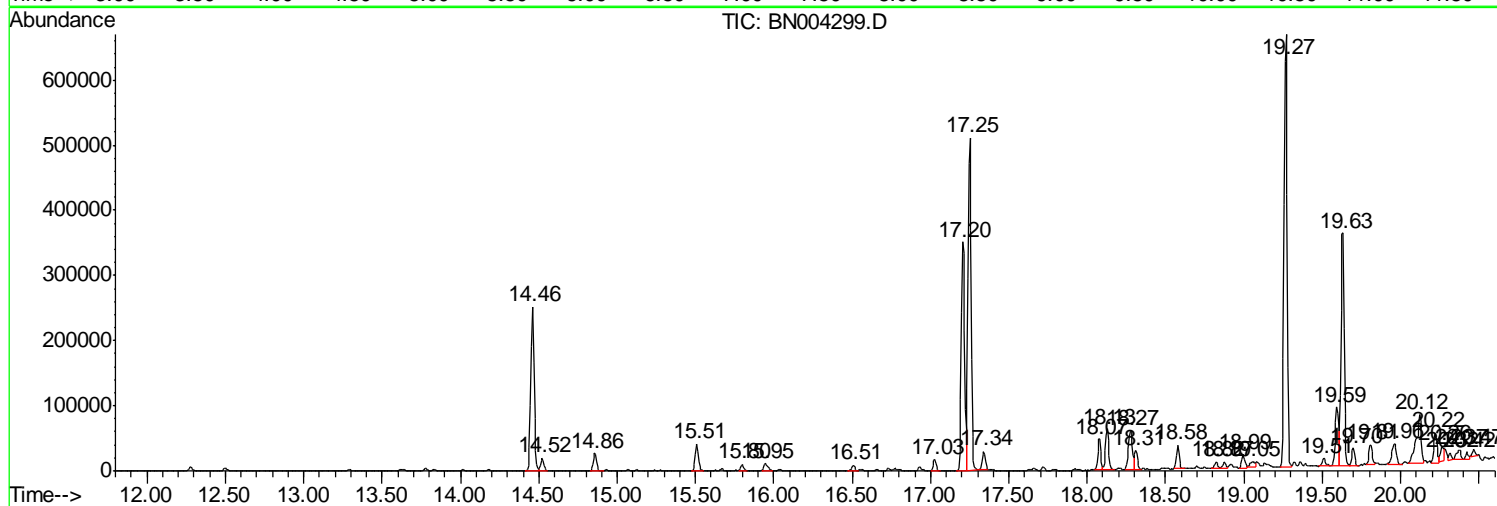
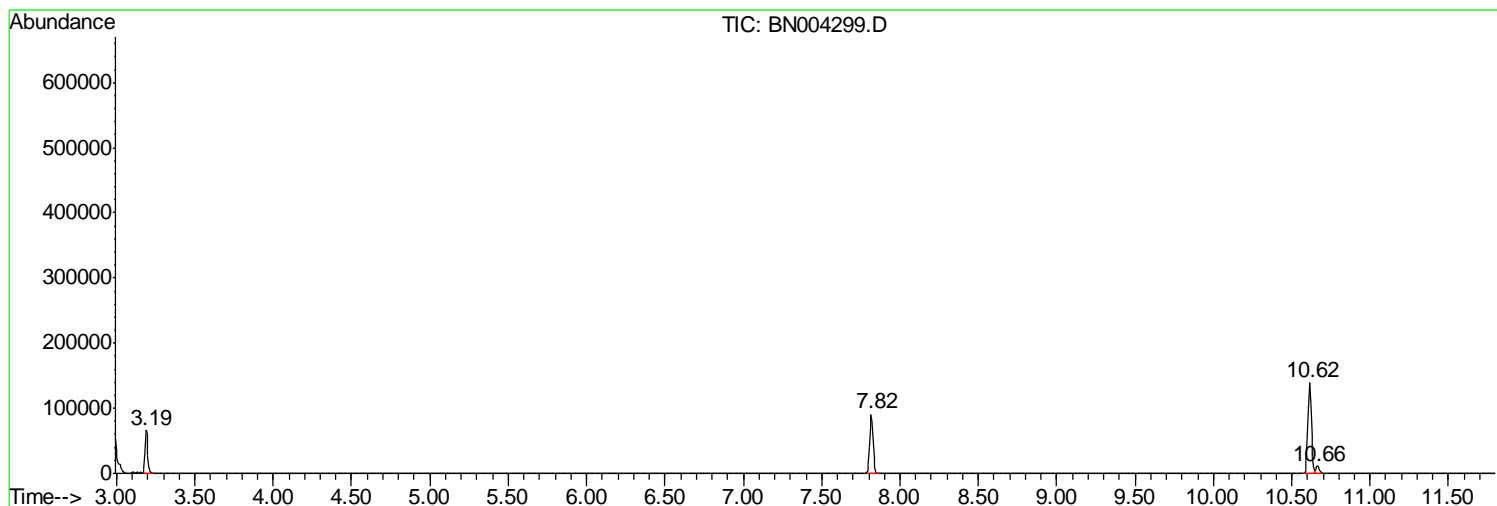
Sum of corrected areas: 7564590

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W1

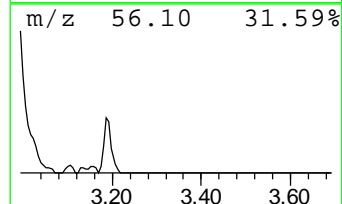
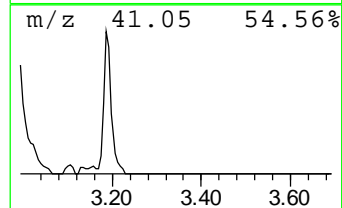
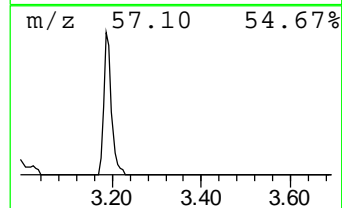
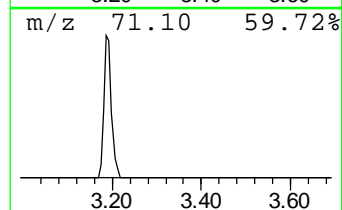
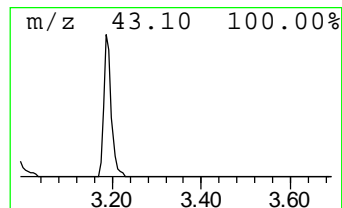
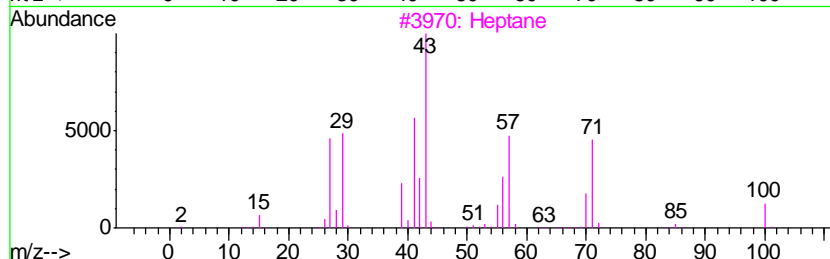
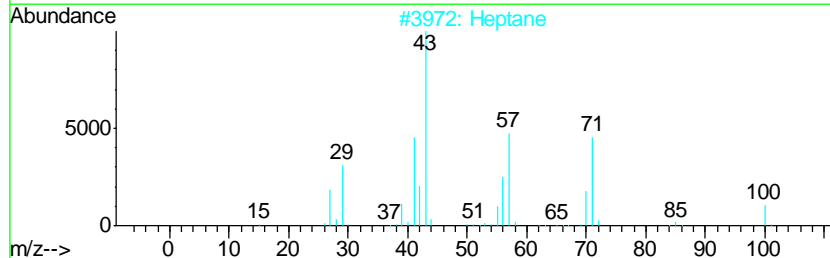
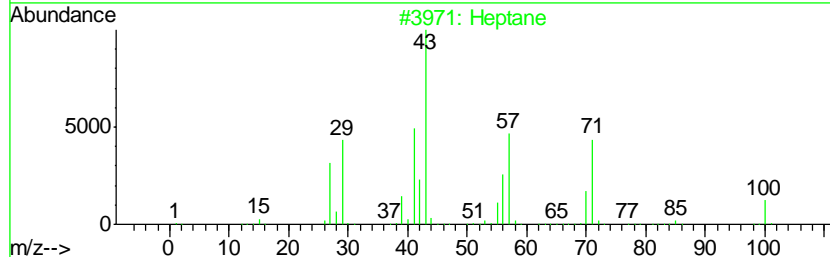
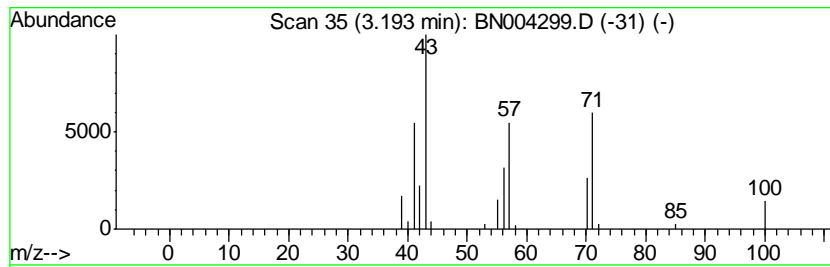
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 10.67 ng/ul | 73159 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W1

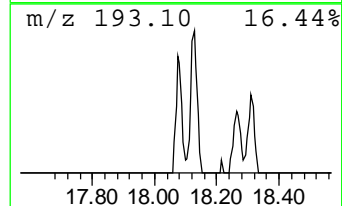
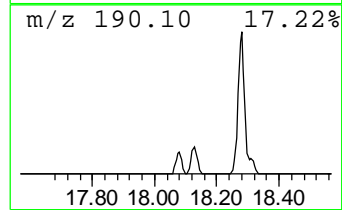
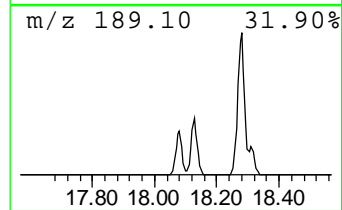
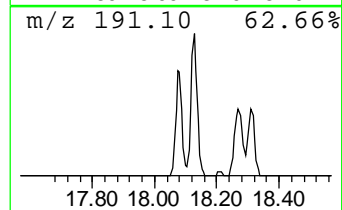
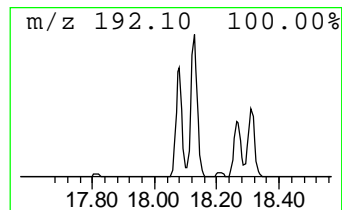
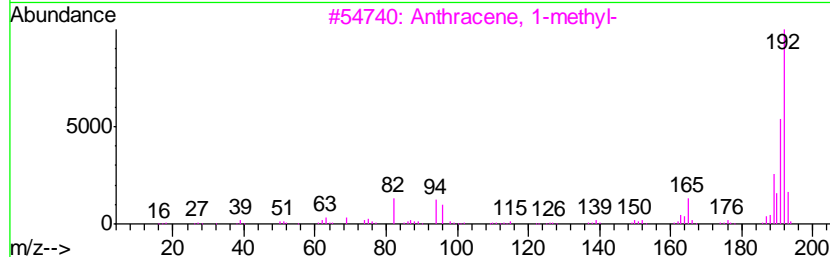
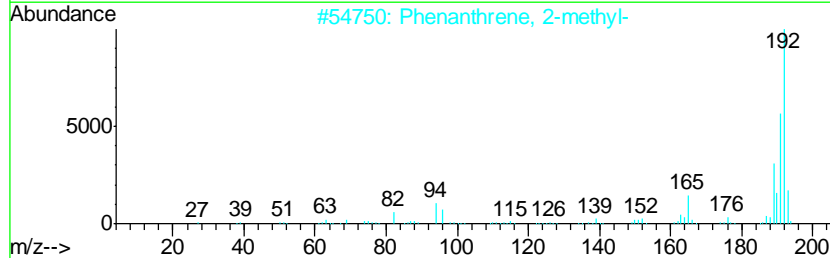
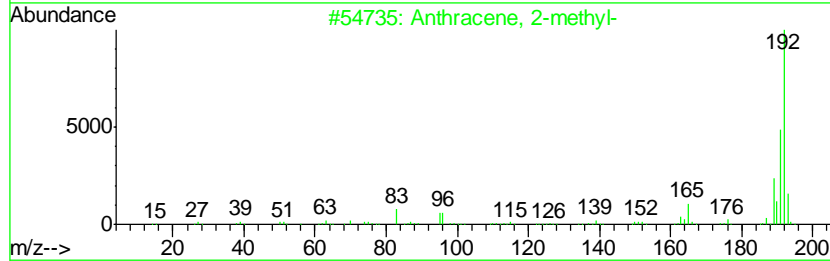
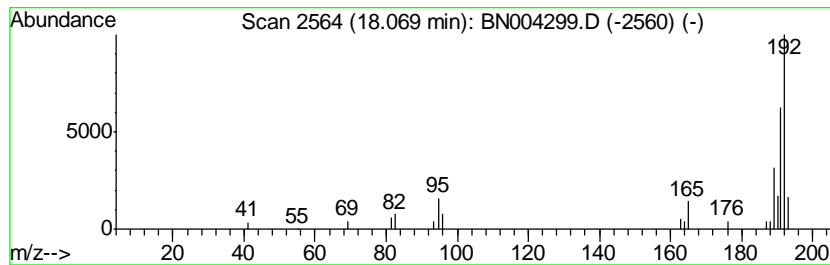
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 Anthracene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.07 | 2.55 ng/ul | 65188 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |
| 4 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |
| 5 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W1

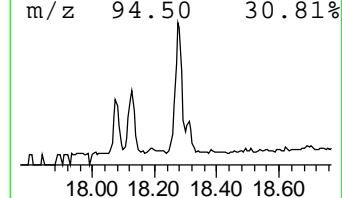
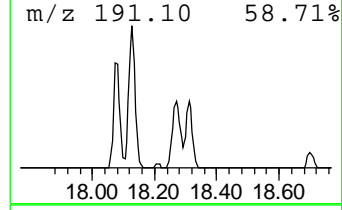
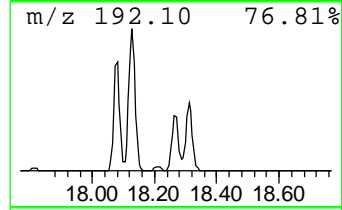
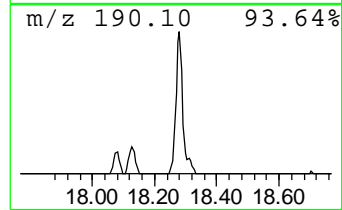
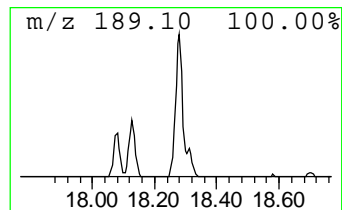
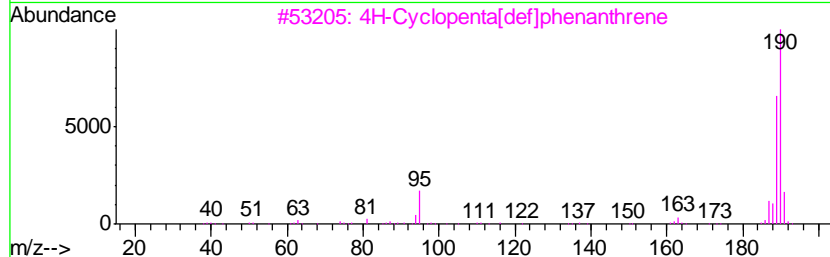
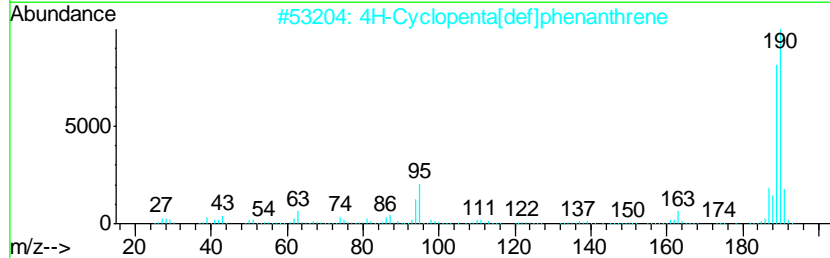
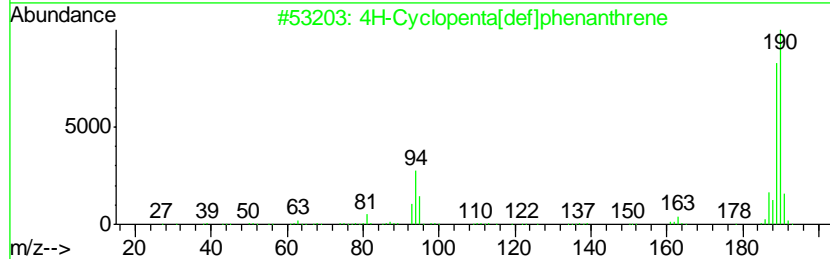
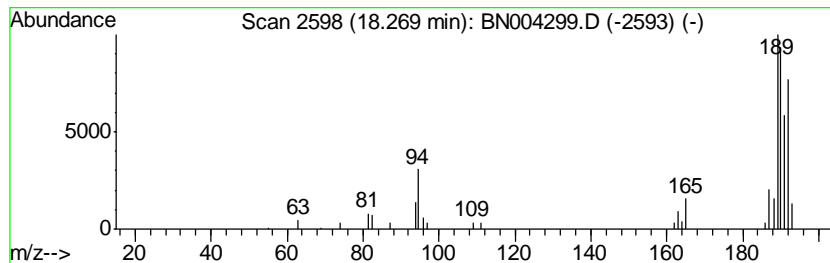
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.27 | 4.26 ng/ul | 108865 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 2 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 3 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 4 | | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 52 |
| 5 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W1

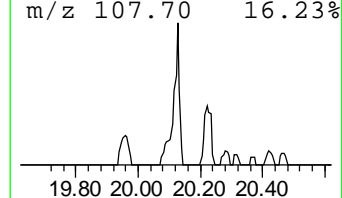
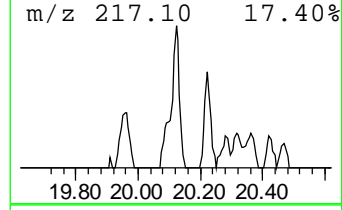
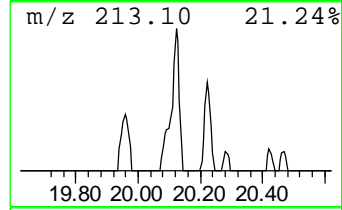
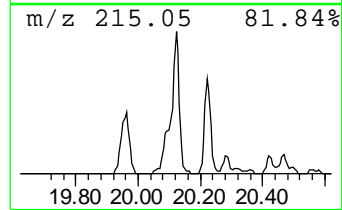
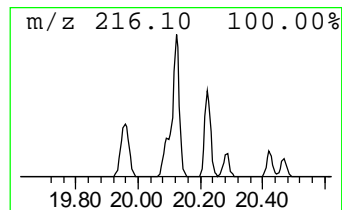
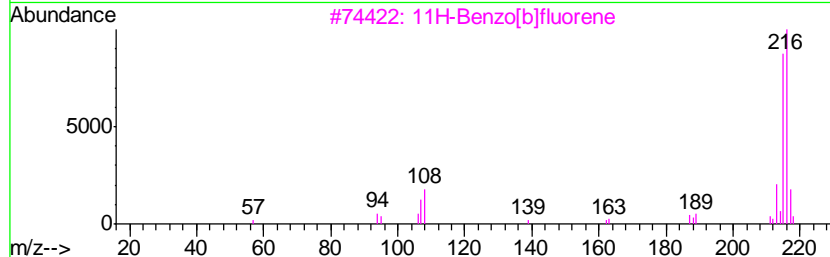
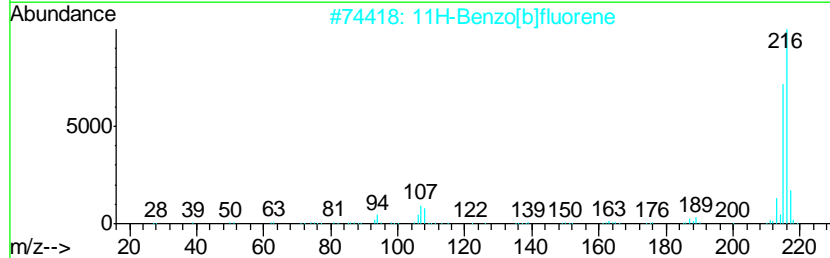
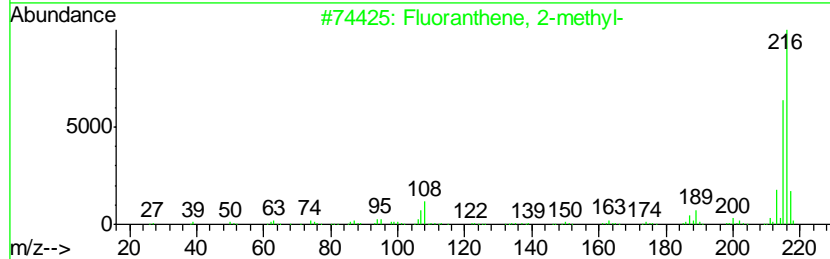
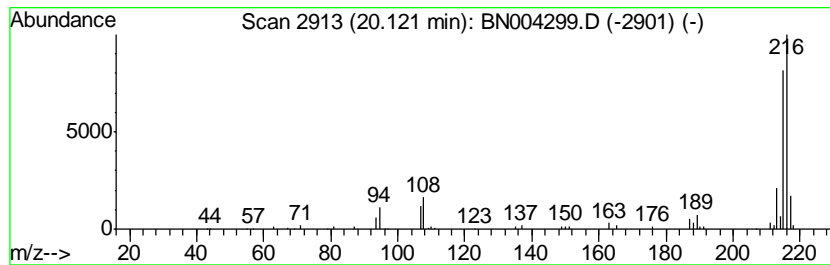
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 Fluoranthene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.12 | 2.97 ng/ul | 162281 | Chrysene-d12 | 21.39 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 96 |
| 2 | | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 3 | | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 4 | | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 5 | | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W1

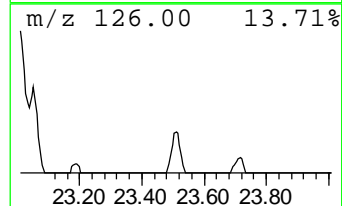
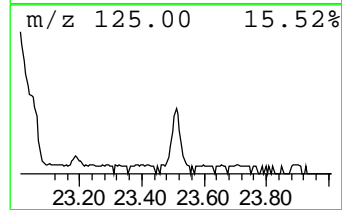
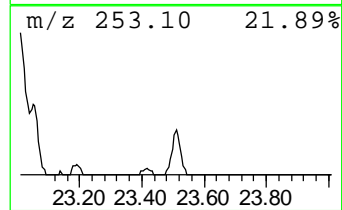
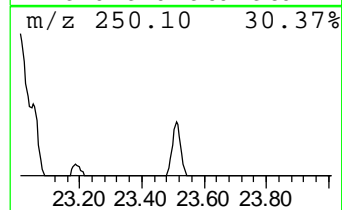
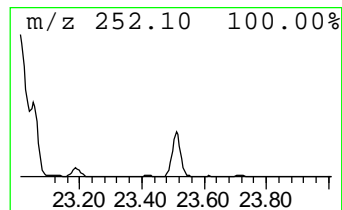
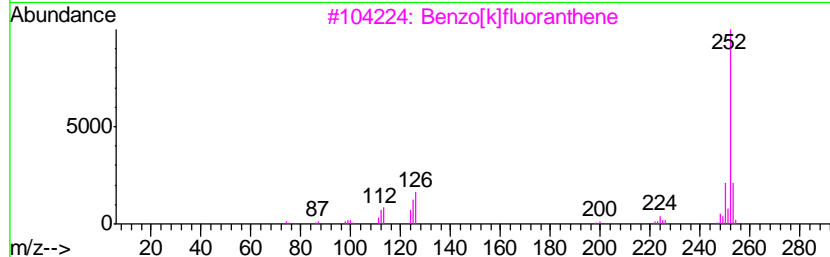
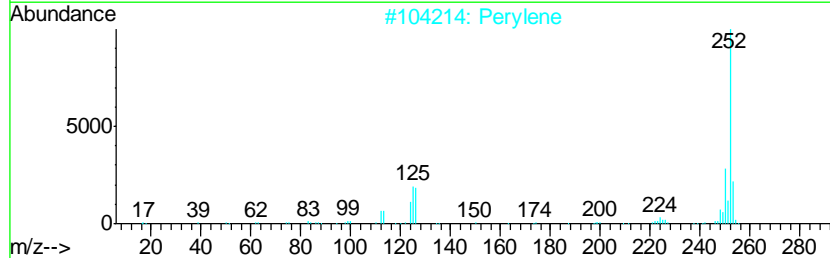
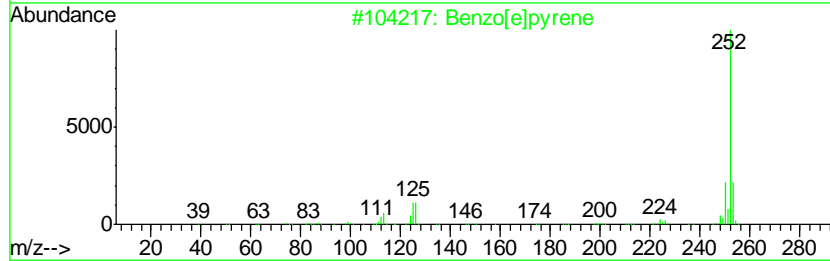
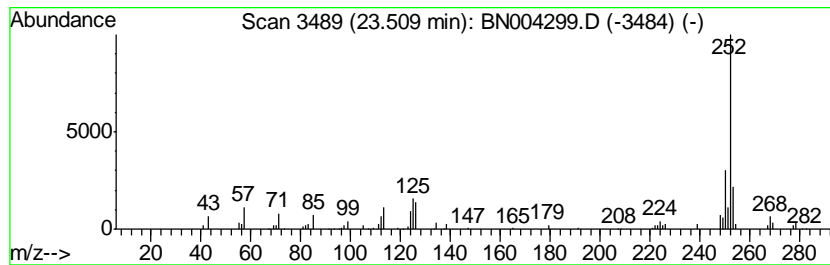
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 Benzo[e]pyrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 23.51 | 3.47 ng/ul | 99124 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 96 |
| 2 | | Perylene | 252 | C20H12 | 000198-55-0 | 96 |
| 3 | | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 4 | | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 94 |
| 5 | | Perylene | 252 | C20H12 | 000198-55-0 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004299.D
 Acq On : 29 Dec 2018 13:49
 Operator : JU/SJ
 Sample : J6428-07
 Misc : GCMS Confirmation
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 10.7 | ng/ul | 73159 | 1 | 7.82 | 137129 | 20.0 |
| Anthracene, 2-met... | 18.07 | 2.5 | ng/ul | 65188 | 4 | 17.20 | 510925 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 4.3 | ng/ul | 108865 | 4 | 17.20 | 510925 | 20.0 |
| Fluoranthene, 2-m... | 20.12 | 3.0 | ng/ul | 162281 | 5 | 21.39 | 1092210 | 20.0 |
| Benzo[e]pyrene | 23.51 | 3.5 | ng/ul | 99124 | 6 | 23.72 | 571569 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W1DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-07DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035107.D
 % Solids : 81.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 10.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

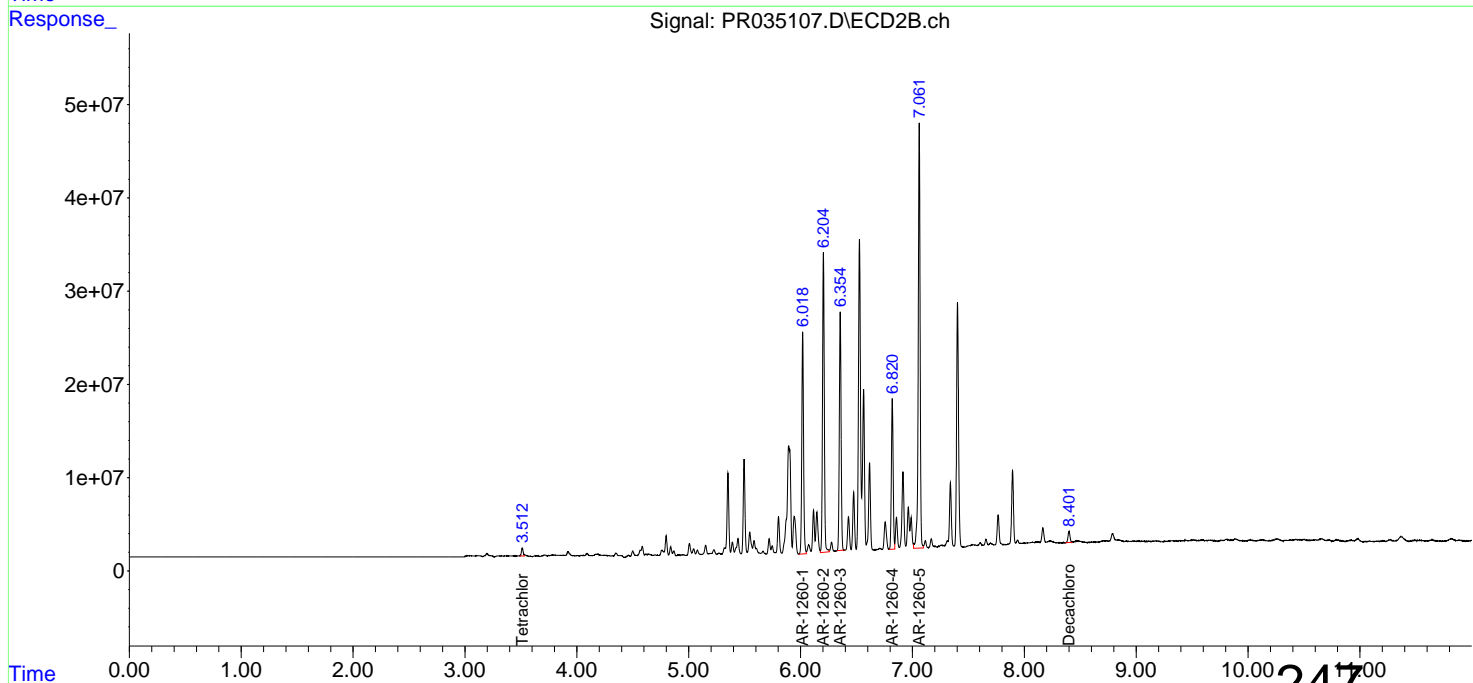
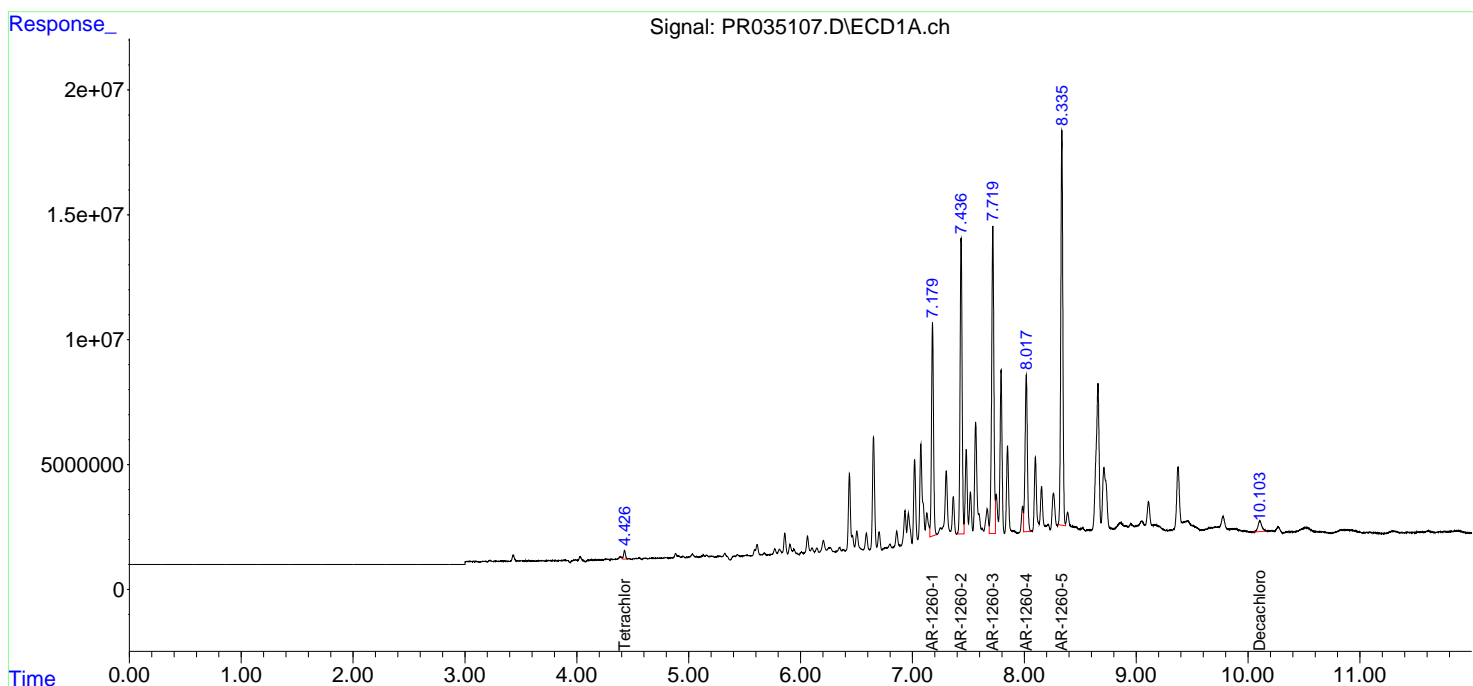
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 410 | U |
| 11104-28-2 | Aroclor-1221 | 410 | U |
| 11141-16-5 | Aroclor-1232 | 410 | U |
| 53469-21-9 | Aroclor-1242 | 410 | U |
| 12672-29-6 | Aroclor-1248 | 410 | U |
| 11097-69-1 | Aroclor-1254 | 410 | U |
| 11096-82-5 | Aroclor-1260 | 4700 | D |
| 37324-23-5 | Aroclor-1262 | 410 | U |
| 11100-14-4 | Aroclor-1268 | 410 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035107.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:35
 Operator : SM\SJ
 Sample : J6428-07DL 10X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W1DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035107.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:35
 Operator : SM\SJ
 Sample : J6428-07DL 10X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W1DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 4069417 | 9165674 | 2.092m | 2.629m# |
| 2) SA Decachlor... | 10.104 | 8.400 | 10411981 | 14629209 | 5.296 | 3.327 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.180 | 6.019 | 106.6E6 | 260.6E6 | 1133.740 | 1212.420 |
| 32) L7 AR-1260-2 | 7.436 | 6.204 | 149.0E6 | 355.0E6 | 1283.399 | 1304.496 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 170.2E6 | 279.6E6 | 1219.428 | 1126.452 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 90745689 | 176.2E6 | 1050.740 | 1030.486 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 200.4E6 | 529.4E6 | 1110.078 | 1094.513 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035107.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:35
 Operator : SM\SJ
 Sample : J6428-07DL 10X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

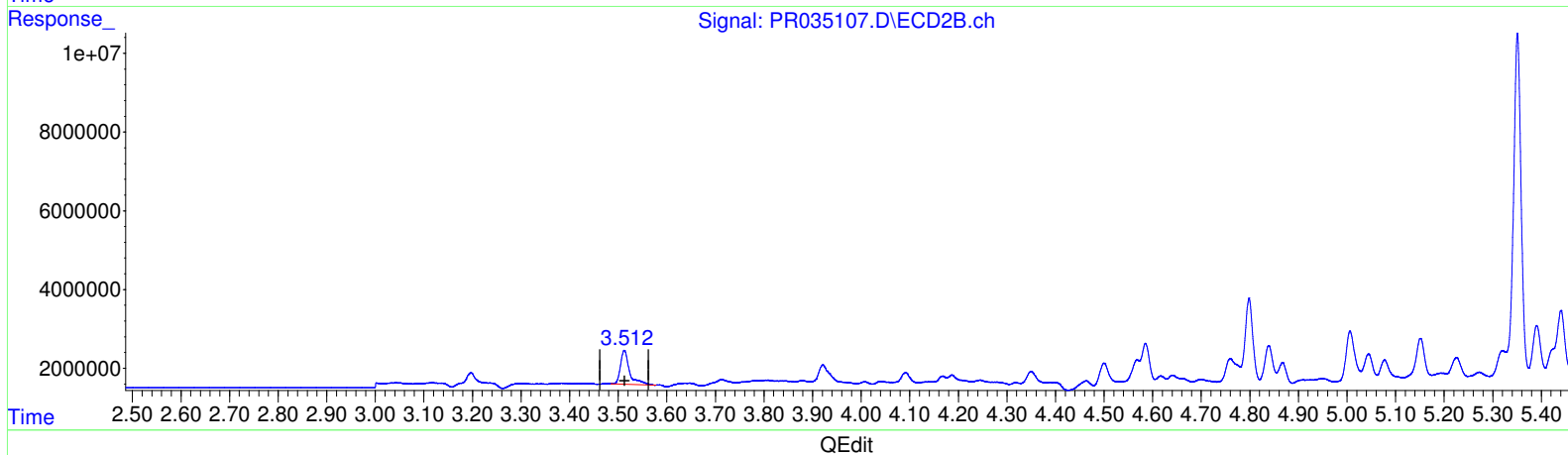
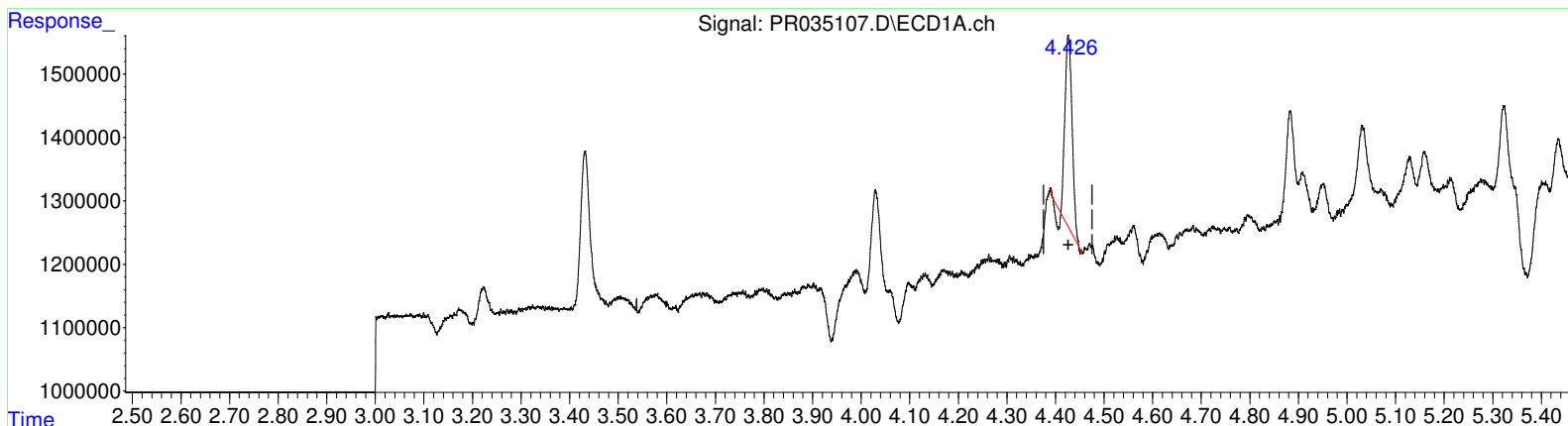
Instrument :
 ECD_R
 ClientSampled :
 A41W1DL

Manual Integrations
 APPROVED

Sohil
 1/3/2019 2:43:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 1.522 ng/ml
 response 2961039

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 3.180 ng/ml
 response 11085975

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035107.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:35
 Operator : SM\SJ
 Sample : J6428-07DL 10X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

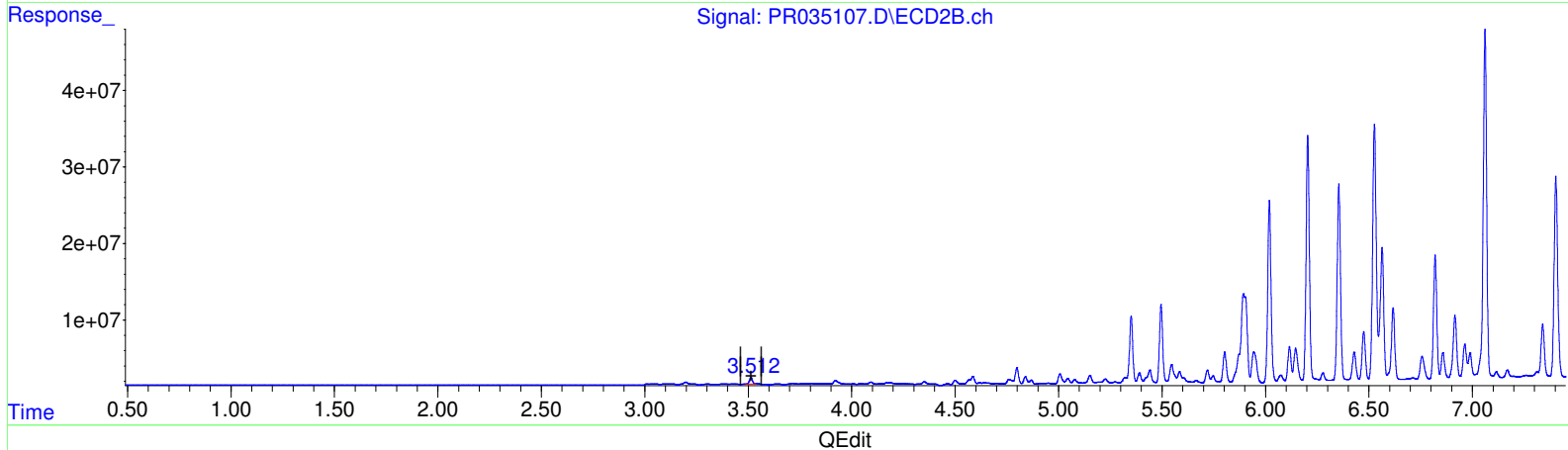
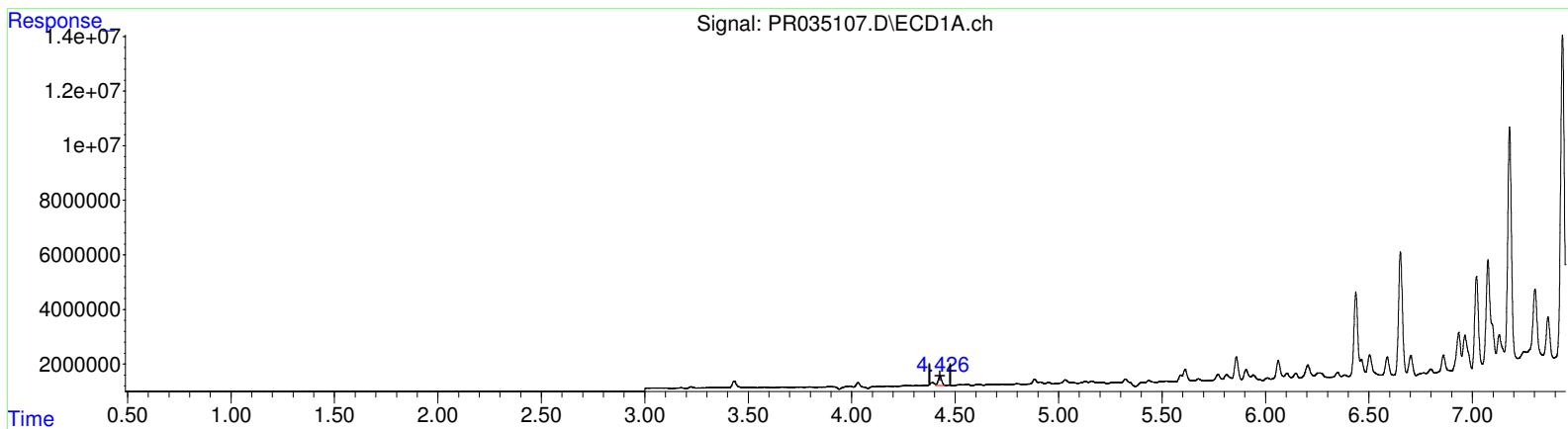
Instrument :
 ECD_R
 ClientSampled :
 A41W1DL

Manual Integrations
 APPROVED

Sohil
 1/3/2019 2:43:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 2.092 ng/ml m
 response 4069417

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 2.629 ng/ml m
 response 9165674

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035107.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 19:35
 Operator : SM\SJ
 Sample : J6428-07DL 10X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W1DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED

Sohil
 1/3/2019 2:43:13 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 4069417 | 9165674 | 2.092m | 2.629m# |
| 2) SA Decachlor... | 10.104 | 8.400 | 10411981 | 14629209 | 5.296 | 3.327 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.180 | 6.019 | 106.6E6 | 260.6E6 | 1133.740 | 1212.420 |
| 32) L7 AR-1260-2 | 7.436 | 6.204 | 149.0E6 | 355.0E6 | 1283.399 | 1304.496 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 170.2E6 | 279.6E6 | 1219.428 | 1126.452 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 90745689 | 176.2E6 | 1050.740 | 1030.486 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 200.4E6 | 529.4E6 | 1110.078 | 1094.513 |

> SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-08
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035079.D
 % Solids : 81.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

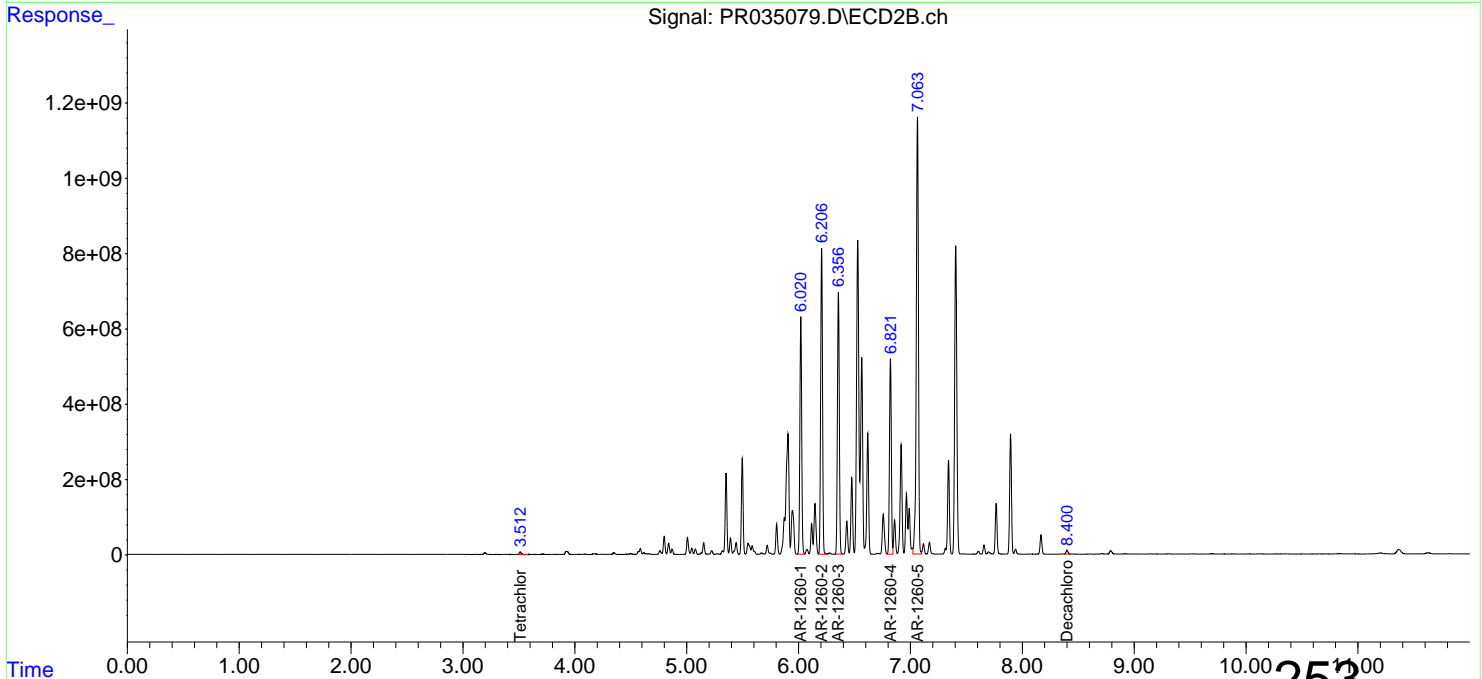
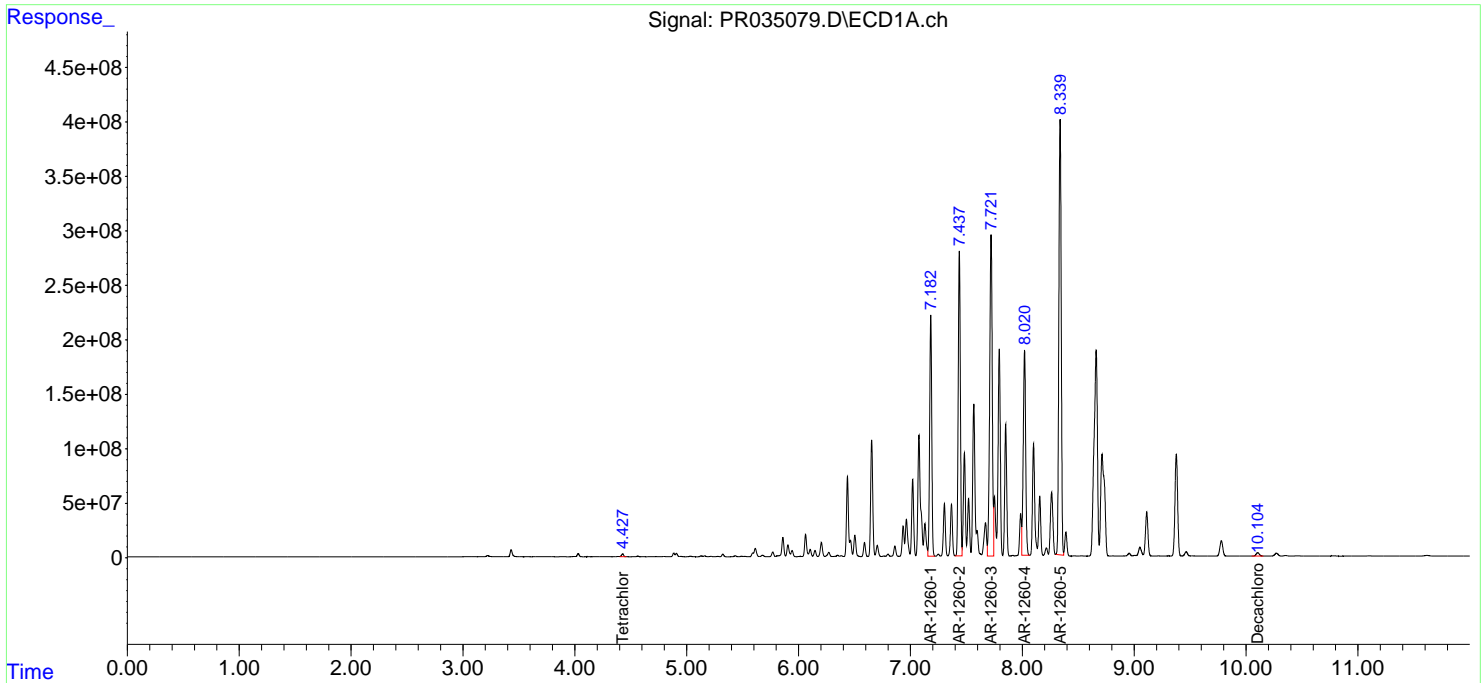
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 40 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 13000 | EC |
| 37324-23-5 | Aroclor-1262 | 40 | U |
| 11100-14-4 | Aroclor-1268 | 40 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035079.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:29
 Operator : SM\SJ
 Sample : J6428-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:45:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035079.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:29
 Operator : SM\SJ
 Sample : J6428-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:45:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 33011541 | 80905437 | 16.972 | 23.208 # |
| 2) SA Decachlor... | 10.104 | 8.400 | 61436558 | 127.4E6 | 31.251 | 28.983 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.020 | 2873.5E6 | 7150.8E6 | 30567.026 | 33264.026 |
| 32) L7 AR-1260-2 | 7.438 | 6.207 | 3691.7E6 | 9460.5E6 | 31797.122 | 34765.868 |
| 33) L7 AR-1260-3 | 7.721 | 6.356 | 4682.9E6 | 8135.6E6 | 33555.282 | 32773.752 |
| 34) L7 AR-1260-4 | 8.021 | 6.822 | 2837.7E6 | 5986.7E6 | 32857.305 | 35012.005 |
| 35) L7 AR-1260-5 | 8.338 | 7.063 | 5889.5E6 | 15533.2E6 | 32619.225 | 32116.919 |
| ----- | | | | | | |

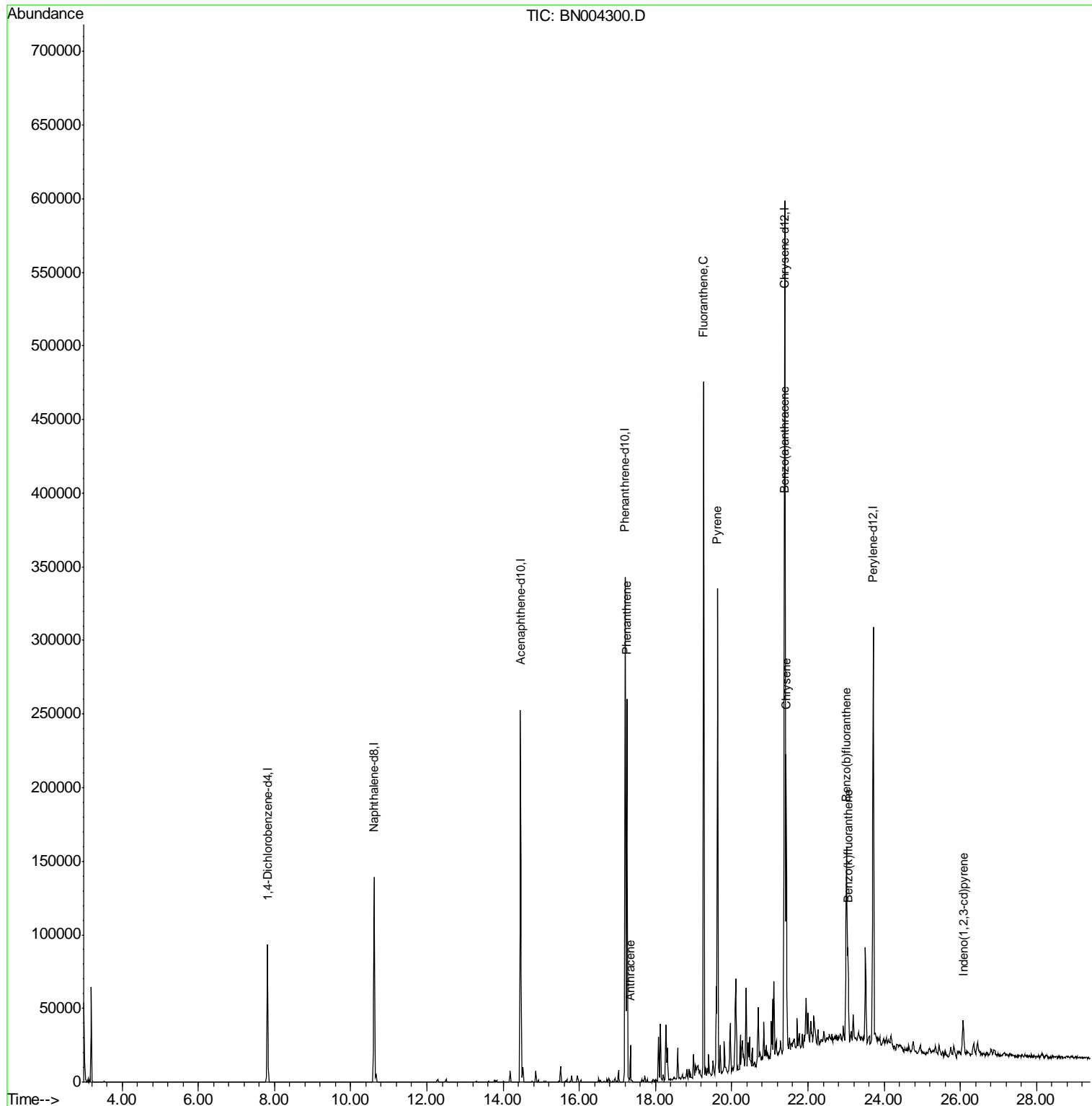
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

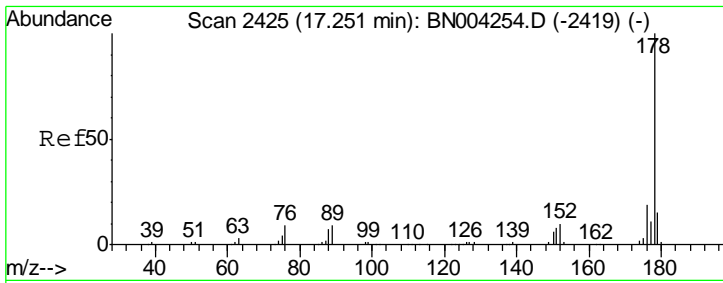
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 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W2

Manual Integrations
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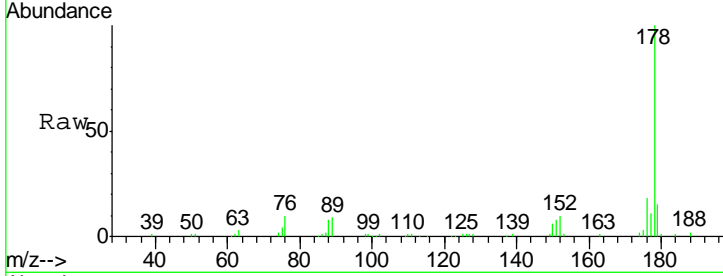
Quant Time: Dec 31 01:58:26 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#69
 Phenanthrene
 Concen: 13.345 ng/ul
 RT: 17.25 min Scan# 2424
 Delta R.T. -0.01 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25

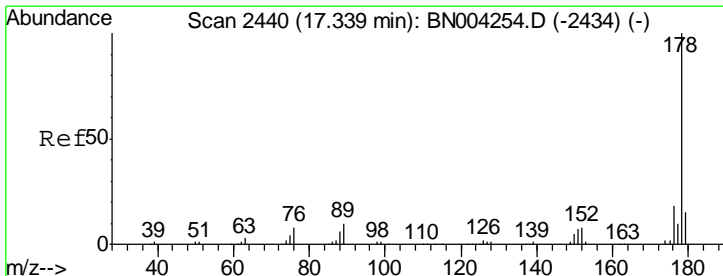
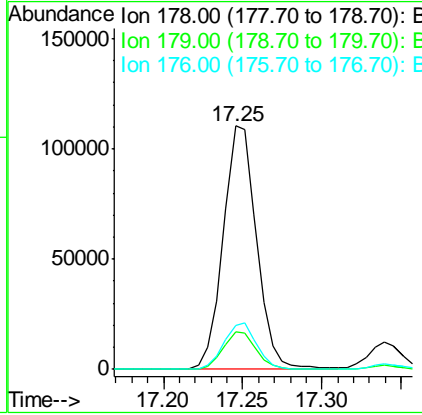
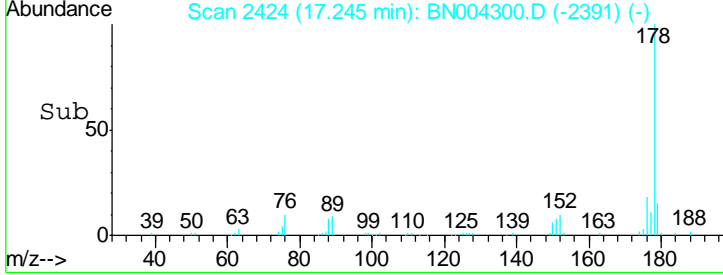
Instrument :
 BNA_N
 ClientSampled :
 A41W2



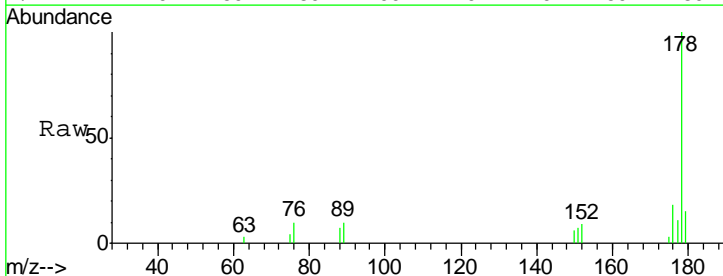
Tgt Ion:178 Resp: 161109

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.4 | 12.1 | 18.1 |
| 176 | 18.2 | 15.0 | 22.6 |

Manual Integrations
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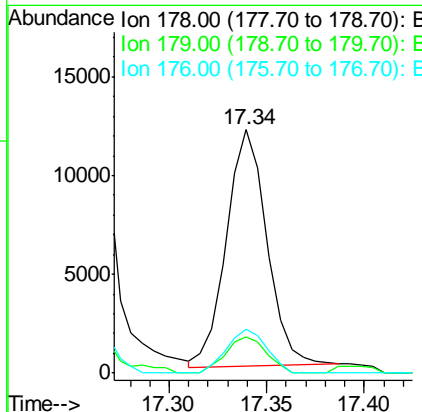
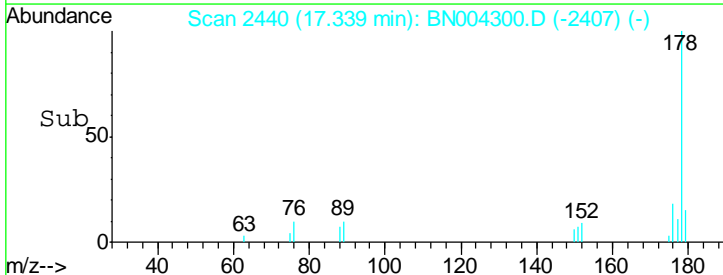


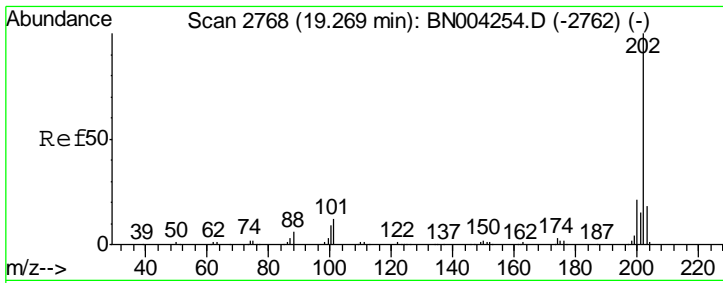
#71
 Anthracene
 Concen: 1.390 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25



Tgt Ion:178 Resp: 17202

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 14.8 | 12.1 | 18.1 |
| 176 | 18.1 | 15.2 | 22.8 |



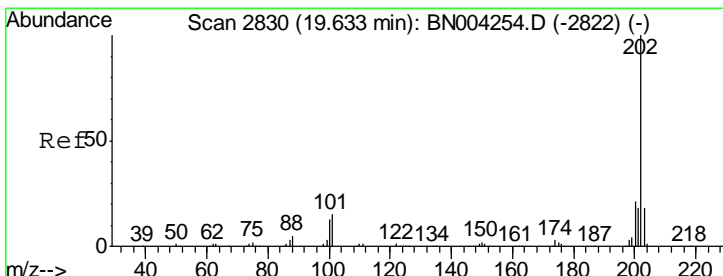
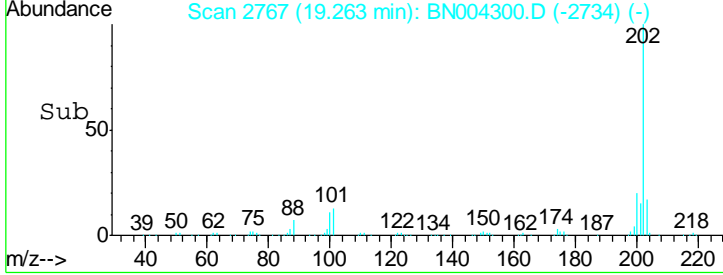
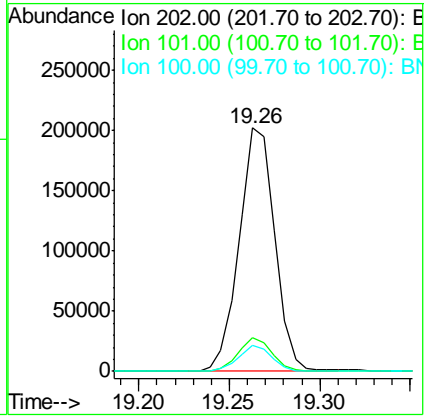
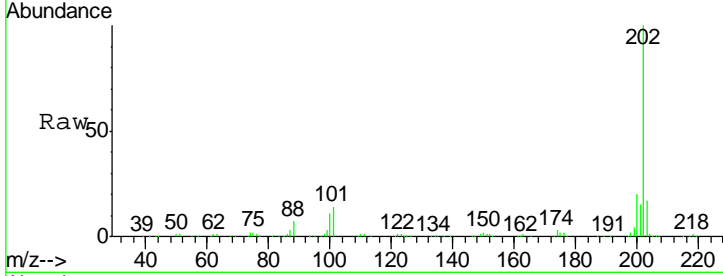


#76
 Fluoranthene
 Concen: 18.691 ng/ul
 RT: 19.26 min Scan# 2767
 Delta R.T. -0.01 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25

Instrument :
 BNA_N
ClientSampled :
 A41W2

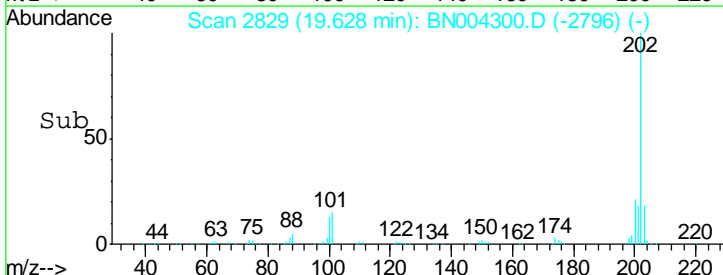
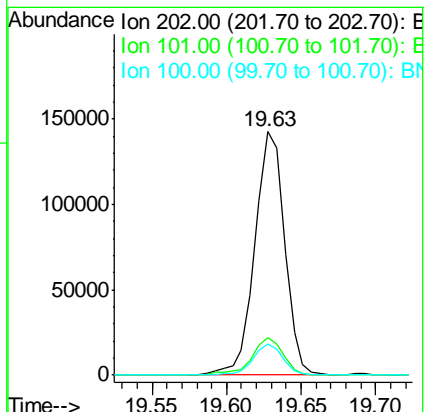
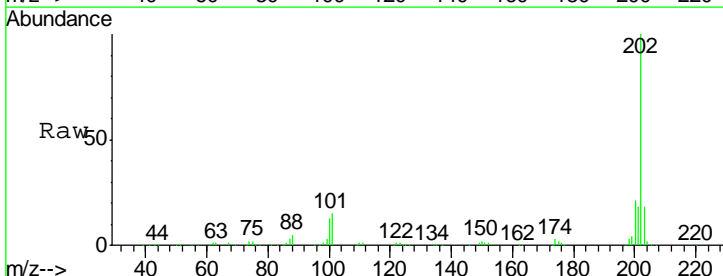
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 13.6 | 10.2 | 15.2 |
| 100 | 10.6 | 7.8 | 11.8 |

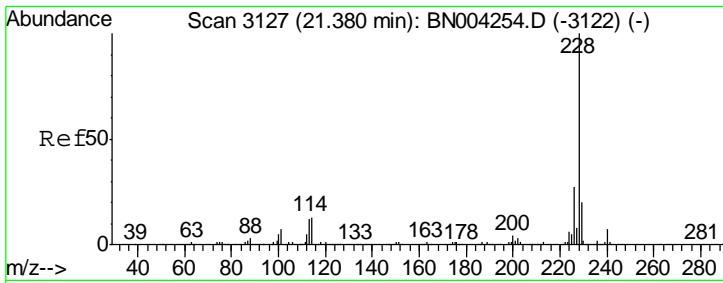
Manual Integrations
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 1/2/2019 3:42:17 PM



#79
 Pyrene
 Concen: 15.674 ng/ul
 RT: 19.63 min Scan# 2829
 Delta R.T. -0.01 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 15.3 | 12.2 | 18.2 |
| 100 | 12.7 | 9.9 | 14.9 |





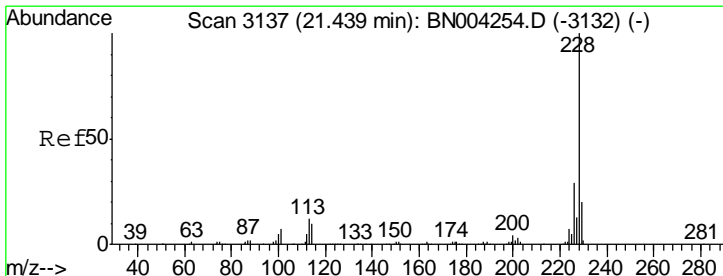
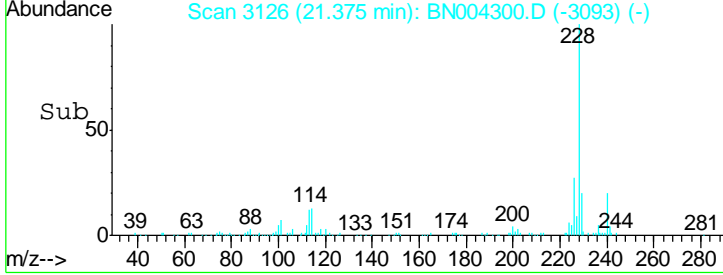
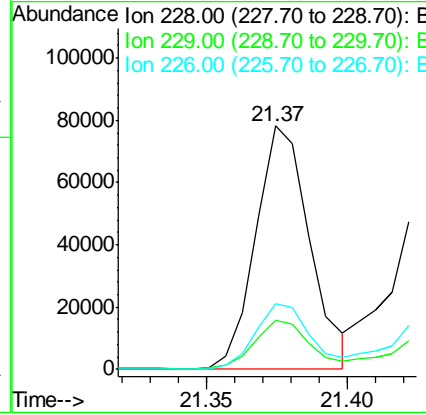
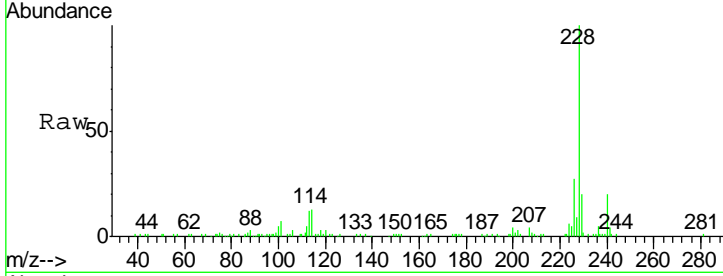
#82
 Benzo(a)anthracene
 Concen: 7.415 ng/ul
 RT: 21.37 min Scan# 3126
 Delta R.T. -0.01 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25

Instrument :
 BNA_N
 ClientSampled :
 A41W2

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 104167 | | |
| 229 | 20.1 | 15.9 | 23.9 |
| 226 | 26.9 | 21.4 | 32.2 |

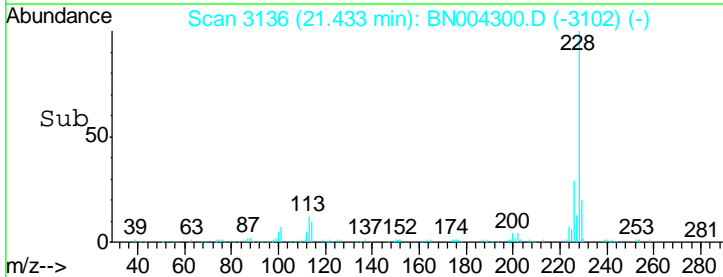
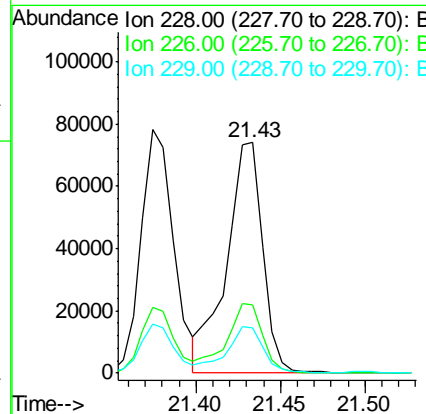
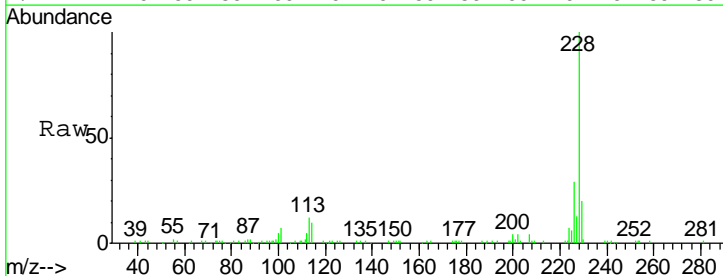
Manual Integrations
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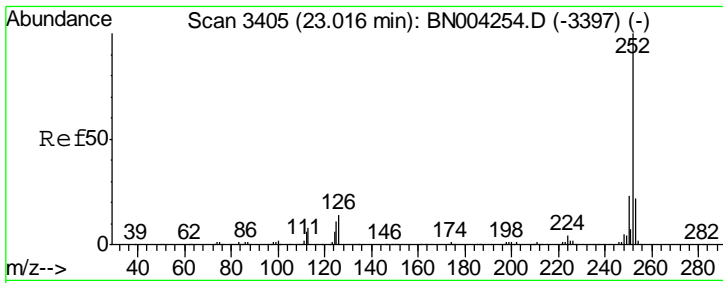
Sohil
 1/2/2019 3:42:17 PM



#84
 Chrysene
 Concen: 8.410 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. 0.00 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 110662 | | |
| 226 | 29.4 | 23.8 | 35.8 |
| 229 | 19.7 | 15.8 | 23.6 |



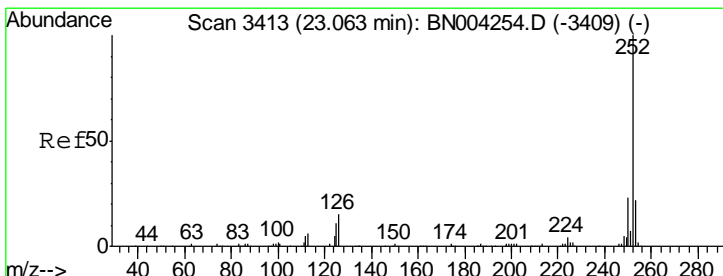
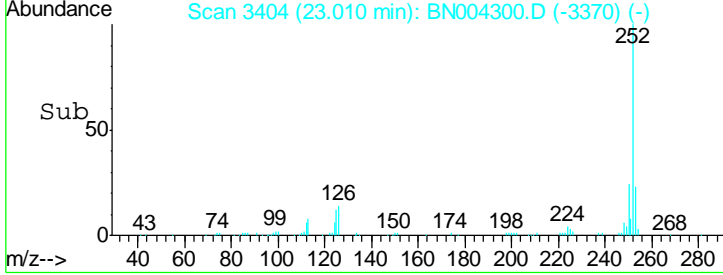
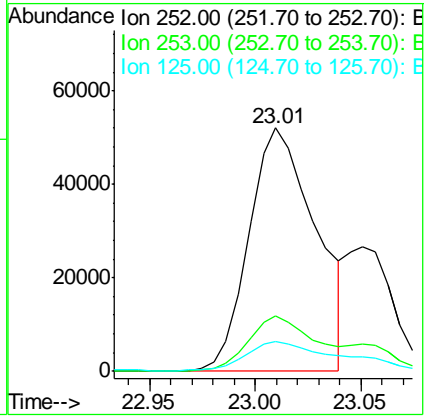
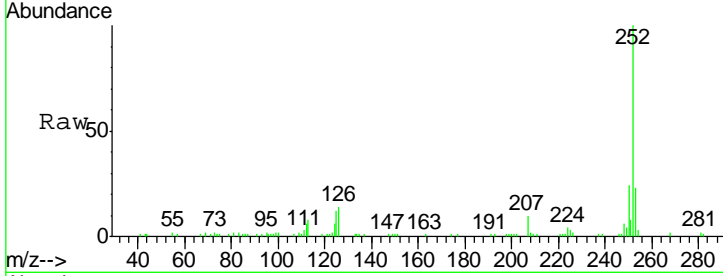


#87
 Benzo(b)fluoranthene
 Concen: 9.342 ng/ul
 RT: 23.01 min Scan# 3404
 Delta R.T. 0.00 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25

Instrument :
 BNA_N
 ClientSampled :
 A41W2

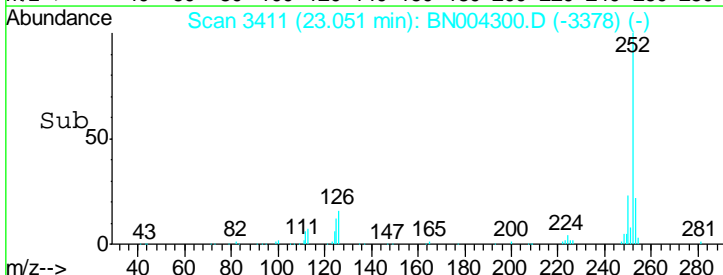
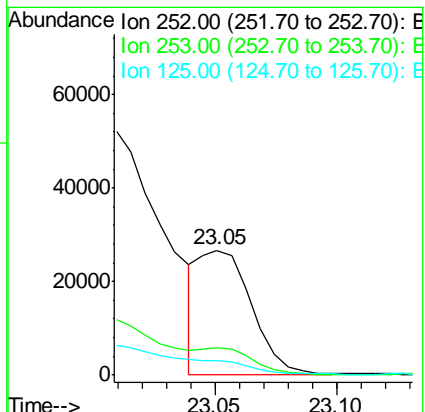
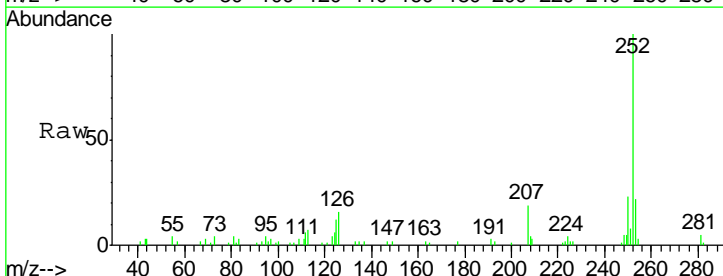
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 252 | 114706 | | |
| 253 | 22.7 | 17.3 | 25.9 |
| 125 | 12.4 | 8.2 | 12.4# |

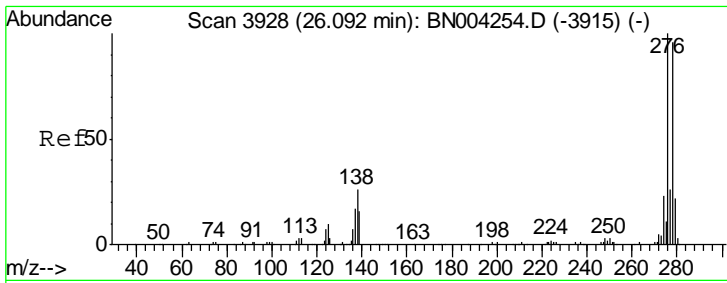
Manual Integrations
 APPROVED
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 1/2/2019 3:42:17 PM



#88
 Benzo(k)fluoranthene
 Concen: 3.508 ng/ul m
 RT: 23.05 min Scan# 3411
 Delta R.T. -0.01 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25

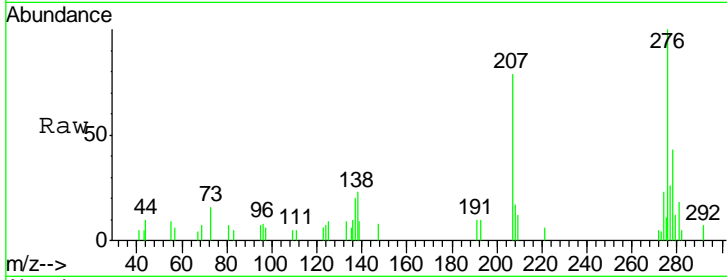
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 252 | 40326 | | |
| 253 | 21.9 | 17.1 | 25.7 |
| 125 | 12.0 | 7.9 | 11.9# |





#91
 Indeno(1,2,3-cd)pyrene
 Concen: 1.346 ng/ul
 RT: 26.07 min Scan# 3925
 Delta R.T. -0.01 min
 Lab File: BN004300.D
 Acq: 29 Dec 2018 14:25

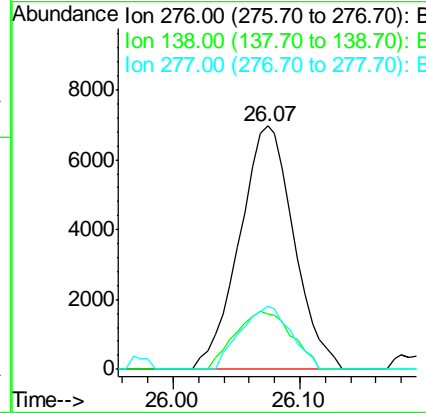
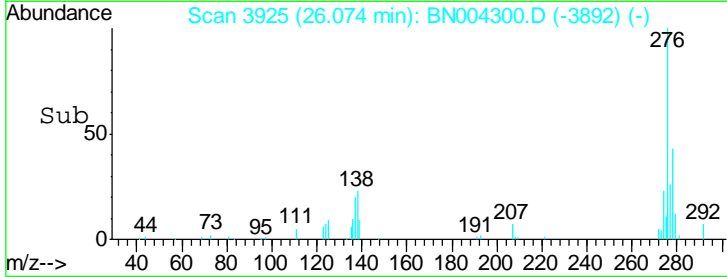
Instrument :
 BNA_N
ClientSampled :
 A41W2



Tgt Ion: 276 Resp: 20741

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100 | | |
| 138 | 22.6 | 20.4 | 30.6 |
| 277 | 25.8 | 20.6 | 30.8 |

Manual Integrations
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 1/2/2019 3:42:17 PM



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W2

Manual Integrations
 APPROVED

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Quant Time: Dec 31 01:58:26 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 26962 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 128078 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 87353 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 208953 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.39 | 240 | 225290 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.71 | 264 | 204968 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0 | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 69) Phenanthrene | 17.25 | 178 | 161109 | 13.345 ng/ul | 99 |
| 71) Anthracene | 17.34 | 178 | 17202 | 1.390 ng/ul | 99 |
| 76) Fluoranthene | 19.26 | 202 | 276595 | 18.691 ng/ul | 98 |
| 79) Pyrene | 19.63 | 202 | 197271 | 15.674 ng/ul | 100 |
| 82) Benzo(a)anthracene | 21.37 | 228 | 104167 | 7.415 ng/ul | 100 |
| 84) Chrysene | 21.43 | 228 | 110662 | 8.410 ng/ul | 100 |
| 87) Benzo(b)fluoranthene | 23.01 | 252 | 114706 | 9.342 ng/ul# | 97 |
| 88) Benzo(k)fluoranthene | 23.05 | 252 | 40326m | 3.508 ng/ul | |
| 91) Indeno(1,2,3-cd)pyrene | 26.07 | 276 | 20741 | 1.346 ng/ul | 97 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W2

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 41 | rVB | 64685 | 70751 | 6.97% | 1.101% |
| 2 | 7.816 | 816 | 821 | 829 | rBB | 93546 | 141113 | 13.90% | 2.196% |
| 3 | 10.616 | 1290 | 1297 | 1303 | rBV | 139350 | 235892 | 23.23% | 3.670% |
| 4 | 14.187 | 1899 | 1904 | 1909 | rBB | 7511 | 10768 | 1.06% | 0.168% |
| 5 | 14.457 | 1944 | 1950 | 1958 | rBV2 | 252986 | 388491 | 38.26% | 6.044% |
| 6 | 14.522 | 1958 | 1961 | 1965 | rVB | 10148 | 13635 | 1.34% | 0.212% |
| 7 | 14.857 | 2014 | 2018 | 2024 | rBB | 7275 | 10242 | 1.01% | 0.159% |
| 8 | 15.510 | 2124 | 2129 | 2135 | rBB | 10468 | 15697 | 1.55% | 0.244% |
| 9 | 17.028 | 2383 | 2387 | 2392 | rVB | 8415 | 10637 | 1.05% | 0.165% |
| 10 | 17.204 | 2411 | 2417 | 2421 | rBV2 | 343111 | 498168 | 49.06% | 7.751% |
| 11 | 17.245 | 2421 | 2424 | 2435 | rVV | 259735 | 364071 | 35.85% | 5.665% |
| 12 | 17.339 | 2435 | 2440 | 2444 | rVB | 23741 | 30908 | 3.04% | 0.481% |
| 13 | 18.075 | 2561 | 2565 | 2570 | rBV | 30215 | 42725 | 4.21% | 0.665% |
| 14 | 18.128 | 2570 | 2574 | 2580 | rVV | 38891 | 55951 | 5.51% | 0.871% |
| 15 | 18.275 | 2592 | 2599 | 2603 | rBV2 | 37926 | 74806 | 7.37% | 1.164% |
| 16 | 18.310 | 2603 | 2605 | 2611 | rVB | 21747 | 25852 | 2.55% | 0.402% |
| 17 | 18.581 | 2647 | 2651 | 2658 | rVB | 20368 | 26201 | 2.58% | 0.408% |
| 18 | 18.992 | 2716 | 2721 | 2726 | rBV | 16119 | 23479 | 2.31% | 0.365% |
| 19 | 19.057 | 2726 | 2732 | 2735 | rBV3 | 6906 | 14038 | 1.38% | 0.218% |
| 20 | 19.263 | 2761 | 2767 | 2773 | rBV | 472216 | 633591 | 62.39% | 9.858% |
| 21 | 19.392 | 2786 | 2789 | 2792 | rVV | 12971 | 13729 | 1.35% | 0.214% |
| 22 | 19.510 | 2805 | 2809 | 2813 | rBV | 9542 | 14695 | 1.45% | 0.229% |
| 23 | 19.592 | 2816 | 2823 | 2825 | rBV2 | 60055 | 85660 | 8.44% | 1.333% |
| 24 | 19.628 | 2825 | 2829 | 2836 | rVV | 330229 | 449856 | 44.30% | 6.999% |
| 25 | 19.698 | 2836 | 2841 | 2845 | rVB | 19511 | 26799 | 2.64% | 0.417% |
| 26 | 19.804 | 2855 | 2859 | 2863 | rBV | 19955 | 30646 | 3.02% | 0.477% |
| 27 | 19.957 | 2879 | 2885 | 2891 | rVB | 33094 | 55747 | 5.49% | 0.867% |
| 28 | 20.104 | 2901 | 2910 | 2917 | rBV5 | 61343 | 139472 | 13.73% | 2.170% |
| 29 | 20.222 | 2926 | 2930 | 2933 | rBV | 23197 | 28438 | 2.80% | 0.442% |
| 30 | 20.263 | 2933 | 2937 | 2938 | rBV | 13801 | 15447 | 1.52% | 0.240% |
| 31 | 20.375 | 2950 | 2956 | 2960 | rVB2 | 53446 | 69682 | 6.86% | 1.084% |
| 32 | 20.433 | 2960 | 2966 | 2968 | rBV2 | 15976 | 28949 | 2.85% | 0.450% |
| 33 | 20.469 | 2968 | 2972 | 2975 | rVB2 | 15784 | 18690 | 1.84% | 0.291% |
| 34 | 20.539 | 2980 | 2984 | 2989 | rBV6 | 12348 | 16944 | 1.67% | 0.264% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W2

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 20.698 | 3008 | 3011 | 3016 | rVB2 | 33911 | 39668 | 3.91% | 0.617% |
| 36 | 20.839 | 3031 | 3035 | 3038 | rBV2 | 25014 | 28328 | 2.79% | 0.441% |
| 37 | 21.039 | 3065 | 3069 | 3072 | rBV | 25900 | 35999 | 3.55% | 0.560% |
| 38 | 21.075 | 3072 | 3075 | 3078 | rVV | 39707 | 50936 | 5.02% | 0.793% |
| 39 | 21.116 | 3078 | 3082 | 3086 | rVV | 51065 | 62598 | 6.16% | 0.974% |
| 40 | 21.169 | 3086 | 3091 | 3096 | rVB3 | 9853 | 18095 | 1.78% | 0.282% |
| 41 | 21.275 | 3107 | 3109 | 3116 | rVB | 8561 | 11459 | 1.13% | 0.178% |
| 42 | 21.392 | 3121 | 3129 | 3133 | rVV2 | 577941 | 1015467 | 100.00% | 15.799% |
| 43 | 21.427 | 3133 | 3135 | 3141 | rVV | 201486 | 254615 | 25.07% | 3.962% |
| 44 | 21.504 | 3145 | 3148 | 3153 | rVB3 | 7968 | 10277 | 1.01% | 0.160% |
| 45 | 21.716 | 3181 | 3184 | 3189 | rBV2 | 19659 | 25183 | 2.48% | 0.392% |
| 46 | 21.845 | 3204 | 3206 | 3211 | rVB4 | 9298 | 11237 | 1.11% | 0.175% |
| 47 | 21.898 | 3211 | 3215 | 3217 | rBV | 8467 | 12039 | 1.19% | 0.187% |
| 48 | 21.951 | 3220 | 3224 | 3228 | rVV | 30885 | 53405 | 5.26% | 0.831% |
| 49 | 22.004 | 3230 | 3233 | 3237 | rVB | 20170 | 27104 | 2.67% | 0.422% |
| 50 | 22.075 | 3242 | 3245 | 3248 | rVV2 | 9802 | 10737 | 1.06% | 0.167% |
| 51 | 22.157 | 3255 | 3259 | 3265 | rBV2 | 18438 | 38803 | 3.82% | 0.604% |
| 52 | 22.257 | 3273 | 3276 | 3281 | rVB | 9632 | 12680 | 1.25% | 0.197% |
| 53 | 23.010 | 3398 | 3404 | 3409 | rBV | 130256 | 281587 | 27.73% | 4.381% |
| 54 | 23.186 | 3430 | 3434 | 3440 | rBV | 17390 | 33922 | 3.34% | 0.528% |
| 55 | 23.510 | 3483 | 3489 | 3497 | rVB | 64830 | 115473 | 11.37% | 1.797% |
| 56 | 23.710 | 3516 | 3523 | 3530 | rBV2 | 280195 | 527735 | 51.97% | 8.211% |
| 57 | 26.074 | 3918 | 3925 | 3936 | rVB2 | 22849 | 68094 | 6.71% | 1.059% |

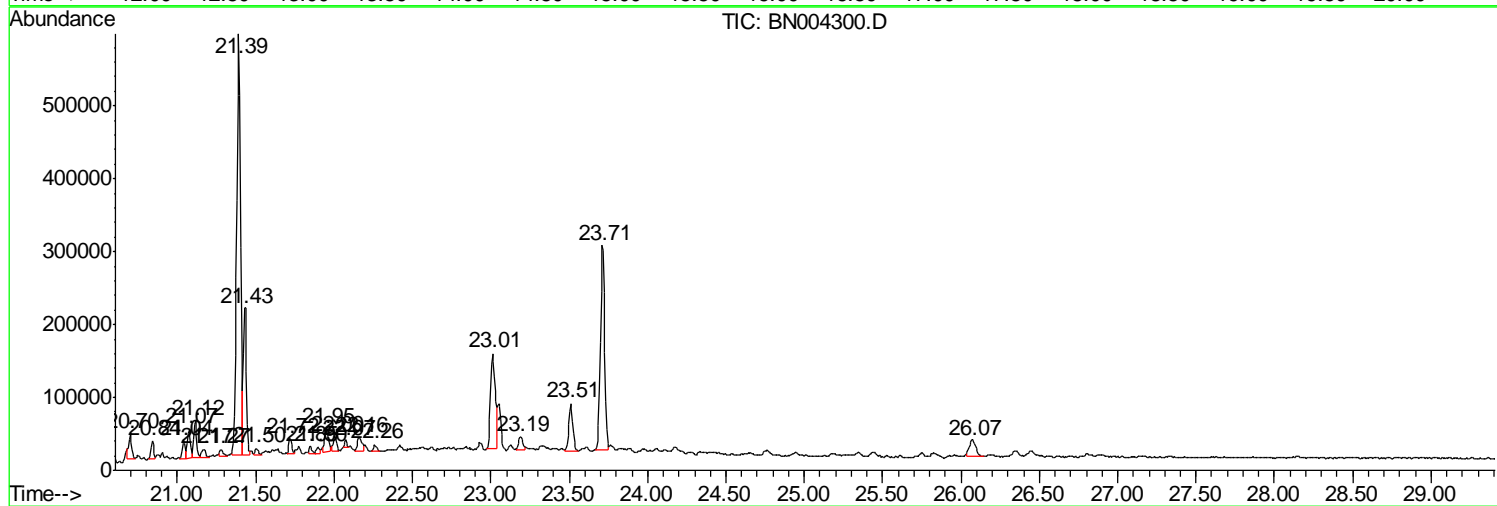
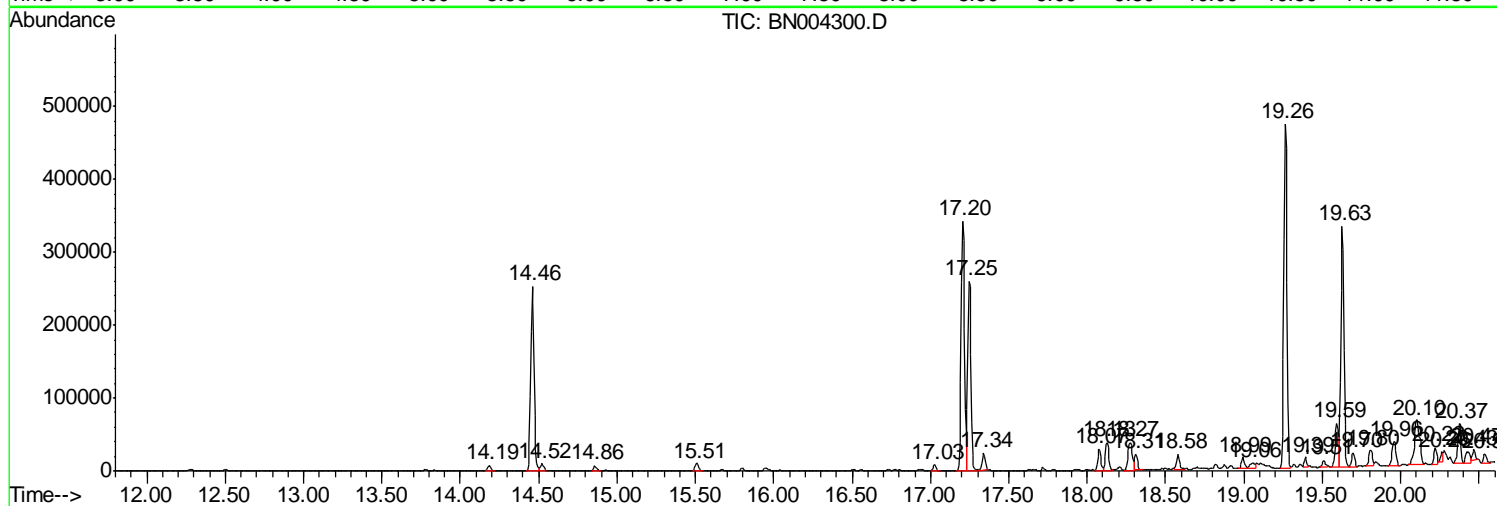
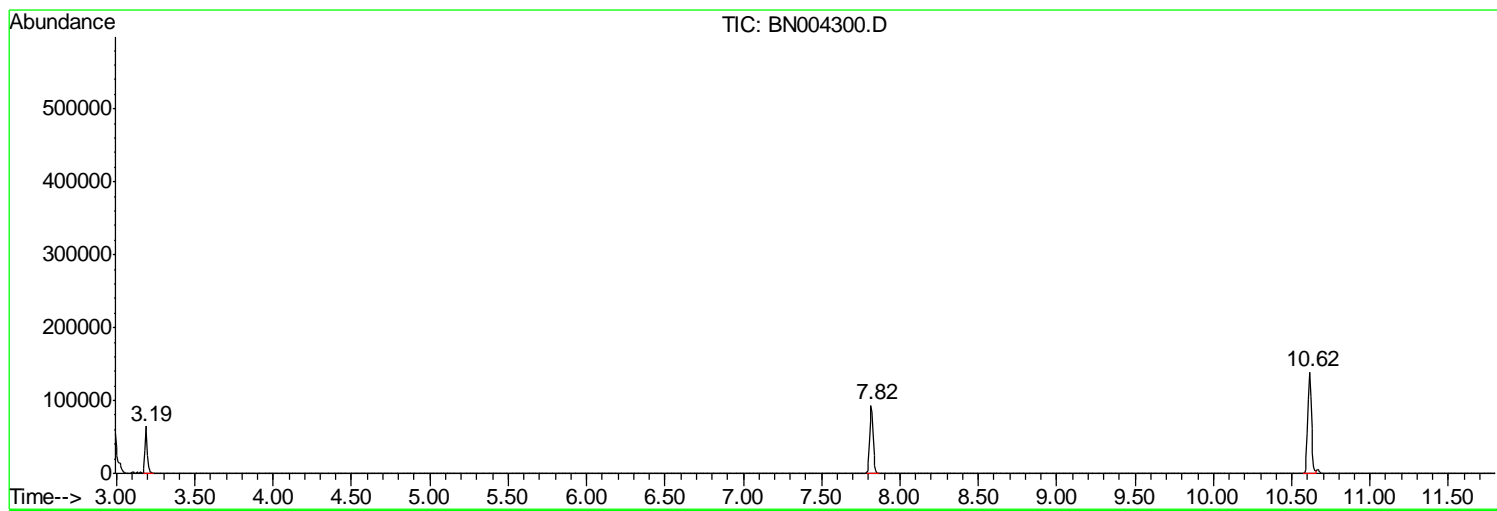
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Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W2

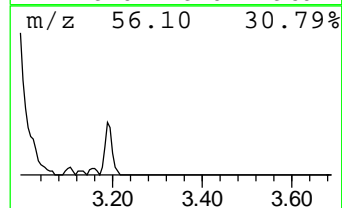
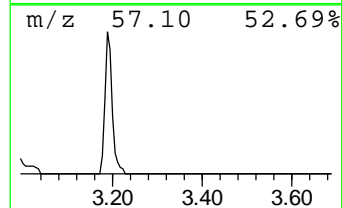
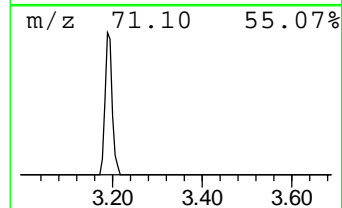
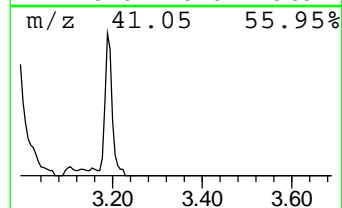
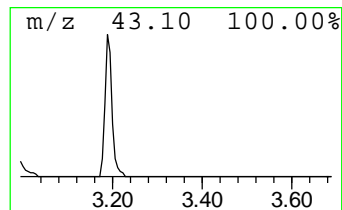
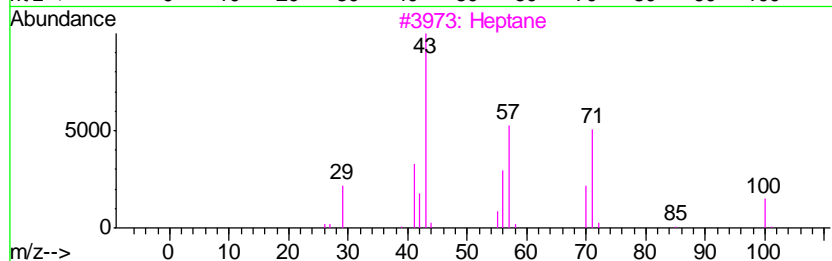
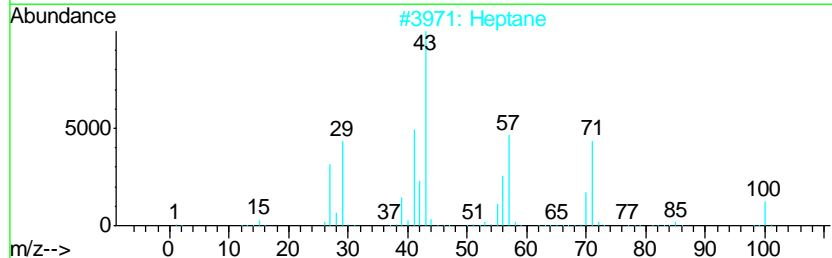
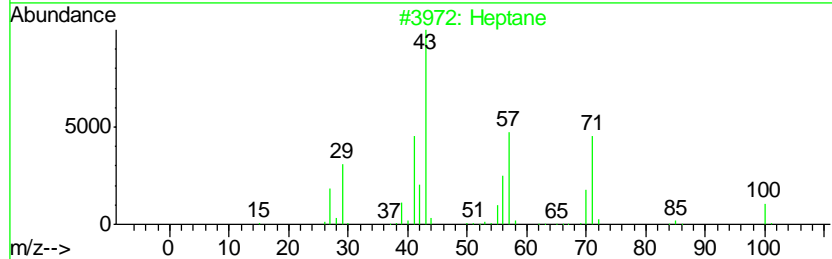
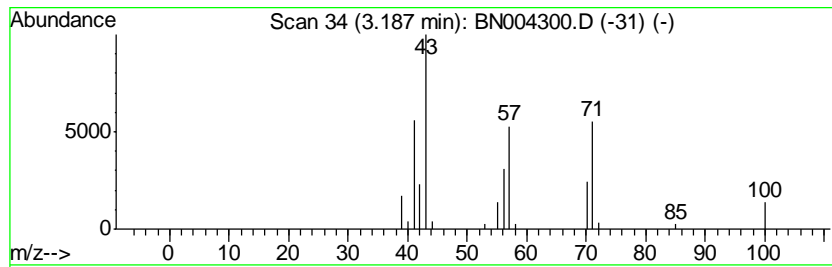
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 10.03 ng/ul | 70751 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W2

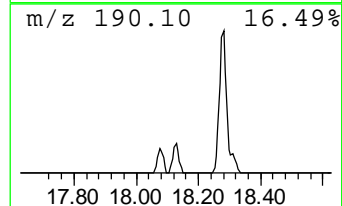
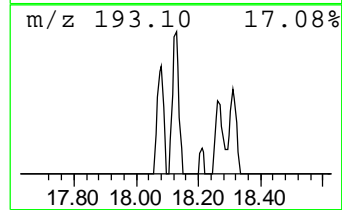
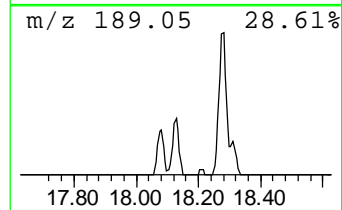
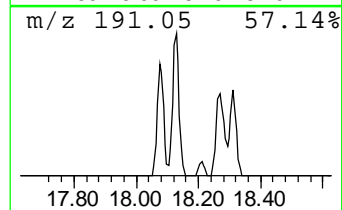
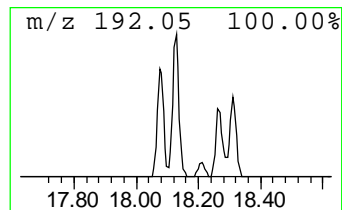
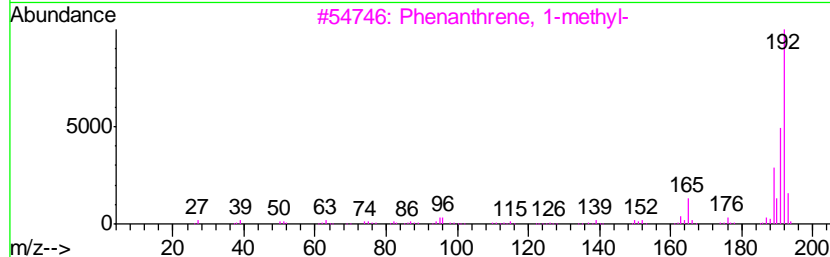
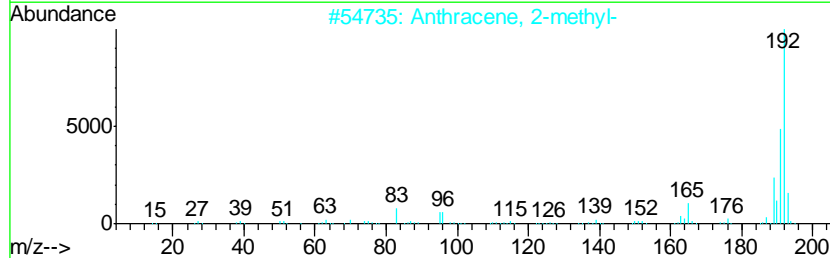
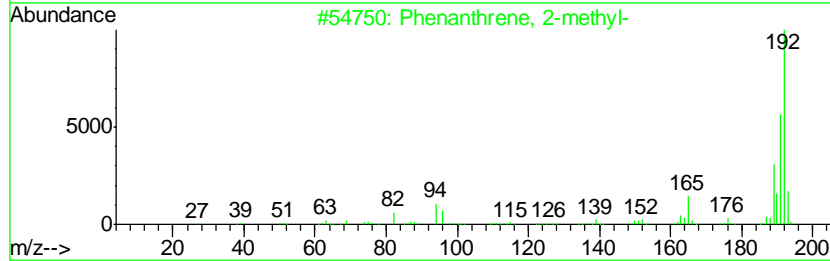
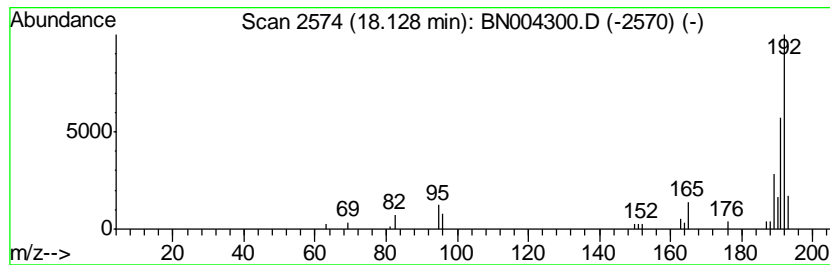
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.13 | 2.25 ng/ul | 55951 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 2 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 3 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 4 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 5 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W2

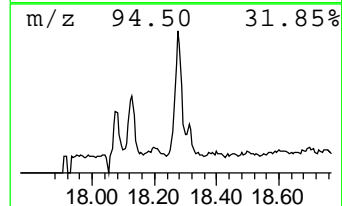
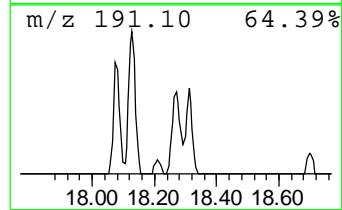
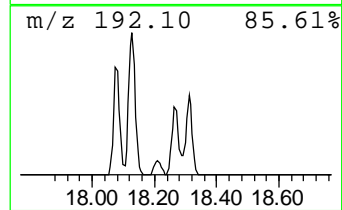
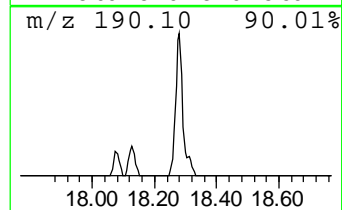
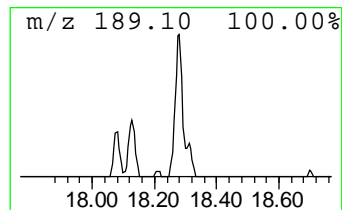
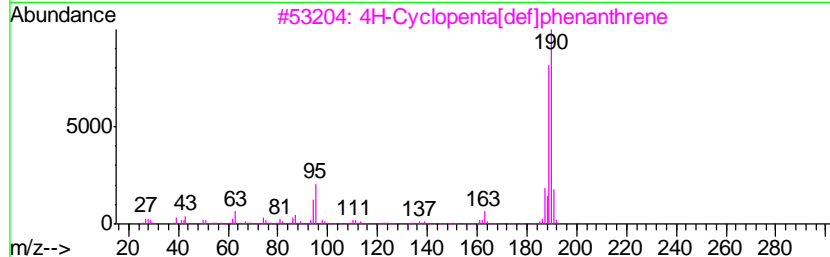
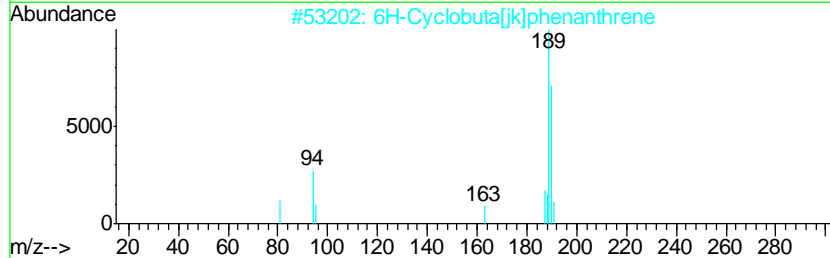
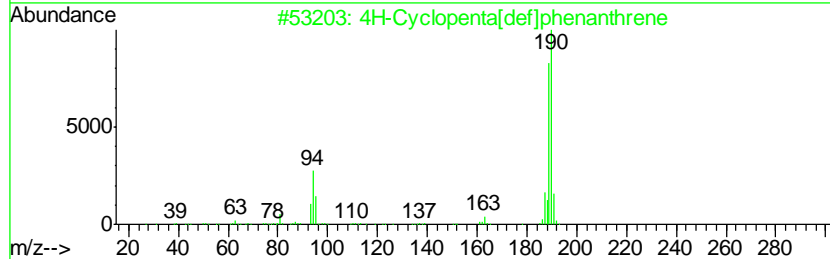
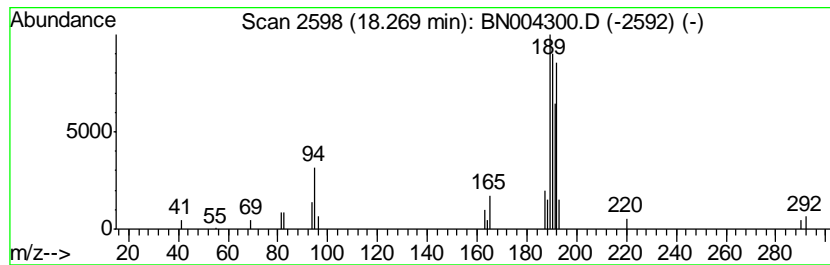
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.27 | 3.00 ng/ul | 74806 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 68 |
| 2 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 53 |
| 3 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 50 |
| 4 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 50 |
| 5 | | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 45 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W2

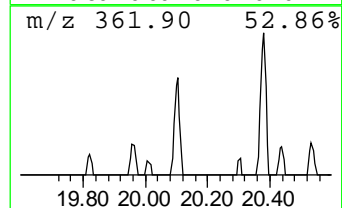
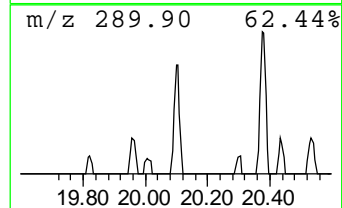
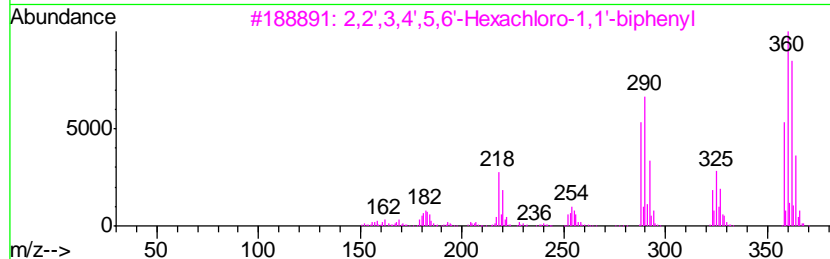
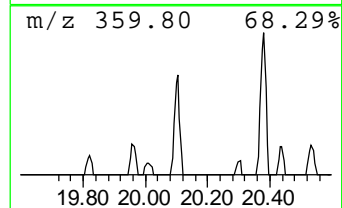
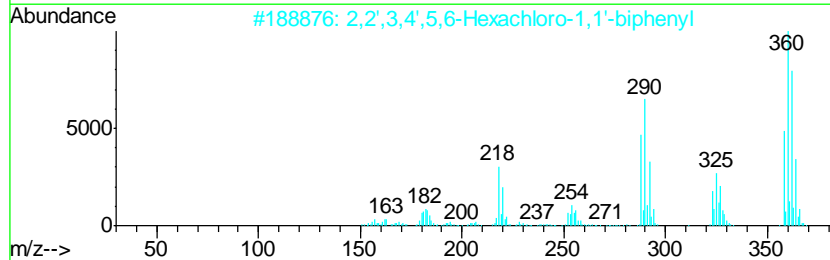
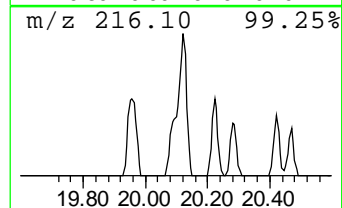
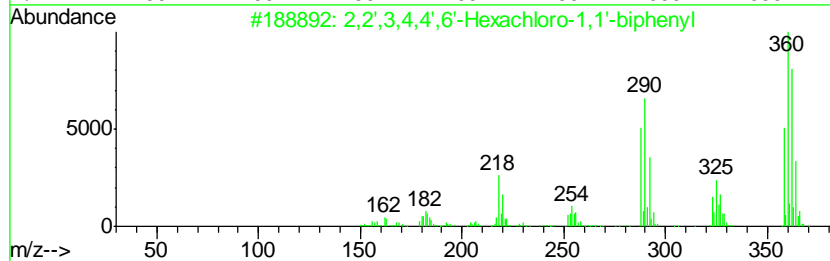
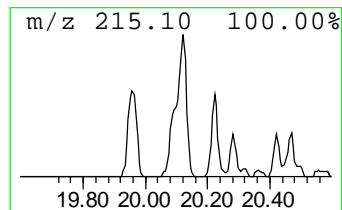
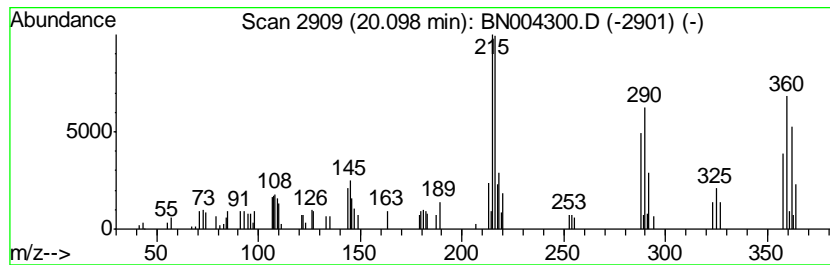
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 2,2',3,4,4',6'-Hexachloro-1... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.10 | 2.75 ng/ul | 139472 | Chrysene-d12 | 21.39 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 2,2',3,4,4',6'-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 059291-64-4 | 98 |
| 2 | | 2,2',3,4',5,6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 068194-13-8 | 98 |
| 3 | | 2,2',3,4',5,6'-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 074472-41-6 | 98 |
| 4 | | 2,2',3,4,5',6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 068194-14-9 | 98 |
| 5 | | 2,2',3,4,5,6-Hexachloro-1,1'-bip... | 358 | C12H4Cl6 | 041411-61-4 | 98 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W2

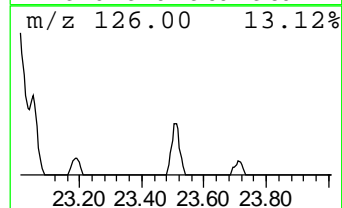
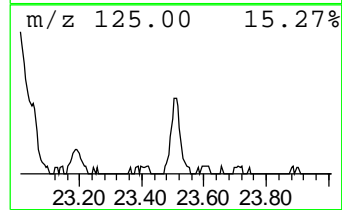
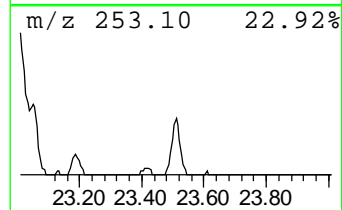
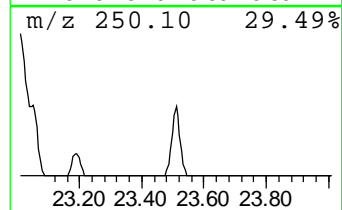
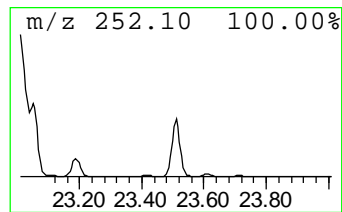
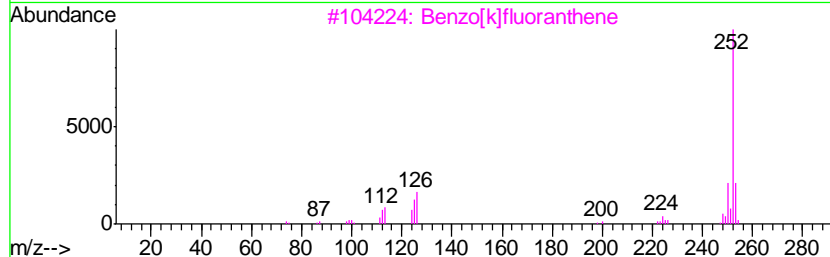
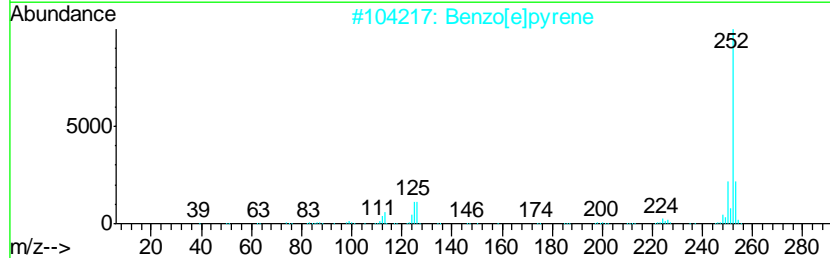
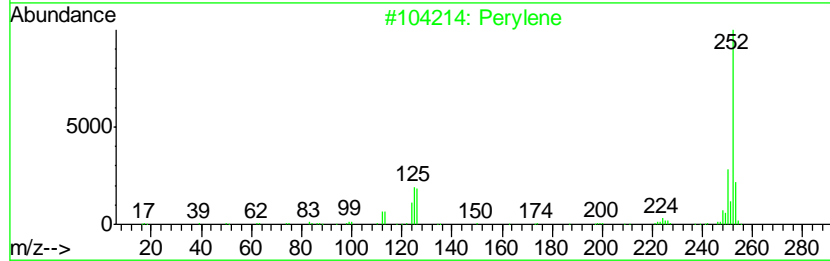
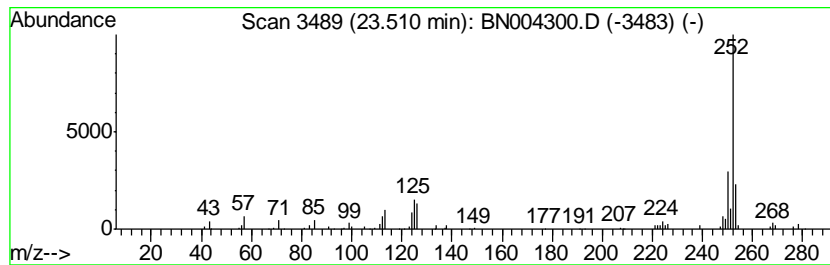
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 Perylene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 23.51 | 4.38 ng/ul | 115473 | Perylene-d12 | 23.71 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1 | 5 | Perylene | 252 | C20H12 | 000198-55-0 | 98 |
| 2 | | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 97 |
| 3 | | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 97 |
| 4 | | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 94 |
| 5 | | Perylene | 252 | C20H12 | 000198-55-0 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004300.D
 Acq On : 29 Dec 2018 14:25
 Operator : JU/SJ
 Sample : J6428-08
 Misc : GCMS Confirmation
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 10.0 | ng/ul | 70751 | 1 | 7.82 | 141113 | 20.0 |
| Phenanthrene, 2-m... | 18.13 | 2.3 | ng/ul | 55951 | 4 | 17.20 | 498168 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 3.0 | ng/ul | 74806 | 4 | 17.20 | 498168 | 20.0 |
| 2,2',3,4,4',6'-He... | 20.10 | 2.8 | ng/ul | 139472 | 5 | 21.39 | 1015470 | 20.0 |
| Perylene | 23.51 | 4.4 | ng/ul | 115473 | 6 | 23.71 | 527735 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W2DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-08DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035109.D
 % Solids : 81.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 200 | U |
| 11104-28-2 | Aroclor-1221 | 200 | U |
| 11141-16-5 | Aroclor-1232 | 200 | U |
| 53469-21-9 | Aroclor-1242 | 200 | U |
| 12672-29-6 | Aroclor-1248 | 200 | U |
| 11097-69-1 | Aroclor-1254 | 200 | U |
| 11096-82-5 | Aroclor-1260 | 16000 | ED |
| 37324-23-5 | Aroclor-1262 | 200 | U |
| 11100-14-4 | Aroclor-1268 | 200 | U |

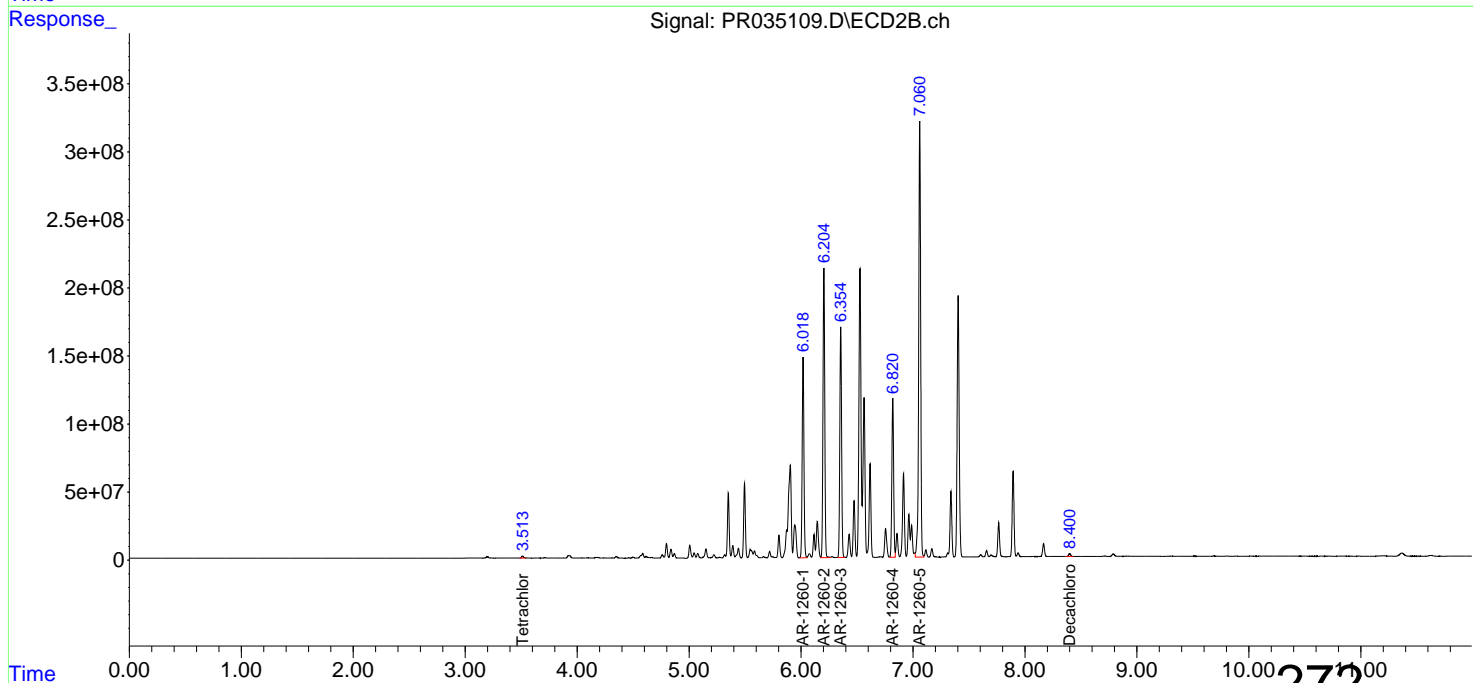
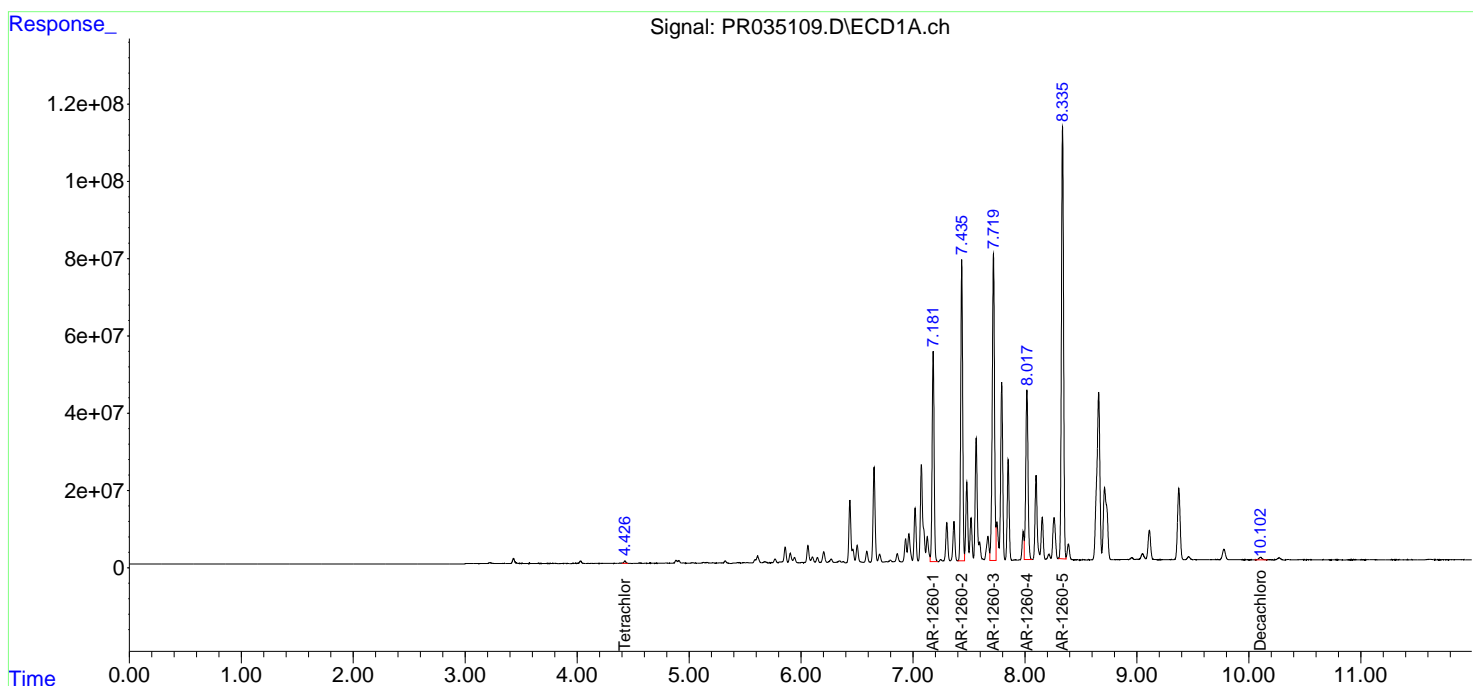
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035109.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:04
 Operator : SM\SJ
 Sample : J6428-08DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W2DL

Manual Integrations
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 Sohil
 12/29/2018 12:18:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035109.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:04
 Operator : SM\SJ
 Sample : J6428-08DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W2DL

Manual Integrations
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 Sohil
 12/29/2018 12:18:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 7325740 | 16906207 | 3.766m | 4.850m# |
| 2) SA Decachlor... | 10.104 | 8.400 | 12651603 | 26126335 | 6.435 | 5.942 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.018 | 677.6E6 | 1606.2E6 | 7208.294 | 7471.601 |
| 32) L7 AR-1260-2 | 7.436 | 6.204 | 943.9E6 | 2339.7E6 | 8130.160 | 8598.150 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 1120.7E6 | 1873.2E6 | 8030.222 | 7546.002 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 622.7E6 | 1293.5E6 | 7209.794 | 7564.479 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 1485.3E6 | 3846.3E6 | 8226.365 | 7952.687 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035109.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:04
 Operator : SM\SJ
 Sample : J6428-08DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

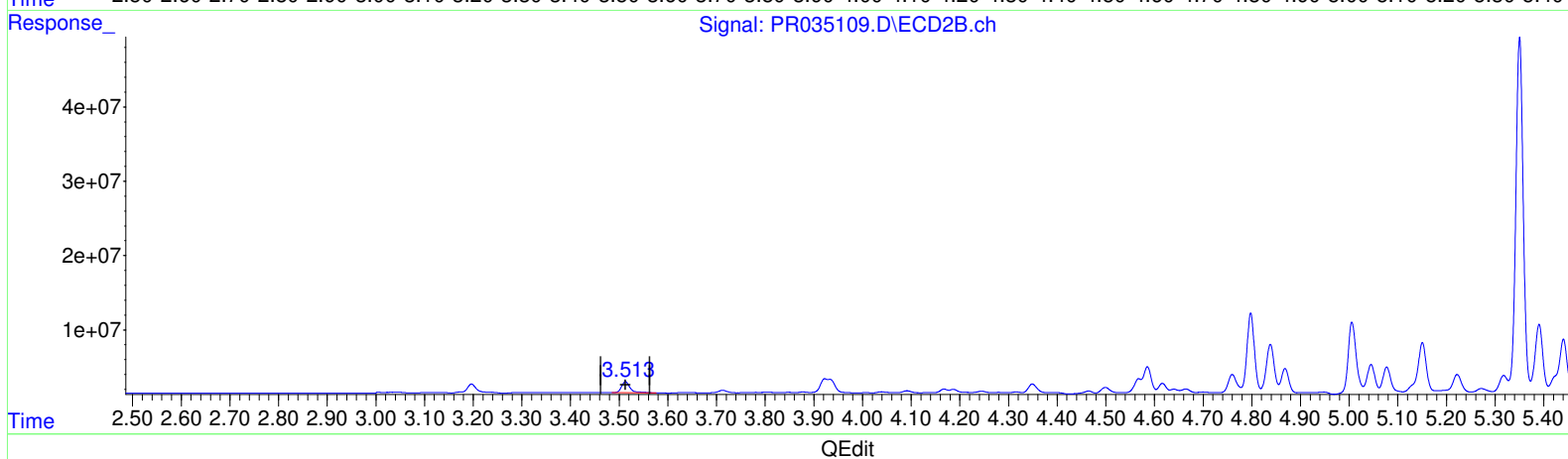
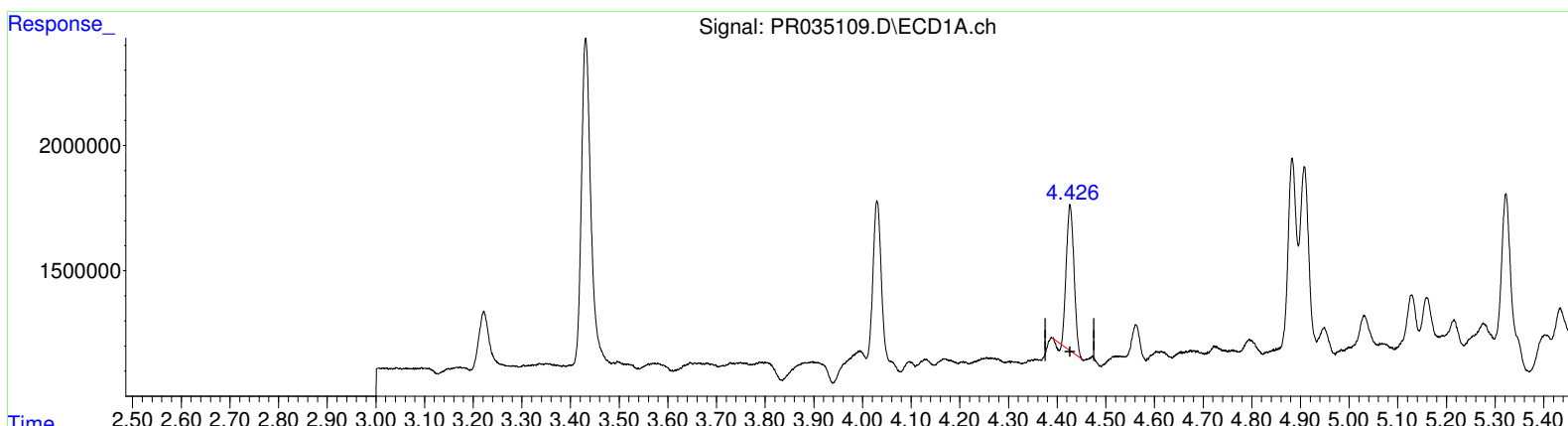
Instrument :
 ECD_R
 ClientSampleID :
 A41W2DL

Manual Integrations
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 12/29/2018 12:18:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 3.213 ng/ml
 response 6248438

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 5.284 ng/ml
 response 18419149

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035109.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:04
 Operator : SM\SJ
 Sample : J6428-08DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

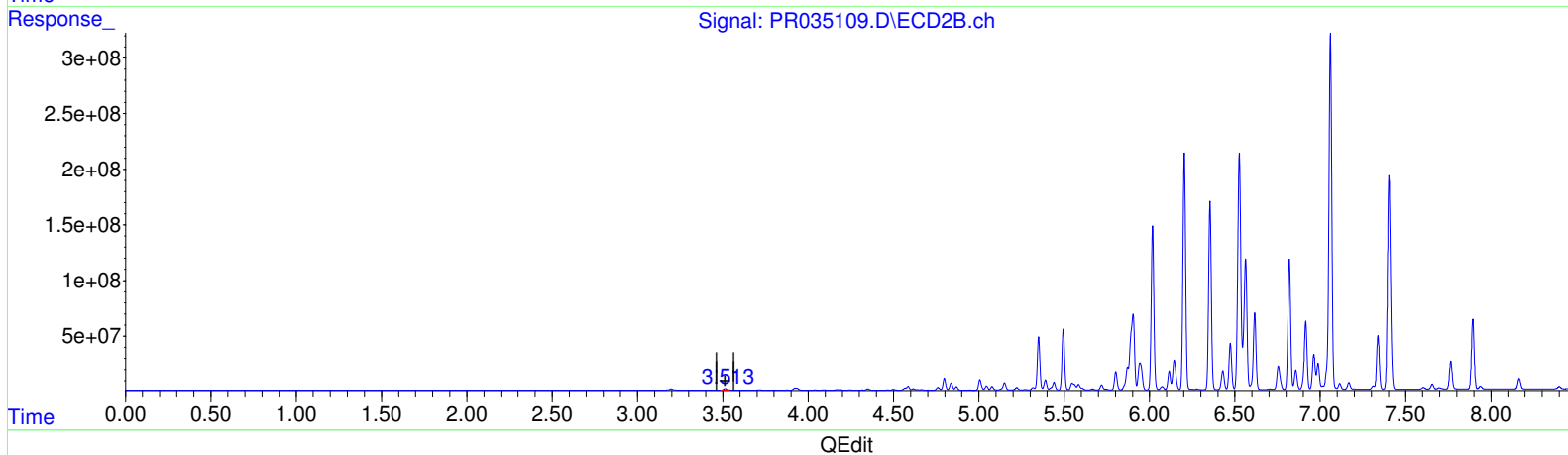
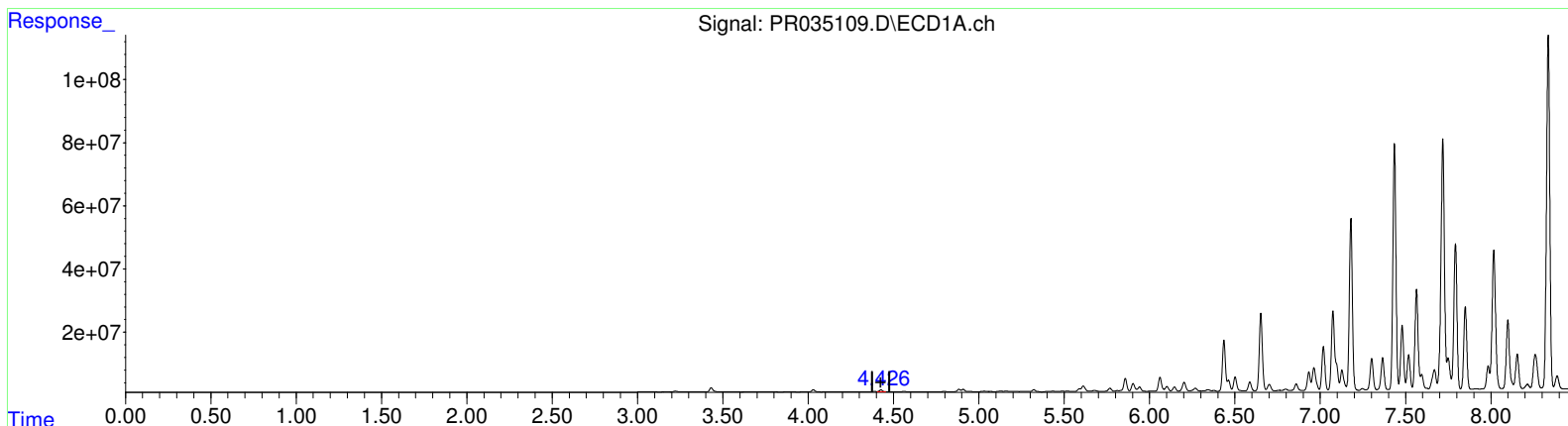
Instrument :
 ECD_R
 ClientSampled :
 A41W2DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:36 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 3.766 ng/ml m
 response 7325740

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 4.850 ng/ml m
 response 16906207

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035109.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:04
 Operator : SM\SJ
 Sample : J6428-08DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W2DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:20:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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 12/29/2018 12:18:36 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 7325740 | 16906207 | 3.766m | 4.850m# |
| 2) SA Decachlor... | 10.104 | 8.400 | 12651603 | 26126335 | 6.435 | 5.942 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.018 | 677.6E6 | 1606.2E6 | 7208.294 | 7471.601 |
| 32) L7 AR-1260-2 | 7.436 | 6.204 | 943.9E6 | 2339.7E6 | 8130.160 | 8598.150 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 1120.7E6 | 1873.2E6 | 8030.222 | 7546.002 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 622.7E6 | 1293.5E6 | 7209.794 | 7564.479 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 1485.3E6 | 3846.3E6 | 8226.365 | 7952.687 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W2DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-08DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035110.D
 % Solids : 81.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 50.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 2000 | U |
| 11104-28-2 | Aroclor-1221 | 2000 | U |
| 11141-16-5 | Aroclor-1232 | 2000 | U |
| 53469-21-9 | Aroclor-1242 | 2000 | U |
| 12672-29-6 | Aroclor-1248 | 2000 | U |
| 11097-69-1 | Aroclor-1254 | 2000 | U |
| 11096-82-5 | Aroclor-1260 | 24000 | D |
| 37324-23-5 | Aroclor-1262 | 2000 | U |
| 11100-14-4 | Aroclor-1268 | 2000 | U |

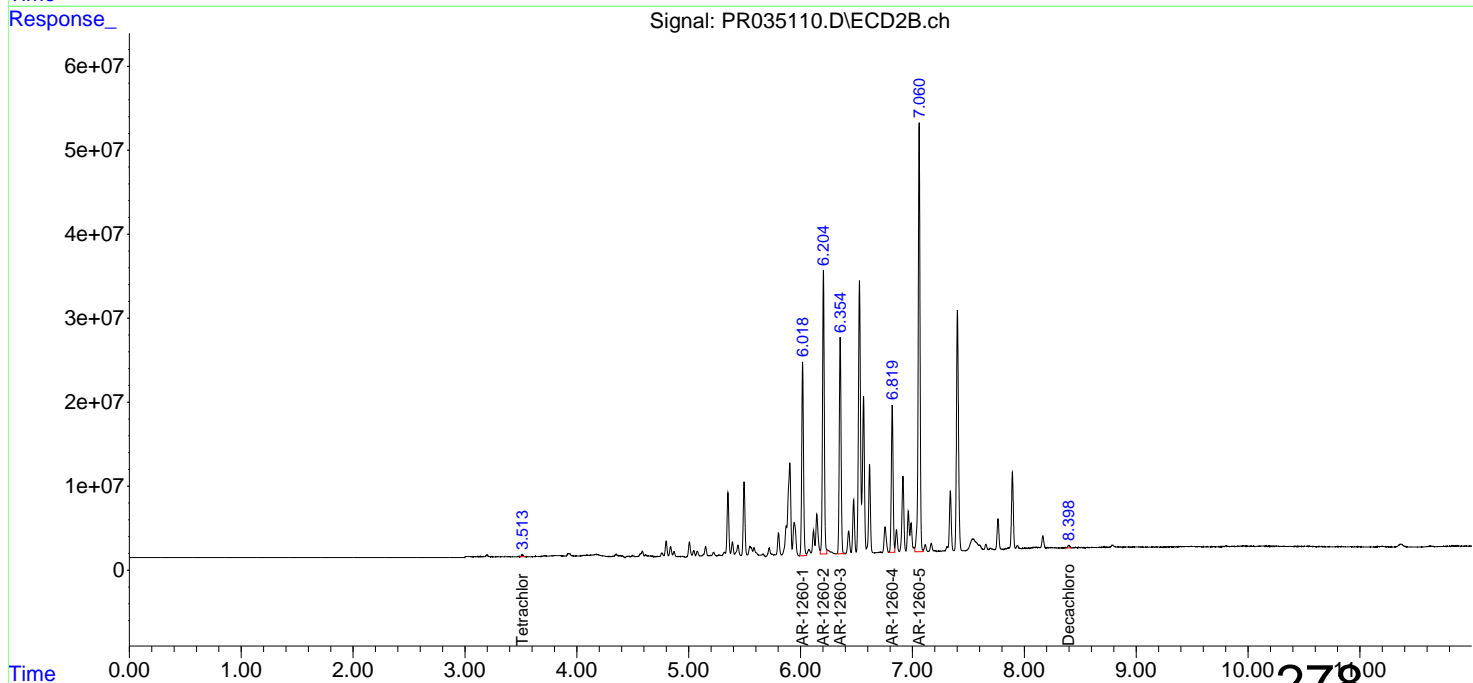
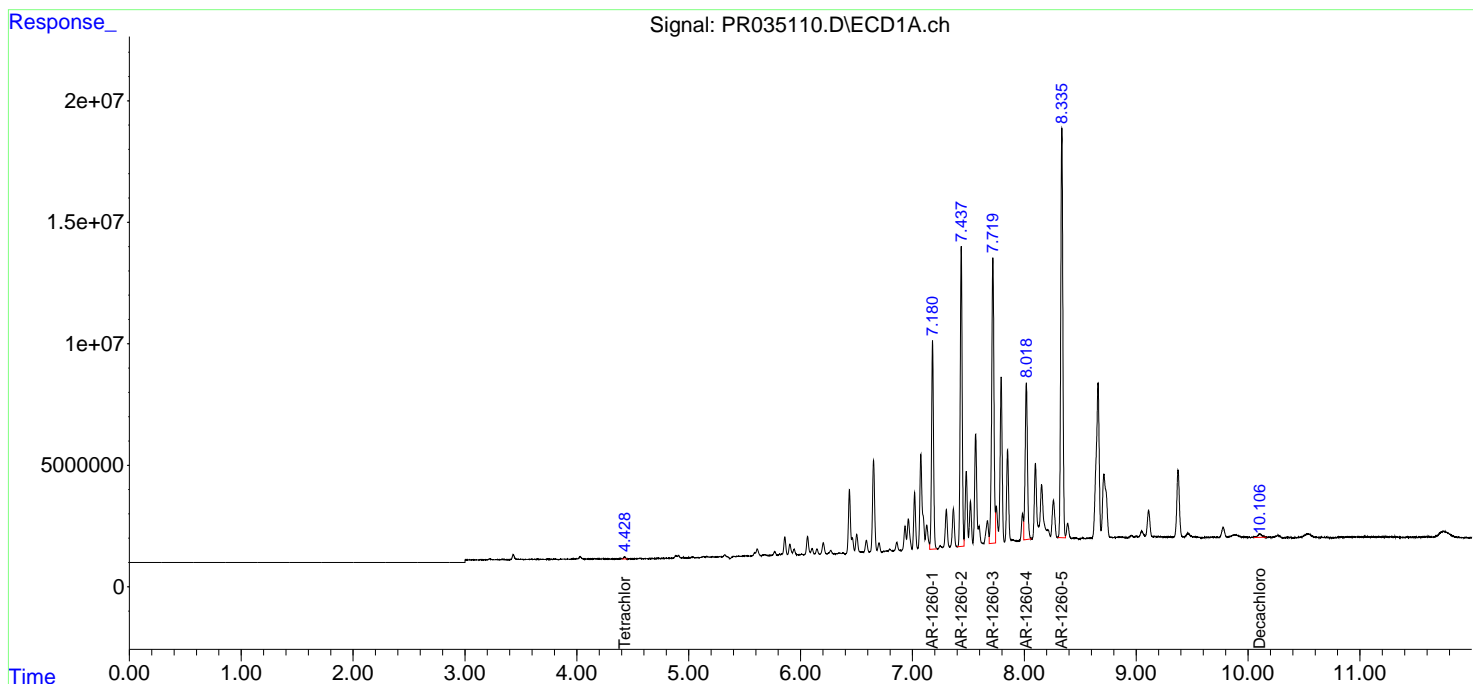
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035110.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:18
 Operator : SM\SJ
 Sample : J6428-08DL2 50X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W2DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:38 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035110.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:18
 Operator : SM\SJ
 Sample : J6428-08DL2 50X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W2DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:38 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 1185945 | 2674254 | 0.610m | 0.767m# |
| 2) SA Decachlor... | 10.106 | 8.399 | 3870539 | 3865943 | 1.969 | 0.879 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.180 | 6.018 | 104.6E6 | 256.0E6 | 1112.238 | 1191.046 |
| 32) L7 AR-1260-2 | 7.437 | 6.204 | 148.3E6 | 374.5E6 | 1277.546 | 1376.130m |
| 33) L7 AR-1260-3 | 7.719 | 6.354 | 167.0E6 | 286.1E6 | 1196.841 | 1152.511 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 93495702 | 192.7E6 | 1082.582 | 1126.700 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 221.2E6 | 580.2E6 | 1225.244 | 1199.735 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035110.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:18
 Operator : SM\SJ
 Sample : J6428-08DL2 50X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

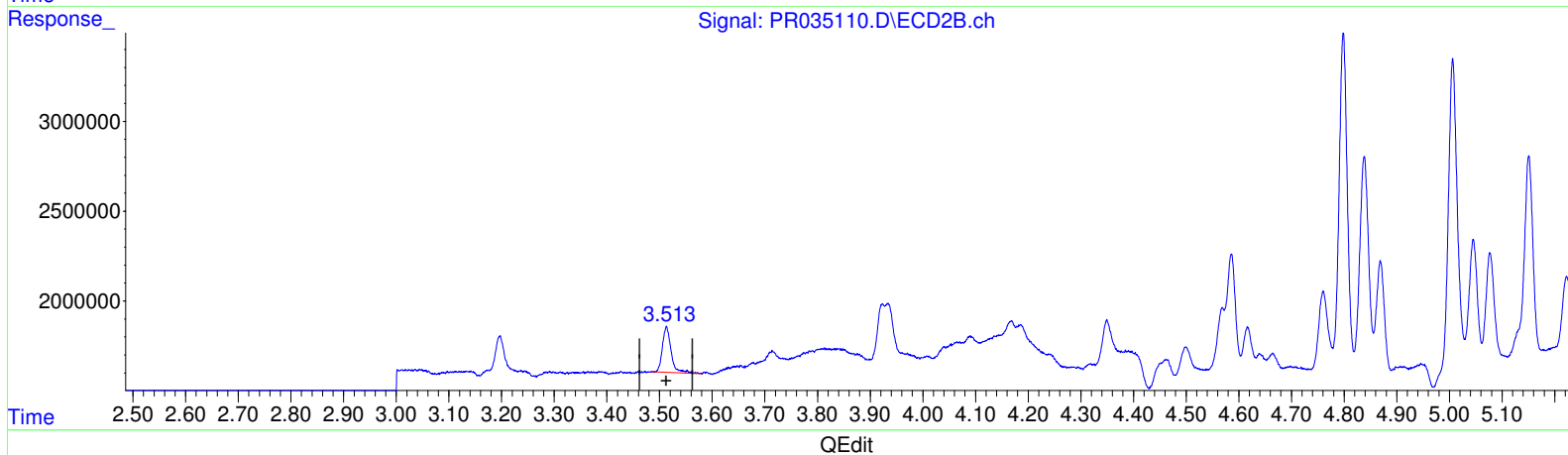
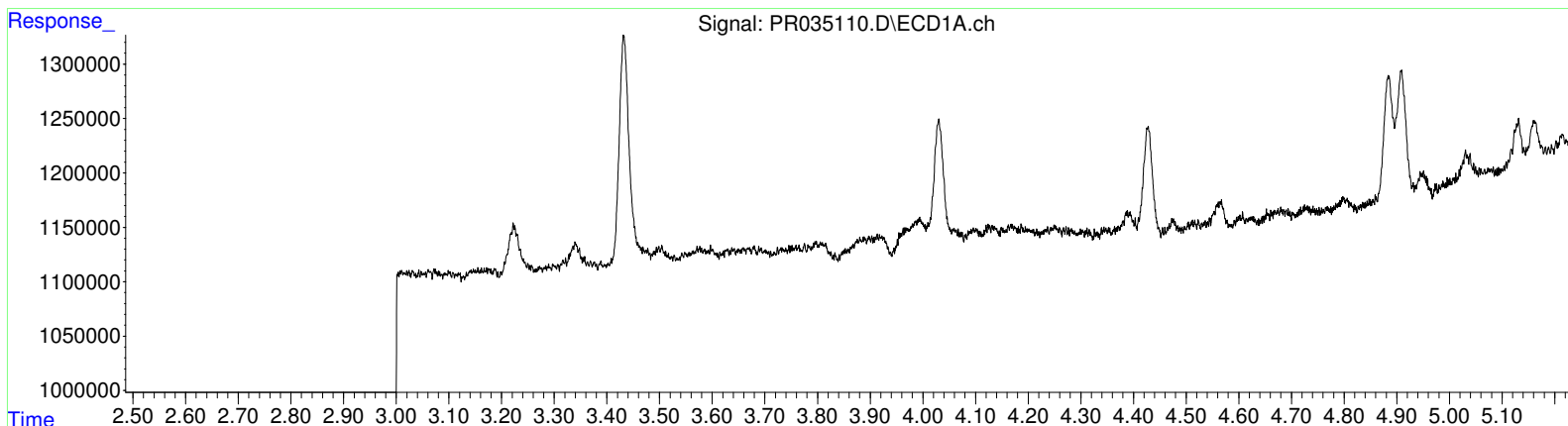
Instrument :
 ECD_R
 ClientSampleId :
 A41W2DL2

Manual Integrations
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Sohil
 12/29/2018 12:18:38 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 0.000min 0.000 ng/ml
 response 0

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 0.841 ng/ml
 response 2930863

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035110.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:18
 Operator : SM\SJ
 Sample : J6428-08DL2 50X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

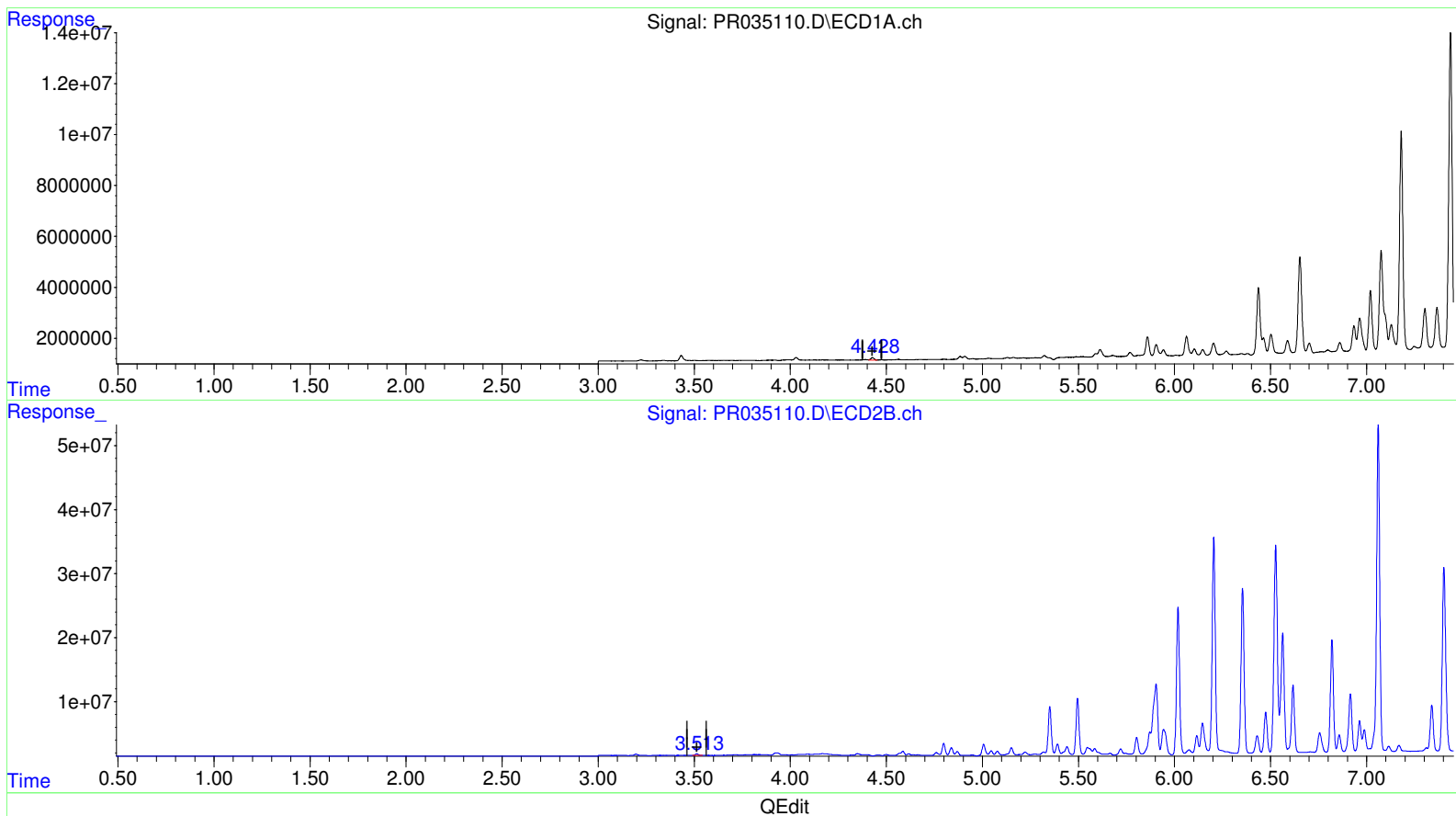
Instrument :
 ECD_R
 ClientSampled :
 A41W2DL2

Manual Integrations
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Sohil
 12/29/2018 12:18:38 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.428min 0.610 ng/ml m
 response 1185945

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 0.767 ng/ml m
 response 2674254

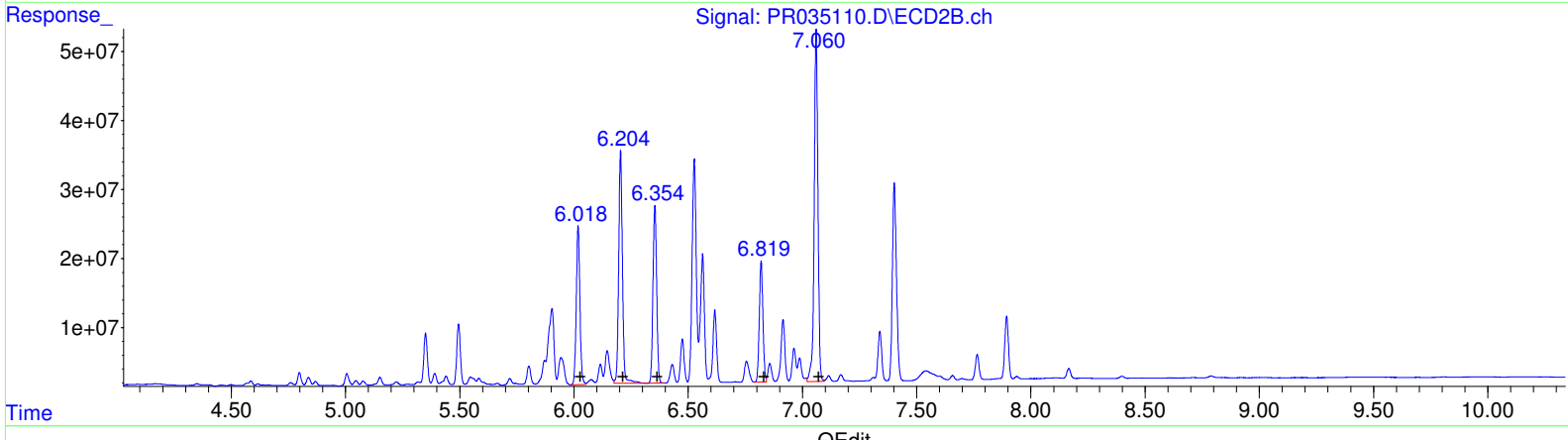
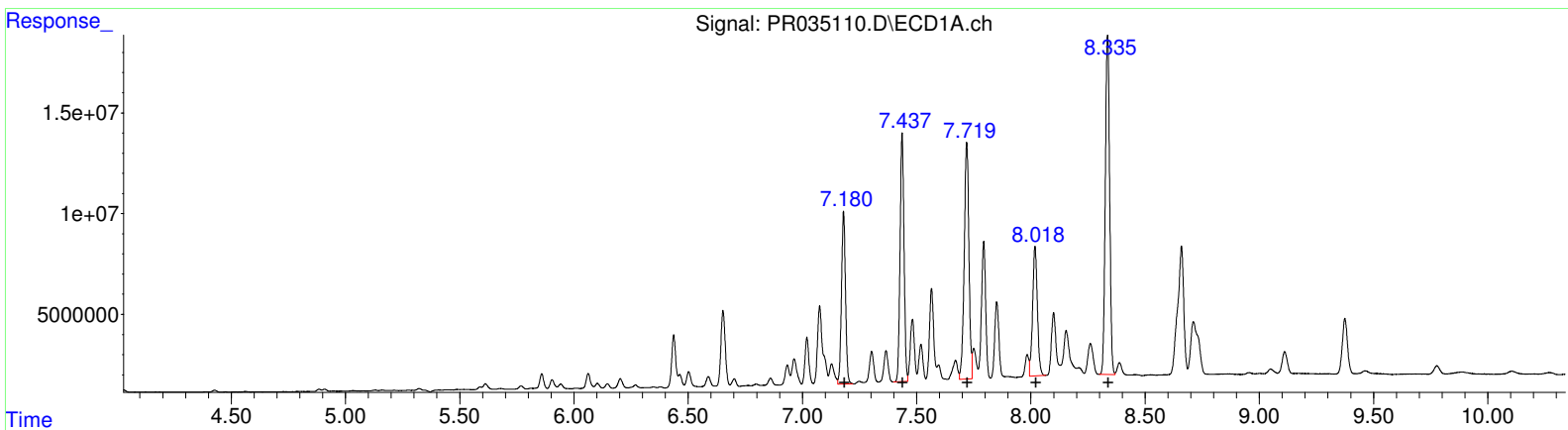
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 Data File : PR035110.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:18
 Operator : SM\SJ
 Sample : J6428-08DL2 50X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W2DL2

Manual Integrations
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Integration File signal 1: autoint1.e
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 Quant Time: Dec 28 23:21:02 2018
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 104559279 | 1112.24 |
| 7.44 | 148324623 | 1277.55 |
| 7.72 | 167026874 | 1196.84 |
| 8.02 | 93495702 | 1082.58 |
| 8.34 | 221222428 | 1225.24 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 256041671 | 1191.05 |
| 6.20 | 389370948 | 1430.87 |
| 6.35 | 286094517 | 1152.51 |
| 6.82 | 192654775 | 1126.70 |
| 7.06 | 580246504 | 1199.74 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035110.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:18
 Operator : SM\SJ
 Sample : J6428-08DL2 50X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

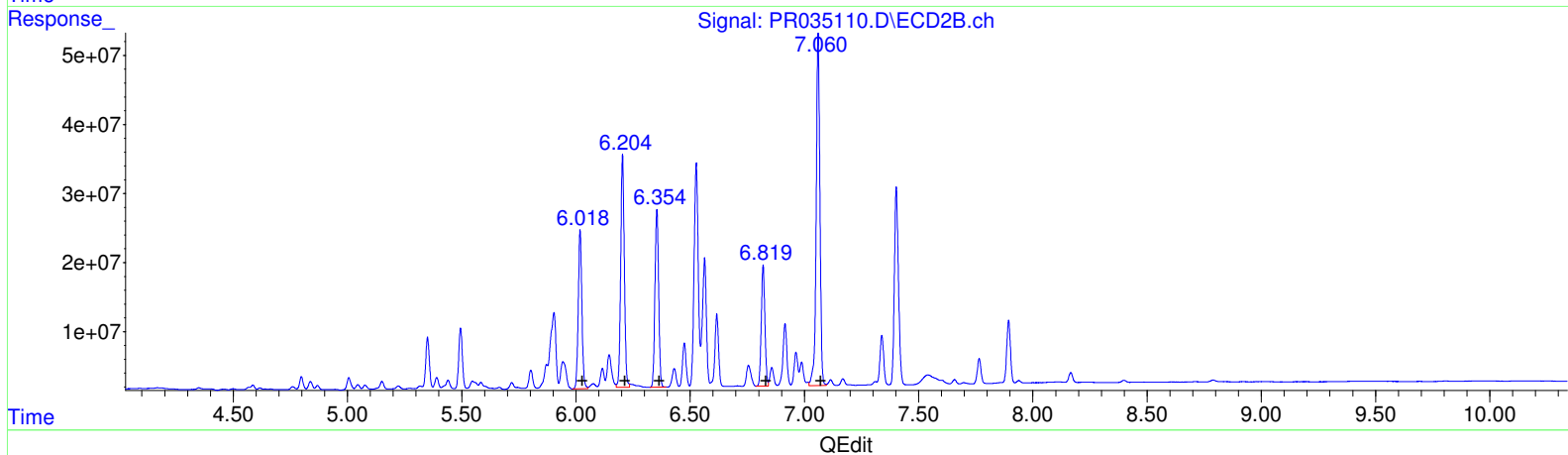
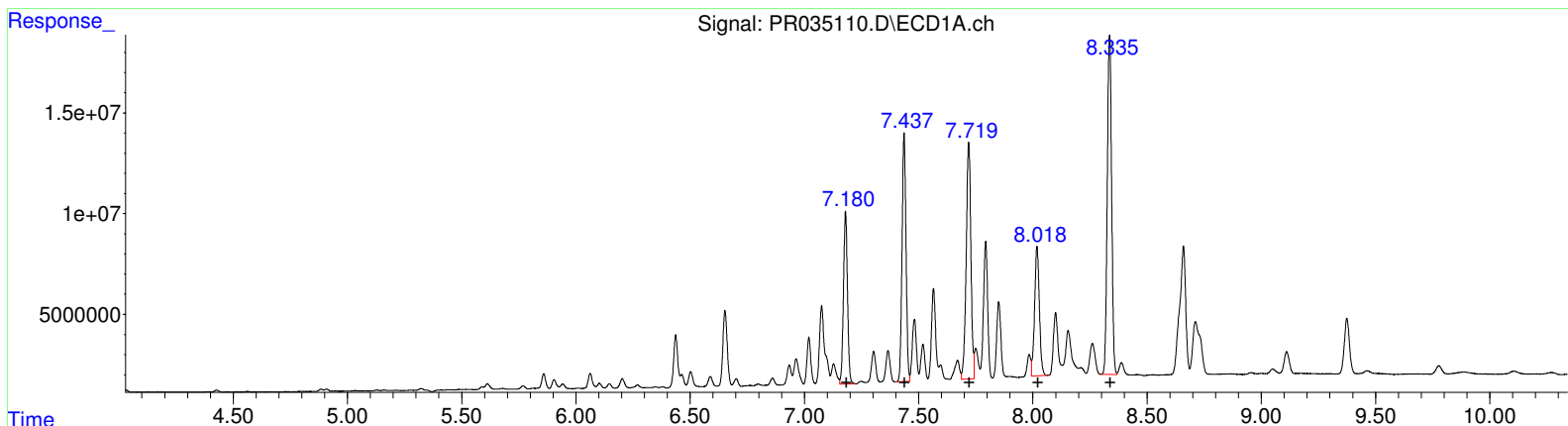
Instrument :
 ECD_R
 Client Sampled :
 A41W2DL2

Manual Integrations
 APPROVED

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 12/29/2018 12:18:38 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (31) AR-1260-1 #2 (L7) | | | |
|------------------------|-----------|---------|--|
| R.T. | Response | Conc | |
| 7.18 | 104559279 | 1112.24 | |
| 7.44 | 148324623 | 1277.55 | |
| 7.72 | 167026874 | 1196.84 | |
| 8.02 | 93495702 | 1082.58 | |
| 8.34 | 221222428 | 1225.24 | |
| (31) AR-1260-1 #2 (L7) | | | |
| R.T. | Response | Conc | |
| 6.02 | 256041671 | 1191.05 | |
| 6.20 | 374474697 | 1376.13 | |
| 6.35 | 286094517 | 1152.51 | |
| 6.82 | 192654775 | 1126.70 | |
| 7.06 | 580246504 | 1199.74 | |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035110.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:18
 Operator : SM\SJ

Sample : J6428-08DL2 50X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
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 Quant Time: Dec 28 23:21:02 2018
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 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|---------|---------|--------|---------|
| 1) SA Tetrachlo... | 4.428 | 3.513 | 1185945 | 2674254 | 0.610m | 0.767m# |
| 2) SA Decachlor... | 10.106 | 8.399 | 3870539 | 3865943 | 1.969 | 0.879 # |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|---------|----------|-----------|
| 31) L7 AR-1260-1 | 7.180 | 6.018 | 104.6E6 | 256.0E6 | 1112.238 | 1191.046 |
| 32) L7 AR-1260-2 | 7.437 | 6.204 | 148.3E6 | 374.5E6 | 1277.546 | 1376.130m |
| 33) L7 AR-1260-3 | 7.719 | 6.354 | 167.0E6 | 286.1E6 | 1196.841 | 1152.511 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 93495702 | 192.7E6 | 1082.582 | 1126.700 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 221.2E6 | 580.2E6 | 1225.244 | 1199.735 |

SJ
12/28/18

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

Instrument :
 ECD_R
 Client Sampled :
 A41W2DL2

Manual Integrations
 APPROVED

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 12/29/2018 12:18:38 PM

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W3

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-11
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035058.D
 % Solids : 79.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 41 | U |
| 11104-28-2 | Aroclor-1221 | 41 | U |
| 11141-16-5 | Aroclor-1232 | 41 | U |
| 53469-21-9 | Aroclor-1242 | 41 | U |
| 12672-29-6 | Aroclor-1248 | 4300 | EC |
| 11097-69-1 | Aroclor-1254 | 41 | U |
| 11096-82-5 | Aroclor-1260 | 9200 | EC |
| 37324-23-5 | Aroclor-1262 | 41 | U |
| 11100-14-4 | Aroclor-1268 | 41 | U |

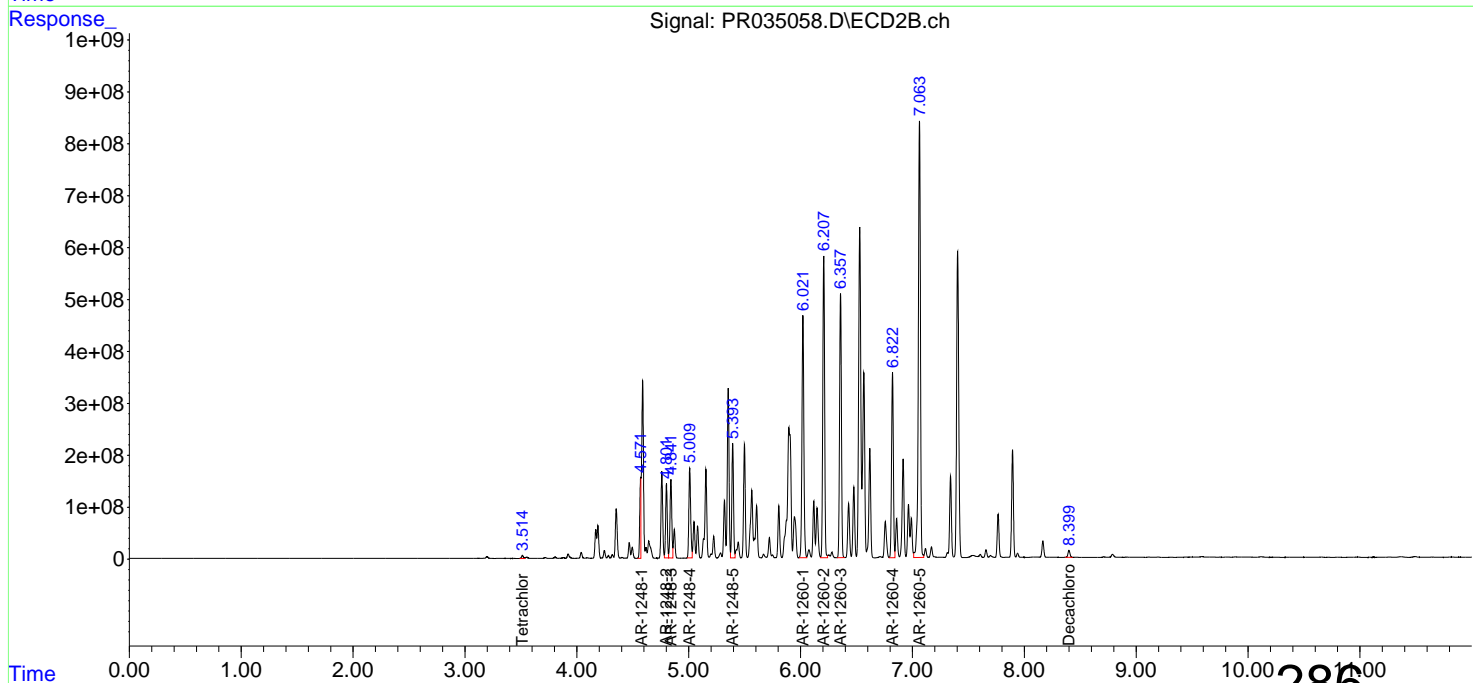
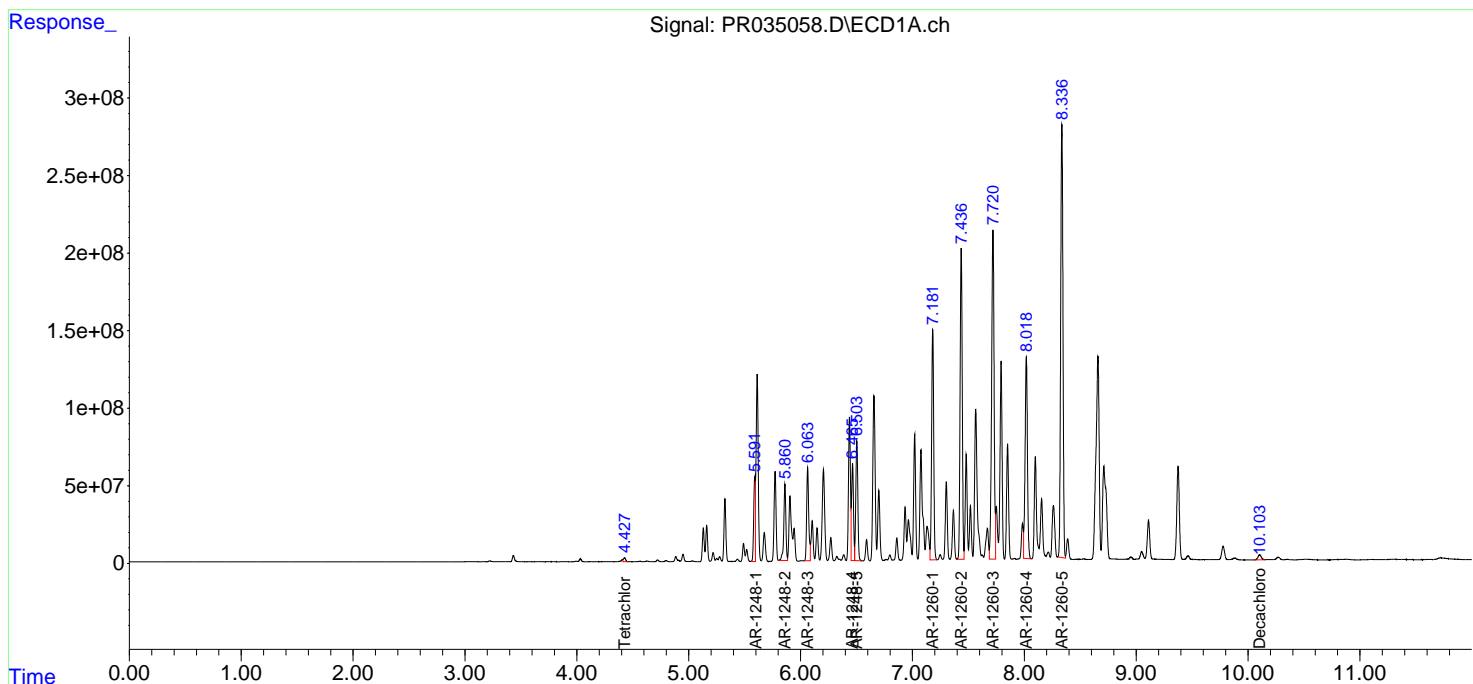
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 Data File : PR035058.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:15
 Operator : SM\SJ
 Sample : J6428-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W3

Manual Integrations
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 Sohil
 12/29/2018 12:17:32 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:03:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035058.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:15
 Operator : SM\SJ
 Sample : J6428-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W3

Manual Integrations
 APPROVED

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 12/29/2018 12:17:32 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:03:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.514 | 34714447 | 65058397 | 17.848m | 18.663m |
| 2) SA Decachlor... | 10.104 | 8.400 | 65359221 | 166.0E6 | 33.246 | 37.751 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.571 | 571.9E6 | 1083.1E6 | 11785.652m | 11108.805m |
| 22) L5 AR-1248-2 | 5.860 | 4.801 | 632.9E6 | 1437.5E6 | 9579.161m | 11221.733 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 775.9E6 | 1687.3E6 | 10385.374 | 12785.122 |
| 24) L5 AR-1248-4 | 6.465 | 5.009 | 735.6E6 | 1944.0E6 | 8233.247 | 11815.159 # |
| 25) L5 AR-1248-5 | 6.503 | 5.394 | 981.7E6 | 2311.4E6 | 11733.451 | 13811.041 |
| 31) L7 AR-1260-1 | 7.182 | 6.021 | 1924.1E6 | 5503.5E6 | 20467.480 | 25600.813 # |
| 32) L7 AR-1260-2 | 7.436 | 6.208 | 2649.6E6 | 6683.6E6 | 22821.112 | 24561.056 |
| 33) L7 AR-1260-3 | 7.720 | 6.358 | 3242.8E6 | 5848.9E6 | 23236.519 | 23561.682 |
| 34) L7 AR-1260-4 | 8.018 | 6.822 | 1902.7E6 | 3999.4E6 | 22030.817 | 23389.627 |
| 35) L7 AR-1260-5 | 8.336 | 7.063 | 3965.5E6 | 10932.2E6 | 21963.109 | 22603.842 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035058.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:15
 Operator : SM\SJ
 Sample : J6428-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

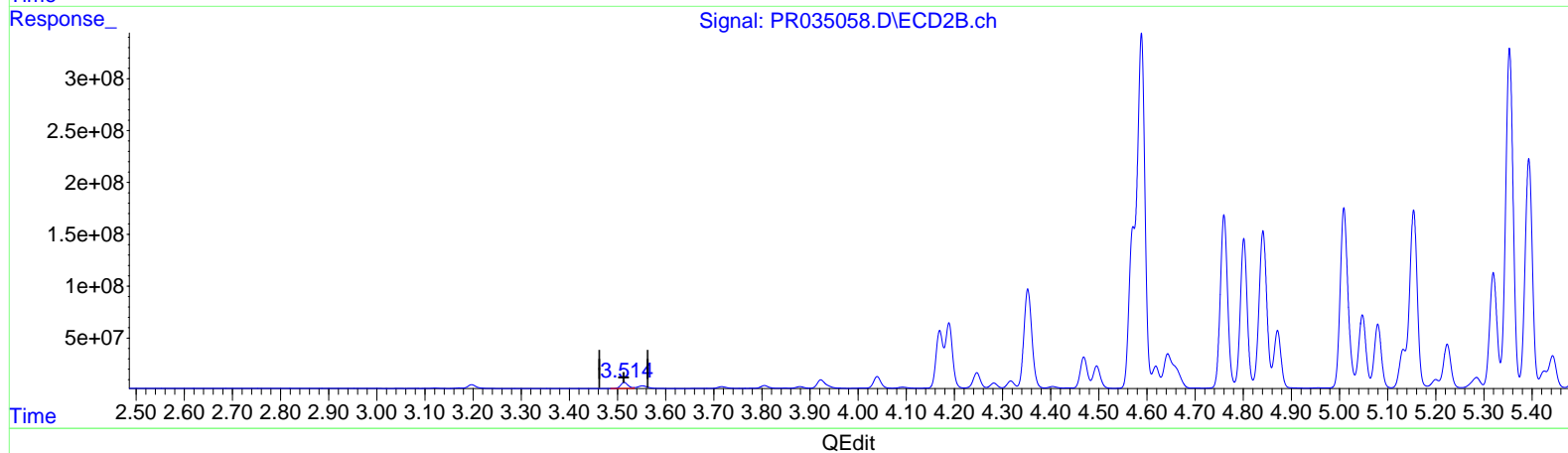
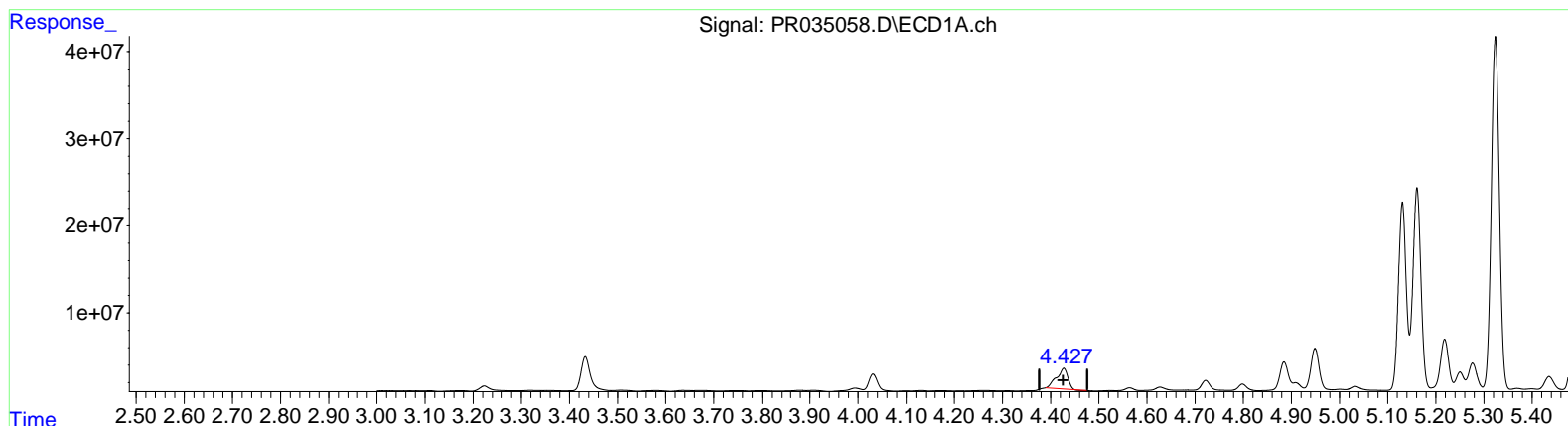
Instrument :
 ECD_R
 ClientSampled :
 A41W3

Manual Integrations
 APPROVED

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 12/29/2018 12:17:32 PM

Integration File signal 1: autoint1.e
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.427min 19.541 ng/ml

response 38008474

(1) Tetrachloro-m-xylene #2 (SA)

3.514min 18.181 ng/ml

response 63377960

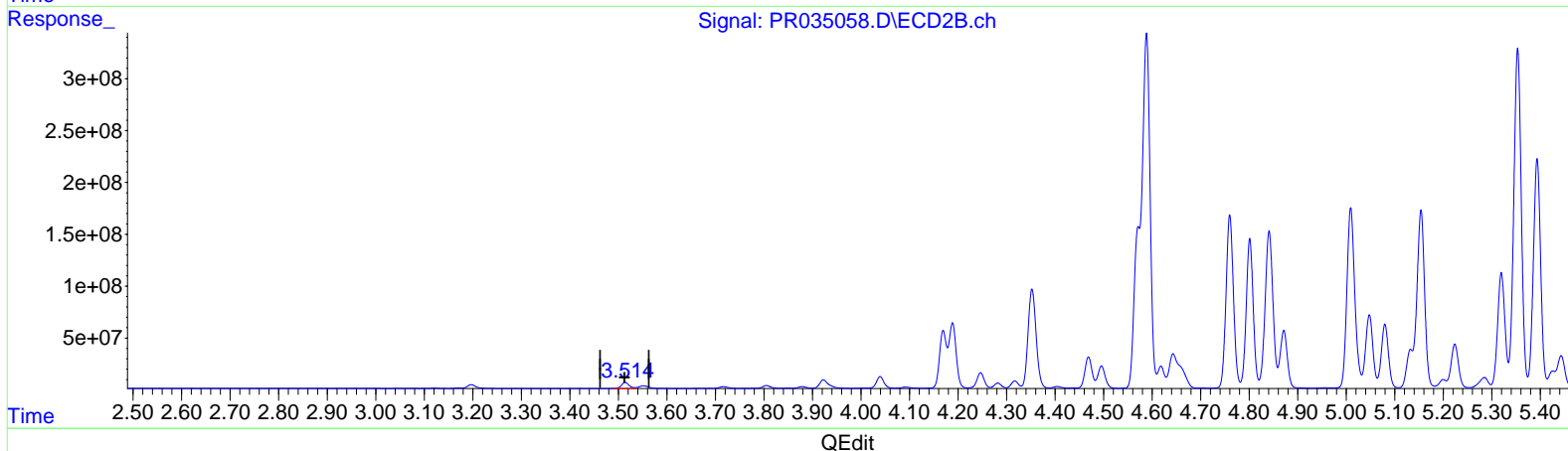
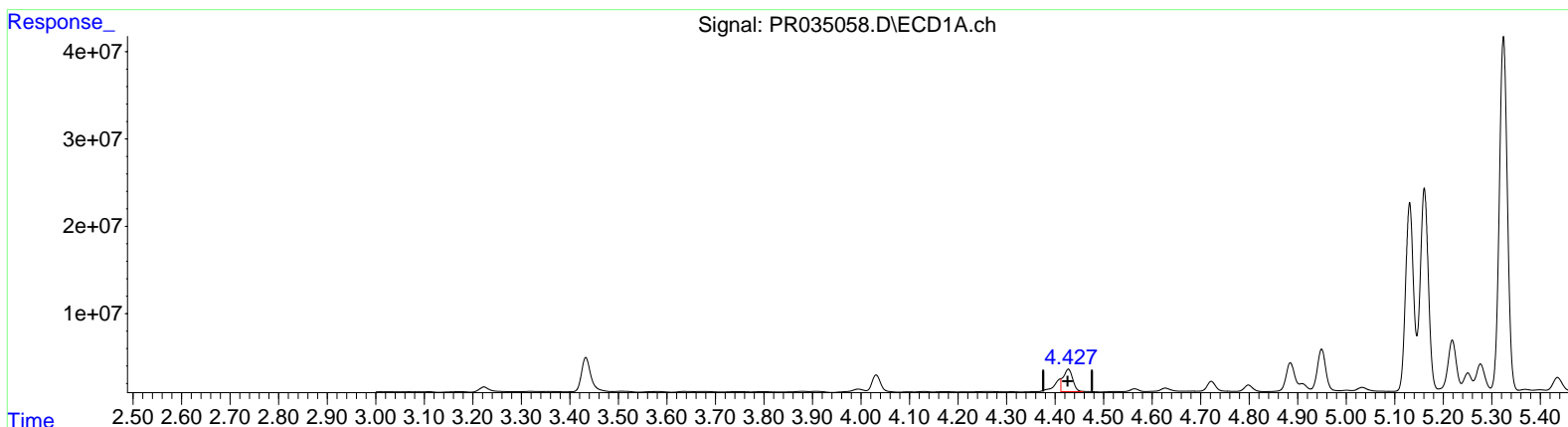
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 Data File : PR035058.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:15
 Operator : SM\SJ
 Sample : J6428-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W3

Manual Integrations
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Integration File signal 1: autoint1.e
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 17.848 ng/ml m
 response 34714447

(1) Tetrachloro-m-xylene #2 (SA)
 3.514min 18.663 ng/ml m
 response 65058397

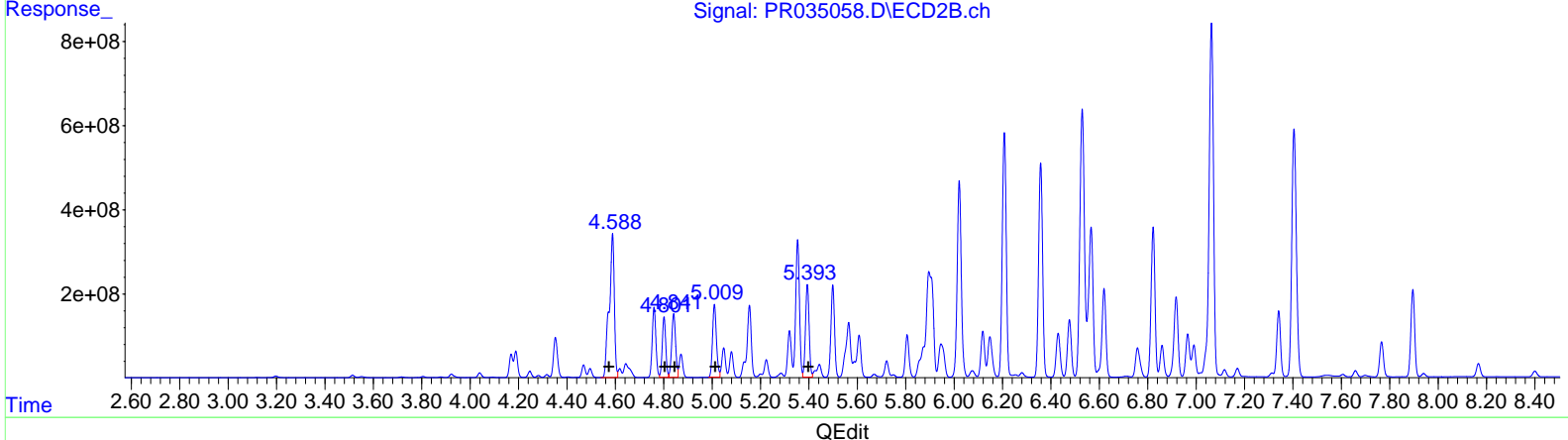
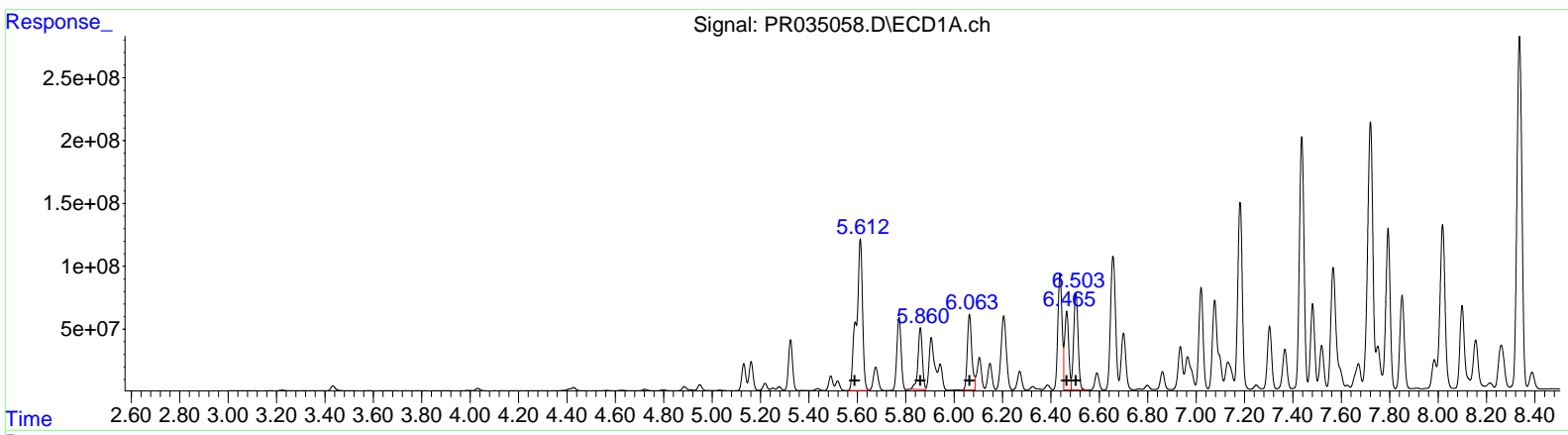
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035058.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:15
 Operator : SM\SJ
 Sample : J6428-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
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Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
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 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 5.61 | 2126175886 | 43818.23 |
| 5.86 | 617674660 | 9348.30 |
| 6.06 | 775942381 | 10385.37 |
| 6.47 | 735607137 | 8233.25 |
| 6.50 | 981717136 | 11733.45 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 5029447624 | 51583.18 |
| 4.80 | 1437531093 | 11221.73 |
| 4.84 | 1687344463 | 12785.12 |
| 5.01 | 1943951619 | 11815.16 |
| 5.39 | 2311356246 | 13811.04 |

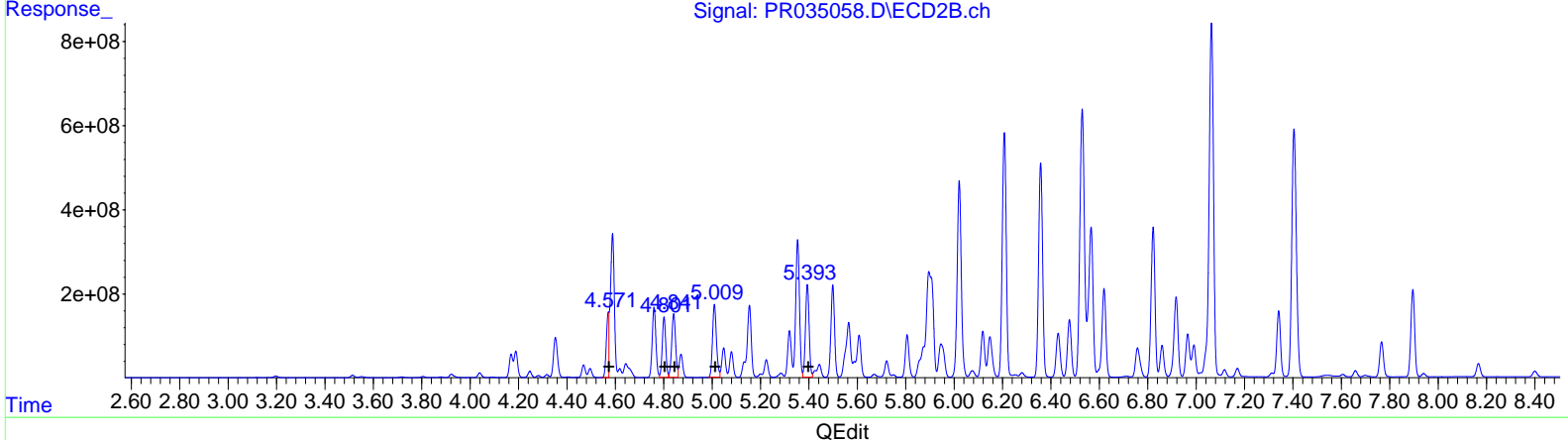
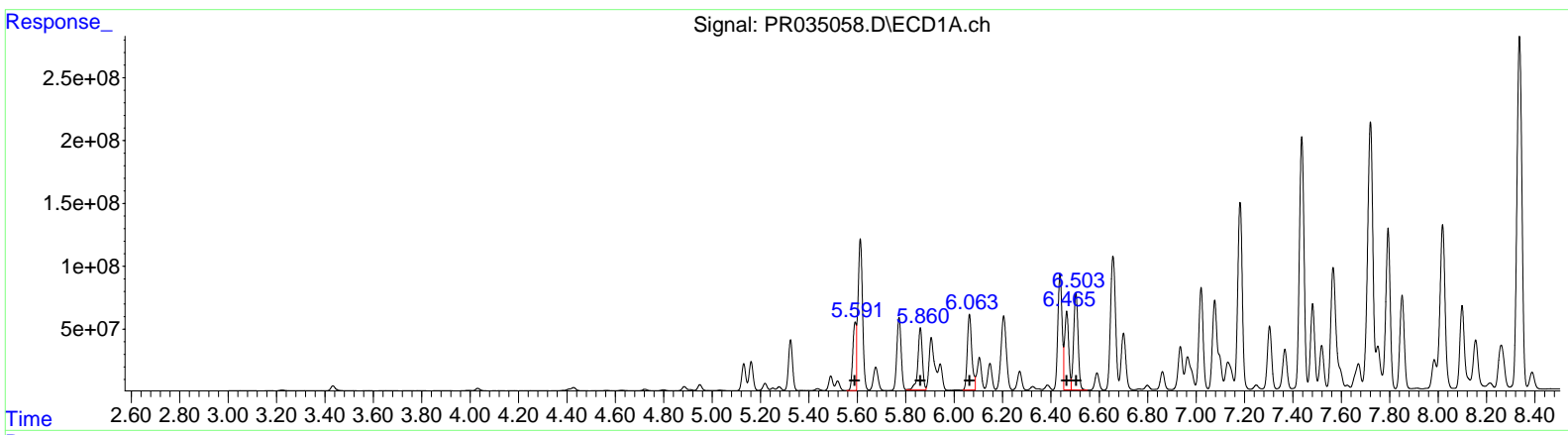
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 Data File : PR035058.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:15
 Operator : SM\SJ
 Sample : J6428-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W3

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:32 PM

Integration File signal 1: autoint1.e
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 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|-----------|----------|
| 5.59 | 571870826 | 11785.65 |
| 5.86 | 632928758 | 9579.16 |
| 6.06 | 775942381 | 10385.37 |
| 6.47 | 735607137 | 8233.25 |
| 6.50 | 981717136 | 11733.45 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.57 | 1083127305 | 11108.81 |
| 4.80 | 1437531093 | 11221.73 |
| 4.84 | 1687344463 | 12785.12 |
| 5.01 | 1943951619 | 11815.16 |
| 5.39 | 2311356246 | 13811.04 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035058.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:15
 Operator : SM\SJ
 Sample : J6428-11
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W3

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:32 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:03:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.514 | 34714447 | 65058397 | 17.848m | 18.663m |
| 2) SA Decachlor... | 10.104 | 8.400 | 65359221 | 166.0E6 | 33.246 | 37.751 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.571 | 571.9E6 | 1083.1E6 | 11785.652m | 11108.805m |
| 22) L5 AR-1248-2 | 5.860 | 4.801 | 632.9E6 | 1437.5E6 | 9579.161m | 11221.733 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 775.9E6 | 1687.3E6 | 10385.374 | 12785.122 |
| 24) L5 AR-1248-4 | 6.465 | 5.009 | 735.6E6 | 1944.0E6 | 8233.247 | 11815.159 # |
| 25) L5 AR-1248-5 | 6.503 | 5.394 | 981.7E6 | 2311.4E6 | 11733.451 | 13811.041 |
| 31) L7 AR-1260-1 | 7.182 | 6.021 | 1924.1E6 | 5503.5E6 | 20467.480 | 25600.813 # |
| 32) L7 AR-1260-2 | 7.436 | 6.208 | 2649.6E6 | 6683.6E6 | 22821.112 | 24561.056 |
| 33) L7 AR-1260-3 | 7.720 | 6.358 | 3242.8E6 | 5848.9E6 | 23236.519 | 23561.682 |
| 34) L7 AR-1260-4 | 8.018 | 6.822 | 1902.7E6 | 3999.4E6 | 22030.817 | 23389.627 |
| 35) L7 AR-1260-5 | 8.336 | 7.063 | 3965.5E6 | 10932.2E6 | 21963.109 | 22603.842 |
| ----- | | | | | | |

SJ
 12/28/18

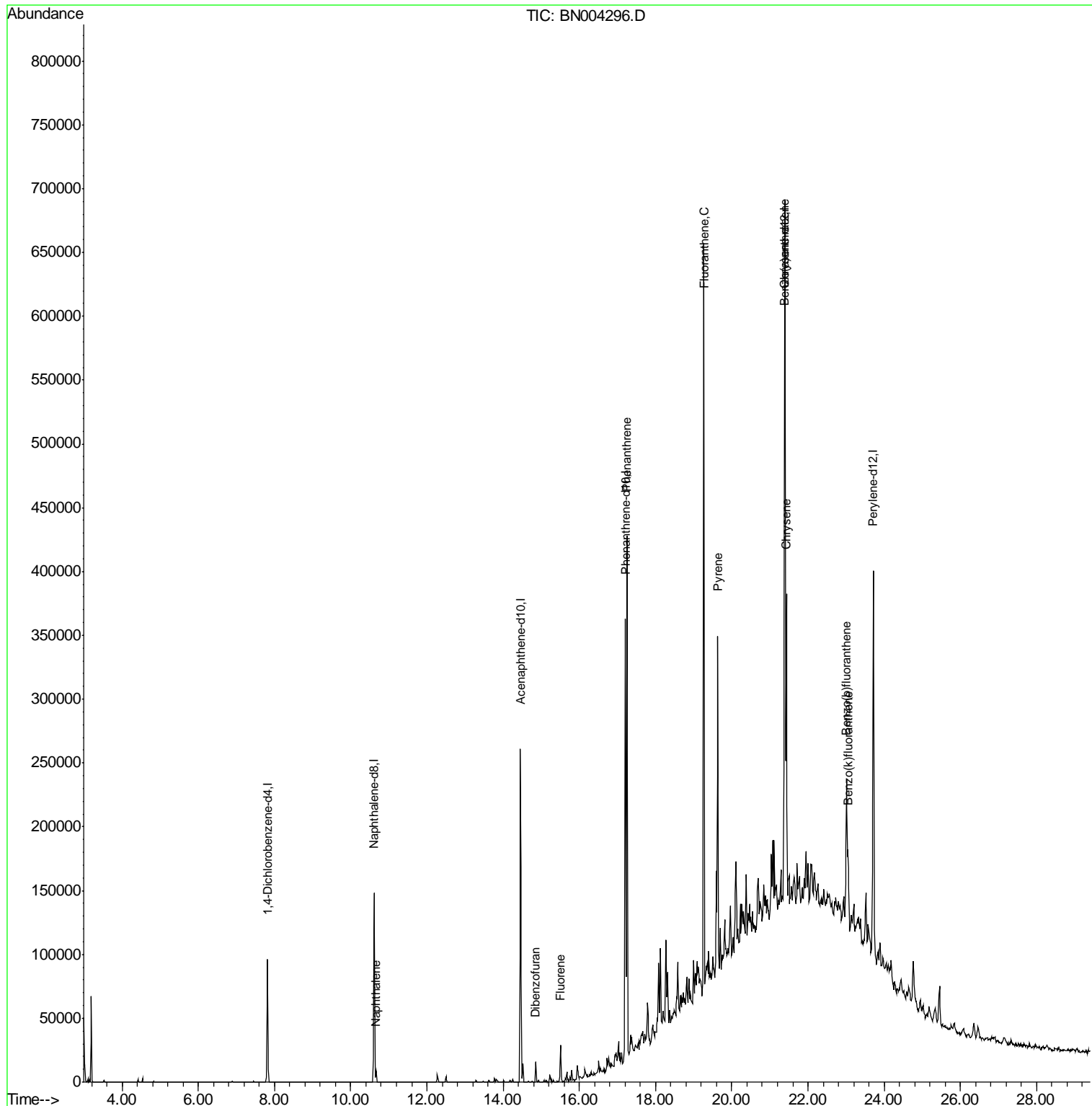
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

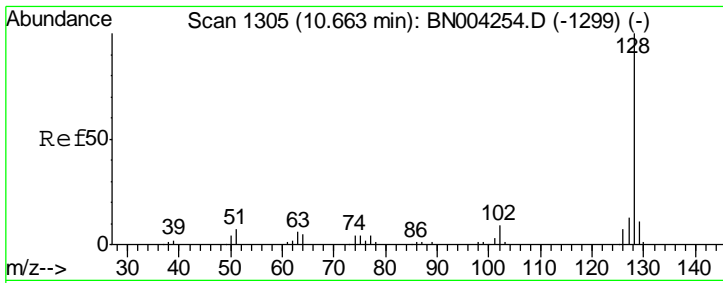
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W3

Manual Integrations
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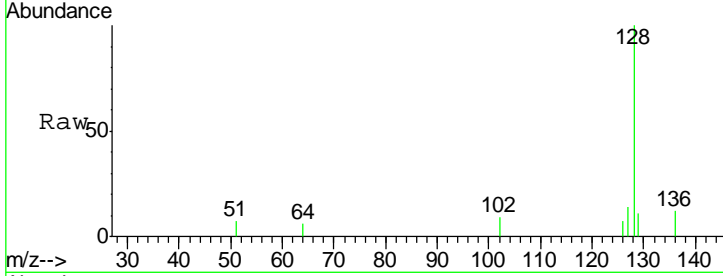
Quant Time: Dec 31 00:53:45 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#28
 Naphthalene
 Concen: 1.255 ng/ul
 RT: 10.66 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03

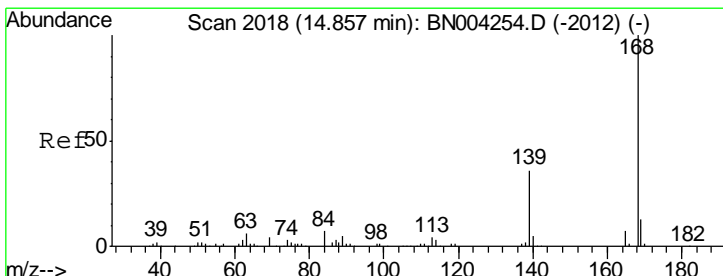
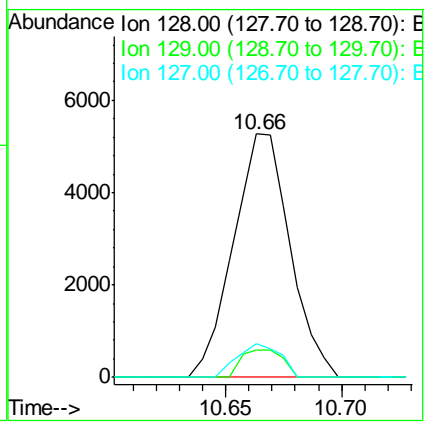
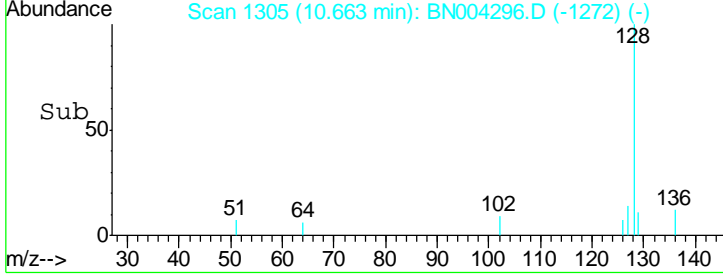
Instrument :
 BNA_N
ClientSampled :
 A41W3



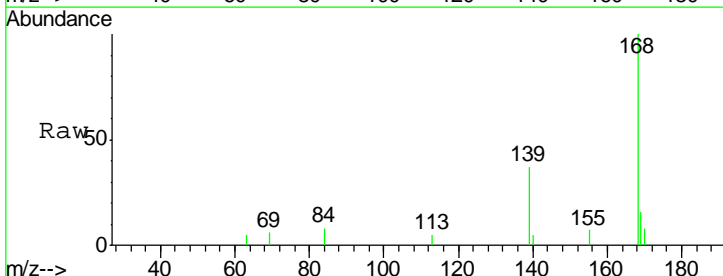
Tgt Ion: 128 Resp: 9021

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100 | | |
| 129 | 11.4 | 8.6 | 12.8 |
| 127 | 14.0 | 10.6 | 16.0 |

Manual Integrations
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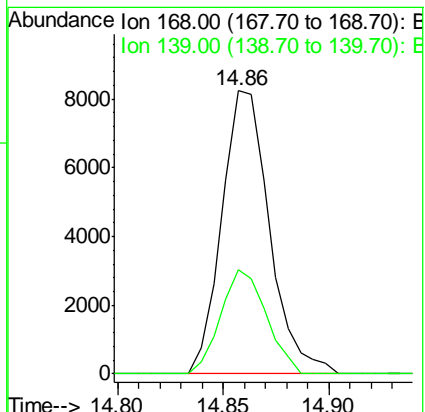
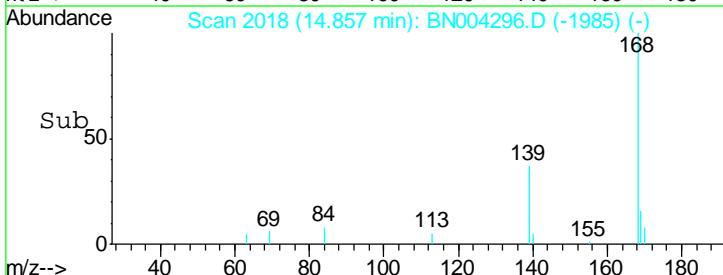


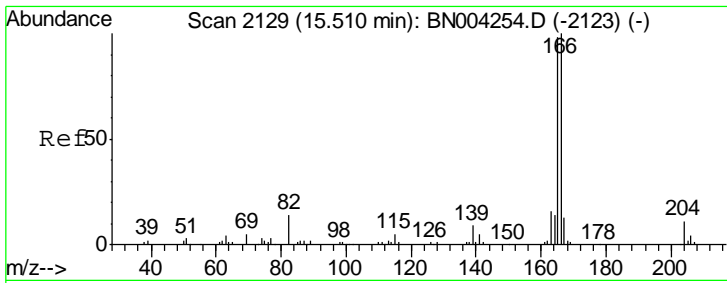
#53
 Dibenzofuran
 Concen: 1.385 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03



Tgt Ion: 168 Resp: 12903

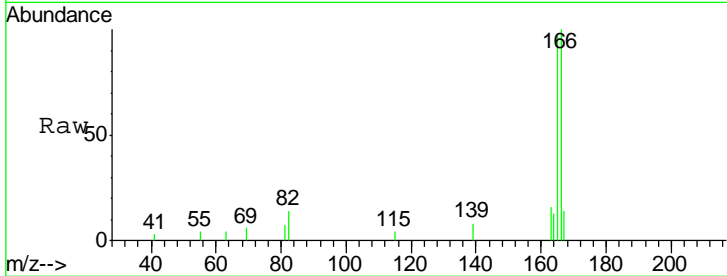
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100 | | |
| 139 | 37.0 | 28.8 | 43.2 |





#58
 Fluorene
 Concen: 1.861 ng/ul
 RT: 15.51 min Scan# 2129
 Delta R.T. -0.00 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03

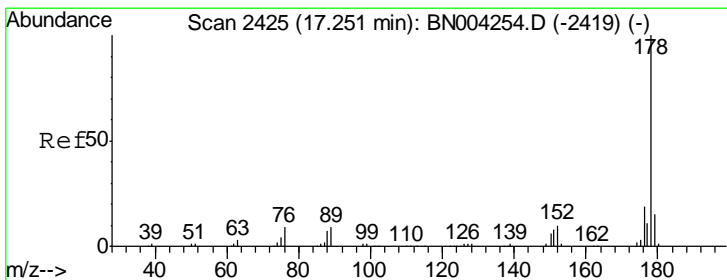
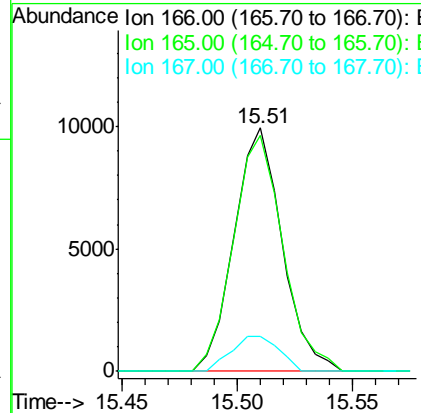
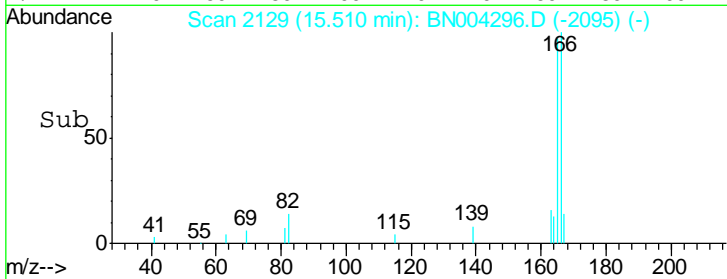
Instrument :
 BNA_N
ClientSampled :
 A41W3



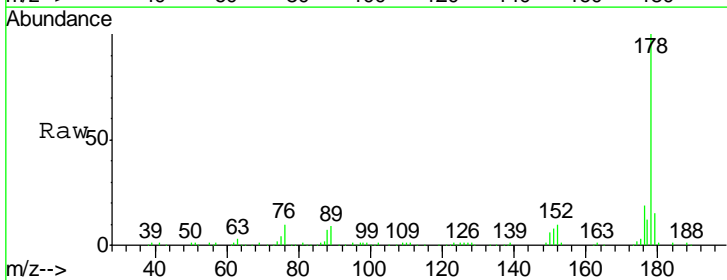
Tgt Ion: 166 Resp: 14438

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100 | | |
| 165 | 97.1 | 78.6 | 117.8 |
| 167 | 14.2 | 10.3 | 15.5 |

Manual Integrations
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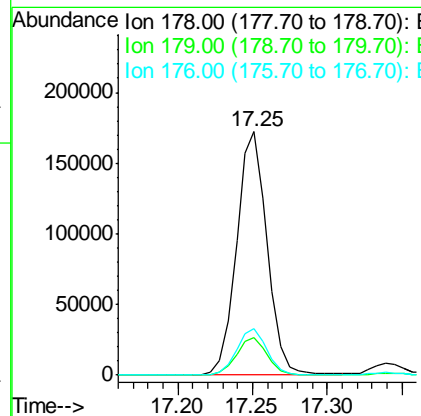
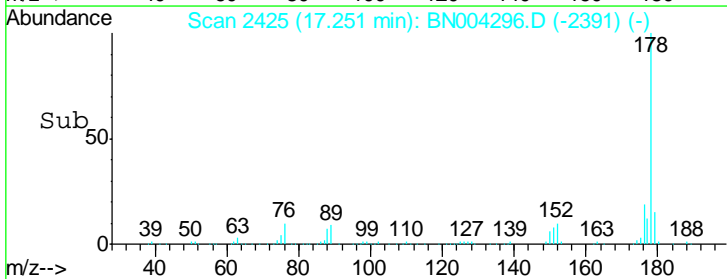


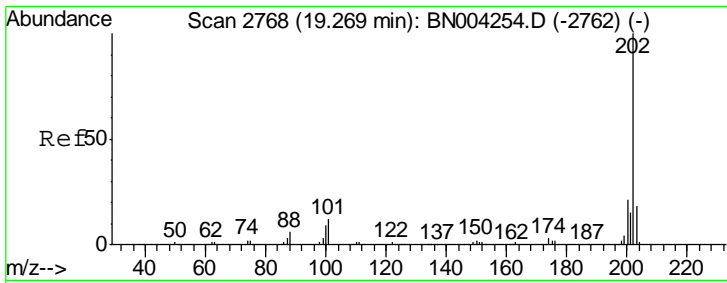
#69
 Phenanthrene
 Concen: 20.305 ng/ul
 RT: 17.25 min Scan# 2425
 Delta R.T. -0.00 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03



Tgt Ion: 178 Resp: 245302

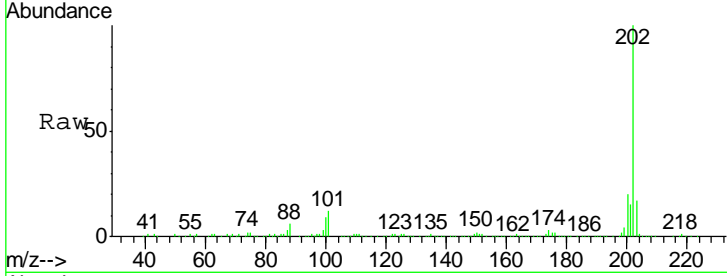
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.4 | 12.1 | 18.1 |
| 176 | 19.3 | 15.0 | 22.6 |





#76
 Fluoranthene
 Concen: 22.389 ng/ul
 RT: 19.27 min Scan# 2768
 Delta R.T. -0.00 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03

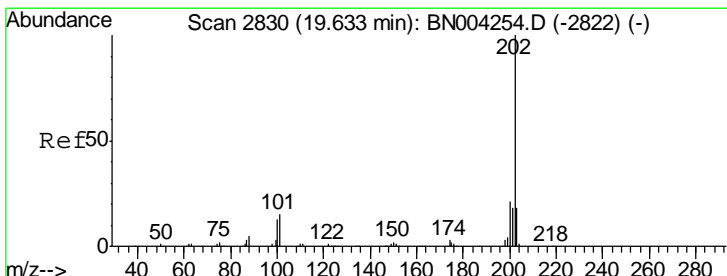
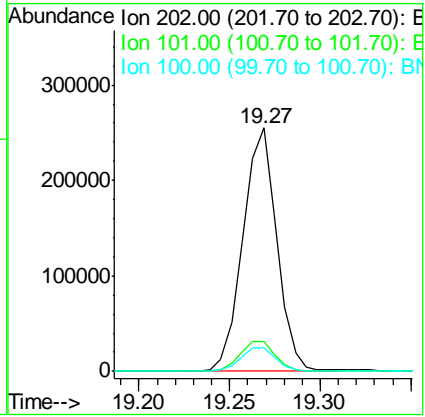
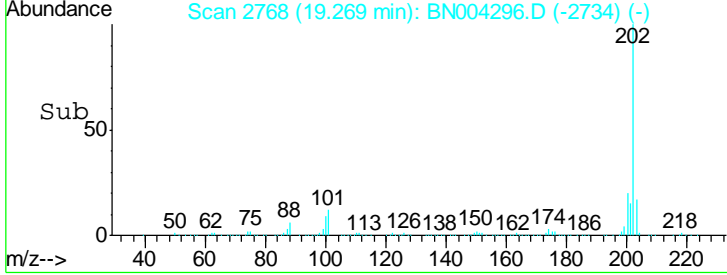
Instrument :
 BNA_N
 Client Sampled :
 A41W3



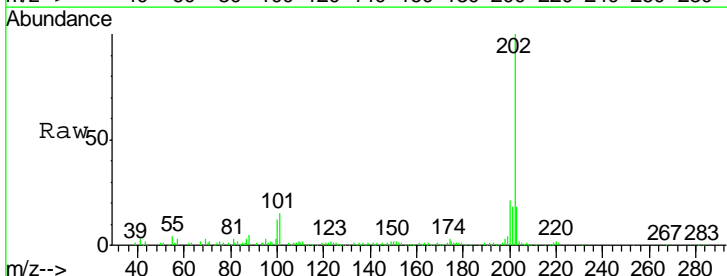
Tgt Ion: 202 Resp: 331534

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100 | | |
| 101 | 12.3 | 10.2 | 15.2 |
| 100 | 9.4 | 7.8 | 11.8 |

Manual Integrations
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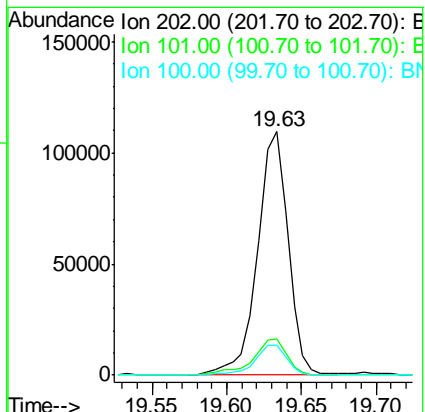
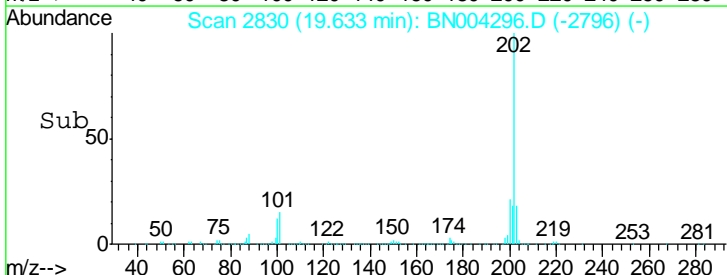


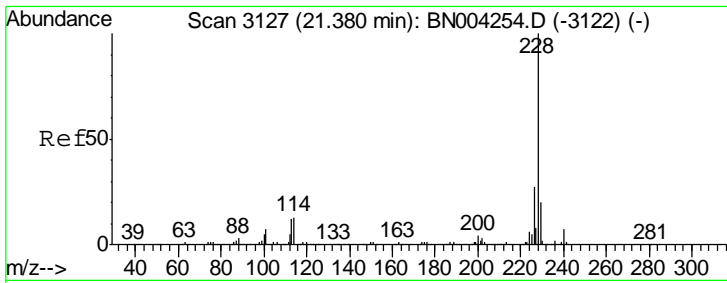
#79
 Pyrene
 Concen: 12.230 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. -0.00 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03



Tgt Ion: 202 Resp: 155551

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100 | | |
| 101 | 14.9 | 12.2 | 18.2 |
| 100 | 12.4 | 9.9 | 14.9 |





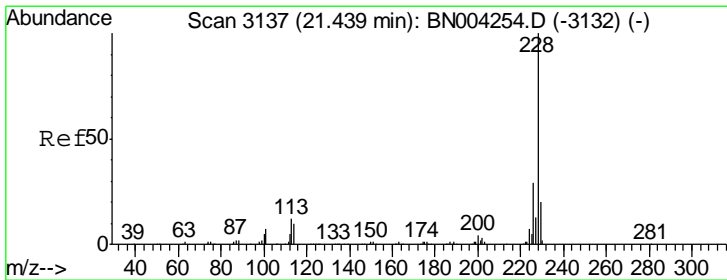
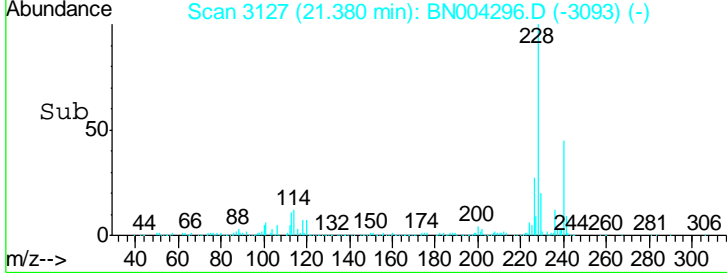
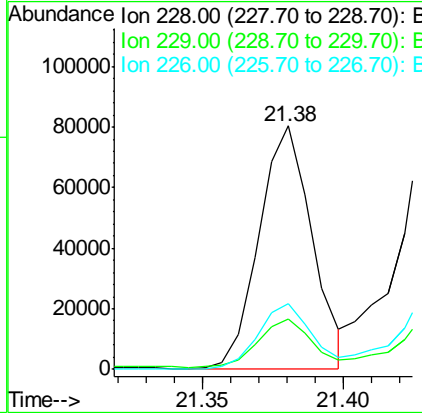
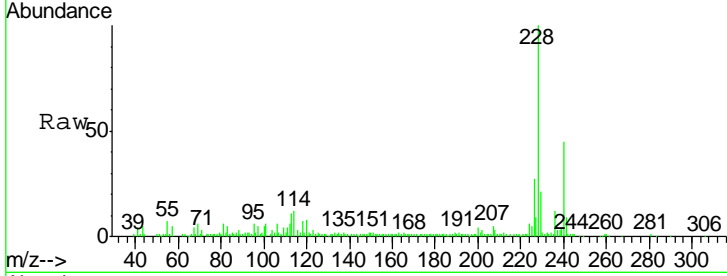
#82
 Benzo(a)anthracene
 Concen: 7.327 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. -0.00 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03

Instrument :
 BNA_N
 ClientSampled :
 A41W3

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 104020 | | |
| 229 | 20.5 | 15.9 | 23.9 |
| 226 | 27.1 | 21.4 | 32.2 |

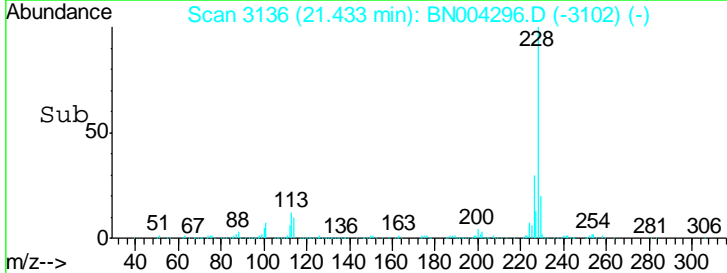
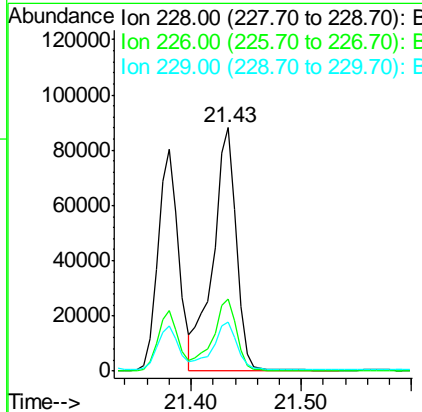
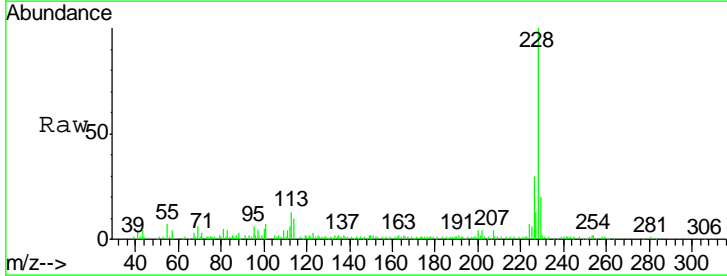
Manual Integrations
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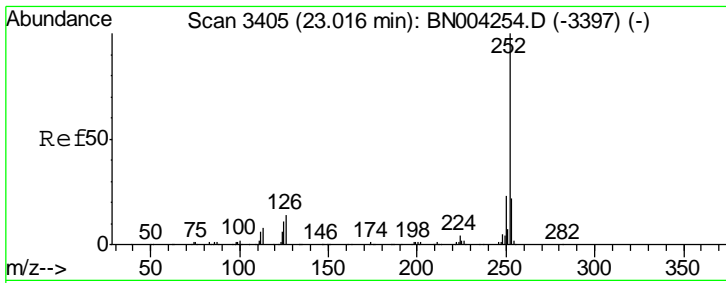
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#84
 Chrysene
 Concen: 9.726 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. -0.00 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 129325 | | |
| 226 | 29.8 | 23.8 | 35.8 |
| 229 | 20.1 | 15.8 | 23.6 |



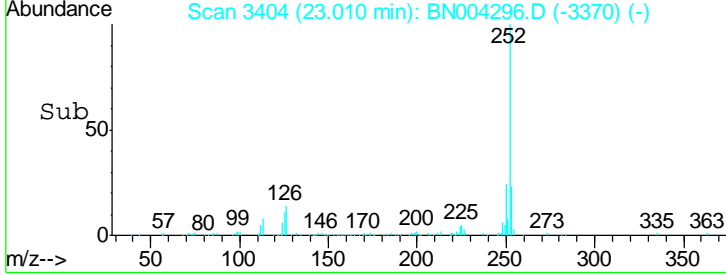
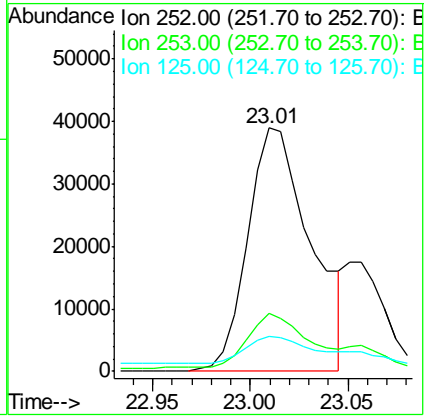
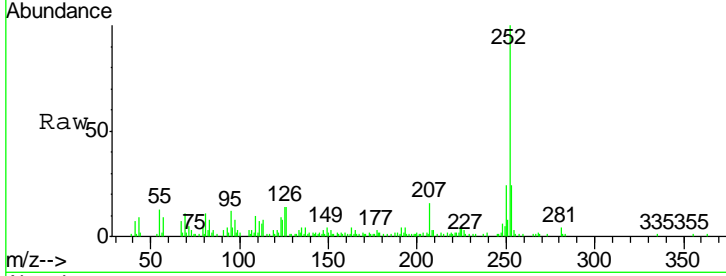


#87
 Benzo(b)fluoranthene
 Concen: 6.861 ng/ul
 RT: 23.01 min Scan# 3404
 Delta R.T. -0.00 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03

Instrument :
 BNA_N
ClientSampled :
 A41W3

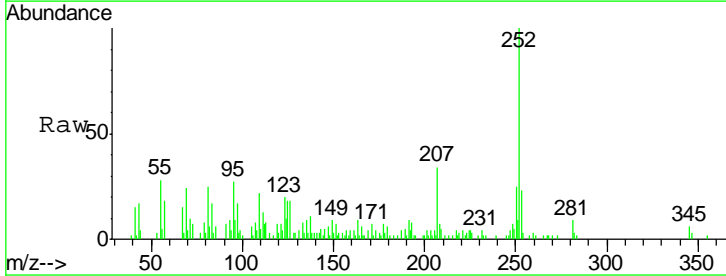
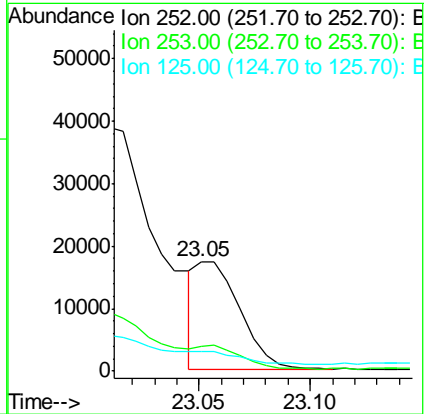
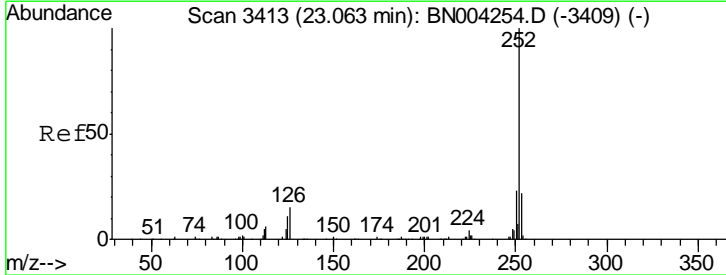
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 23.8 | 17.3 | 25.9 |
| 125 | 14.4 | 8.2 | 12.4# |

Manual Integrations
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#88
 Benzo(k)fluoranthene
 Concen: 2.029 ng/ul m
 RT: 23.05 min Scan# 3411
 Delta R.T. -0.01 min
 Lab File: BN004296.D
 Acq: 29 Dec 2018 12:03

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 23.0 | 17.1 | 25.7 |
| 125 | 18.4 | 7.9 | 11.9# |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W3

Manual Integrations
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Quant Time: Dec 31 00:53:45 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 27366 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 133924 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 91376 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.21 | 188 | 209084 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 227663 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 212422 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|--------------------------|-------|------|----------|--------|--------|--------|
| 28) Naphthalene | 10.66 | 128 | 9021 | 1.255 | ng/ul | 98 |
| 53) Dibenzofuran | 14.86 | 168 | 12903 | 1.385 | ng/ul | 98 |
| 58) Fluorene | 15.51 | 166 | 14438 | 1.861 | ng/ul | 99 |
| 69) Phenanthrene | 17.25 | 178 | 245302 | 20.305 | ng/ul | 99 |
| 76) Fluoranthene | 19.27 | 202 | 331534 | 22.389 | ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 155551 | 12.230 | ng/ul | 100 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 104020 | 7.327 | ng/ul | 99 |
| 84) Chrysene | 21.43 | 228 | 129325 | 9.726 | ng/ul | 100 |
| 87) Benzo(b)fluoranthene | 23.01 | 252 | 87301 | 6.861 | ng/ul# | 93 |
| 88) Benzo(k)fluoranthene | 23.05 | 252 | 24170m | 2.029 | ng/ul | |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W3

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 41 | rVB | 67609 | 75371 | 7.71% | 1.181% |
| 2 | 7.816 | 816 | 821 | 829 | rBB | 95987 | 144151 | 14.75% | 2.259% |
| 3 | 10.616 | 1290 | 1297 | 1302 | rBV | 148092 | 248367 | 25.42% | 3.892% |
| 4 | 10.663 | 1302 | 1305 | 1311 | rVB | 8830 | 13270 | 1.36% | 0.208% |
| 5 | 14.457 | 1943 | 1950 | 1957 | rBV2 | 261192 | 406483 | 41.60% | 6.371% |
| 6 | 14.522 | 1957 | 1961 | 1966 | rVB | 14220 | 19266 | 1.97% | 0.302% |
| 7 | 14.857 | 2013 | 2018 | 2026 | rBB | 16078 | 23317 | 2.39% | 0.365% |
| 8 | 15.510 | 2122 | 2129 | 2138 | rVB | 28890 | 48320 | 4.94% | 0.757% |
| 9 | 15.798 | 2174 | 2178 | 2182 | rBV2 | 8105 | 11351 | 1.16% | 0.178% |
| 10 | 15.945 | 2199 | 2203 | 2211 | rBV | 10902 | 21906 | 2.24% | 0.343% |
| 11 | 16.151 | 2232 | 2238 | 2244 | rBV3 | 5607 | 11077 | 1.13% | 0.174% |
| 12 | 16.510 | 2295 | 2299 | 2304 | rVB5 | 8549 | 11854 | 1.21% | 0.186% |
| 13 | 16.733 | 2330 | 2337 | 2340 | rBV6 | 10476 | 22555 | 2.31% | 0.353% |
| 14 | 16.928 | 2366 | 2370 | 2372 | rBV2 | 9270 | 11931 | 1.22% | 0.187% |
| 15 | 16.957 | 2373 | 2375 | 2381 | rVV4 | 10200 | 21248 | 2.17% | 0.333% |
| 16 | 17.028 | 2382 | 2387 | 2391 | rVV | 18161 | 30059 | 3.08% | 0.471% |
| 17 | 17.069 | 2391 | 2394 | 2398 | rVV3 | 8749 | 13928 | 1.43% | 0.218% |
| 18 | 17.210 | 2411 | 2418 | 2421 | rBV2 | 346934 | 538338 | 55.09% | 8.437% |
| 19 | 17.251 | 2421 | 2425 | 2431 | rVB | 405548 | 566578 | 57.98% | 8.880% |
| 20 | 17.339 | 2436 | 2440 | 2443 | rBV | 15609 | 24972 | 2.56% | 0.391% |
| 21 | 17.369 | 2443 | 2445 | 2449 | rVB4 | 8618 | 11848 | 1.21% | 0.186% |
| 22 | 17.798 | 2513 | 2518 | 2524 | rVB2 | 29697 | 57493 | 5.88% | 0.901% |
| 23 | 17.922 | 2535 | 2539 | 2545 | rBV6 | 11012 | 25128 | 2.57% | 0.394% |
| 24 | 18.080 | 2562 | 2566 | 2569 | rBV | 45520 | 57634 | 5.90% | 0.903% |
| 25 | 18.128 | 2570 | 2574 | 2582 | rVB | 58878 | 84330 | 8.63% | 1.322% |
| 26 | 18.275 | 2593 | 2599 | 2603 | rBV2 | 64015 | 122253 | 12.51% | 1.916% |
| 27 | 18.316 | 2603 | 2606 | 2610 | rVB2 | 39983 | 57249 | 5.86% | 0.897% |
| 28 | 18.551 | 2643 | 2646 | 2648 | rBV3 | 13386 | 18667 | 1.91% | 0.293% |
| 29 | 18.580 | 2648 | 2651 | 2659 | rVB | 38821 | 58933 | 6.03% | 0.924% |
| 30 | 18.998 | 2718 | 2722 | 2726 | rBV | 32058 | 47329 | 4.84% | 0.742% |
| 31 | 19.269 | 2762 | 2768 | 2773 | rBV | 585002 | 785670 | 80.40% | 12.313% |
| 32 | 19.598 | 2819 | 2824 | 2826 | rBV2 | 77484 | 118197 | 12.10% | 1.852% |
| 33 | 19.633 | 2826 | 2830 | 2837 | rVV | 261473 | 364011 | 37.25% | 5.705% |
| 34 | 19.698 | 2838 | 2841 | 2845 | rVB | 32054 | 39424 | 4.03% | 0.618% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W3

Integration Parameters: LSCINT.P
 Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 35 | 19.810 | 2857 | 2860 | 2864 | rBV | 26913 | 34623 | 3.54% | 0.543% |
| 36 | 20.104 | 2906 | 2910 | 2912 | rBV2 | 52985 | 76214 | 7.80% | 1.194% |
| 37 | 21.039 | 3066 | 3069 | 3072 | rBV | 37934 | 52151 | 5.34% | 0.817% |
| 38 | 21.116 | 3079 | 3082 | 3086 | rBV | 46070 | 51879 | 5.31% | 0.813% |
| 39 | 21.392 | 3123 | 3129 | 3133 | rBV2 | 537431 | 977205 | 100.00% | 15.315% |
| 40 | 21.433 | 3133 | 3136 | 3141 | rVB | 236129 | 297922 | 30.49% | 4.669% |
| 41 | 23.010 | 3400 | 3404 | 3410 | rBV | 97607 | 200426 | 20.51% | 3.141% |
| 42 | 23.715 | 3518 | 3524 | 3532 | rVB | 301776 | 577773 | 59.13% | 9.055% |

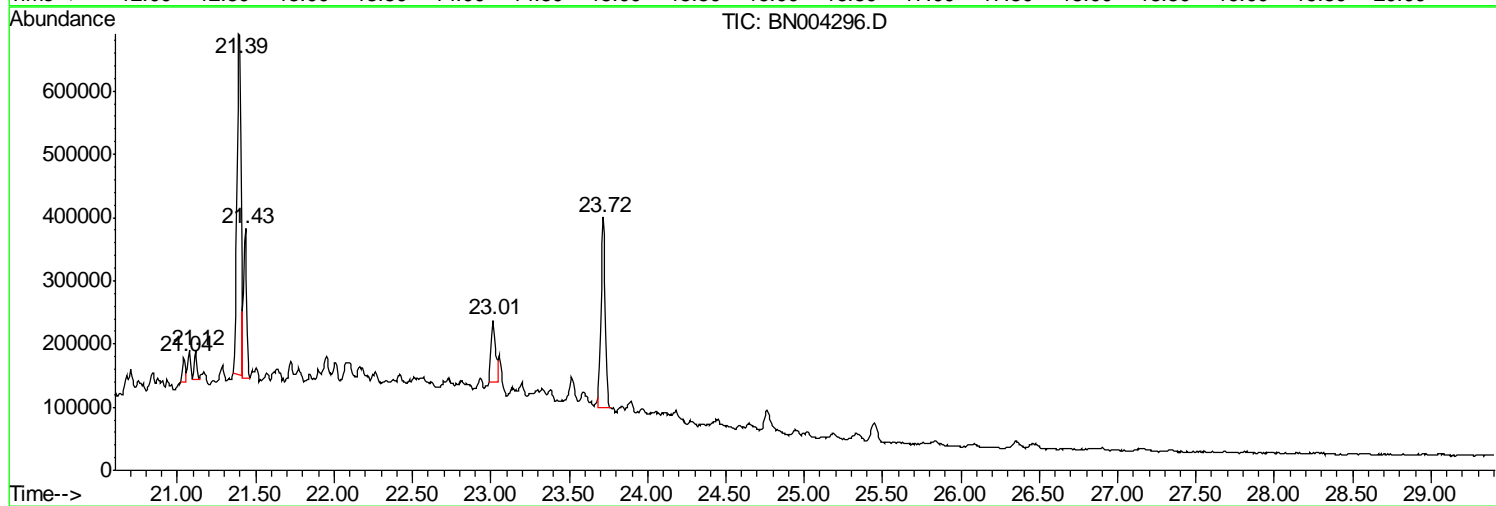
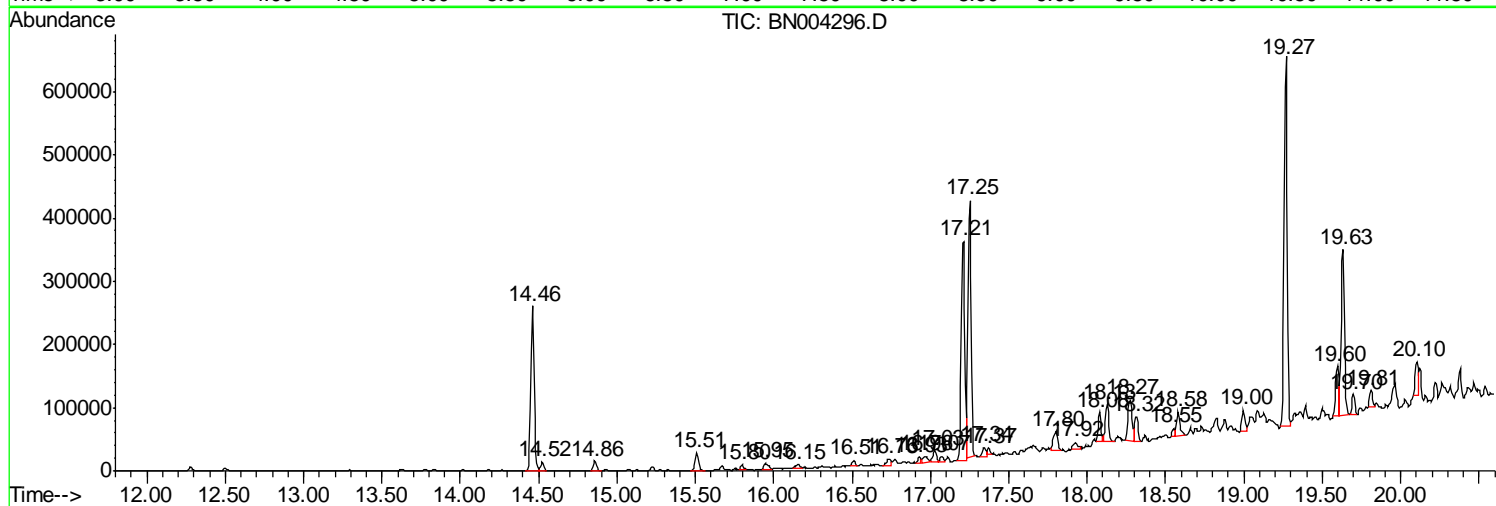
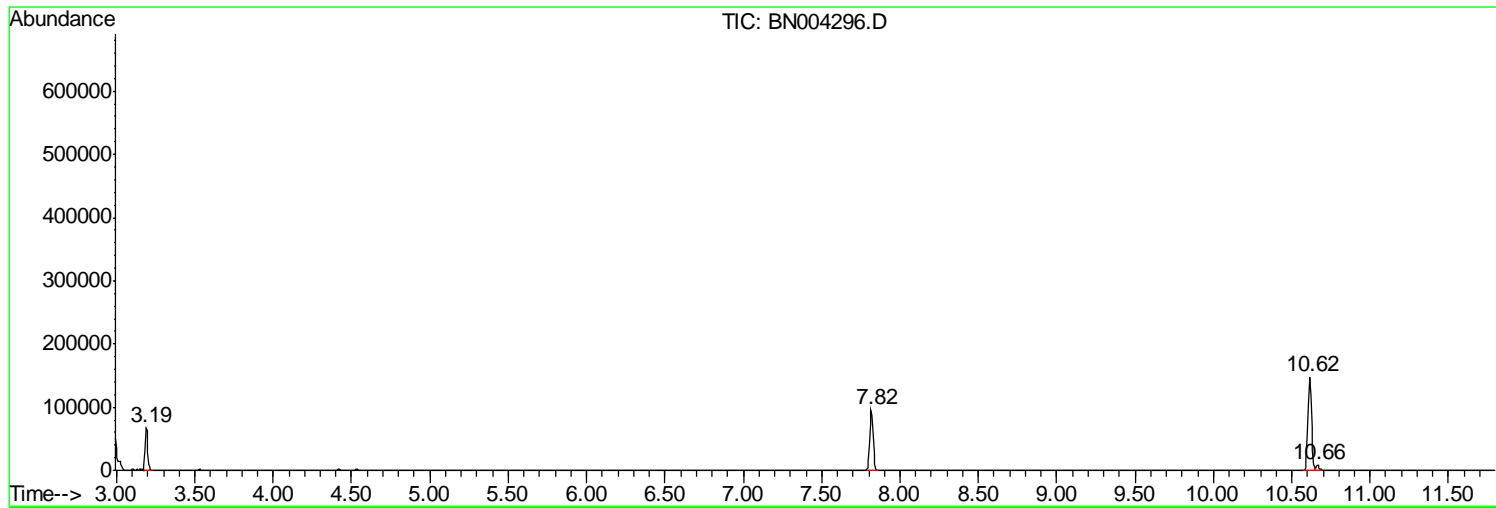
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Data File : BN004296.D
Acq On : 29 Dec 2018 12:03
Operator : JU/SJ
Sample : J6428-11
Misc : GCMS Confirmation
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41W3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W3

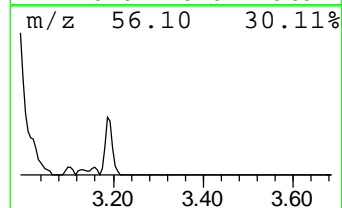
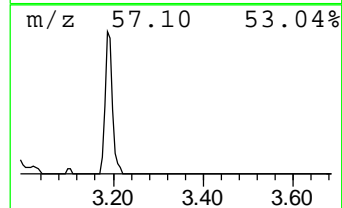
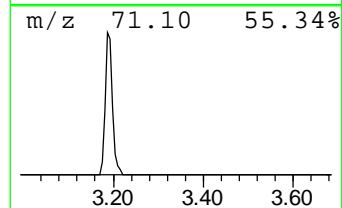
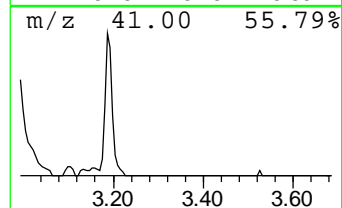
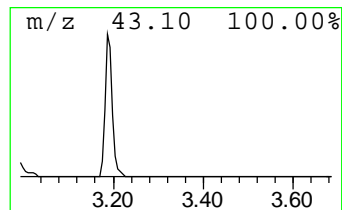
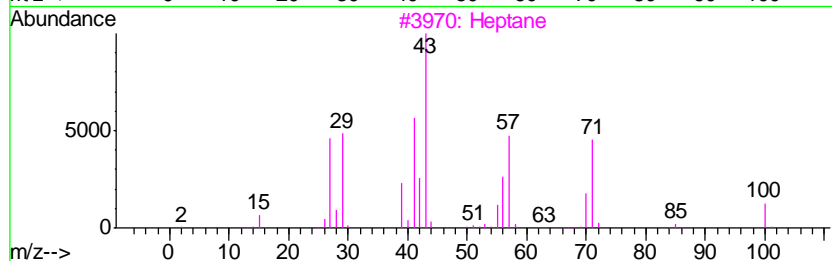
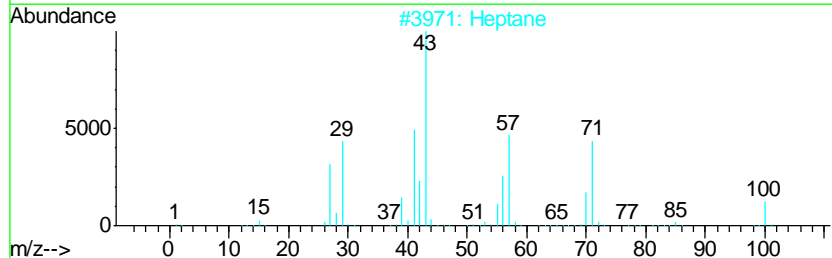
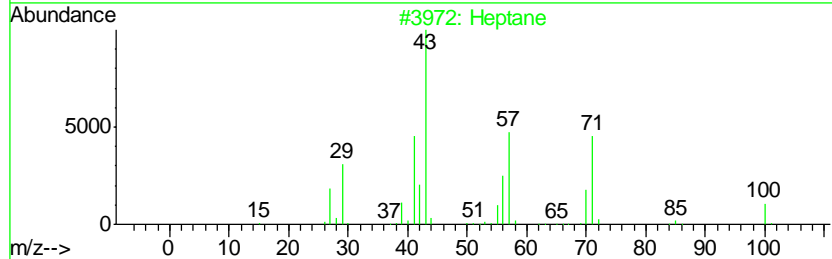
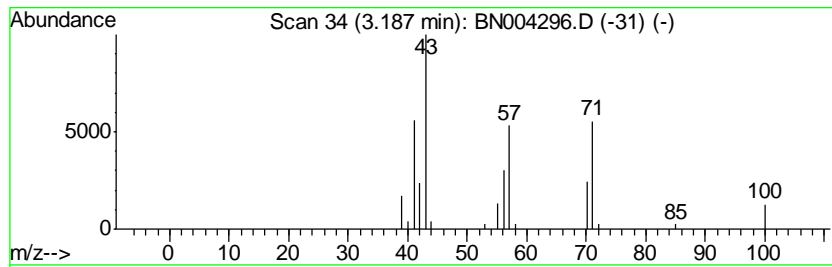
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 10.46 ng/ul | 75371 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W3

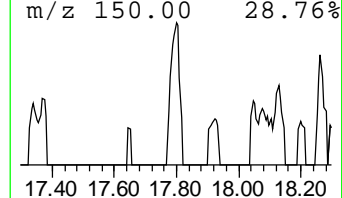
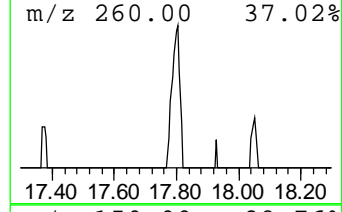
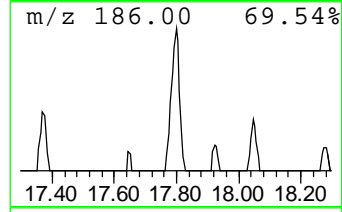
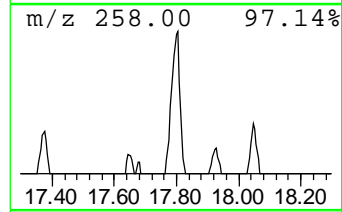
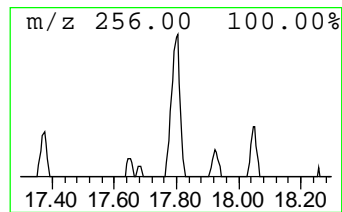
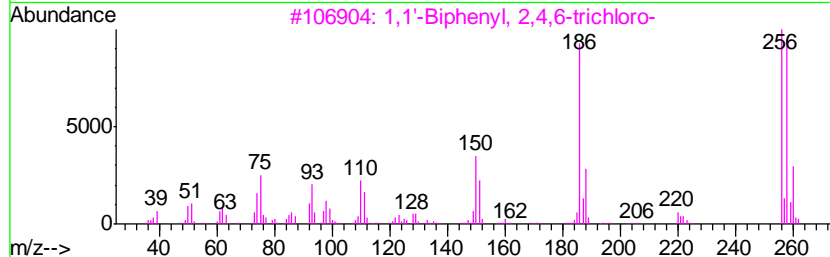
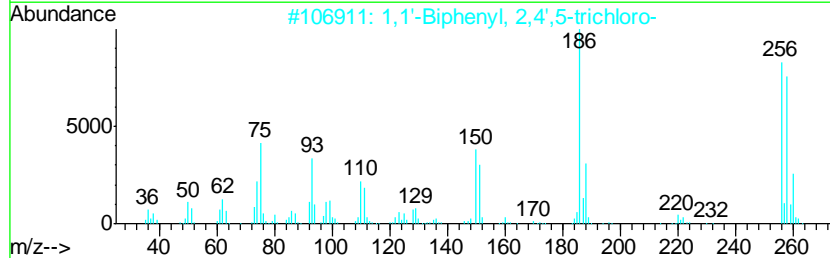
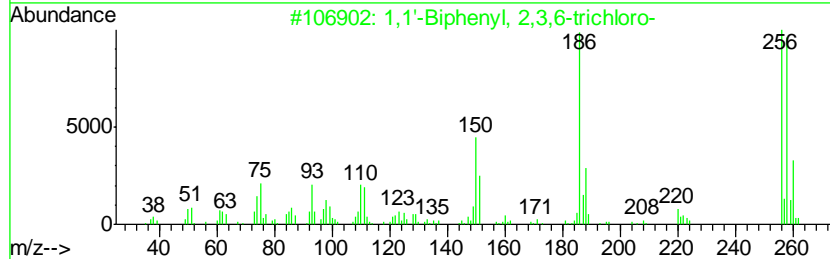
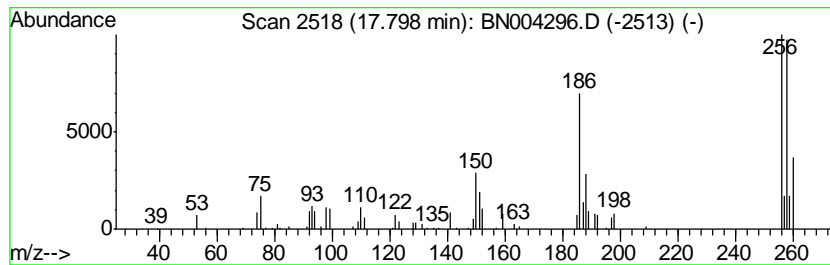
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 1,1'-Biphenyl, 2,3,6-trichl... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 17.80 | 2.14 ng/ul | 57493 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,3,6-trichloro- | 256 | C12H7Cl3 | 055702-45-9 | 94 |
| 2 | | 1,1'-Biphenyl, 2,4',5-trichloro- | 256 | C12H7Cl3 | 016606-02-3 | 94 |
| 3 | | 1,1'-Biphenyl, 2,4,6-trichloro- | 256 | C12H7Cl3 | 035693-92-6 | 94 |
| 4 | | 1,1'-Biphenyl, 2,4,4'-trichloro- | 256 | C12H7Cl3 | 007012-37-5 | 94 |
| 5 | | 1,1'-Biphenyl, 3,4,4'-Trichloro- | 256 | C12H7Cl3 | 038444-90-5 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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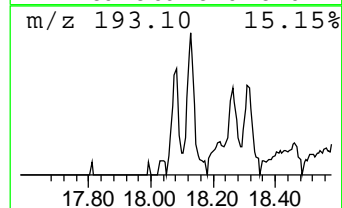
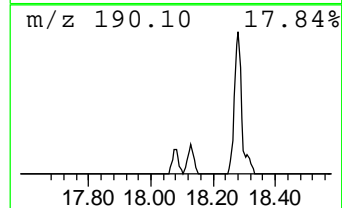
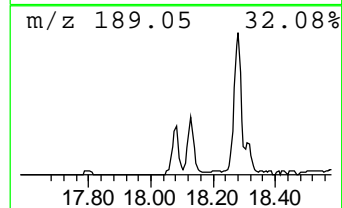
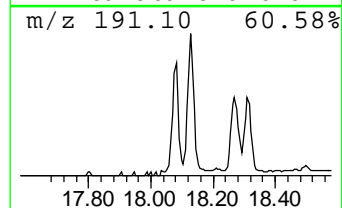
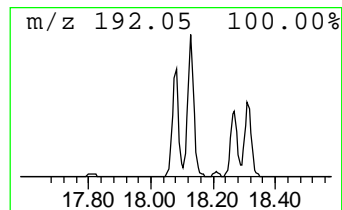
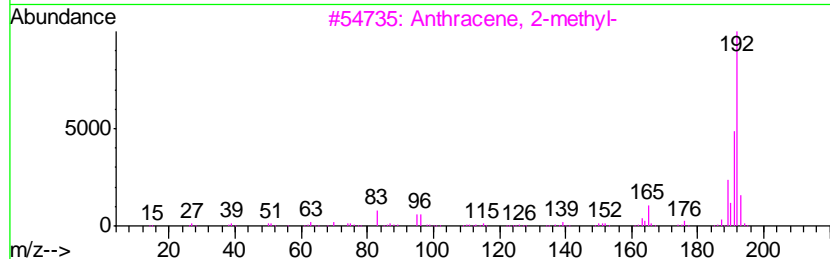
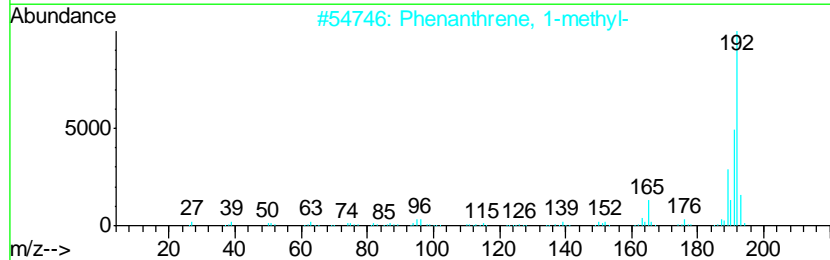
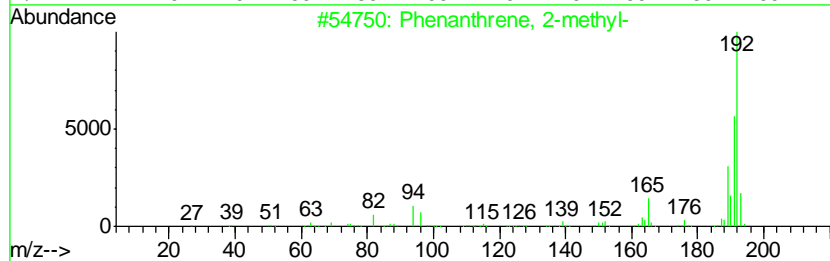
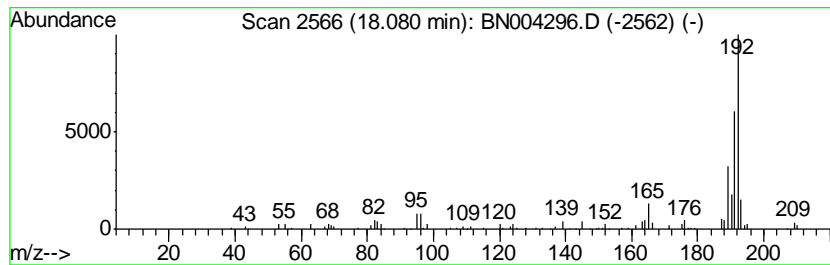
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.08 | 2.14 ng/ul | 57634 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 3 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 90 |
| 4 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 90 |
| 5 | | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W3

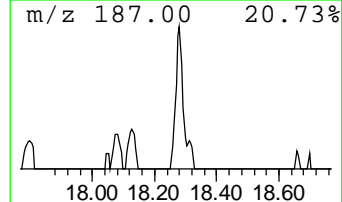
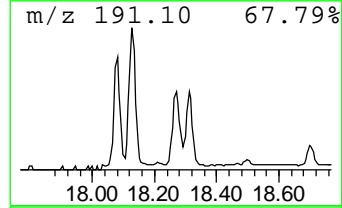
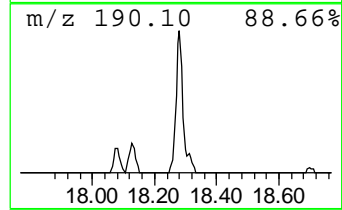
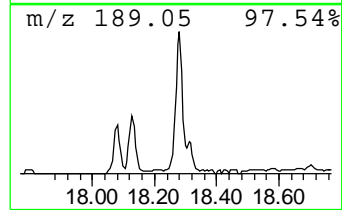
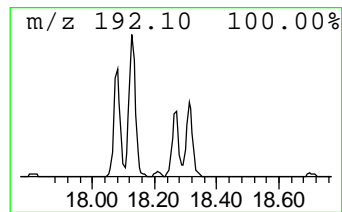
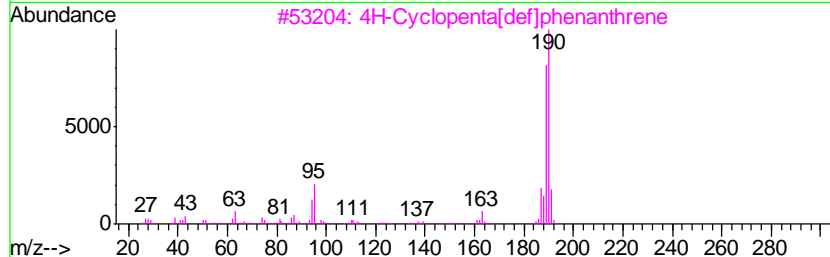
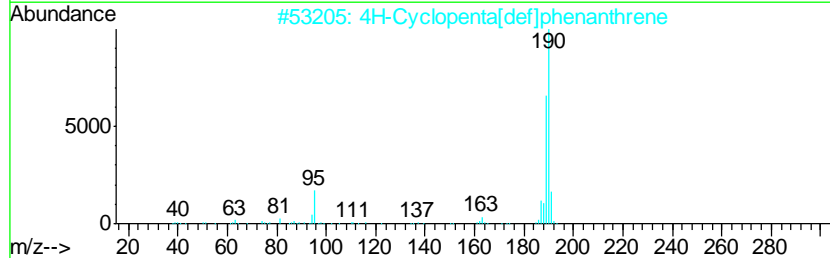
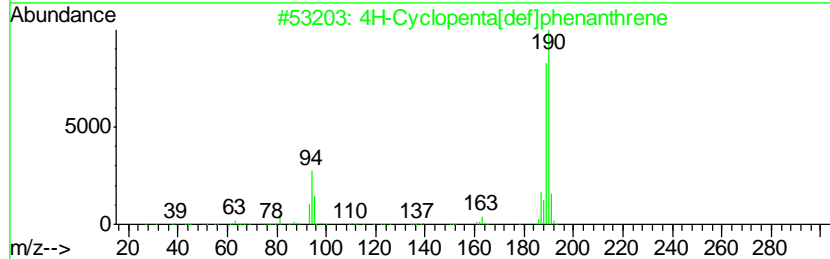
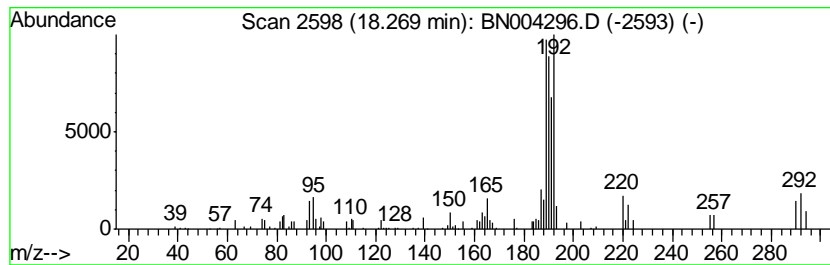
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.27 | 4.54 ng/ul | 122253 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 52 |
| 3 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 52 |
| 4 | | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 50 |
| 5 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
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 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W3

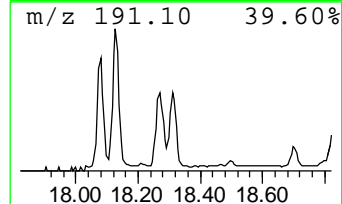
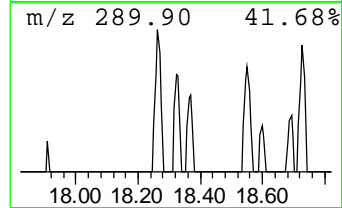
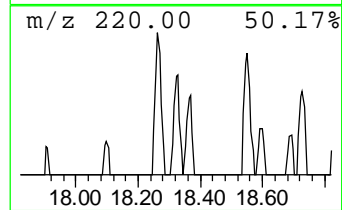
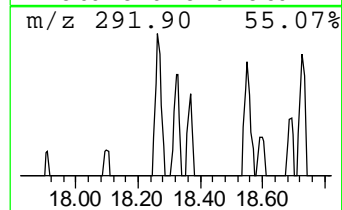
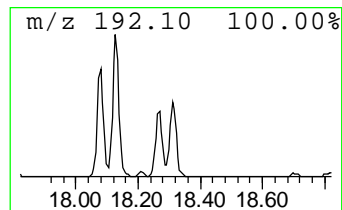
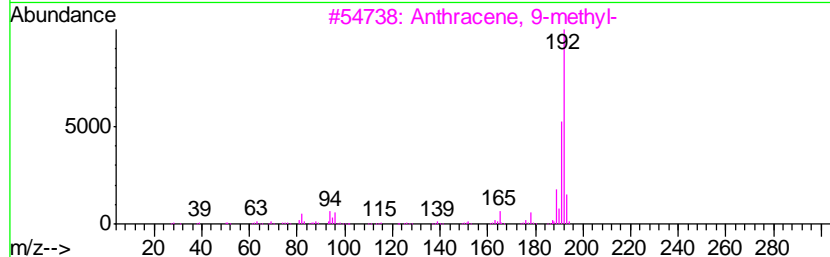
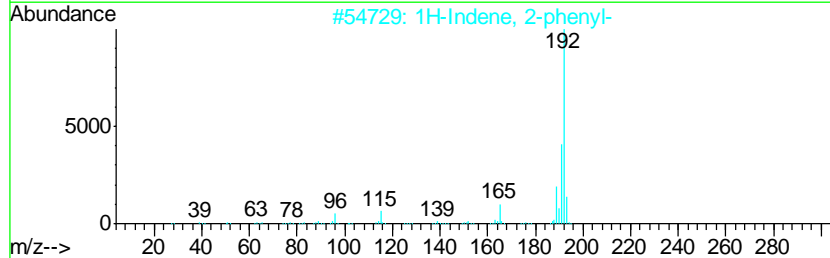
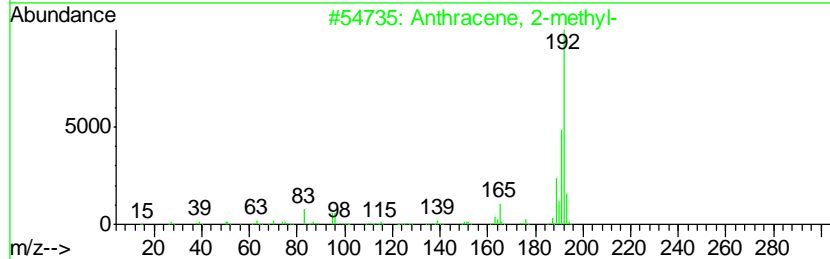
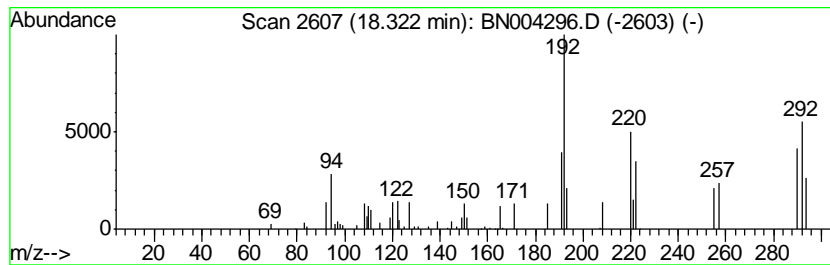
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 Anthracene, 2-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.32 | 2.13 ng/ul | 57249 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 62 |
| 2 | | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 62 |
| 3 | | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 62 |
| 4 | | Phenanthrene, 9-methyl- | 192 | C15H12 | 000883-20-5 | 62 |
| 5 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004296.D
 Acq On : 29 Dec 2018 12:03
 Operator : JU/SJ
 Sample : J6428-11
 Misc : GCMS Confirmation
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W3

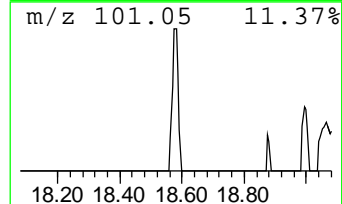
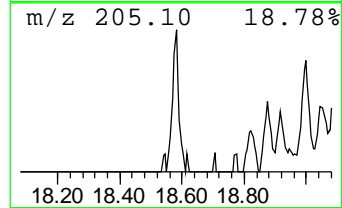
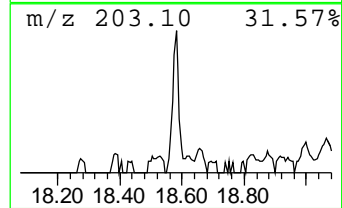
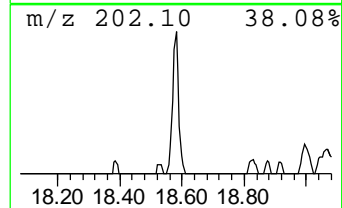
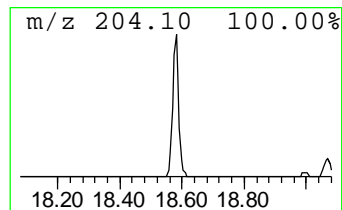
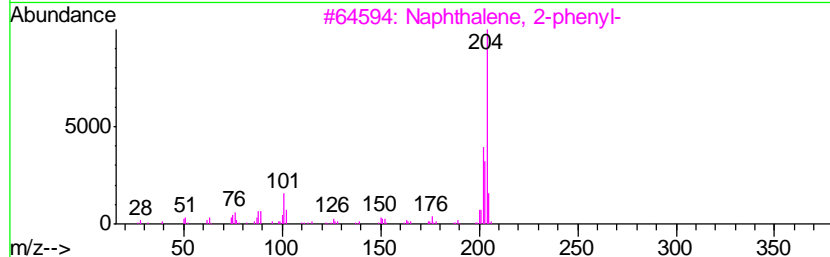
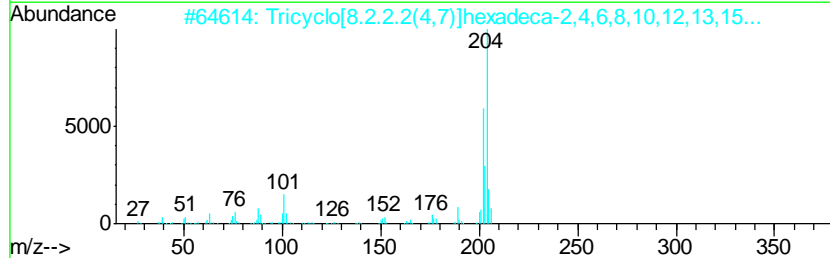
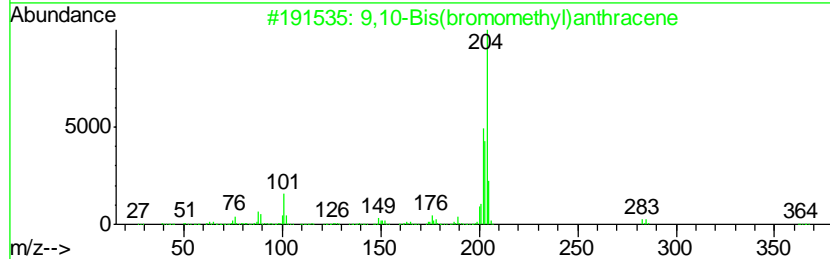
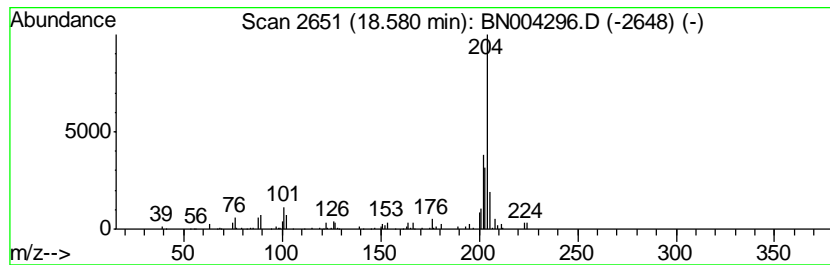
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 7 9,10-Bis(bromomethyl)anthra... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.58 | 2.19 ng/ul | 58933 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1 | 5 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 90 |
| 2 | | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 89 |
| 3 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 70 |
| 4 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 70 |
| 5 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 62 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004296.D
Acq On : 29 Dec 2018 12:03
Operator : JU/SJ
Sample : J6428-11
Misc : GCMS Confirmation
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41W3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 10.5 | ng/ul | 75371 | 1 | 7.82 | 144151 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.80 | 2.1 | ng/ul | 57493 | 4 | 17.21 | 538338 | 20.0 |
| Phenanthrene, 2-m... | 18.08 | 2.1 | ng/ul | 57634 | 4 | 17.21 | 538338 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 4.5 | ng/ul | 122253 | 4 | 17.21 | 538338 | 20.0 |
| Anthracene, 2-met... | 18.32 | 2.1 | ng/ul | 57249 | 4 | 17.21 | 538338 | 20.0 |
| 9,10-Bis(bromomet... | 18.58 | 2.2 | ng/ul | 58933 | 4 | 17.21 | 538338 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W3DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-11DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035111.D
 % Solids : 79.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 210 | U |
| 11104-28-2 | Aroclor-1221 | 210 | U |
| 11141-16-5 | Aroclor-1232 | 210 | U |
| 53469-21-9 | Aroclor-1242 | 210 | U |
| 12672-29-6 | Aroclor-1248 | 5300 | ED |
| 11097-69-1 | Aroclor-1254 | 210 | U |
| 11096-82-5 | Aroclor-1260 | 11000 | ED |
| 37324-23-5 | Aroclor-1262 | 210 | U |
| 11100-14-4 | Aroclor-1268 | 210 | U |

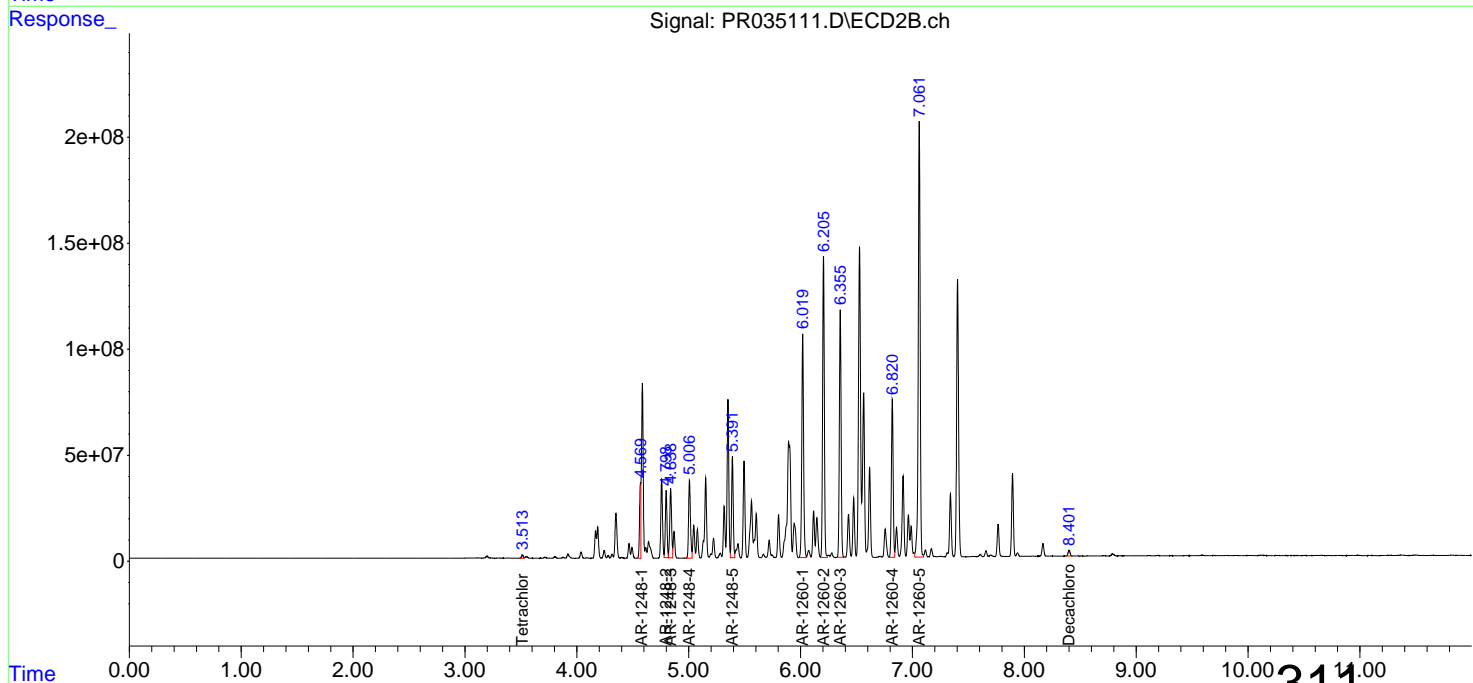
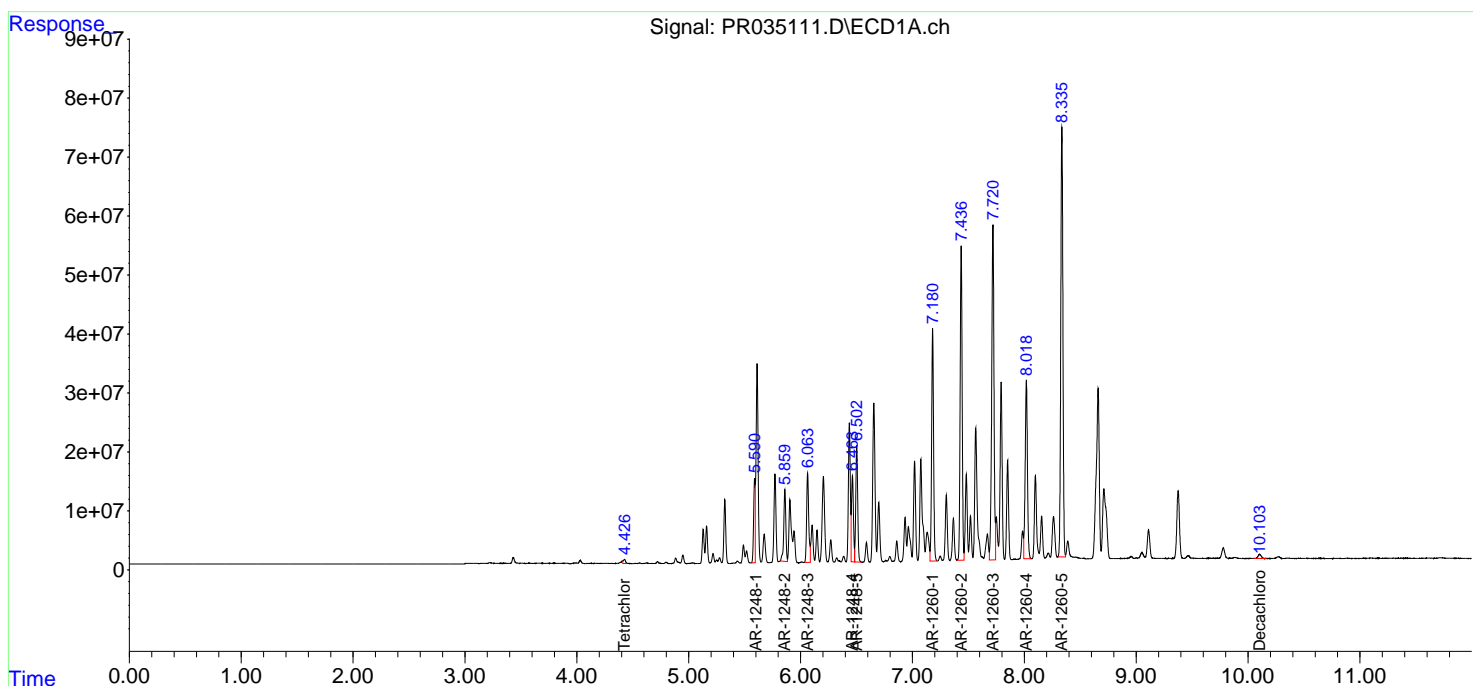
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035111.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:32
 Operator : SM\SJ
 Sample : J6428-11DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:40 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035111.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:32
 Operator : SM\SJ
 Sample : J6428-11DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:40 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 9700098 | 16817830 | 4.987m | 4.824 |
| 2) SA Decachlor... | 10.104 | 8.401 | 13660505 | 33529500 | 6.949 | 7.626 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 135.5E6 | 276.9E6 | 2792.742 | 2840.450m |
| 22) L5 AR-1248-2 | 5.860 | 4.799 | 157.3E6 | 324.7E6 | 2380.803 | 2534.998 |
| 23) L5 AR-1248-3 | 6.063 | 4.839 | 197.3E6 | 372.6E6 | 2641.235 | 2822.954 |
| 24) L5 AR-1248-4 | 6.464 | 5.006 | 176.8E6 | 428.5E6 | 1978.350 | 2604.200m# |
| 25) L5 AR-1248-5 | 6.502 | 5.391 | 238.7E6 | 489.4E6 | 2852.757 | 2924.458 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 474.2E6 | 1184.7E6 | 5043.812 | 5511.158 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 657.1E6 | 1523.3E6 | 5660.057 | 5597.832 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 801.3E6 | 1263.8E6 | 5742.062 | 5091.137 |
| 34) L7 AR-1260-4 | 8.019 | 6.820 | 425.3E6 | 814.7E6 | 4924.820 | 4764.435 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 971.4E6 | 2442.5E6 | 5380.175 | 5050.233 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035111.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:32
 Operator : SM\SJ
 Sample : J6428-11DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

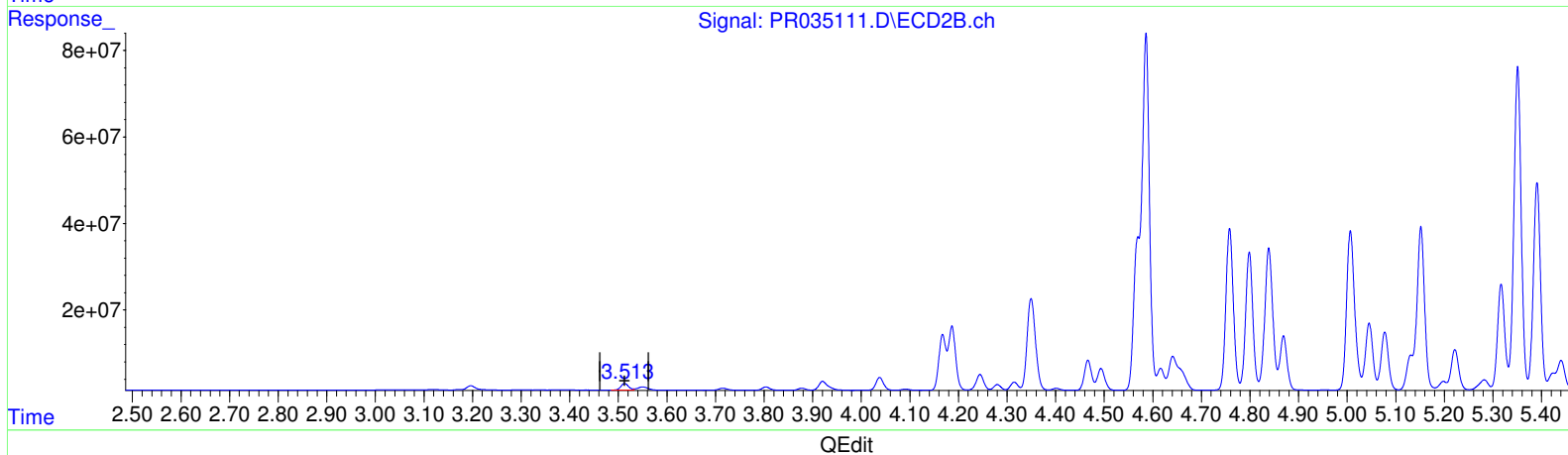
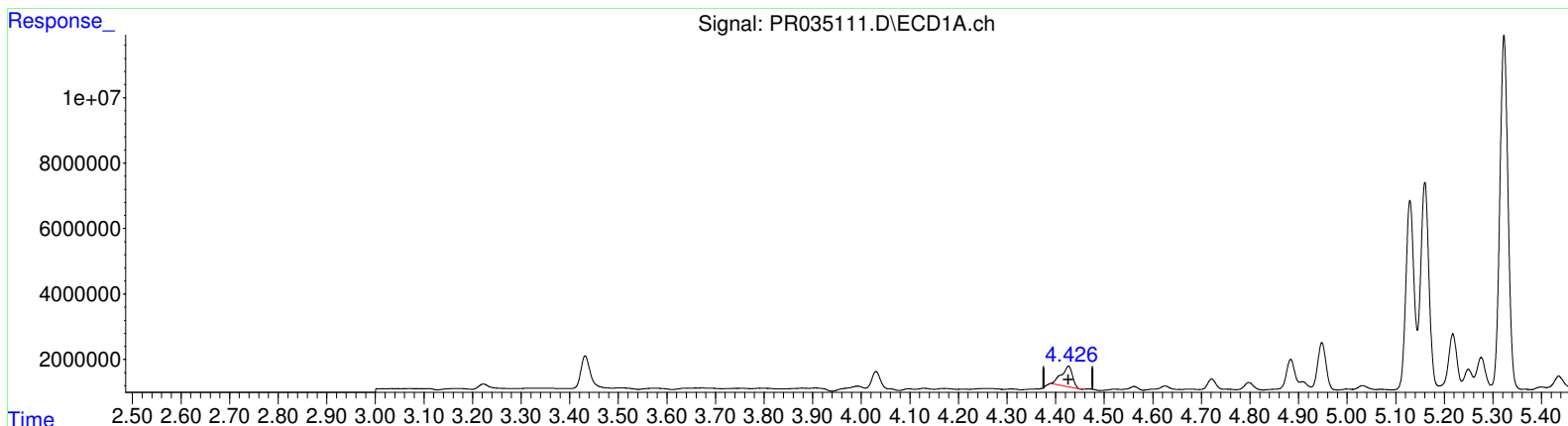
Instrument :
 ECD_R
 ClientSampleID :
 A41W3DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:40 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 5.075 ng/ml
 response 9870779

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 4.824 ng/ml
 response 16817830

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035111.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:32
 Operator : SM\SJ
 Sample : J6428-11DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

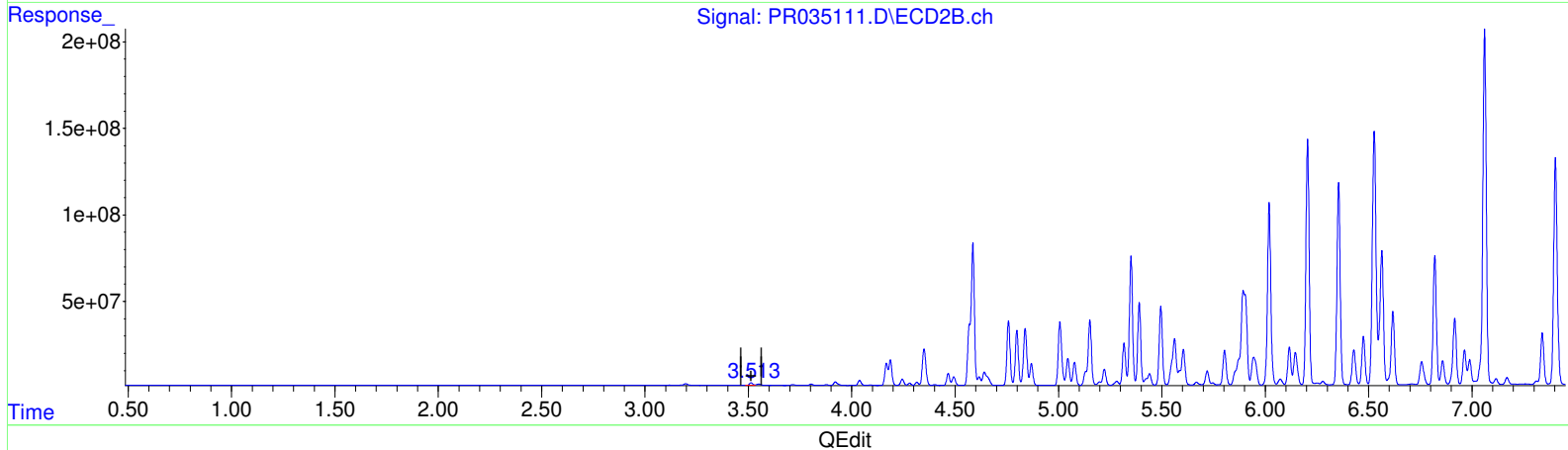
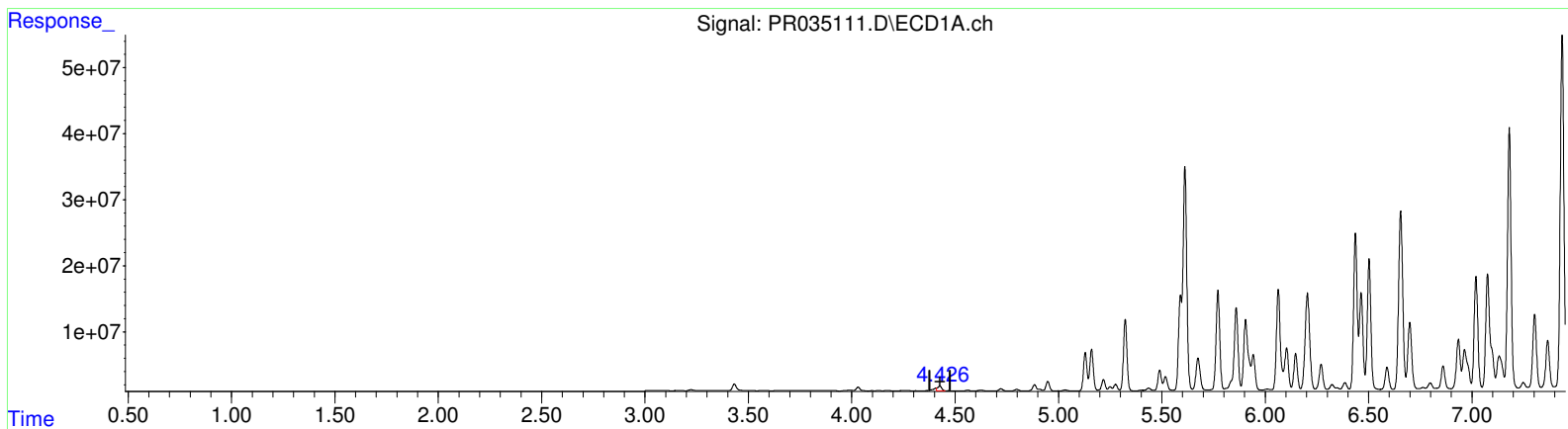
Instrument :
 ECD_R
 ClientSampleID :
 A41W3DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:40 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 4.987 ng/ml m
 response 9700098

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 4.824 ng/ml
 response 16817830

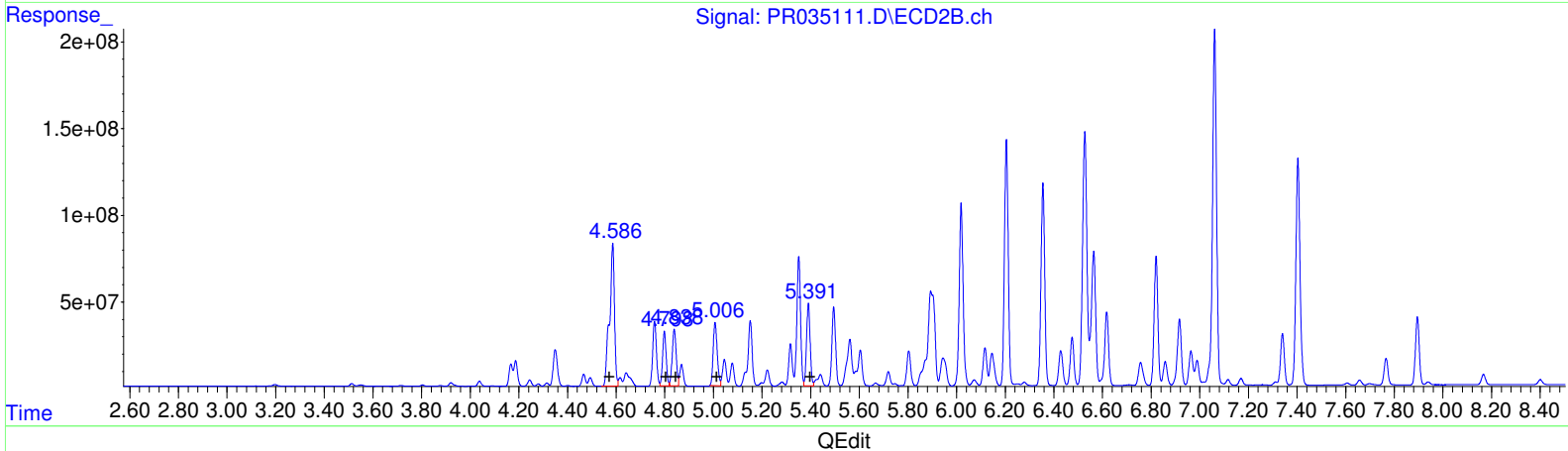
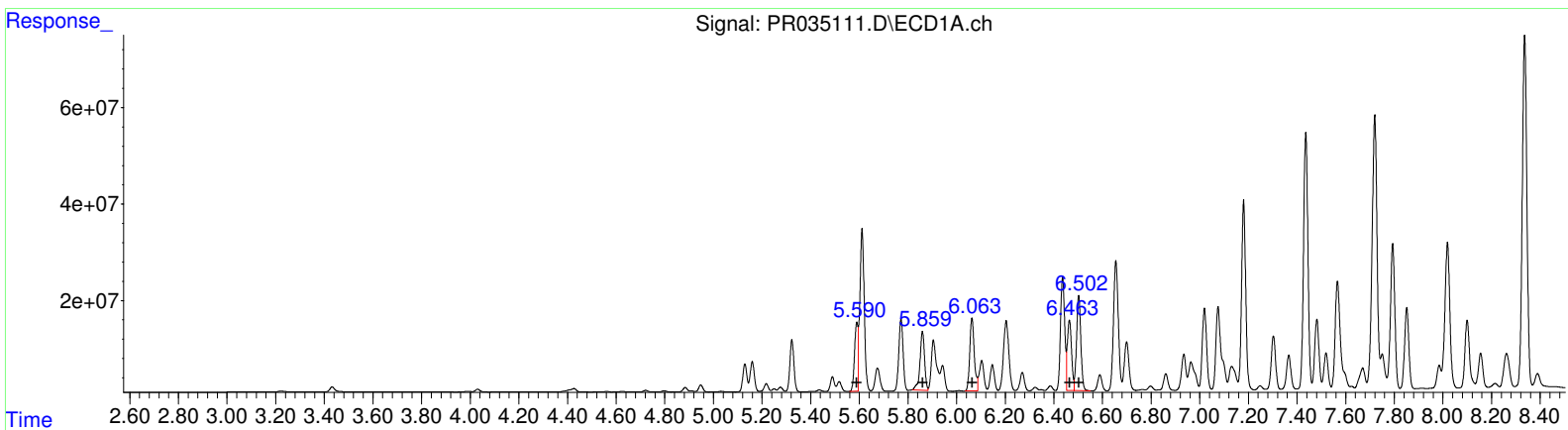
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035111.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:32
 Operator : SM\SJ
 Sample : J6428-11DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:40 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 135511179 | 2792.74 |
| 5.86 | 157308027 | 2380.80 |
| 6.06 | 197339690 | 2641.24 |
| 6.46 | 176757524 | 1978.35 |
| 6.50 | 238685131 | 2852.76 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.59 | 1160648054 | 11903.88 |
| 4.80 | 324739390 | 2535.00 |
| 4.84 | 372565471 | 2822.95 |
| 5.01 | 419444049 | 2549.34 |
| 5.39 | 489424694 | 2924.46 |

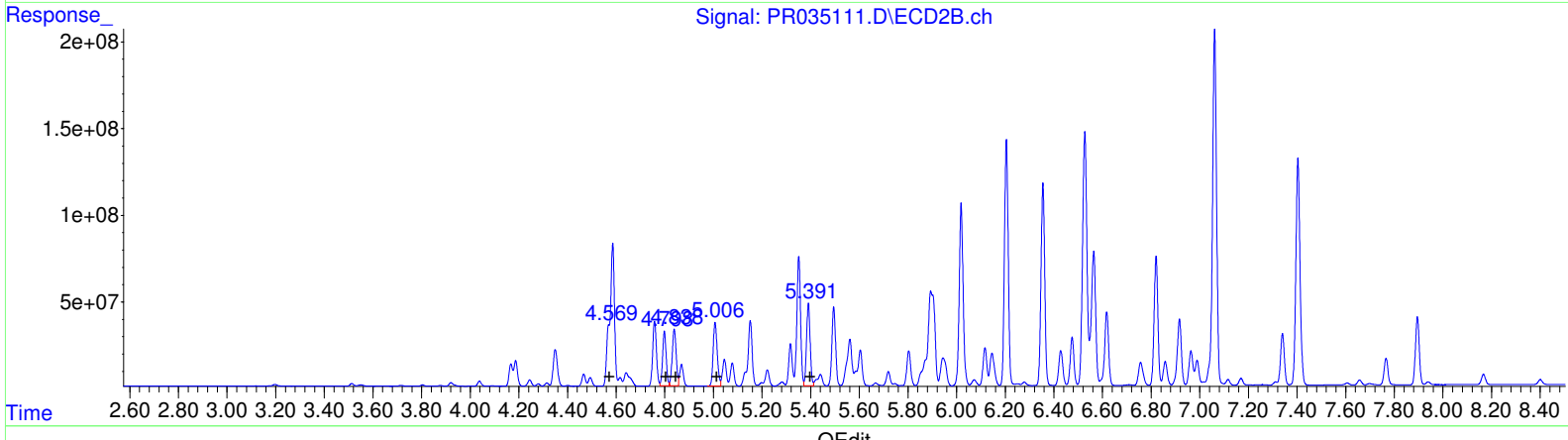
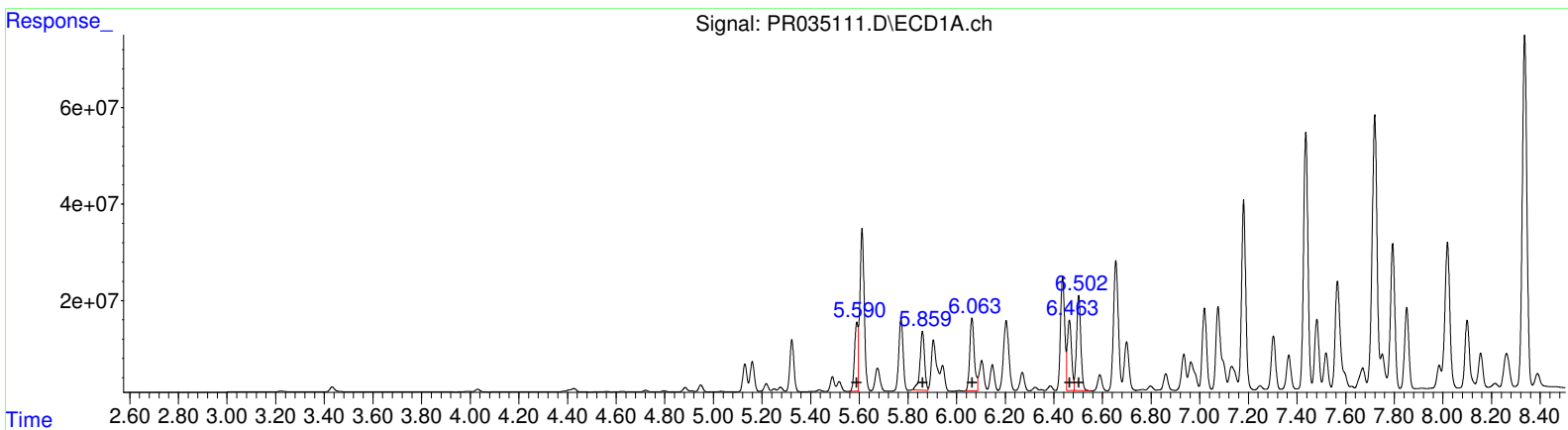
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035111.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:32
 Operator : SM\SJ
 Sample : J6428-11DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:40 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 135511179 | 2792.74 |
| 5.86 | 157308027 | 2380.80 |
| 6.06 | 197339690 | 2641.24 |
| 6.46 | 176757524 | 1978.35 |
| 6.50 | 238685131 | 2852.76 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 276948725 | 2840.45 |
| 4.80 | 324739390 | 2535.00 |
| 4.84 | 372565471 | 2822.95 |
| 5.01 | 428469787 | 2604.20 |
| 5.39 | 489424694 | 2924.46 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035111.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:32

Operator : SM\SJ
 Sample : J6428-11DL 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W3DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:40 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|-------|
| 1) SA Tetrachlo... | 4.426 | 3.513 | 9700098 | 16817830 | 4.987m | 4.824 |
| 2) SA Decachlor... | 10.104 | 8.401 | 13660505 | 33529500 | 6.949 | 7.626 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|----------|----------|------------|
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 135.5E6 | 276.9E6 | 2792.742 | 2840.450m |
| 22) L5 AR-1248-2 | 5.860 | 4.799 | 157.3E6 | 324.7E6 | 2380.803 | 2534.998 |
| 23) L5 AR-1248-3 | 6.063 | 4.839 | 197.3E6 | 372.6E6 | 2641.235 | 2822.954 |
| 24) L5 AR-1248-4 | 6.464 | 5.006 | 176.8E6 | 428.5E6 | 1978.350 | 2604.200m# |
| 25) L5 AR-1248-5 | 6.502 | 5.391 | 238.7E6 | 489.4E6 | 2852.757 | 2924.458 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 474.2E6 | 1184.7E6 | 5043.812 | 5511.158 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 657.1E6 | 1523.3E6 | 5660.057 | 5597.832 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 801.3E6 | 1263.8E6 | 5742.062 | 5091.137 |
| 34) L7 AR-1260-4 | 8.019 | 6.820 | 425.3E6 | 814.7E6 | 4924.820 | 4764.435 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 971.4E6 | 2442.5E6 | 5380.175 | 5050.233 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W3DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-11DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035112.D
 % Solids : 79.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 25.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1000 | U |
| 11104-28-2 | Aroclor-1221 | 1000 | U |
| 11141-16-5 | Aroclor-1232 | 1000 | U |
| 53469-21-9 | Aroclor-1242 | 1000 | U |
| 12672-29-6 | Aroclor-1248 | 5700 | D |
| 11097-69-1 | Aroclor-1254 | 1000 | U |
| 11096-82-5 | Aroclor-1260 | 11000 | D |
| 37324-23-5 | Aroclor-1262 | 1000 | U |
| 11100-14-4 | Aroclor-1268 | 1000 | U |

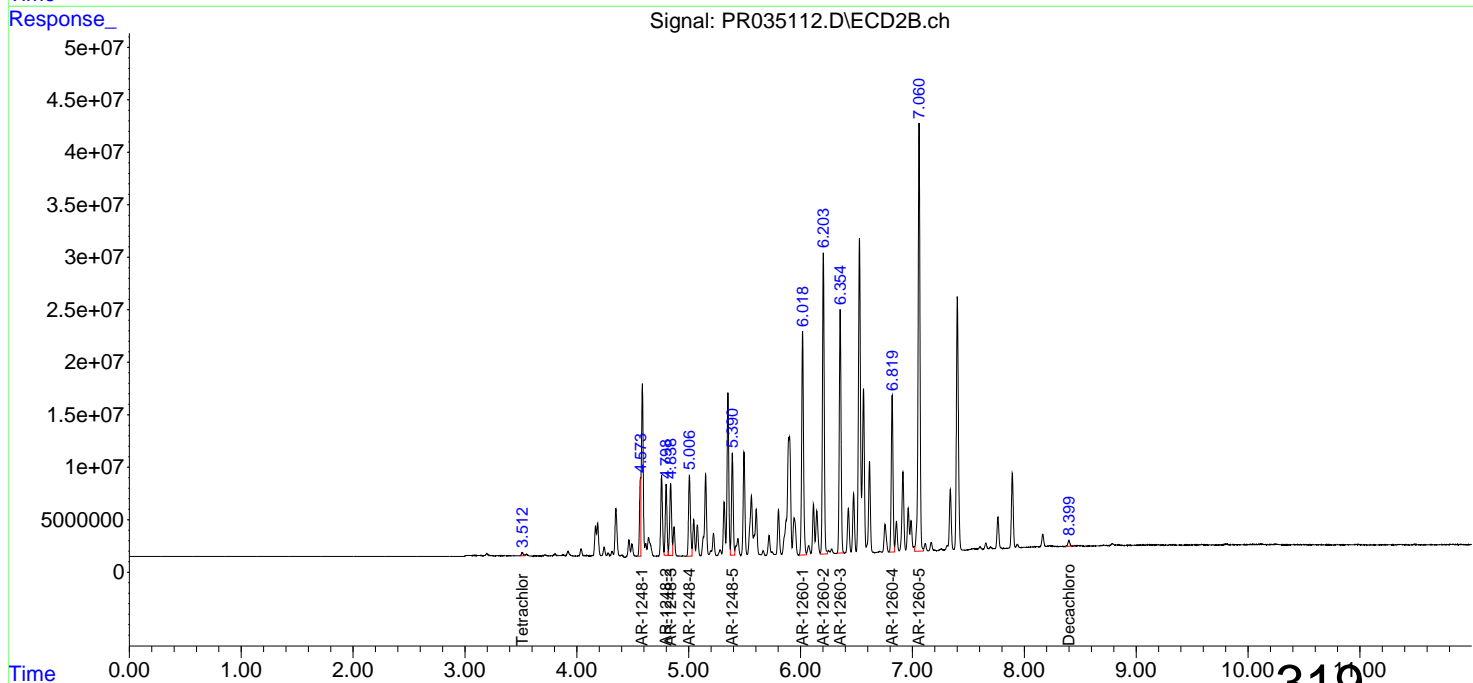
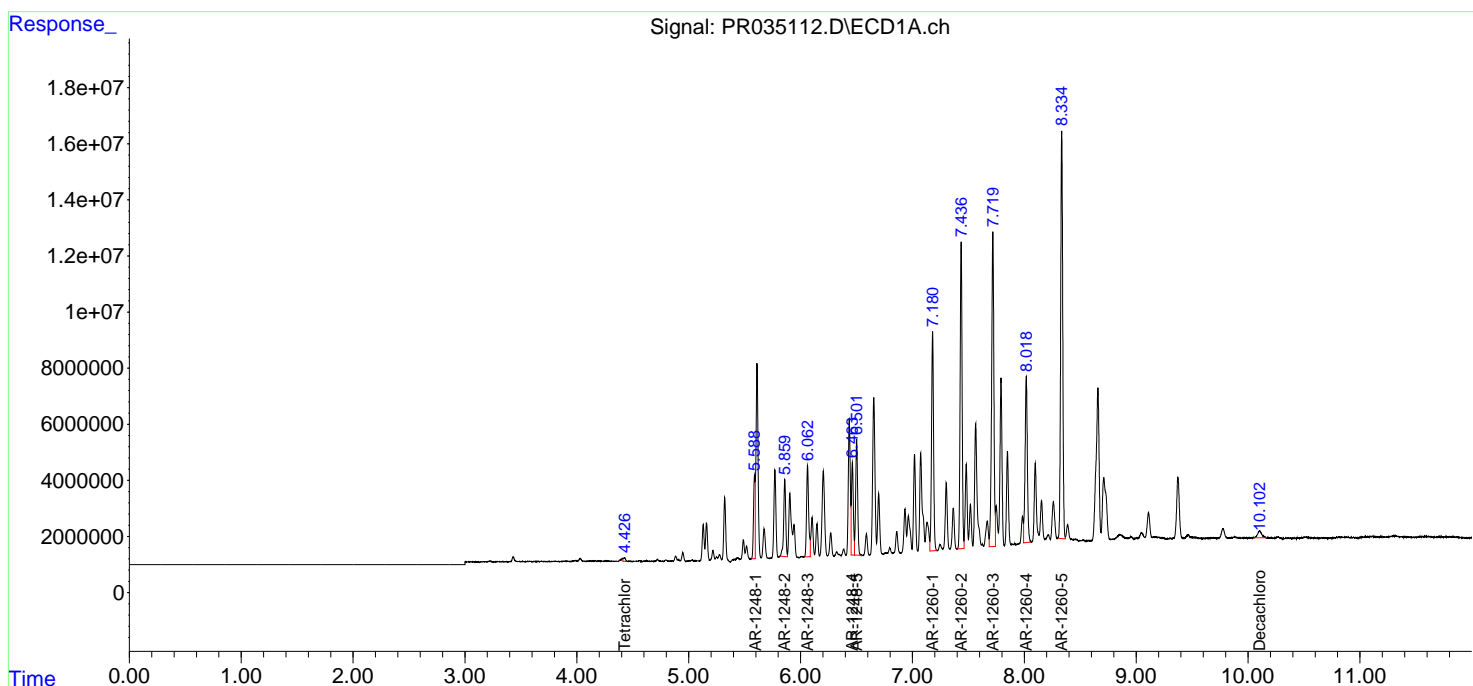
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 Data File : PR035112.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:47
 Operator : SM\SJ
 Sample : J6428-11DL2 25X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W3DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:41 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035112.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:47
 Operator : SM\SJ
 Sample : J6428-11DL2 25X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W3DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:41 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 1760465 | 3511218 | 0.905m | 1.007 |
| 2) SA Decachlor... | 10.103 | 8.399 | 6258115 | 6584961 | 3.183 | 1.498 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.573 | 29018217 | 61207324 | 598.035 | 627.757m |
| 22) L5 AR-1248-2 | 5.859 | 4.798 | 35279948 | 71444745 | 533.950 | 557.716 |
| 23) L5 AR-1248-3 | 6.063 | 4.839 | 42778095 | 80719673 | 572.551 | 611.618 |
| 24) L5 AR-1248-4 | 6.463 | 5.006 | 38562097 | 91571642 | 431.604 | 556.564m# |
| 25) L5 AR-1248-5 | 6.502 | 5.390 | 51396279 | 103.8E6 | 614.287 | 620.375 |
| 31) L7 AR-1260-1 | 7.181 | 6.018 | 97969376 | 246.3E6 | 1042.139 | 1145.696 |
| 32) L7 AR-1260-2 | 7.436 | 6.204 | 134.0E6 | 315.8E6 | 1154.420 | 1160.534 |
| 33) L7 AR-1260-3 | 7.719 | 6.354 | 157.2E6 | 255.7E6 | 1126.497 | 1029.912 |
| 34) L7 AR-1260-4 | 8.018 | 6.819 | 83581188 | 162.2E6 | 967.783 | 948.568 |
| 35) L7 AR-1260-5 | 8.335 | 7.060 | 185.6E6 | 478.1E6 | 1028.028 | 988.552 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035112.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:47
 Operator : SM\SJ
 Sample : J6428-11DL2 25X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

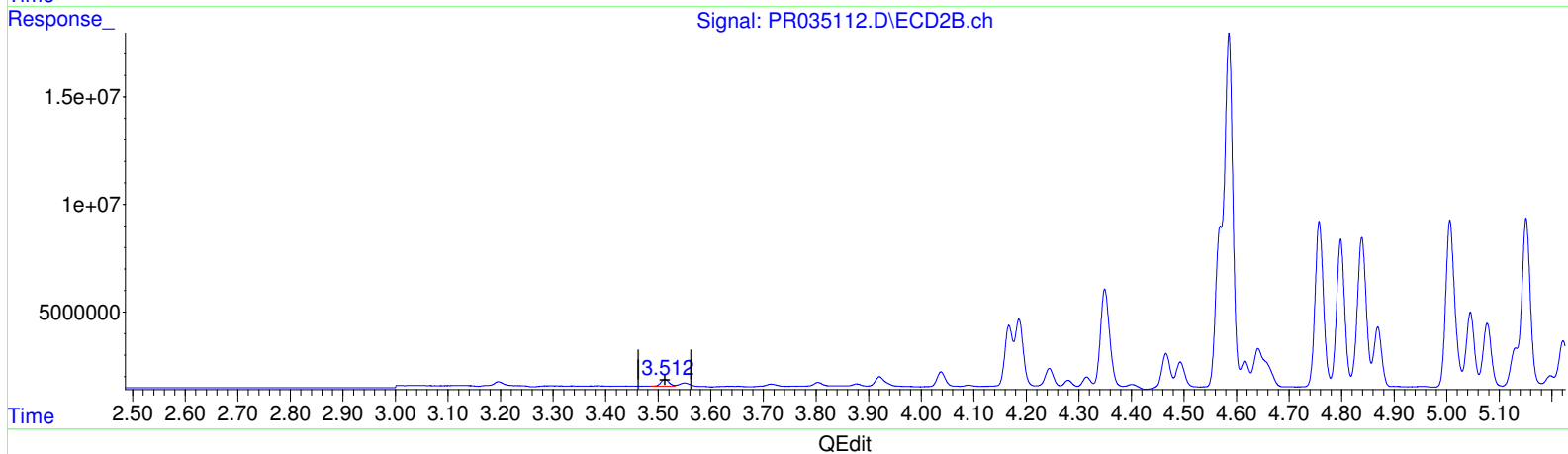
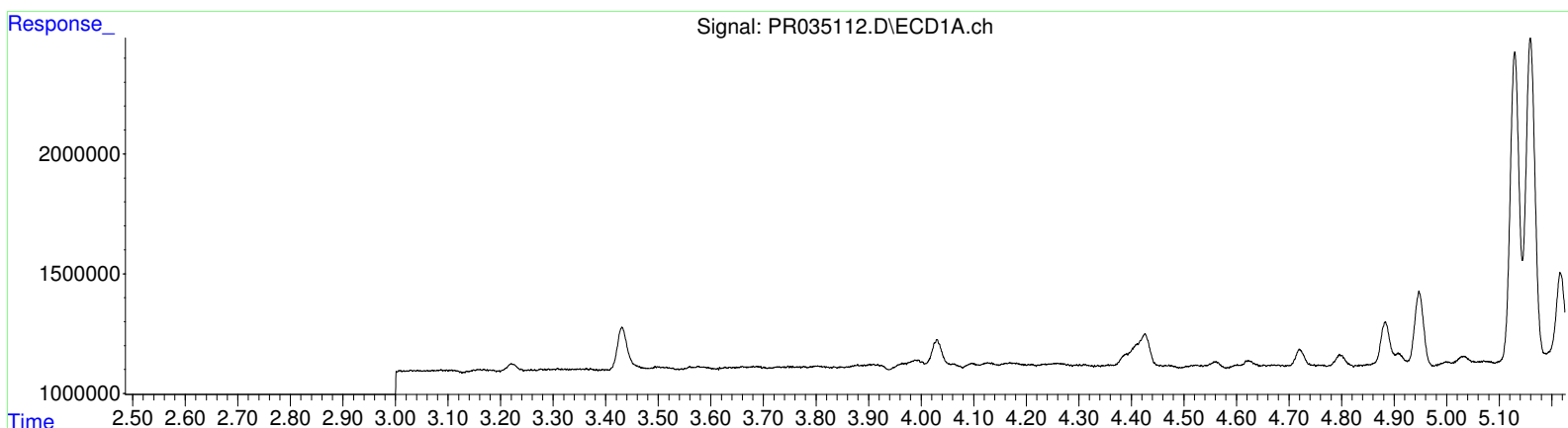
Instrument :
 ECD_R
 ClientSampled :
 A41W3DL2

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:41 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 0.000min 0.000 ng/ml
 response 0

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 1.007 ng/ml
 response 3511218

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035112.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:47
 Operator : SM\SJ
 Sample : J6428-11DL2 25X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

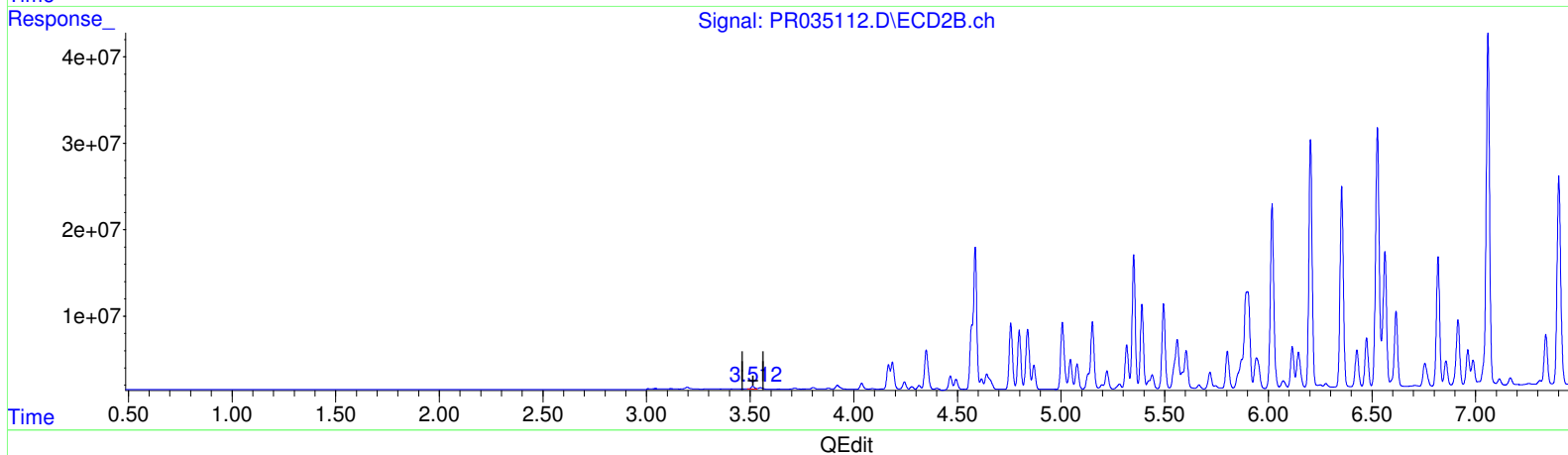
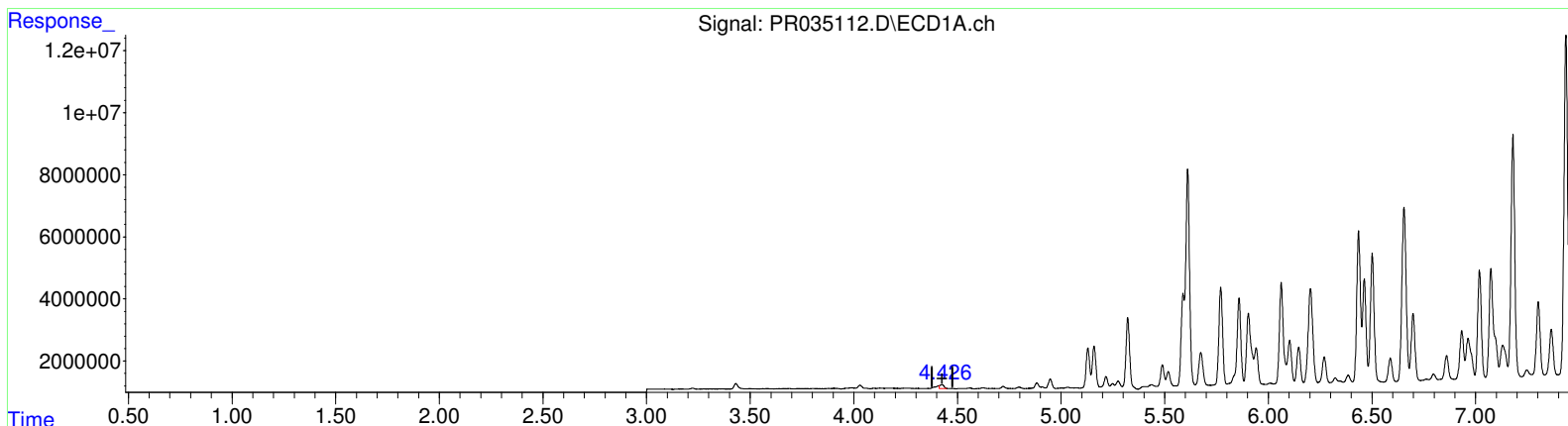
Instrument :
 ECD_R
 ClientSampleID :
 A41W3DL2

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:41 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 0.905 ng/ml m
 response 1760465

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 1.007 ng/ml
 response 3511218

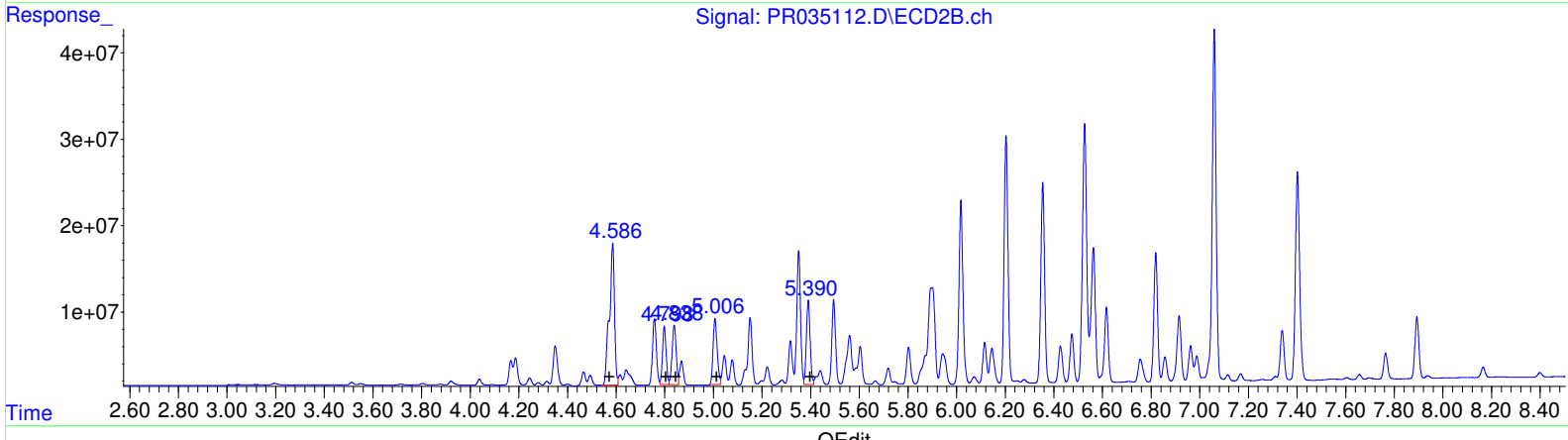
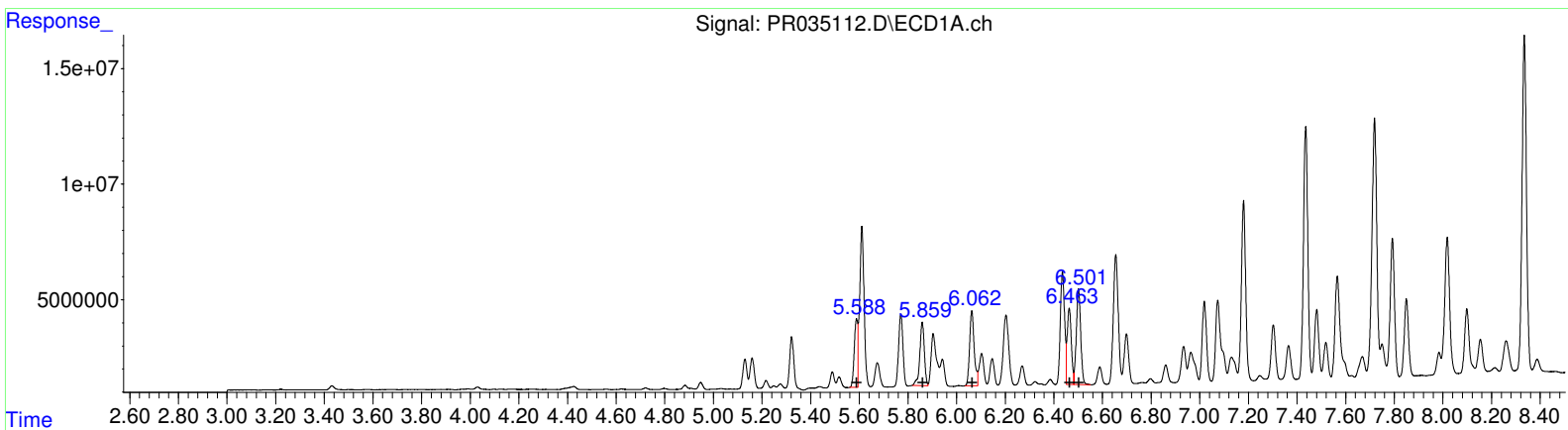
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035112.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:47
 Operator : SM\SJ
 Sample : J6428-11DL2 25X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W3DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:41 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 29018217 | 598.03 |
| 5.86 | 35279948 | 533.95 |
| 6.06 | 42778095 | 572.55 |
| 6.46 | 38562097 | 431.60 |
| 6.50 | 51396279 | 614.29 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.59 | 240113361 | 2462.66 |
| 4.80 | 71444745 | 557.72 |
| 4.84 | 80719673 | 611.62 |
| 5.01 | 89634416 | 544.79 |
| 5.39 | 103823347 | 620.38 |

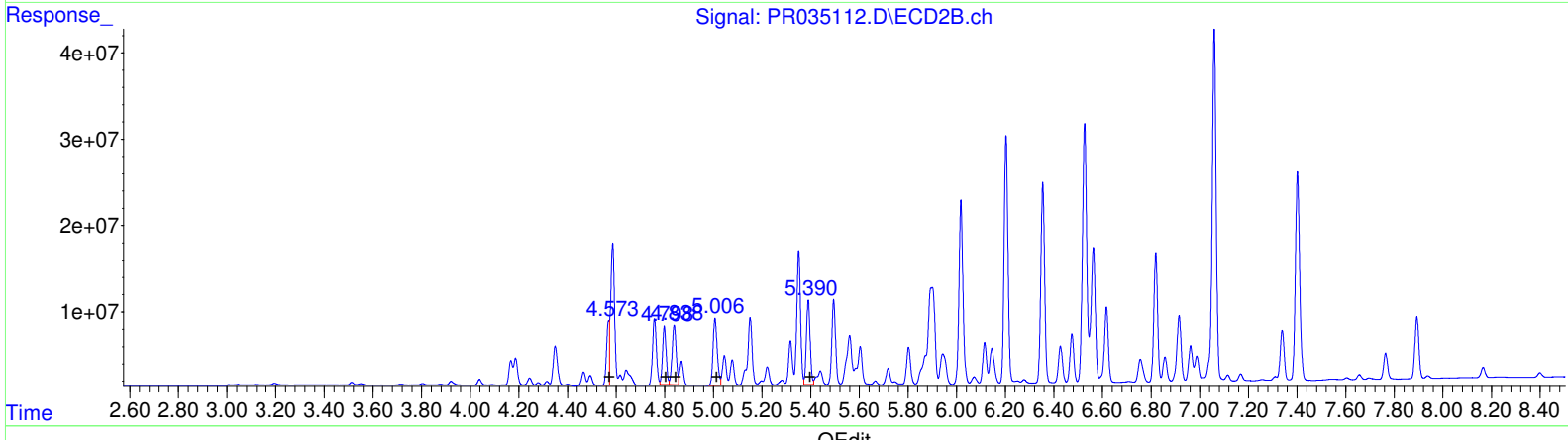
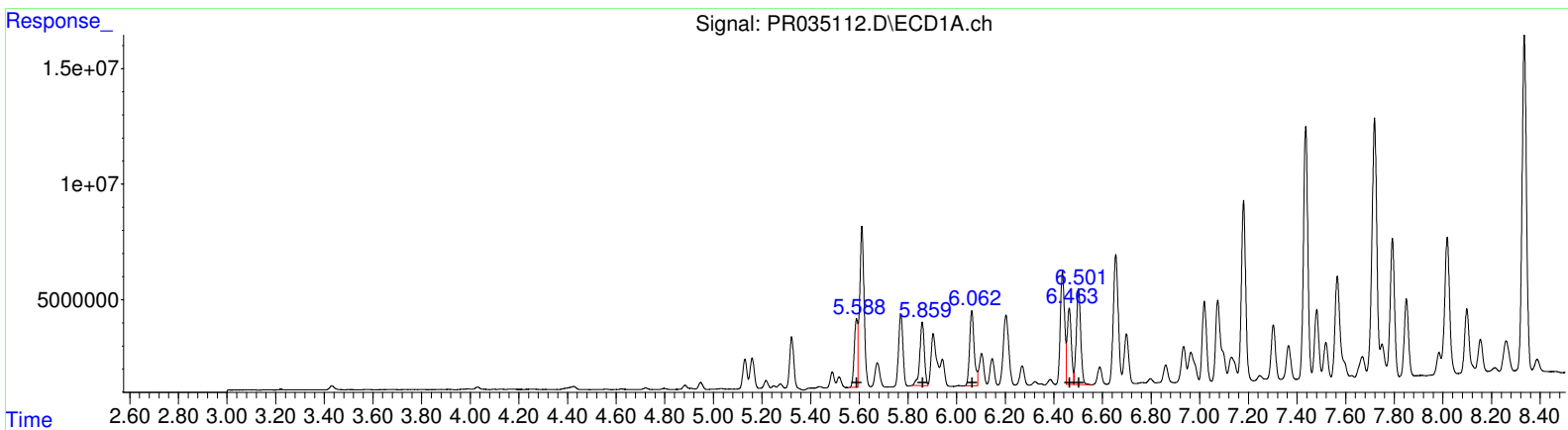
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035112.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:47
 Operator : SM\SJ
 Sample : J6428-11DL2 25X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W3DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:41 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 29018217 | 598.03 |
| 5.86 | 35279948 | 533.95 |
| 6.06 | 42778095 | 572.55 |
| 6.46 | 38562097 | 431.60 |
| 6.50 | 51396279 | 614.29 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|--------|
| 4.57 | 61207324 | 627.76 |
| 4.80 | 71444745 | 557.72 |
| 4.84 | 80719673 | 611.62 |
| 5.01 | 91571642 | 556.56 |
| 5.39 | 103823347 | 620.38 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035112.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 20:47

Operator : SM\SJ
 Sample : J6428-11DL2 25X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W3DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:21:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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 12/29/2018 12:18:41 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 1760465 | 3511218 | 0.905m | 1.007 |
| 2) SA Decachlor... | 10.103 | 8.399 | 6258115 | 6584961 | 3.183 | 1.498 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.573 | 29018217 | 61207324 | 598.035 | 627.757m |
| 22) L5 AR-1248-2 | 5.859 | 4.798 | 35279948 | 71444745 | 533.950 | 557.716 |
| 23) L5 AR-1248-3 | 6.063 | 4.839 | 42778095 | 80719673 | 572.551 | 611.618 |
| 24) L5 AR-1248-4 | 6.463 | 5.006 | 38562097 | 91571642 | 431.604 | 556.564m# |
| 25) L5 AR-1248-5 | 6.502 | 5.390 | 51396279 | 103.8E6 | 614.287 | 620.375 |
| 31) L7 AR-1260-1 | 7.181 | 6.018 | 97969376 | 246.3E6 | 1042.139 | 1145.696 |
| 32) L7 AR-1260-2 | 7.436 | 6.204 | 134.0E6 | 315.8E6 | 1154.420 | 1160.534 |
| 33) L7 AR-1260-3 | 7.719 | 6.354 | 157.2E6 | 255.7E6 | 1126.497 | 1029.912 |
| 34) L7 AR-1260-4 | 8.018 | 6.819 | 83581188 | 162.2E6 | 967.783 | 948.568 |
| 35) L7 AR-1260-5 | 8.335 | 7.060 | 185.6E6 | 478.1E6 | 1028.028 | 988.552 |

SJ
12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W5

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-12
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035059.D
 % Solids : 78.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

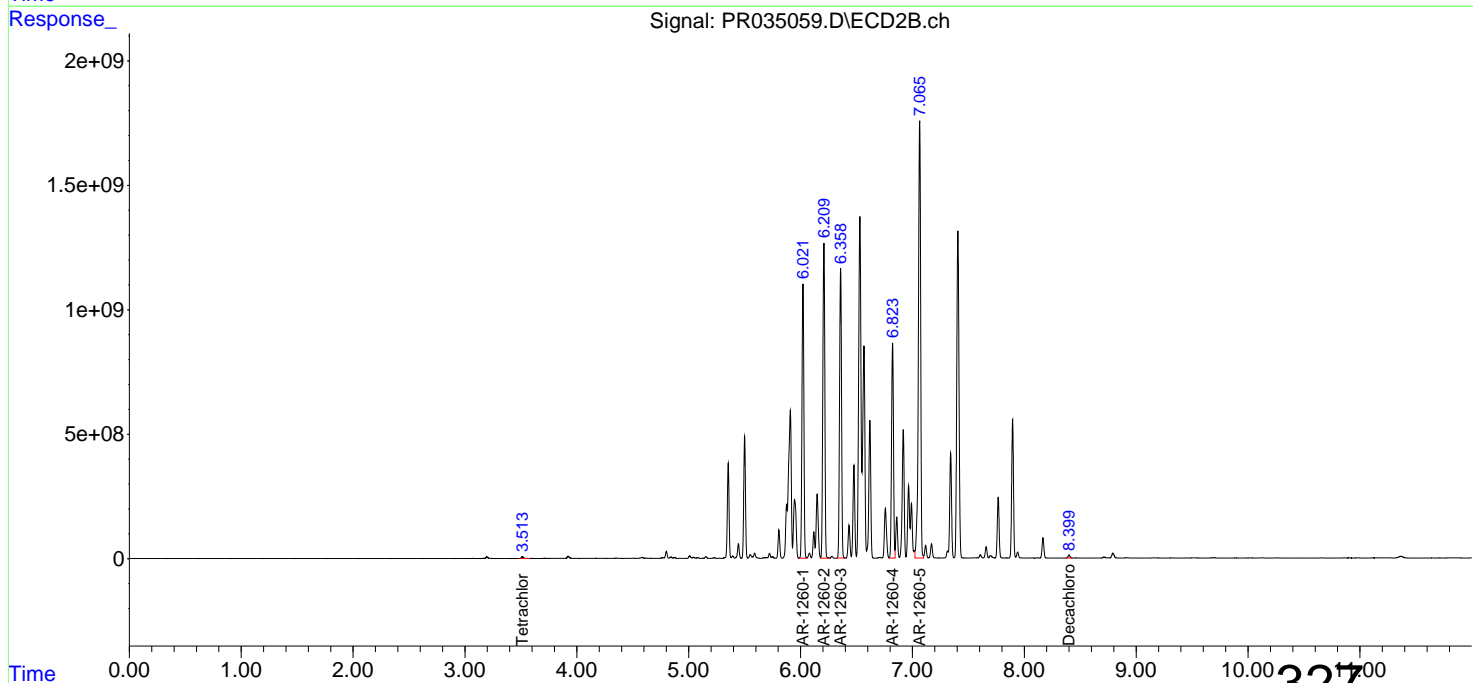
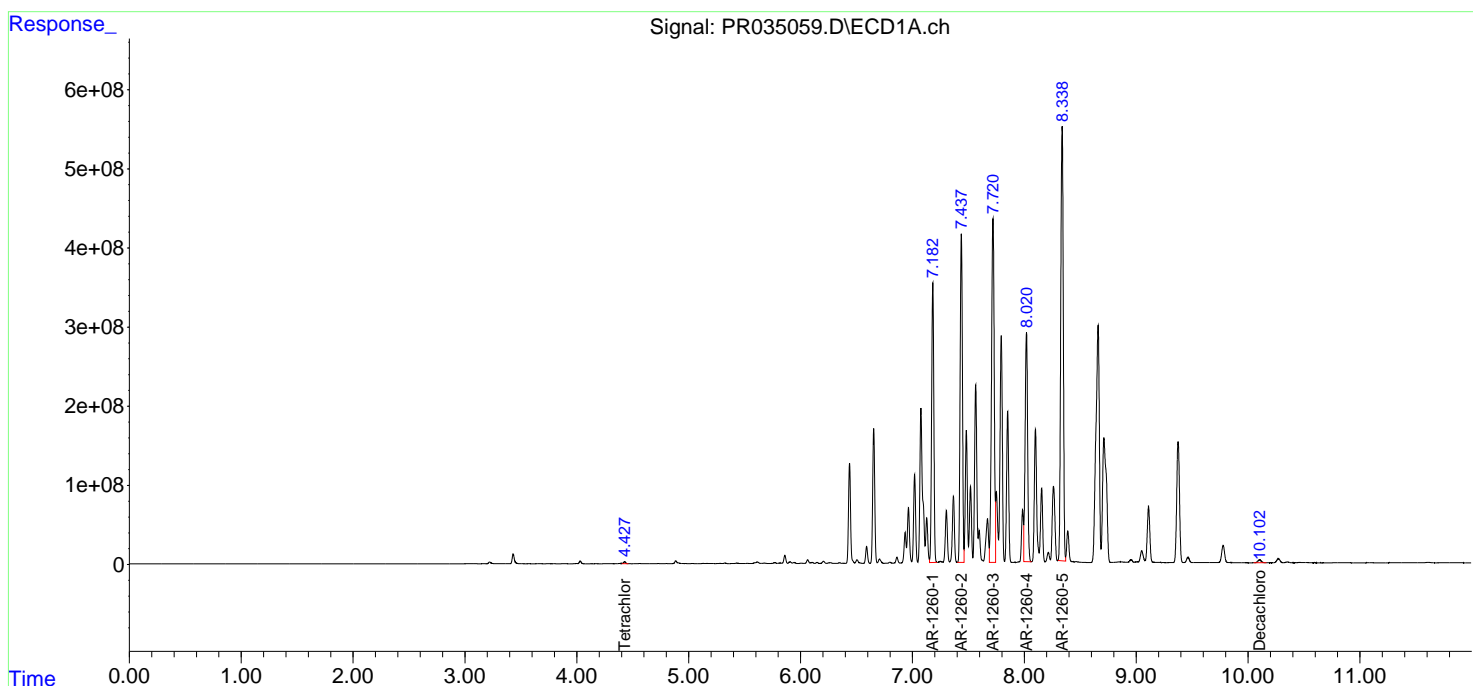
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 42 | U |
| 11097-69-1 | Aroclor-1254 | 42 | U |
| 11096-82-5 | Aroclor-1260 | 22000 | EC |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
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 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:30
 Operator : SM\SJ
 Sample : J6428-12
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W5

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:18:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035059.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:30
 Operator : SM\SJ
 Sample : J6428-12
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W5

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:18:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 31052960 | 87273573 | 15.965 | 25.035 # |
| 2) SA Decachlor... | 10.103 | 8.400 | 81329890 | 137.2E6 | 41.370 | 31.206 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 4826.9E6 | 13123.9E6 | 51345.644 | 61049.067 |
| 32) L7 AR-1260-2 | 7.438 | 6.209 | 5892.1E6 | 15750.1E6 | 50749.933 | 57878.811 |
| 33) L7 AR-1260-3 | 7.720 | 6.358 | 7317.0E6 | 14289.6E6 | 52430.058 | 57564.465 |
| 34) L7 AR-1260-4 | 8.020 | 6.823 | 4546.0E6 | 10416.9E6 | 52638.030 | 60921.031 |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 8764.3E6 | 24809.4E6 | 48541.194 | 51296.760 |
| ----- | | | | | | |

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

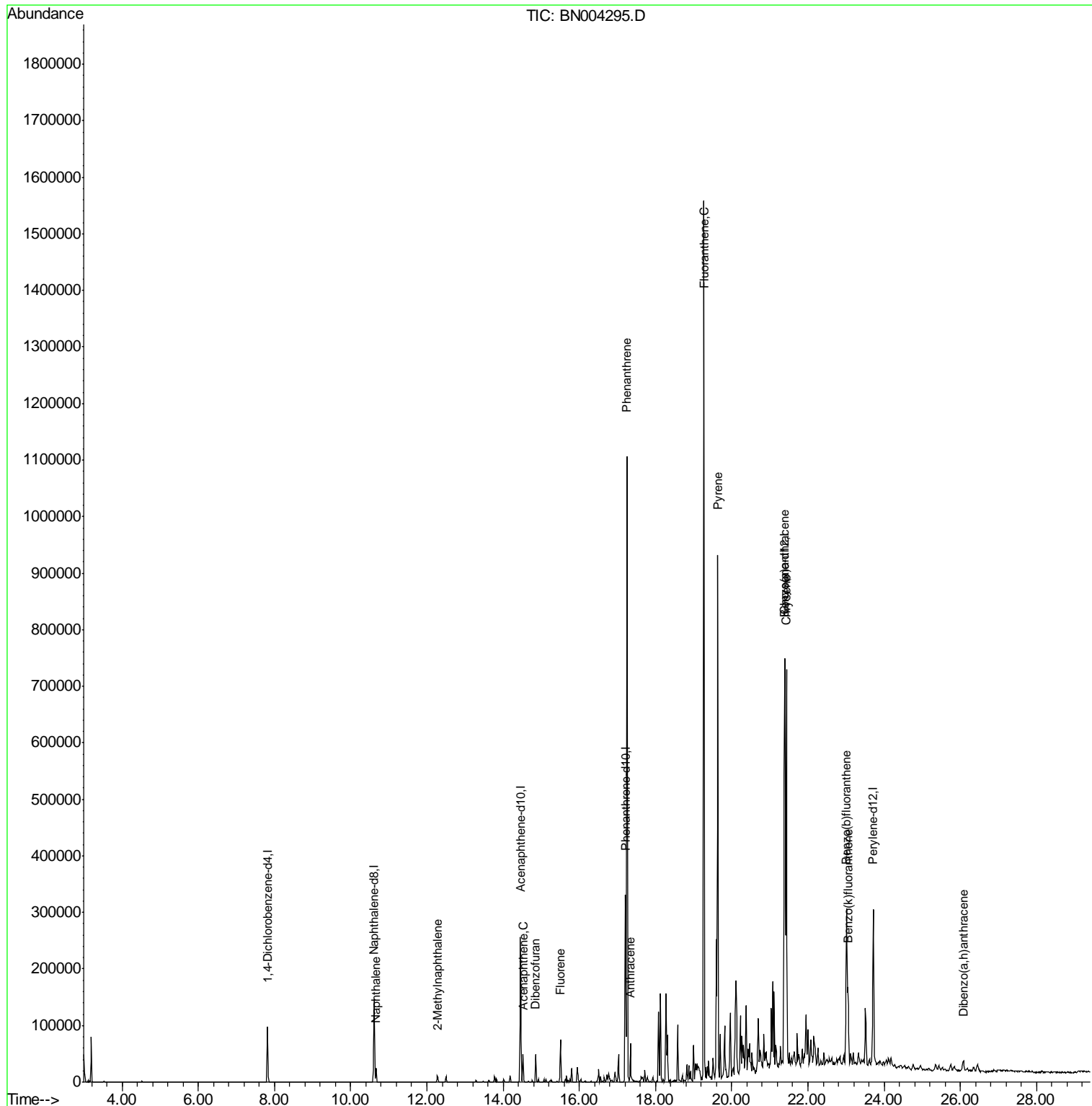
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 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

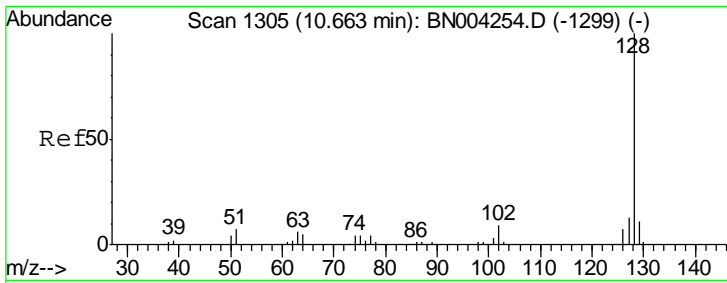
Instrument :
 BNA_N
 Client Sampled :
 A41W5

Manual Integrations
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Sohil
 1/2/2019 3:42:07 PM

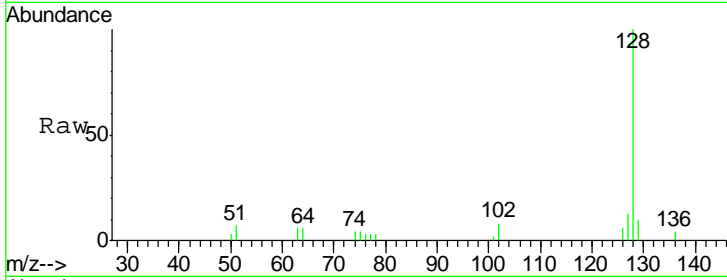
Quant Time: Dec 31 00:04:23 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#28
 Naphthalene
 Concen: 3.197 ng/ul
 RT: 10.66 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

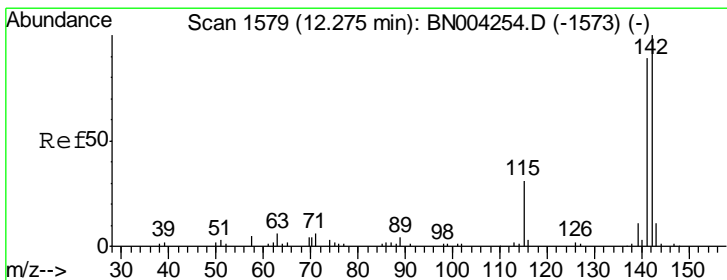
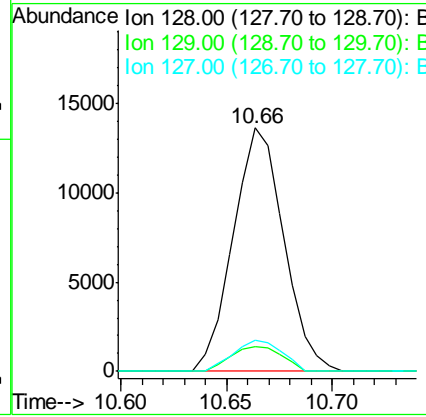
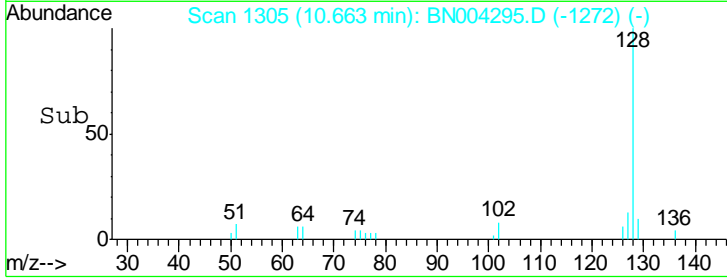
Instrument :
 BNA_N
ClientSampled :
 A41W5



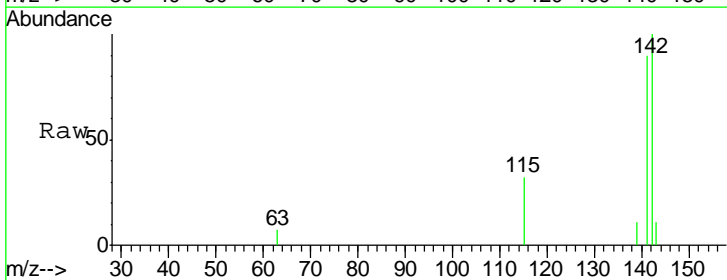
Tgt Ion: 128 Resp: 22673

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100 | | |
| 129 | 10.3 | 8.6 | 12.8 |
| 127 | 12.8 | 10.6 | 16.0 |

Manual Integrations
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 Sohil
 1/2/2019 3:42:07 PM

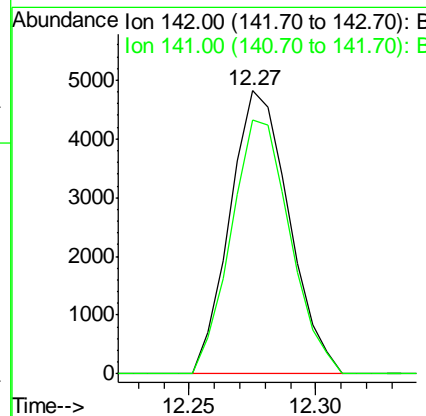
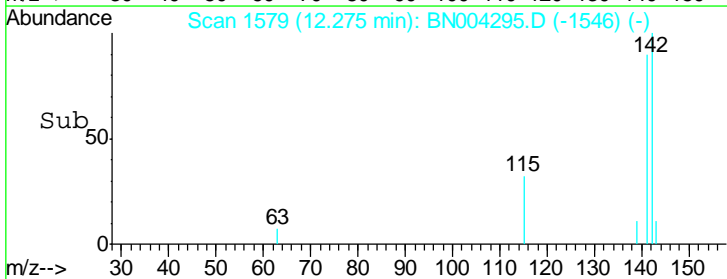


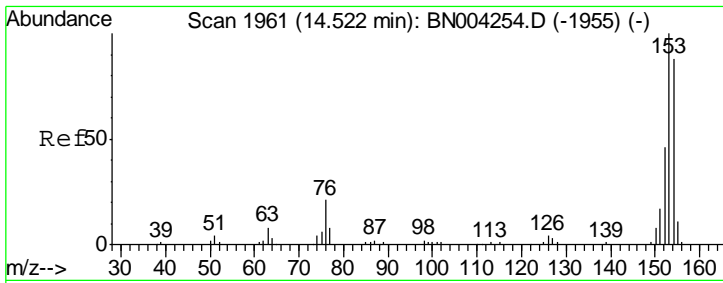
#34
 2-Methylnaphthalene
 Concen: 1.460 ng/ul
 RT: 12.27 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28



Tgt Ion: 142 Resp: 7795

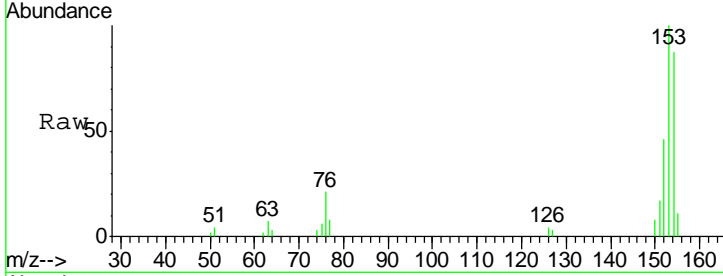
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100 | | |
| 141 | 89.6 | 70.2 | 105.2 |





#49
 Acenaphthene
 Concen: 3.369 ng/ul
 RT: 14.52 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

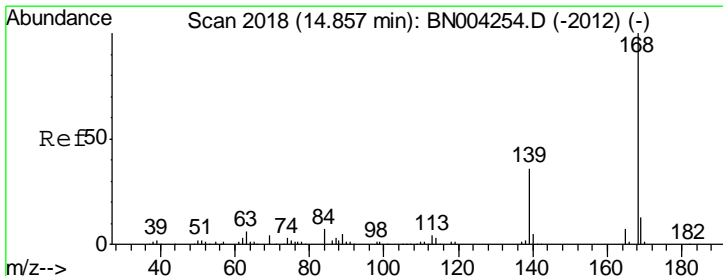
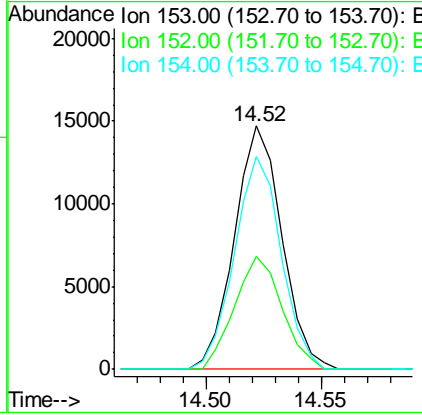
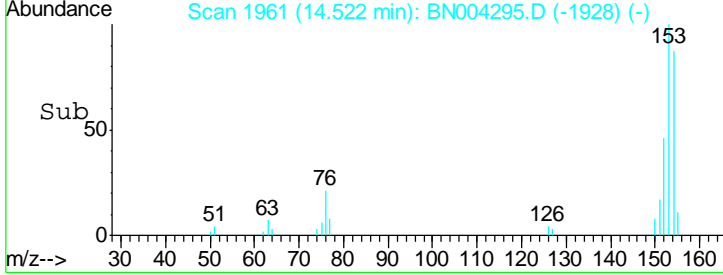
Instrument :
 BNA_N
 ClientSampled :
 A41W5



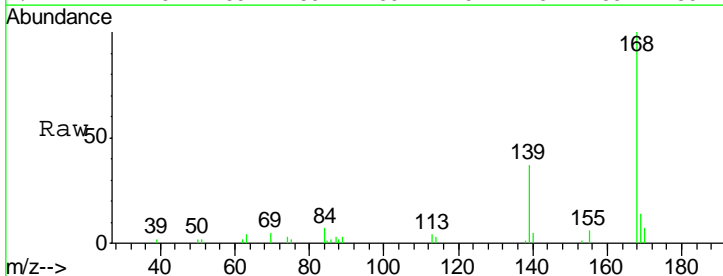
Tgt Ion: 153 Resp: 21095

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100 | | |
| 152 | 46.4 | 37.8 | 56.6 |
| 154 | 87.3 | 71.0 | 106.6 |

Manual Integrations
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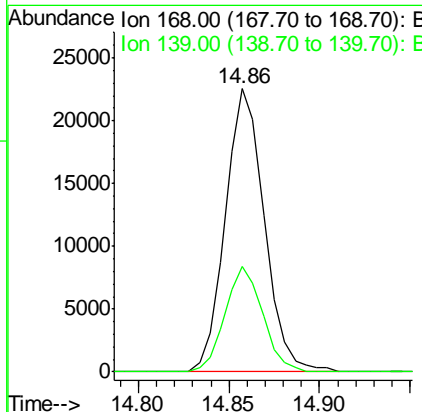
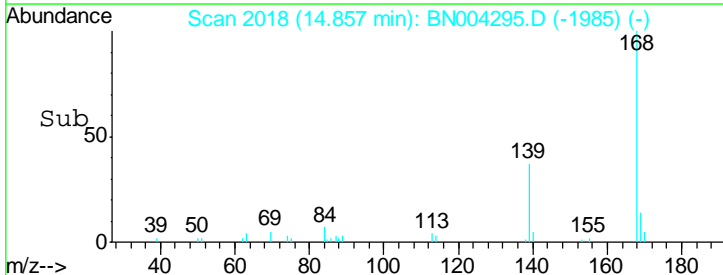


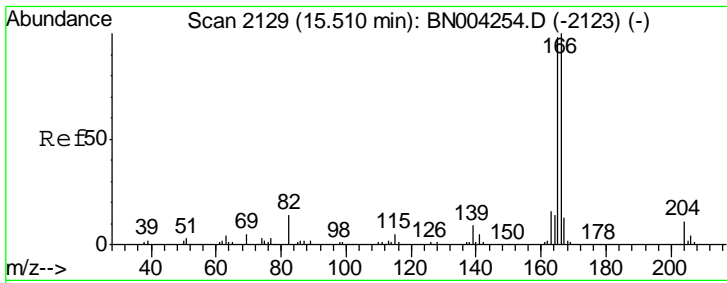
#53
 Dibenzofuran
 Concen: 3.790 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28



Tgt Ion: 168 Resp: 33680

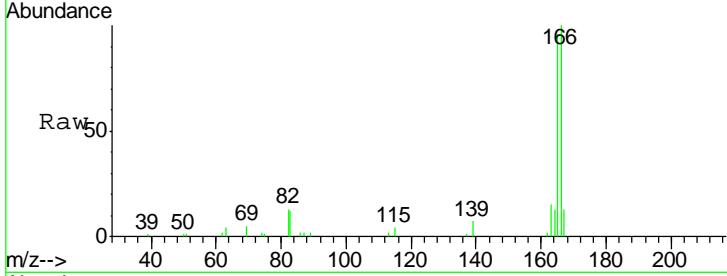
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100 | | |
| 139 | 37.2 | 28.8 | 43.2 |





#58
 Fluorene
 Concen: 4.890 ng/ul
 RT: 15.51 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

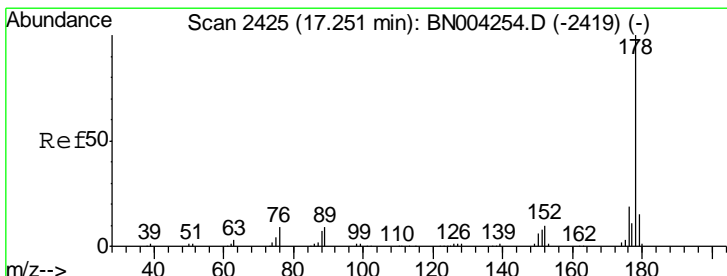
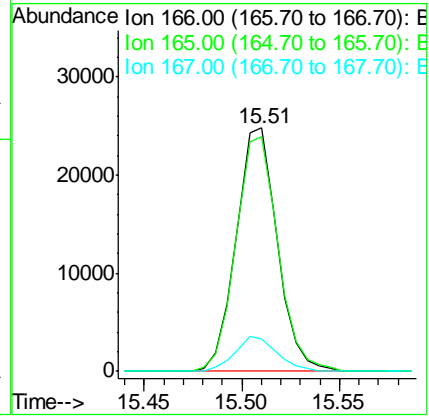
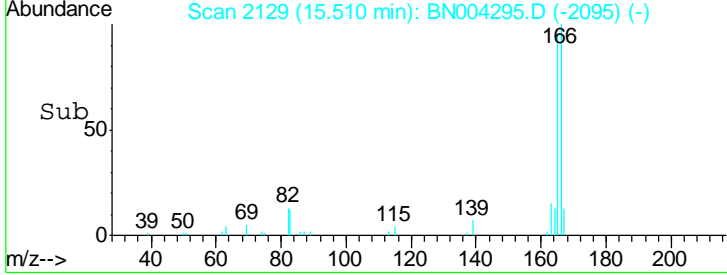
Instrument :
 BNA_N
 ClientSampled :
 A41W5



Tgt Ion:166 Resp: 36188

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100 | | |
| 165 | 96.2 | 78.6 | 117.8 |
| 167 | 13.4 | 10.3 | 15.5 |

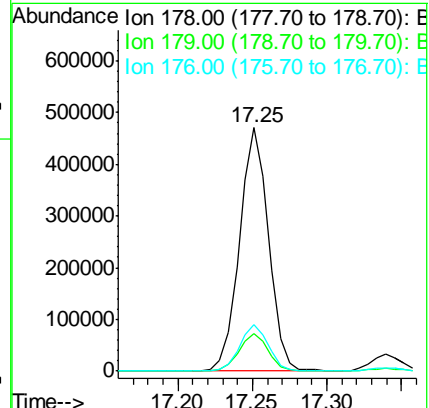
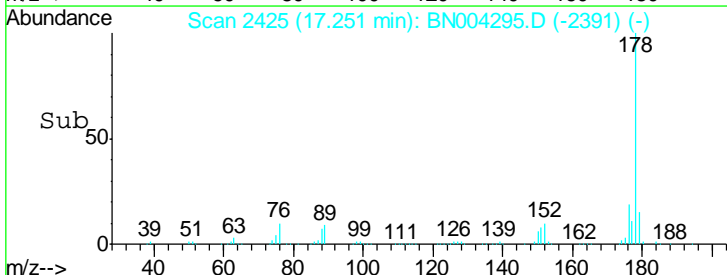
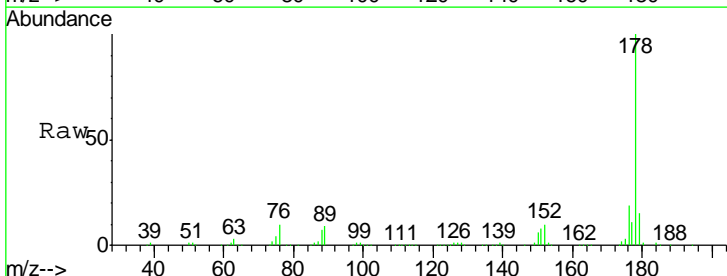
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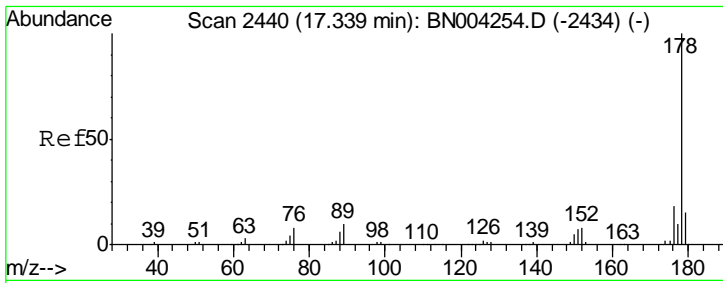


#69
 Phenanthrene
 Concen: 55.501 ng/ul
 RT: 17.25 min Scan# 2425
 Delta R.T. 0.00 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

Tgt Ion:178 Resp: 636954

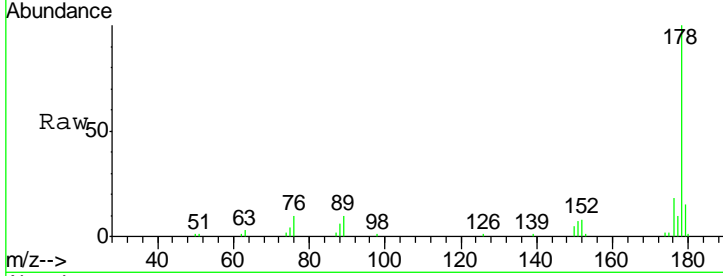
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.3 | 12.1 | 18.1 |
| 176 | 19.1 | 15.0 | 22.6 |





#71
 Anthracene
 Concen: 3.638 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

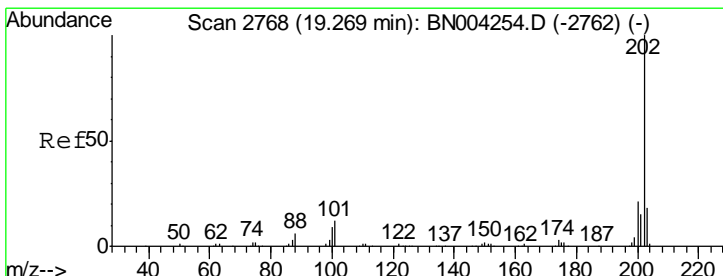
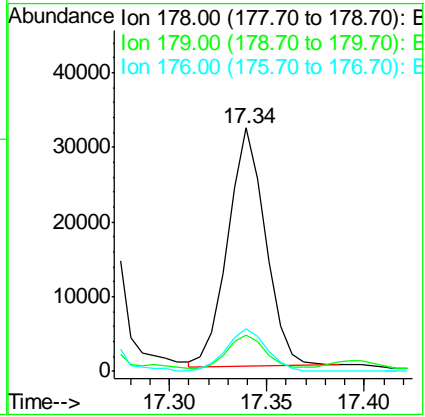
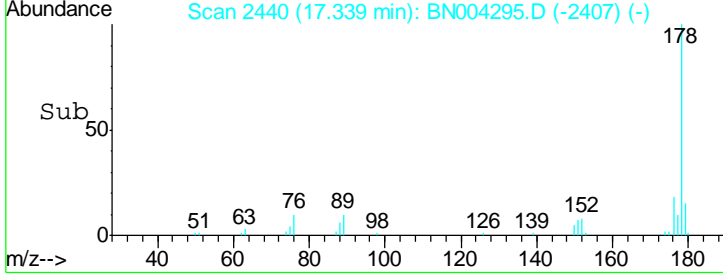
Instrument :
 BNA_N
 ClientSampled :
 A41W5



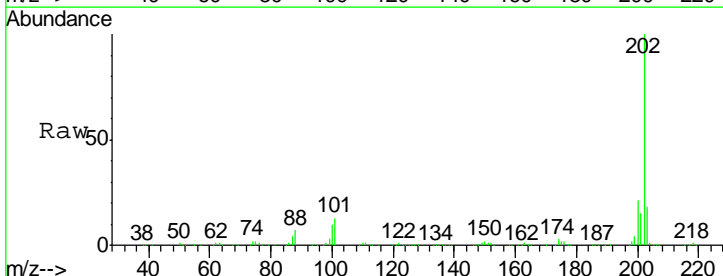
Tgt Ion: 178 Resp: 42795

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.0 | 12.1 | 18.1 |
| 176 | 17.6 | 15.2 | 22.8 |

Manual Integrations
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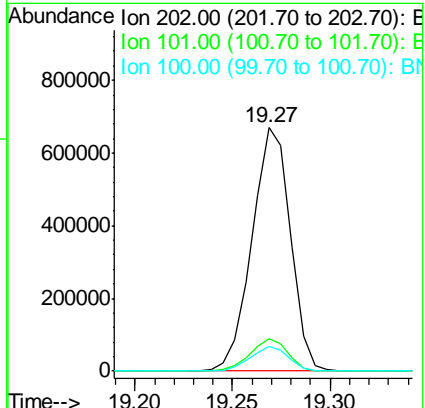
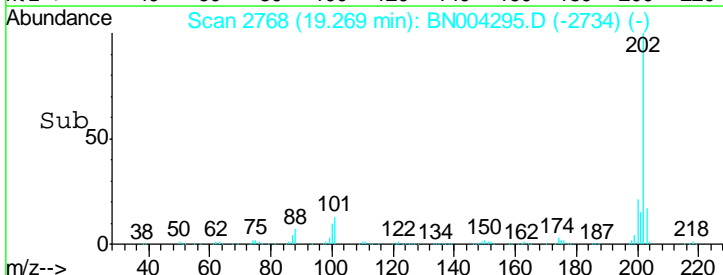


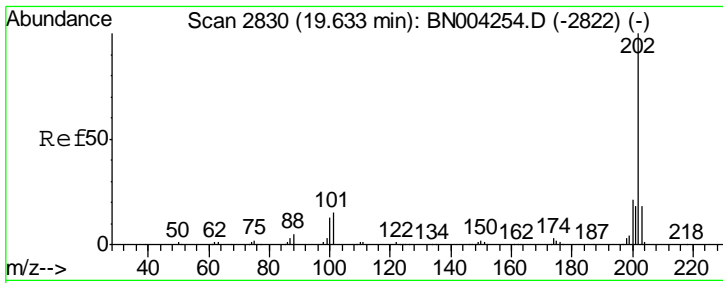
#76
 Fluoranthene
 Concen: 64.944 ng/ul
 RT: 19.27 min Scan# 2768
 Delta R.T. 0.00 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28



Tgt Ion: 202 Resp: 913580

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100 | | |
| 101 | 13.3 | 10.2 | 15.2 |
| 100 | 10.2 | 7.8 | 11.8 |





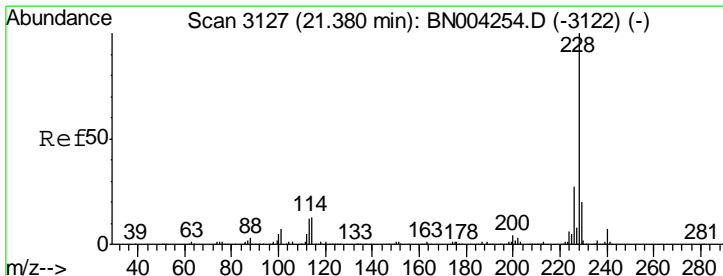
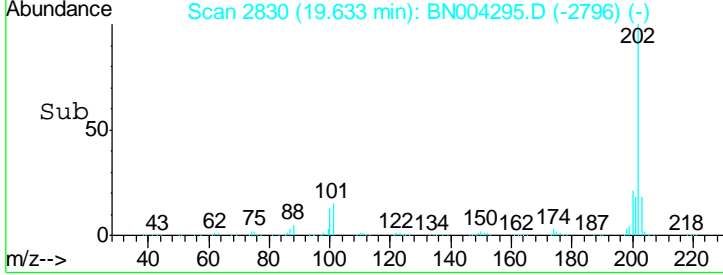
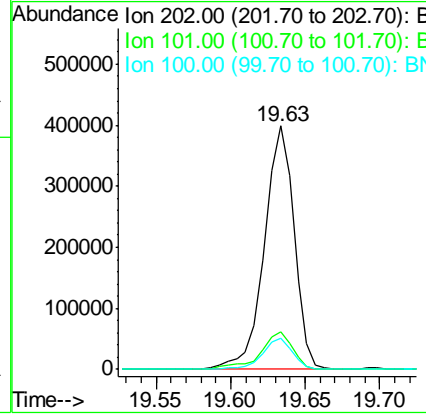
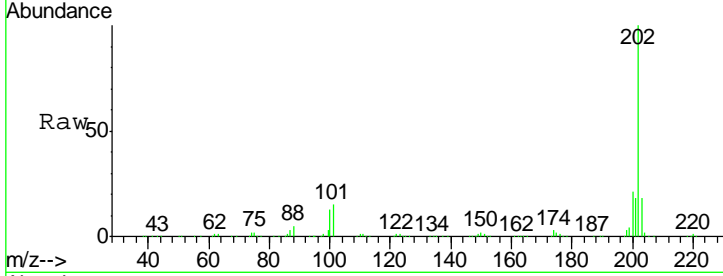
#79
 Pyrene
 Concen: 44.089 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. 0.00 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

Instrument :
 BNA_N
 ClientSampled :
 A41W5

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 15.4 | 12.2 | 18.2 |
| 100 | 12.6 | 9.9 | 14.9 |

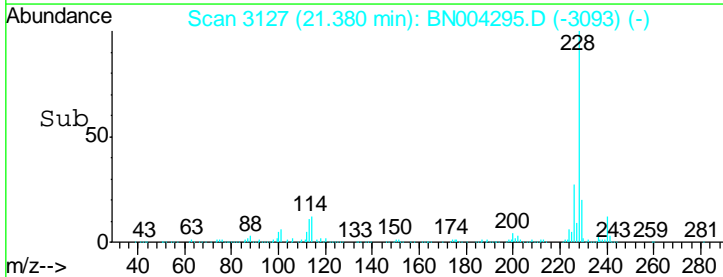
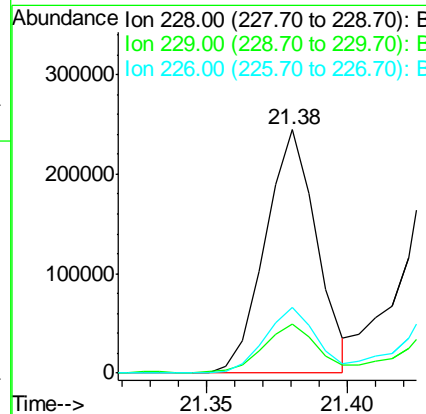
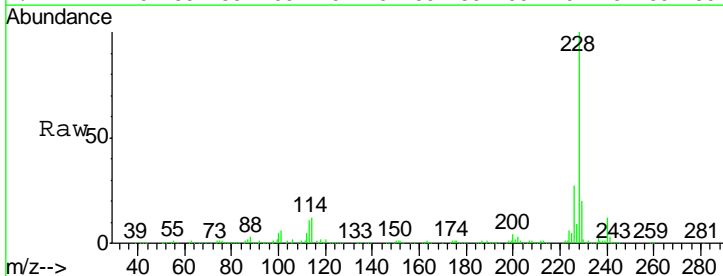
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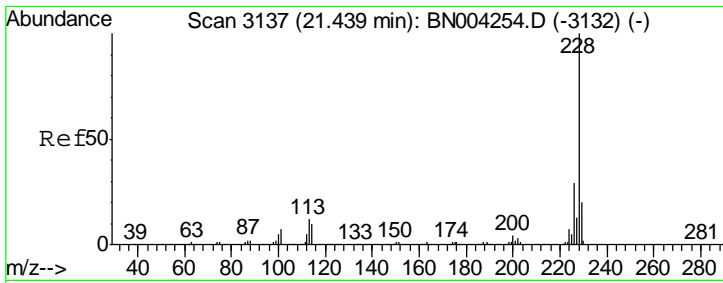
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#82
 Benzo(a)anthracene
 Concen: 22.160 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. 0.00 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 229 | 20.1 | 15.9 | 23.9 |
| 226 | 27.2 | 21.4 | 32.2 |



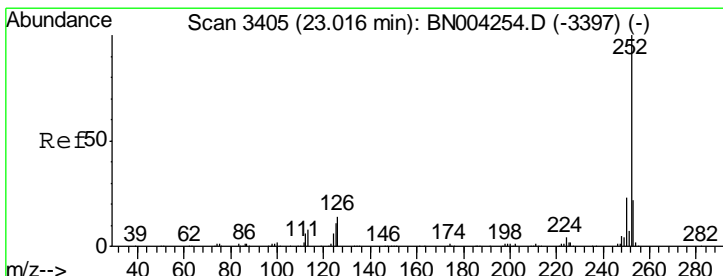
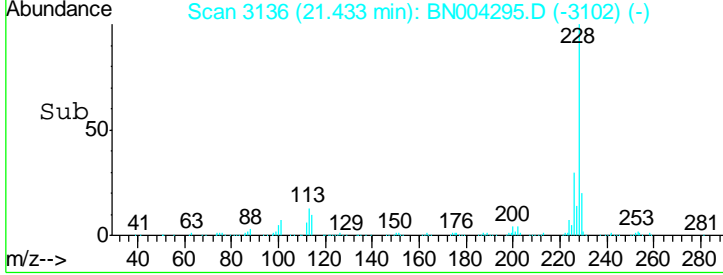
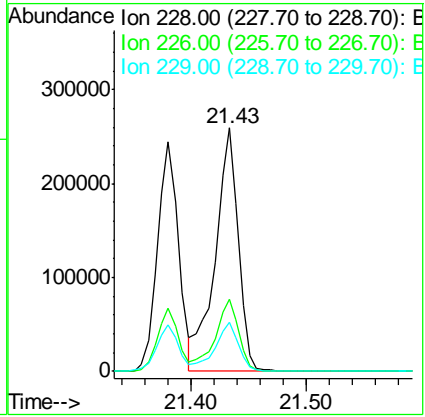
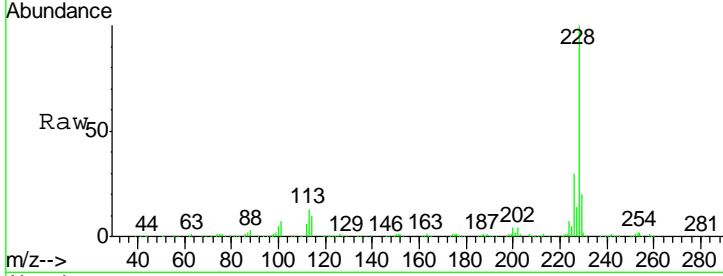


#84
 Chrysene
 Concen: 27.497 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. 0.00 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

Instrument :
 BNA_N
 ClientSampled :
 A41W5

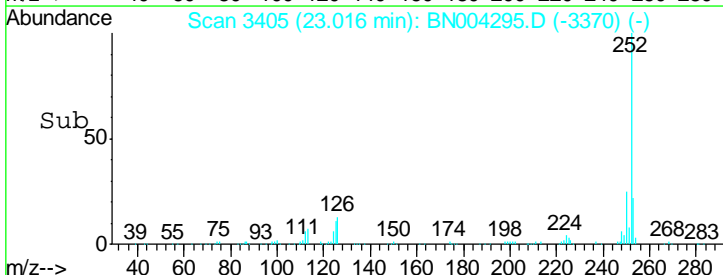
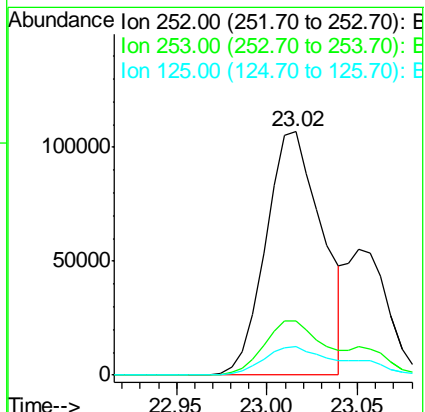
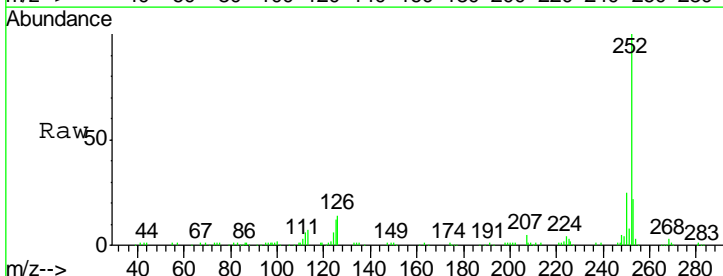
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 226 | 29.5 | 23.8 | 35.8 |
| 229 | 19.9 | 15.8 | 23.6 |

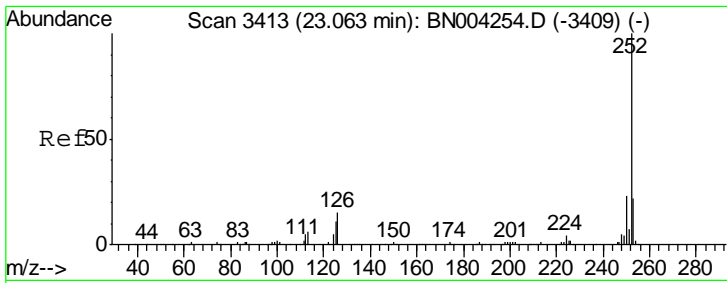
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#87
 Benzo(b)fluoranthene
 Concen: 19.050 ng/ul
 RT: 23.02 min Scan# 3405
 Delta R.T. 0.01 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

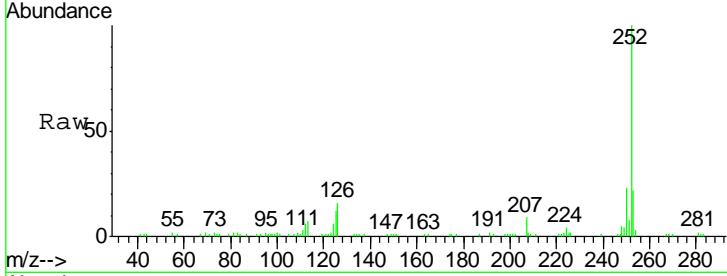
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.5 | 17.3 | 25.9 |
| 125 | 11.7 | 8.2 | 12.4 |





#88
 Benzo(k)fluoranthene
 Concen: 7.688 ng/ul m
 RT: 23.05 min Scan# 3411
 Delta R.T. -0.01 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28

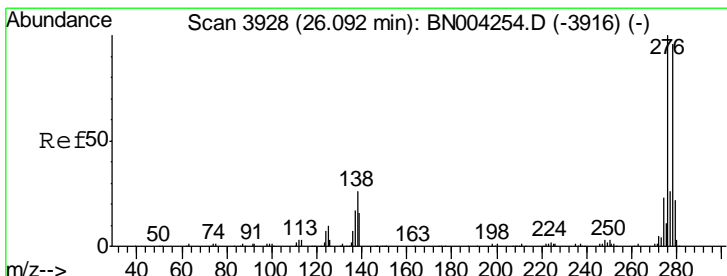
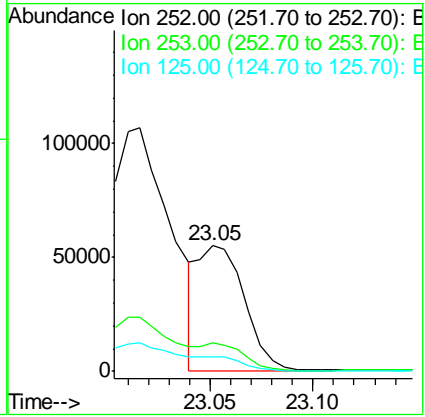
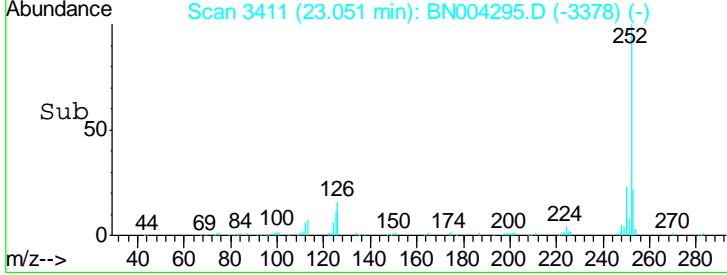
Instrument :
 BNA_N
ClientSampled :
 A41W5



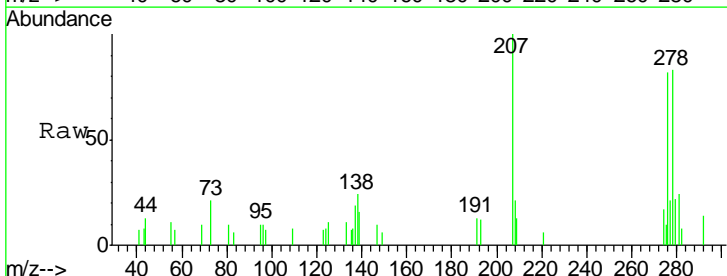
Tgt Ion: 252 Resp: 87596

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100 | | |
| 253 | 22.5 | 17.1 | 25.7 |
| 125 | 11.8 | 7.9 | 11.9 |

Manual Integrations
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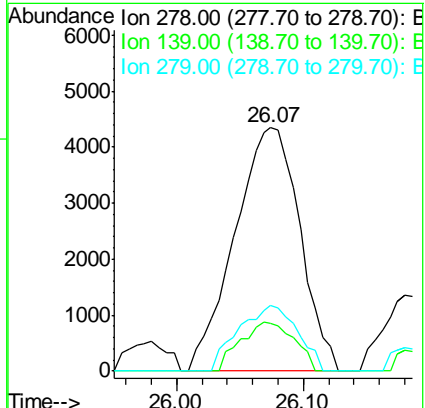
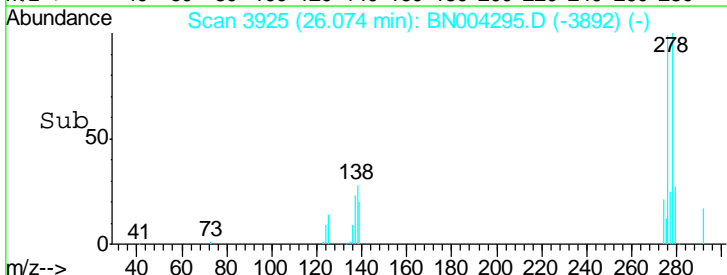


#92
 Dibenzo(a,h)anthracene
 Concen: 1.219 ng/ul
 RT: 26.07 min Scan# 3925
 Delta R.T. -0.01 min
 Lab File: BN004295.D
 Acq: 29 Dec 2018 11:28



Tgt Ion: 278 Resp: 15476

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100 | | |
| 139 | 19.9 | 13.3 | 19.9 |
| 279 | 27.2 | 19.0 | 28.6 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W5

Manual Integrations
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Quant Time: Dec 31 00:04:23 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 28166 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 132168 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 87145 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.21 | 188 | 198628 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 223391 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 203130 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 28) Naphthalene | 10.66 | 128 | 22673 | 3.197 ng/ul | 99 |
| 34) 2-Methylnaphthalene | 12.27 | 142 | 7795 | 1.460 ng/ul | 98 |
| 49) Acenaphthene | 14.52 | 153 | 21095 | 3.369 ng/ul | 99 |
| 53) Dibenzofuran | 14.86 | 168 | 33680 | 3.790 ng/ul | 98 |
| 58) Fluorene | 15.51 | 166 | 36188 | 4.890 ng/ul | 98 |
| 69) Phenanthrene | 17.25 | 178 | 636954 | 55.501 ng/ul | 99 |
| 71) Anthracene | 17.34 | 178 | 42795 | 3.638 ng/ul | 98 |
| 76) Fluoranthene | 19.27 | 202 | 913580 | 64.944 ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 550238 | 44.089 ng/ul | 99 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 308690 | 22.160 ng/ul | 99 |
| 84) Chrysene | 21.43 | 228 | 358780 | 27.497 ng/ul | 99 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 231797 | 19.050 ng/ul | 97 |
| 88) Benzo(k)fluoranthene | 23.05 | 252 | 87596m | 7.688 ng/ul | |
| 92) Dibenzo(a,h)anthracene | 26.07 | 278 | 15476 | 1.219 ng/ul | 93 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W5

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 41 | rVB | 80680 | 90563 | 4.26% | 0.647% |
| 2 | 7.816 | 815 | 821 | 829 | rBB | 97278 | 147817 | 6.96% | 1.056% |
| 3 | 10.616 | 1290 | 1297 | 1302 | rBV | 146680 | 247244 | 11.64% | 1.767% |
| 4 | 10.663 | 1302 | 1305 | 1312 | rVB | 25084 | 37611 | 1.77% | 0.269% |
| 5 | 14.457 | 1942 | 1950 | 1957 | rBV2 | 256747 | 395066 | 18.60% | 2.823% |
| 6 | 14.522 | 1957 | 1961 | 1967 | rVB | 49084 | 68235 | 3.21% | 0.488% |
| 7 | 14.857 | 2012 | 2018 | 2026 | rBV | 49547 | 70045 | 3.30% | 0.501% |
| 8 | 15.510 | 2122 | 2129 | 2136 | rBB | 75270 | 113819 | 5.36% | 0.813% |
| 9 | 15.798 | 2174 | 2178 | 2183 | rVB | 24032 | 33263 | 1.57% | 0.238% |
| 10 | 15.945 | 2198 | 2203 | 2211 | rBB | 26765 | 49506 | 2.33% | 0.354% |
| 11 | 16.510 | 2288 | 2299 | 2303 | rBV3 | 22197 | 38866 | 1.83% | 0.278% |
| 12 | 16.728 | 2330 | 2336 | 2340 | rBV3 | 13803 | 24937 | 1.17% | 0.178% |
| 13 | 16.928 | 2365 | 2370 | 2372 | rBV2 | 18012 | 24480 | 1.15% | 0.175% |
| 14 | 17.028 | 2382 | 2387 | 2393 | rVB | 48637 | 65148 | 3.07% | 0.466% |
| 15 | 17.210 | 2411 | 2418 | 2421 | rBV | 330668 | 492628 | 23.19% | 3.521% |
| 16 | 17.251 | 2421 | 2425 | 2431 | rVV | 1104328 | 1464730 | 68.94% | 10.468% |
| 17 | 17.339 | 2435 | 2440 | 2445 | rBV | 67157 | 87963 | 4.14% | 0.629% |
| 18 | 17.722 | 2500 | 2505 | 2509 | rBV | 20832 | 26499 | 1.25% | 0.189% |
| 19 | 18.075 | 2560 | 2565 | 2570 | rBV | 124121 | 168315 | 7.92% | 1.203% |
| 20 | 18.128 | 2570 | 2574 | 2580 | rVB | 157068 | 216668 | 10.20% | 1.548% |
| 21 | 18.275 | 2592 | 2599 | 2603 | rBV2 | 156116 | 284040 | 13.37% | 2.030% |
| 22 | 18.310 | 2603 | 2605 | 2610 | rVB | 82210 | 95274 | 4.48% | 0.681% |
| 23 | 18.581 | 2645 | 2651 | 2656 | rBV | 99798 | 130366 | 6.14% | 0.932% |
| 24 | 18.822 | 2688 | 2692 | 2697 | rVB2 | 26002 | 30047 | 1.41% | 0.215% |
| 25 | 18.875 | 2697 | 2701 | 2704 | rBV | 25877 | 27852 | 1.31% | 0.199% |
| 26 | 18.916 | 2704 | 2708 | 2716 | rVB | 18121 | 24391 | 1.15% | 0.174% |
| 27 | 18.992 | 2716 | 2721 | 2726 | rBV | 62648 | 90515 | 4.26% | 0.647% |
| 28 | 19.057 | 2726 | 2732 | 2735 | rBV3 | 27288 | 59495 | 2.80% | 0.425% |
| 29 | 19.269 | 2761 | 2768 | 2774 | rBV | 1555430 | 2124517 | 100.00% | 15.183% |
| 30 | 19.322 | 2774 | 2777 | 2780 | rVV | 21240 | 22540 | 1.06% | 0.161% |
| 31 | 19.357 | 2780 | 2783 | 2786 | rVV | 20727 | 26395 | 1.24% | 0.189% |
| 32 | 19.392 | 2786 | 2789 | 2793 | rVB | 29640 | 31853 | 1.50% | 0.228% |
| 33 | 19.516 | 2803 | 2810 | 2817 | rBV2 | 38422 | 72650 | 3.42% | 0.519% |
| 34 | 19.598 | 2817 | 2824 | 2826 | rVV2 | 248246 | 386277 | 18.18% | 2.761% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W5

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 19.633 | 2826 | 2830 | 2836 | rVV | 926733 | 1244348 | 58.57% | 8.893% |
| 36 | 19.698 | 2836 | 2841 | 2846 | rVV | 77956 | 101840 | 4.79% | 0.728% |
| 37 | 19.810 | 2850 | 2860 | 2864 | rVV | 93062 | 152811 | 7.19% | 1.092% |
| 38 | 19.845 | 2864 | 2866 | 2872 | rVB4 | 16902 | 26767 | 1.26% | 0.191% |
| 39 | 19.963 | 2878 | 2886 | 2891 | rBV2 | 112771 | 199221 | 9.38% | 1.424% |
| 40 | 20.028 | 2891 | 2897 | 2901 | rBV5 | 13879 | 26998 | 1.27% | 0.193% |
| 41 | 20.104 | 2901 | 2910 | 2911 | rBV2 | 162379 | 263418 | 12.40% | 1.883% |
| 42 | 20.122 | 2911 | 2913 | 2918 | rVB | 162299 | 206406 | 9.72% | 1.475% |
| 43 | 20.222 | 2925 | 2930 | 2934 | rBV | 101801 | 136561 | 6.43% | 0.976% |
| 44 | 20.263 | 2934 | 2937 | 2944 | rVV2 | 60657 | 131681 | 6.20% | 0.941% |
| 45 | 20.316 | 2944 | 2946 | 2950 | rVB | 41511 | 44180 | 2.08% | 0.316% |
| 46 | 20.380 | 2950 | 2957 | 2961 | rVB4 | 115132 | 174057 | 8.19% | 1.244% |
| 47 | 20.433 | 2961 | 2966 | 2969 | rBV2 | 37971 | 70667 | 3.33% | 0.505% |
| 48 | 20.469 | 2969 | 2972 | 2975 | rVB2 | 32907 | 38774 | 1.83% | 0.277% |
| 49 | 20.533 | 2980 | 2983 | 2988 | rVV3 | 37660 | 57315 | 2.70% | 0.410% |
| 50 | 20.580 | 2989 | 2991 | 2997 | rVB6 | 11960 | 21813 | 1.03% | 0.156% |
| 51 | 20.698 | 3008 | 3011 | 3016 | rVB3 | 75592 | 106216 | 5.00% | 0.759% |
| 52 | 20.751 | 3016 | 3020 | 3024 | rVB3 | 22096 | 33196 | 1.56% | 0.237% |
| 53 | 20.839 | 3030 | 3035 | 3038 | rBV4 | 59178 | 83725 | 3.94% | 0.598% |
| 54 | 20.904 | 3044 | 3046 | 3053 | rVB5 | 23632 | 32629 | 1.54% | 0.233% |
| 55 | 21.039 | 3065 | 3069 | 3072 | rBV | 99642 | 123670 | 5.82% | 0.884% |
| 56 | 21.075 | 3072 | 3075 | 3079 | rVV | 146959 | 185380 | 8.73% | 1.325% |
| 57 | 21.116 | 3079 | 3082 | 3086 | rVV | 131342 | 150885 | 7.10% | 1.078% |
| 58 | 21.163 | 3086 | 3090 | 3099 | rVB2 | 38339 | 70149 | 3.30% | 0.501% |
| 59 | 21.280 | 3105 | 3110 | 3115 | rBV | 32720 | 47501 | 2.24% | 0.339% |
| 60 | 21.433 | 3133 | 3136 | 3141 | rVB | 683935 | 815516 | 38.39% | 5.828% |
| 61 | 21.510 | 3145 | 3149 | 3153 | rVB2 | 20678 | 27012 | 1.27% | 0.193% |
| 62 | 21.722 | 3181 | 3185 | 3189 | rBV2 | 54000 | 73933 | 3.48% | 0.528% |
| 63 | 21.851 | 3203 | 3207 | 3211 | rBV2 | 26100 | 33211 | 1.56% | 0.237% |
| 64 | 21.892 | 3211 | 3214 | 3217 | rBV | 17355 | 24465 | 1.15% | 0.175% |
| 65 | 21.951 | 3218 | 3224 | 3228 | rVV | 79103 | 128594 | 6.05% | 0.919% |
| 66 | 22.004 | 3229 | 3233 | 3238 | rVB | 61400 | 93372 | 4.39% | 0.667% |
| 67 | 22.074 | 3240 | 3245 | 3249 | rBV2 | 41654 | 72625 | 3.42% | 0.519% |
| 68 | 22.157 | 3255 | 3259 | 3271 | rVB3 | 50935 | 136745 | 6.44% | 0.977% |
| 69 | 22.257 | 3272 | 3276 | 3282 | rVB | 31043 | 48687 | 2.29% | 0.348% |
| 70 | 22.422 | 3299 | 3304 | 3308 | rBV4 | 22063 | 32944 | 1.55% | 0.235% |
| 71 | 22.933 | 3387 | 3391 | 3396 | rBV | 15005 | 22350 | 1.05% | 0.160% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004295.D
Acq On : 29 Dec 2018 11:28
Operator : JU/SJ
Sample : J6428-12
Misc : GCMS Confirmation
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41W5

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 23.016 | 3398 | 3405 | 3410 | rBV | 272515 | 633236 | 29.81% | 4.525% |
| 73 | 23.121 | 3420 | 3423 | 3430 | rVB | 19471 | 35384 | 1.67% | 0.253% |
| 74 | 23.192 | 3430 | 3435 | 3439 | rBV | 20793 | 34321 | 1.62% | 0.245% |
| 75 | 23.321 | 3453 | 3457 | 3468 | rVB3 | 18952 | 43251 | 2.04% | 0.309% |
| 76 | 23.510 | 3484 | 3489 | 3499 | rVB2 | 101944 | 189107 | 8.90% | 1.351% |
| 77 | 23.716 | 3517 | 3524 | 3531 | rBV | 268755 | 507976 | 23.91% | 3.630% |
| 78 | 24.180 | 3598 | 3603 | 3615 | rVB5 | 15513 | 40363 | 1.90% | 0.288% |

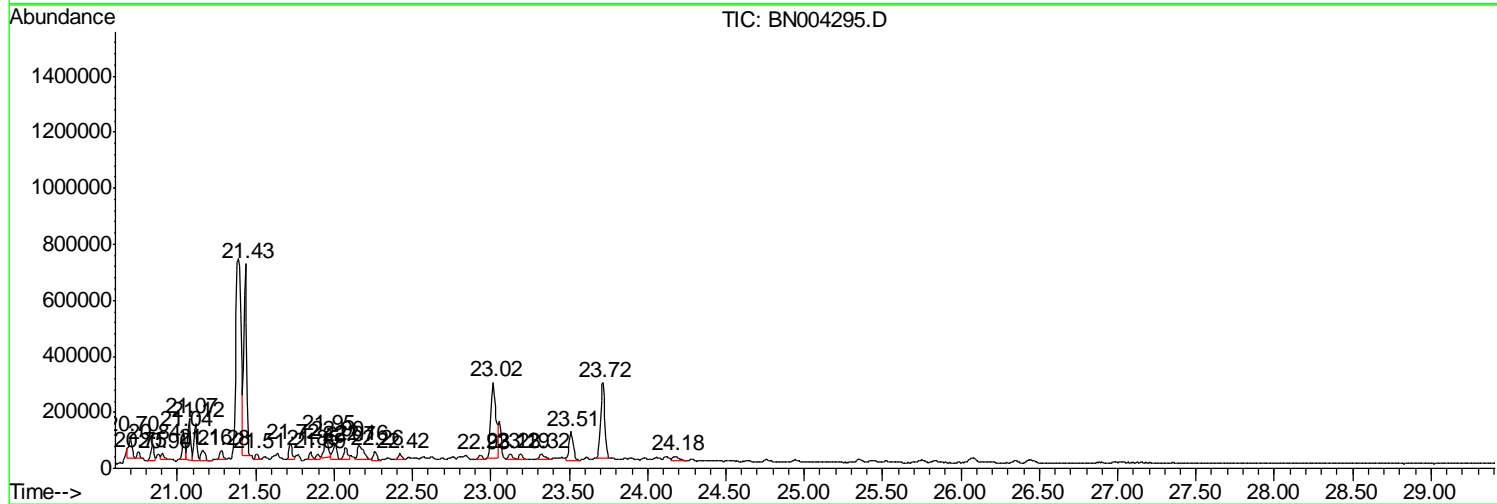
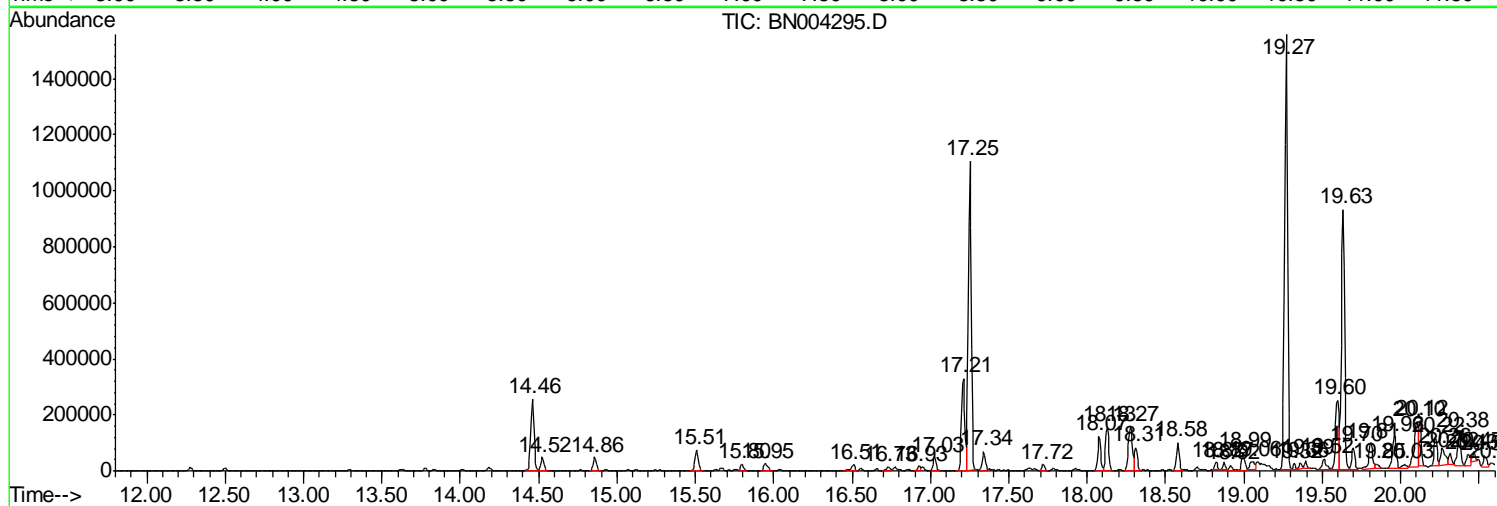
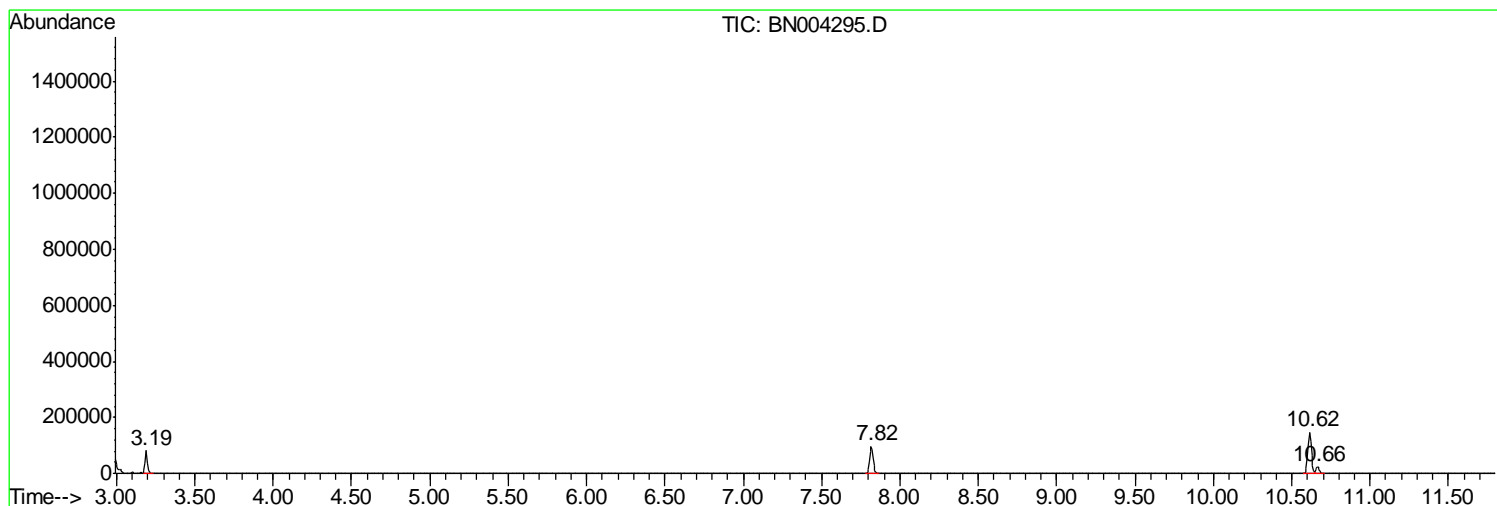
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Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W5

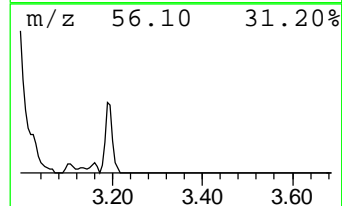
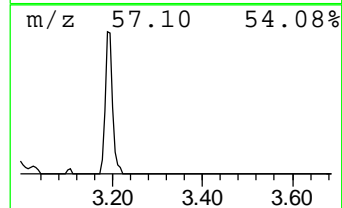
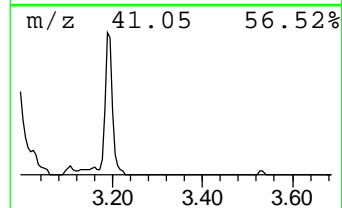
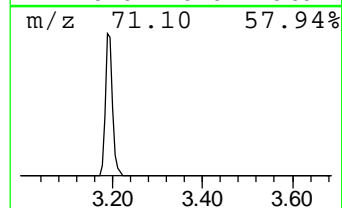
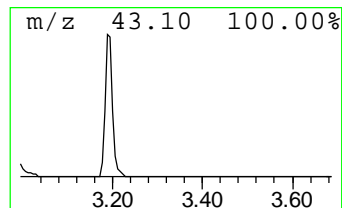
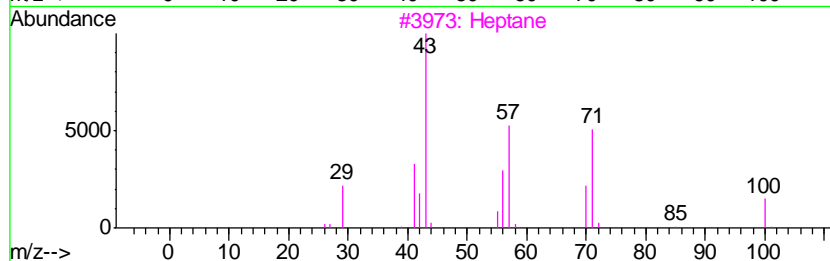
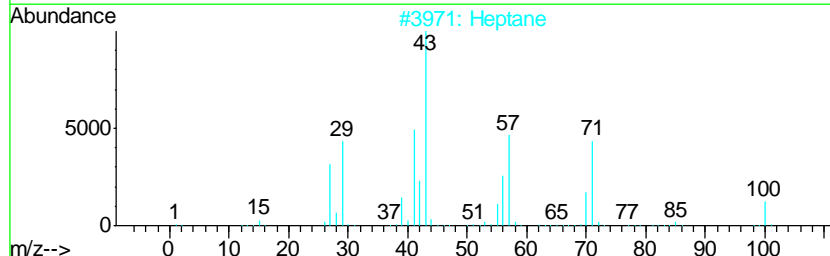
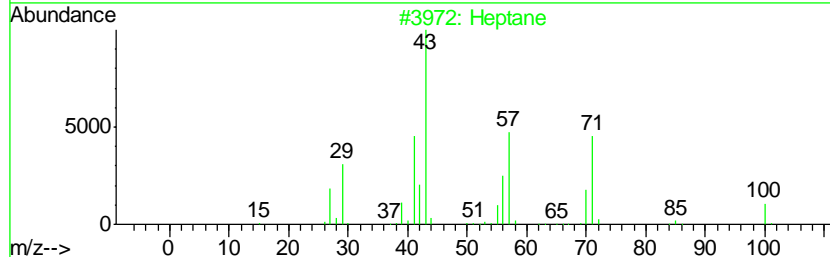
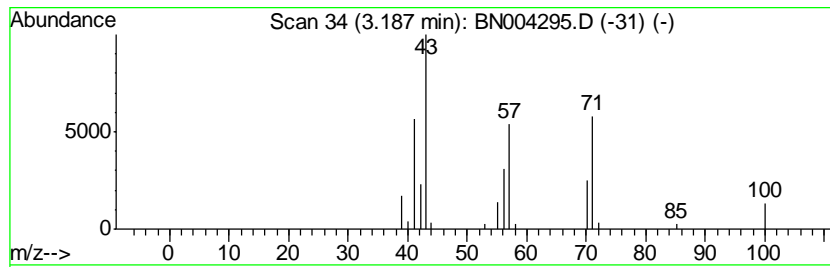
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 12.25 ng/ul | 90563 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W5

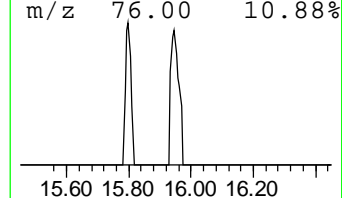
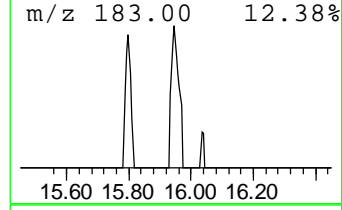
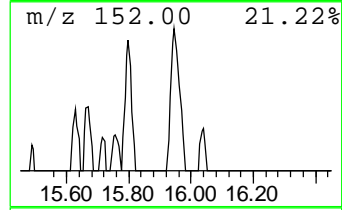
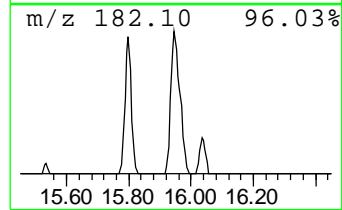
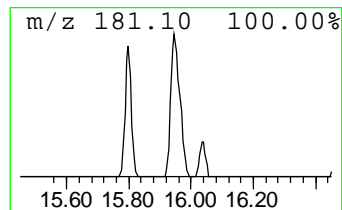
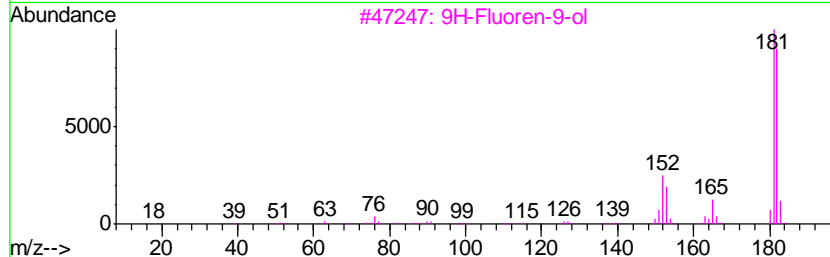
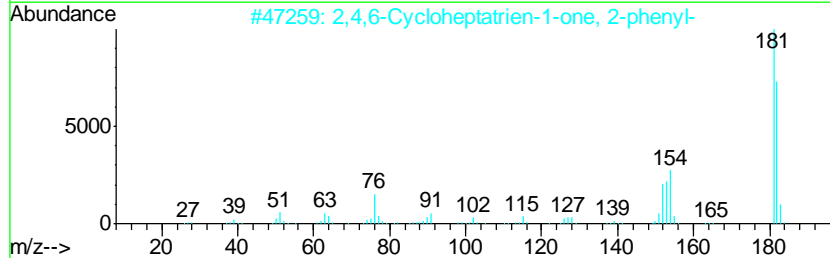
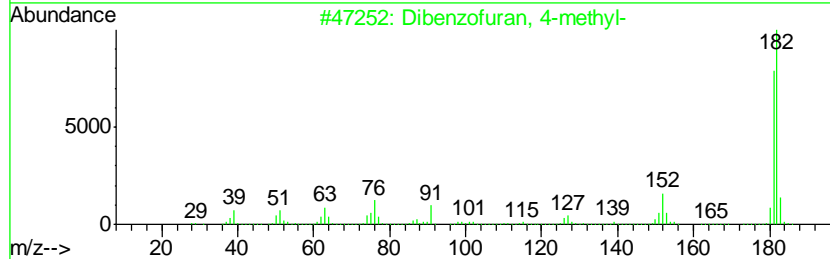
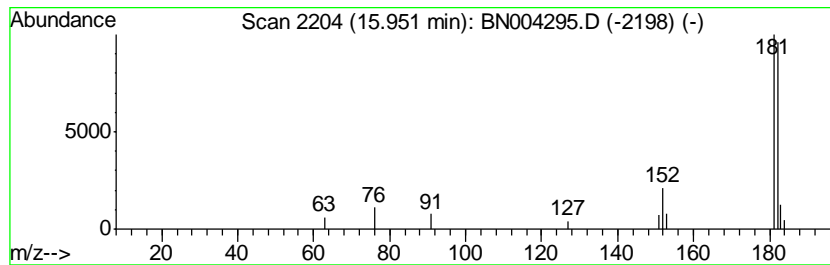
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 15.95 | 2.01 ng/ul | 49506 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 87 |
| 2 | | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 80 |
| 3 | | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 78 |
| 4 | | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 72 |
| 5 | | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W5

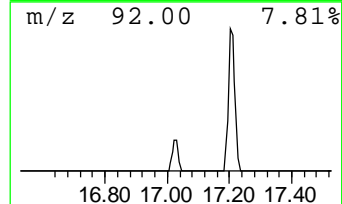
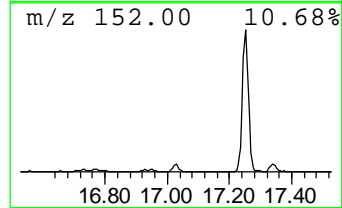
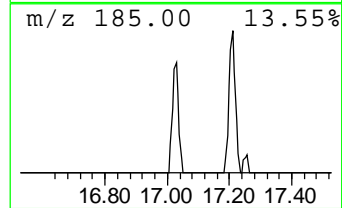
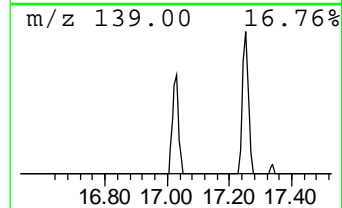
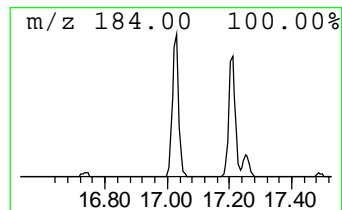
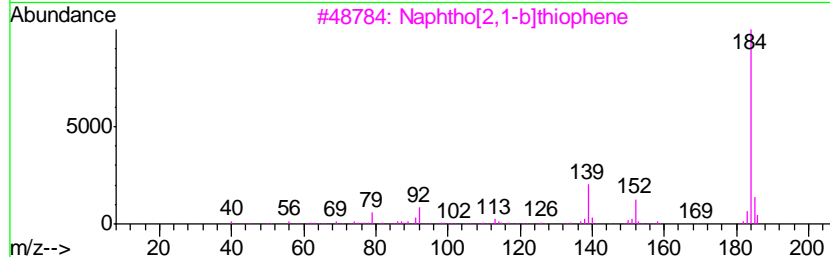
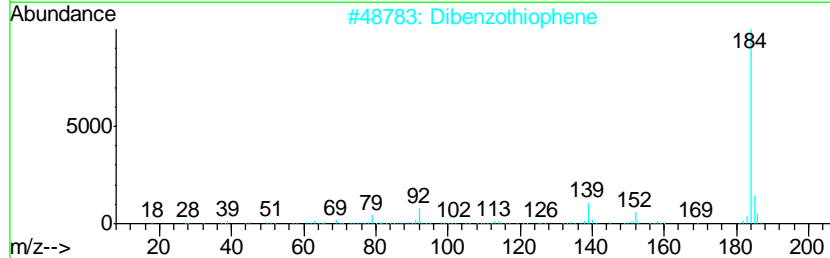
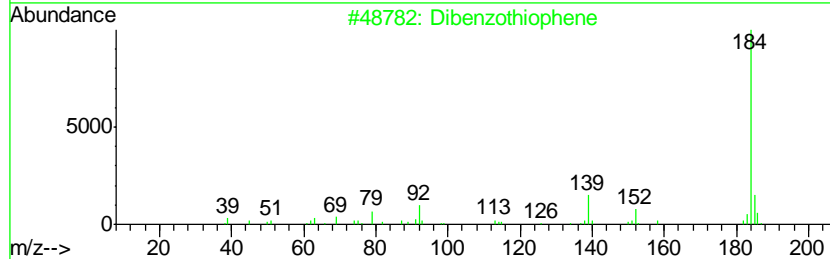
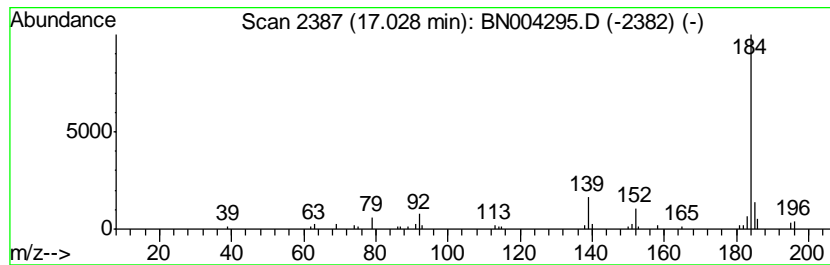
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 Dibenzothiophene Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 17.03 | 2.64 ng/ul | 65148 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 96 |
| 2 | | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 95 |
| 3 | | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 95 |
| 4 | | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 94 |
| 5 | | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W5

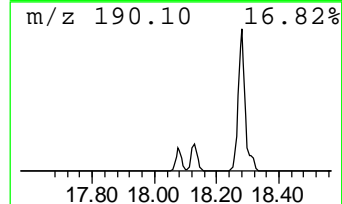
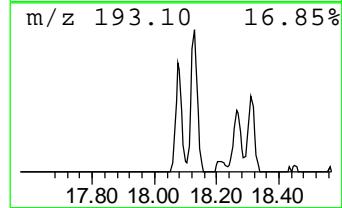
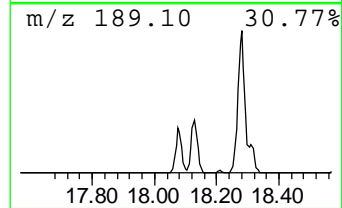
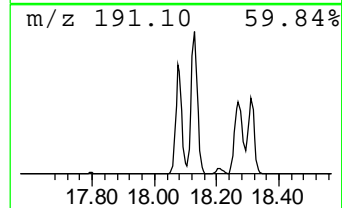
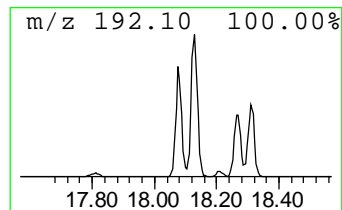
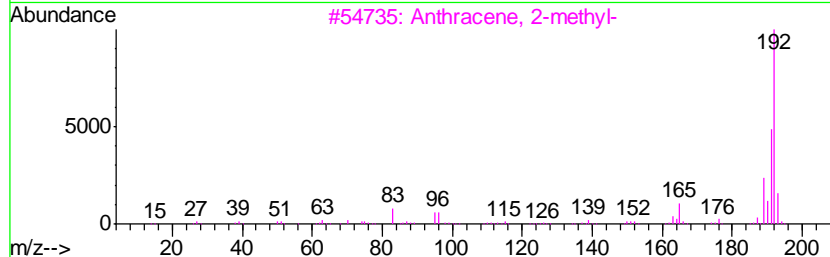
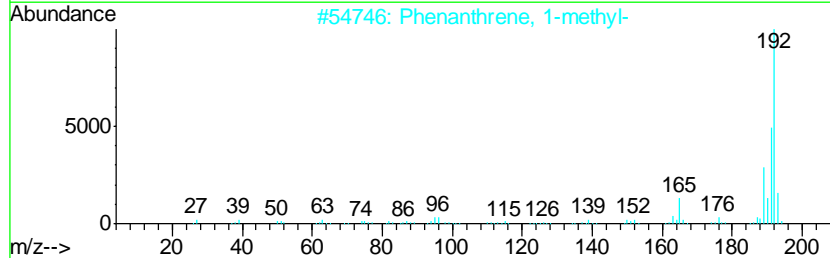
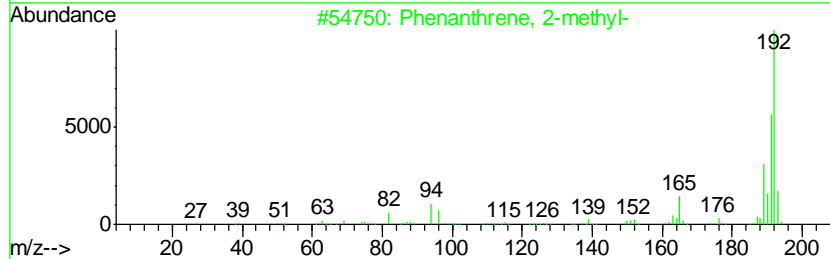
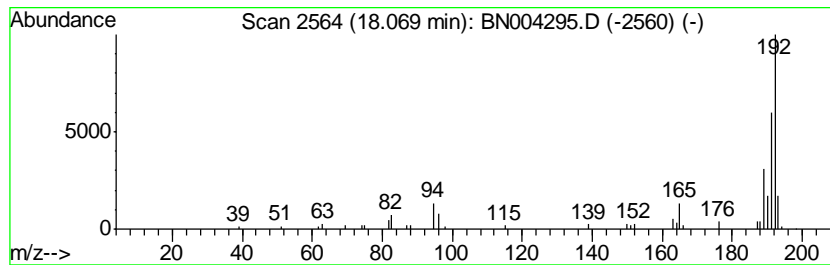
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.07 | 6.83 ng/ul | 168315 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 5 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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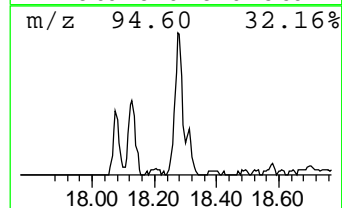
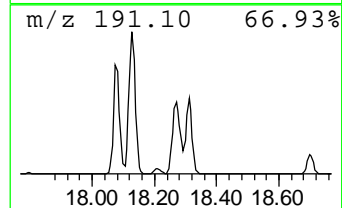
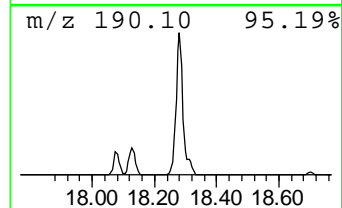
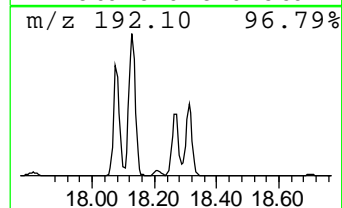
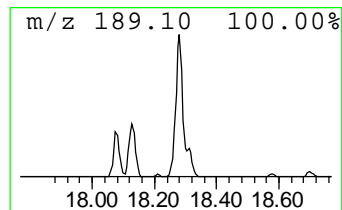
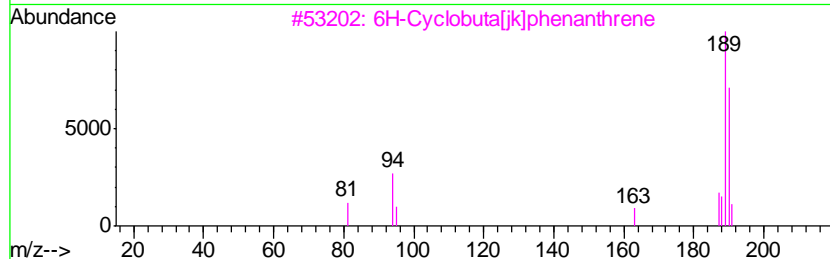
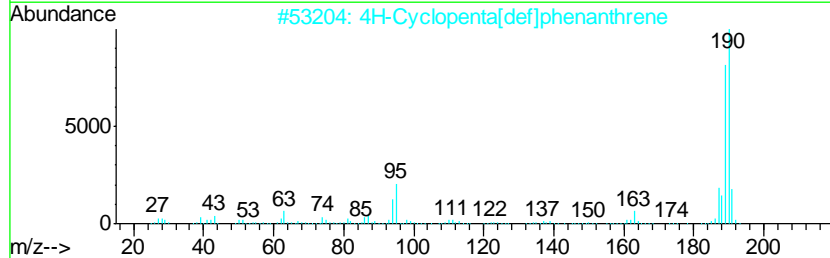
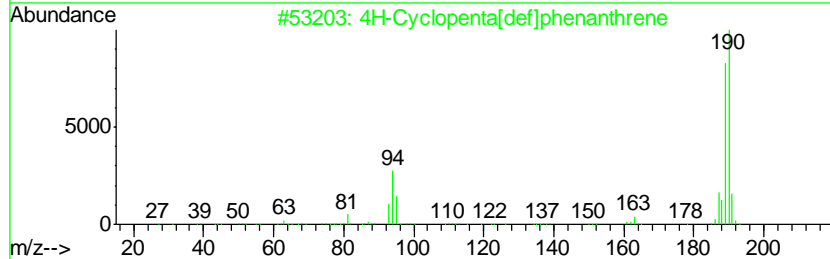
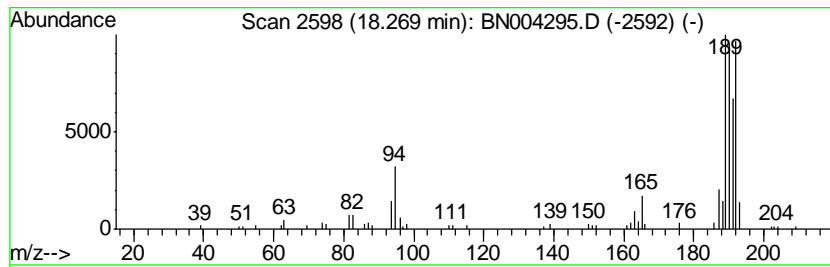
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|-------------|--------|------------------|-------|
| 18.27 | 11.53 ng/ul | 284040 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 76 |
| 2 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 64 |
| 3 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 53 |
| 4 | | Thiophene-3-carboxaldehyde, 5-ch... | 190 | C5H4BClO3S | 036155-87-0 | 47 |
| 5 | | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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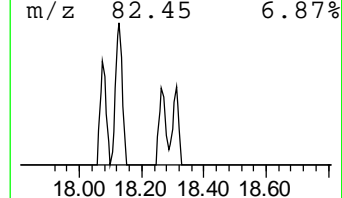
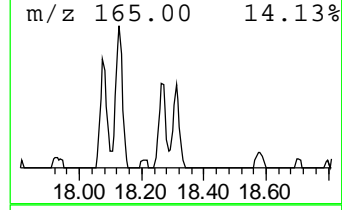
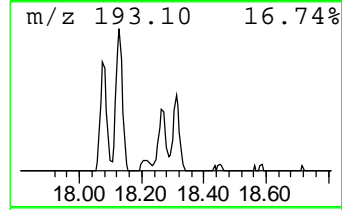
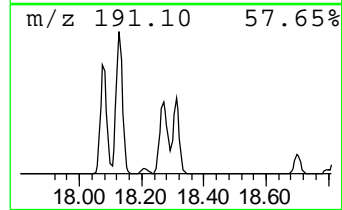
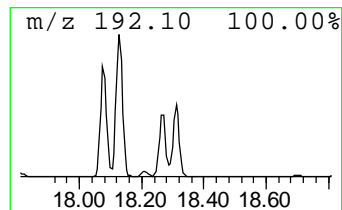
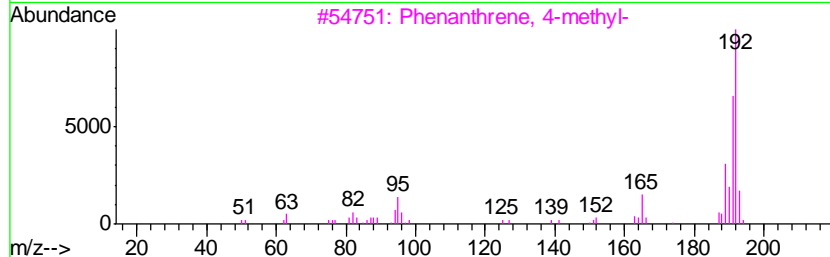
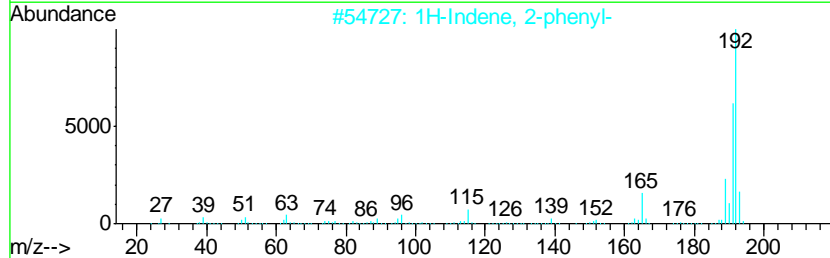
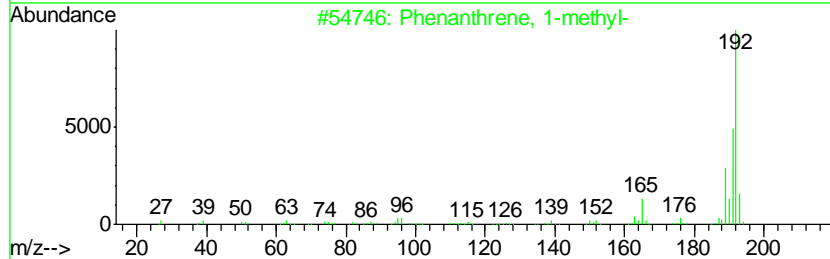
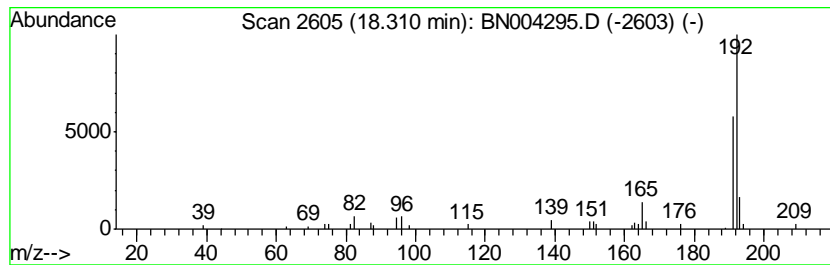
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.31 | 3.87 ng/ul | 95274 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 2 | | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 91 |
| 3 | | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 91 |
| 4 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 5 | | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
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 ClientSampleID :
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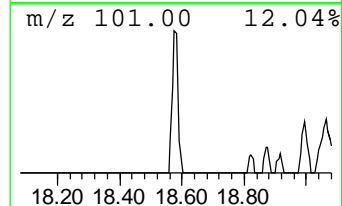
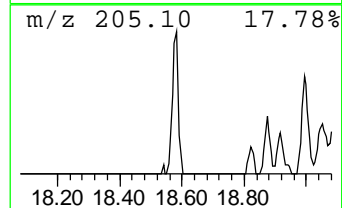
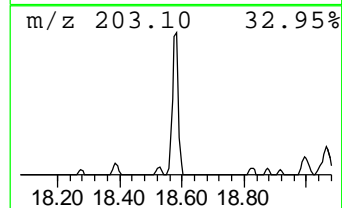
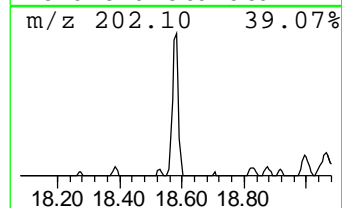
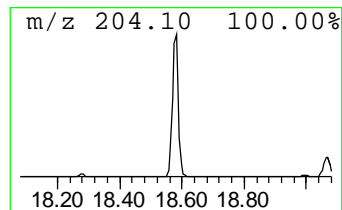
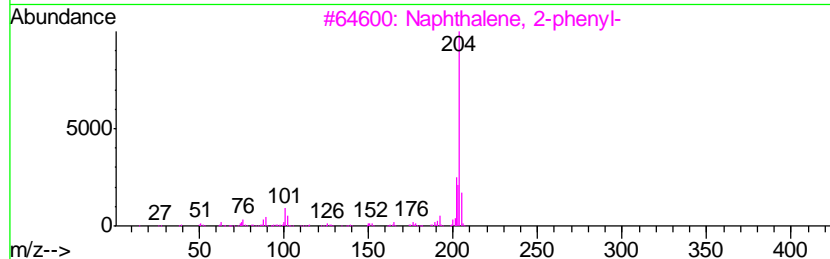
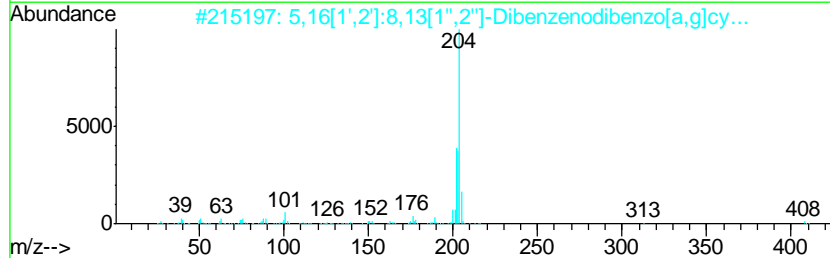
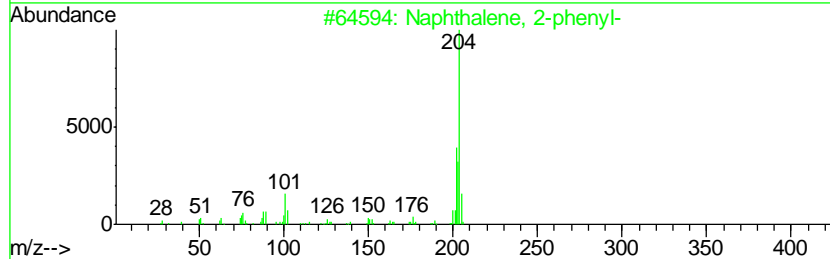
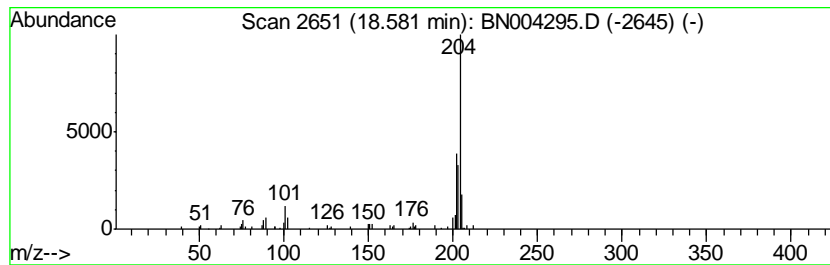
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.58 | 5.29 ng/ul | 130366 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 92 |
| 2 | | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 91 |
| 3 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 89 |
| 4 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 5 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
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 ALS Vial : 31 Sample Multiplier: 1

Instrument :
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 ClientSampleID :
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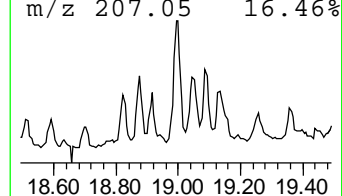
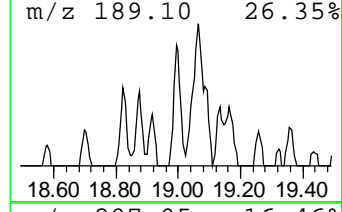
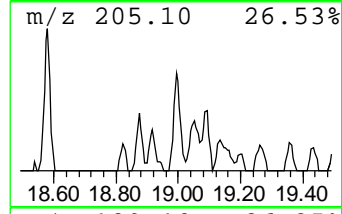
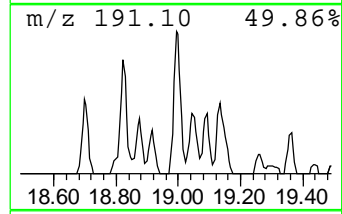
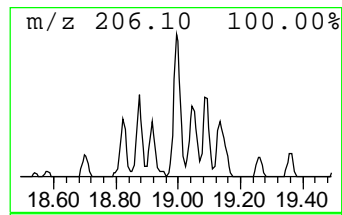
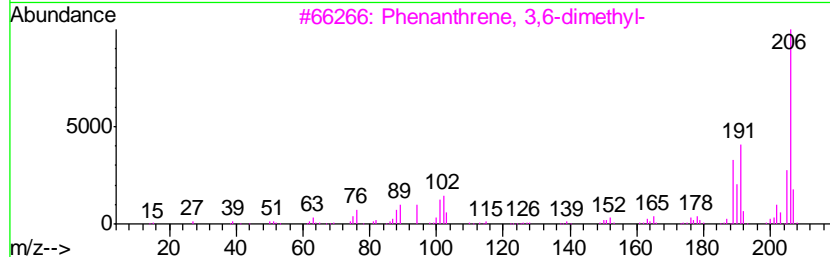
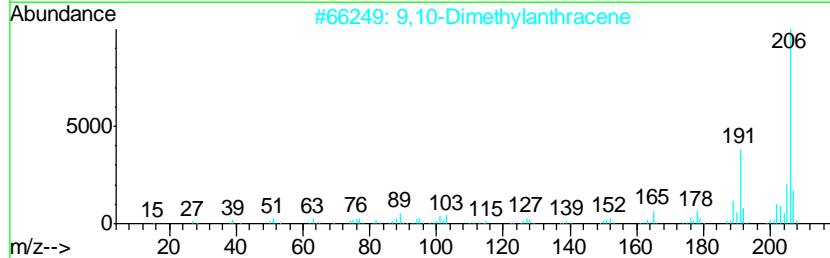
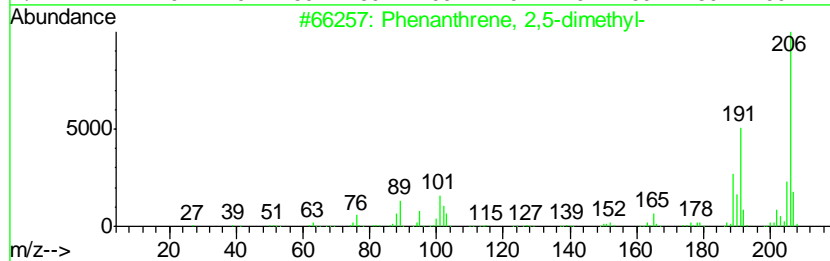
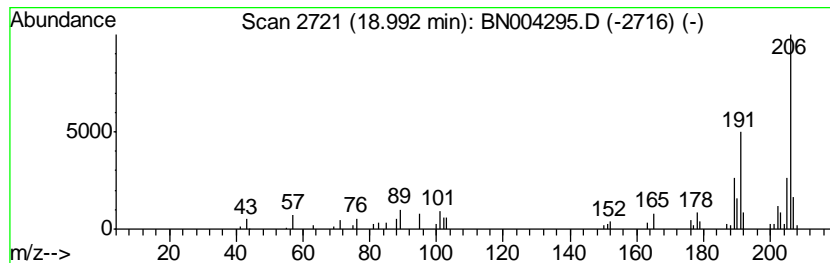
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.99 | 3.67 ng/ul | 90515 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | | 9,10-Dimethylantracene | 206 | C16H14 | 000781-43-1 | 93 |
| 3 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |
| 4 | | 9,10-Dimethylantracene | 206 | C16H14 | 000781-43-1 | 93 |
| 5 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
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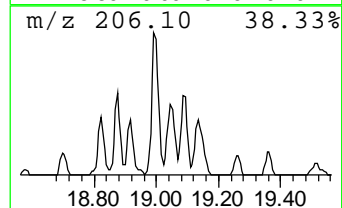
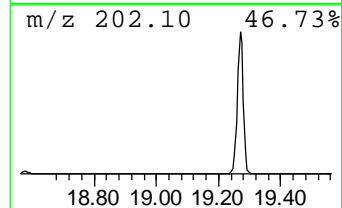
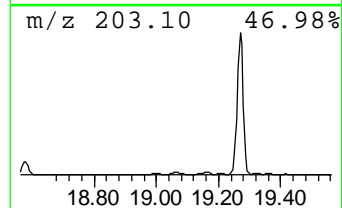
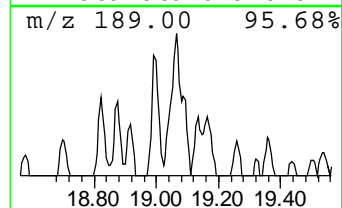
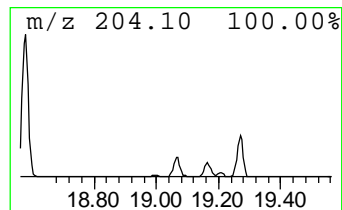
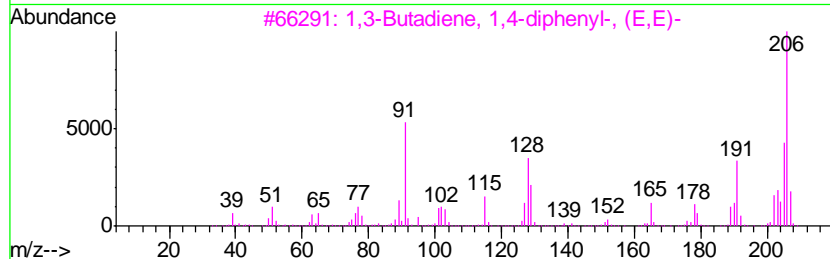
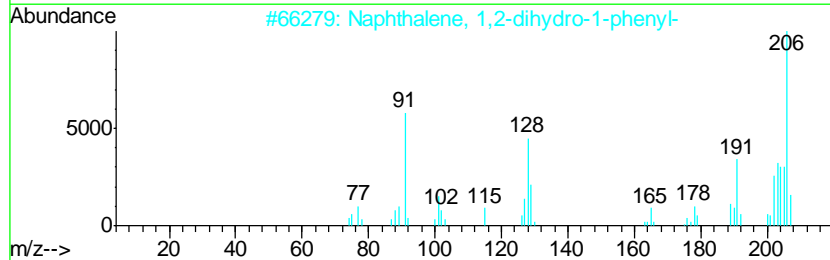
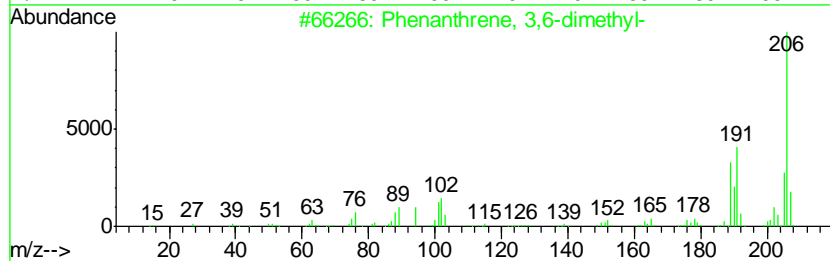
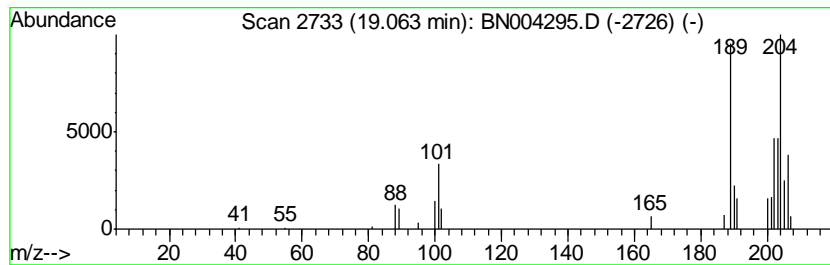
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 10 unknown-01 Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 19.06 | 2.42 ng/ul | 59495 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 46 |
| 2 | | Naphthalene, 1,2-dihydro-1-phenyl- | 206 | C16H14 | 016606-46-5 | 42 |
| 3 | | 1,3-Butadiene, 1,4-diphenyl-, (E...) | 206 | C16H14 | 000538-81-8 | 42 |
| 4 | | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 42 |
| 5 | | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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 Acq On : 29 Dec 2018 11:28
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Instrument :
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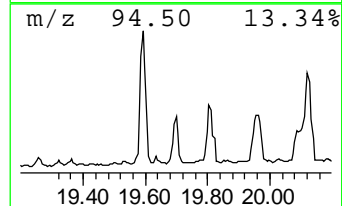
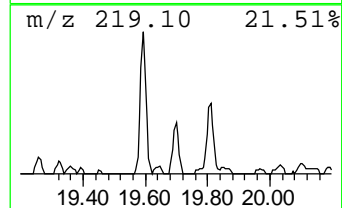
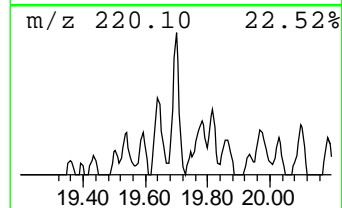
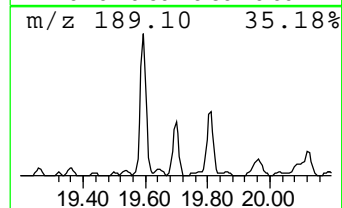
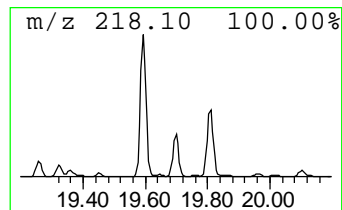
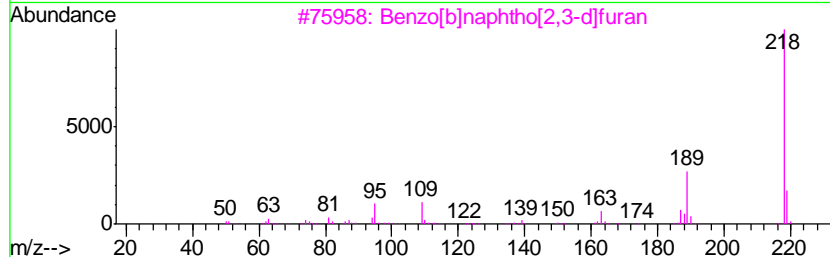
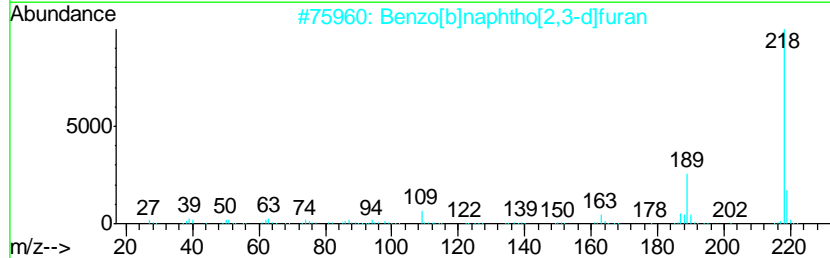
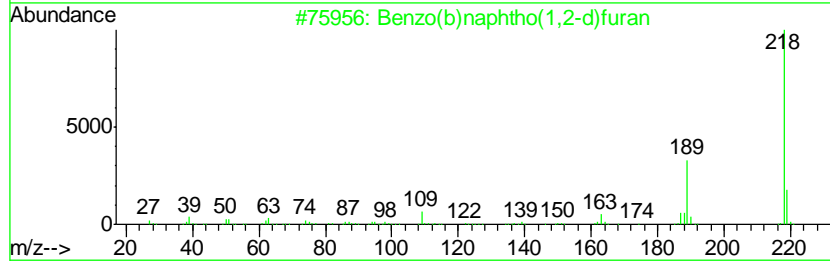
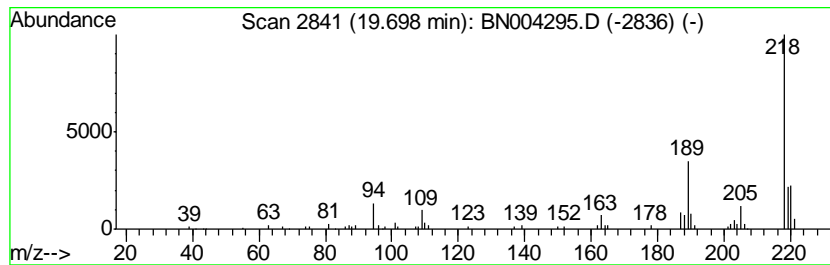
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 11 Benzo(b)naphtho(1,2-d)furan Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.70 | 2.50 ng/ul | 101840 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo(b)naphtho(1,2-d)furan | 218 | C16H10O | 000205-39-0 | 94 |
| 2 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |
| 3 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |
| 4 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |
| 5 | | Indeno[2,1-b]chromene, | 218 | C16H10O | 000243-24-3 | 92 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W5

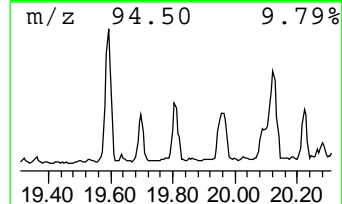
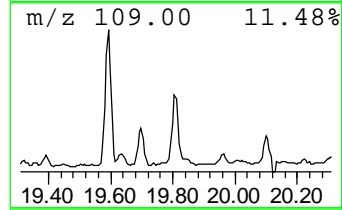
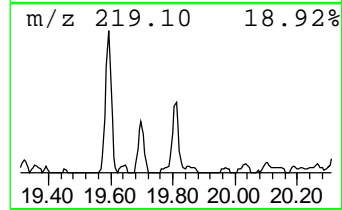
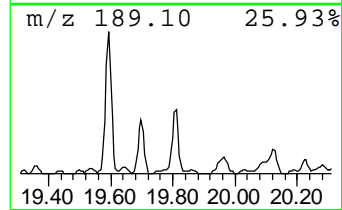
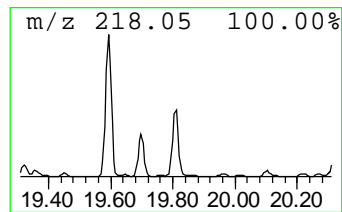
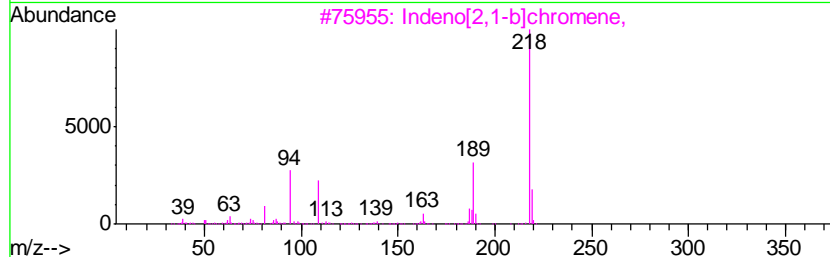
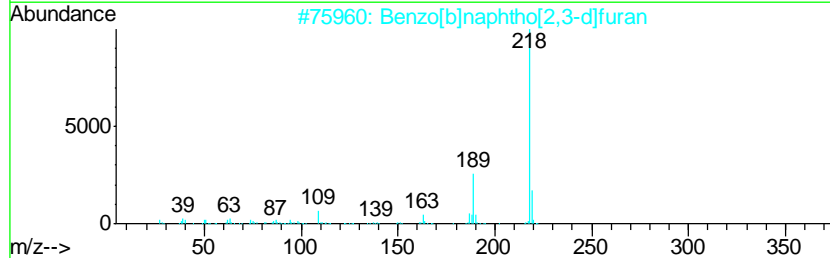
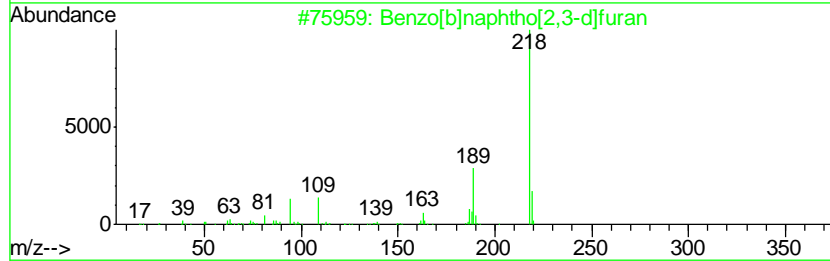
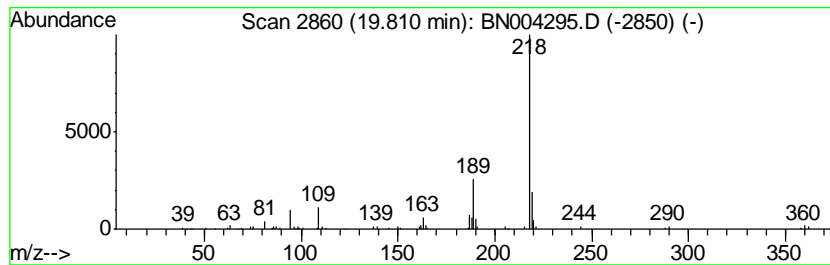
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 12 Benzo[b]naphtho[2,3-d]furan Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.81 | 3.75 ng/ul | 152811 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 97 |
| 2 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 94 |
| 3 | | Indeno[2,1-b]chromene, | 218 | C16H10O | 000243-24-3 | 93 |
| 4 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |
| 5 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W5

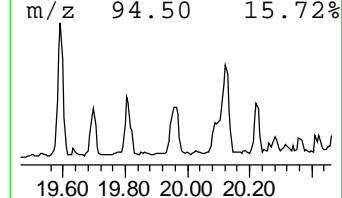
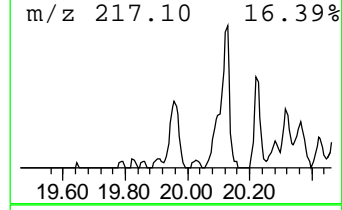
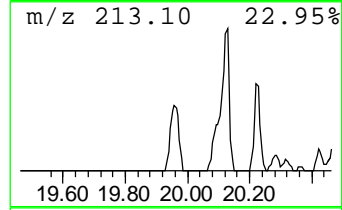
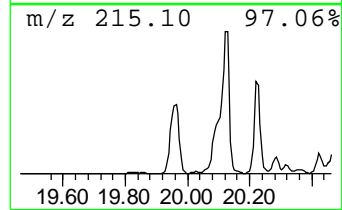
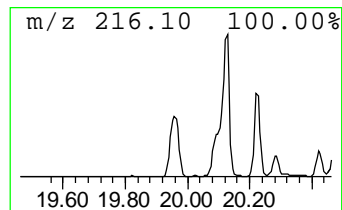
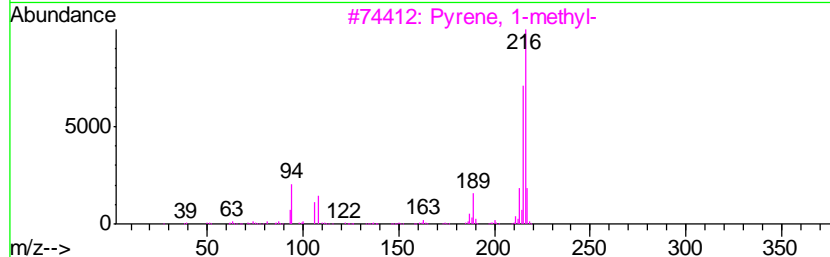
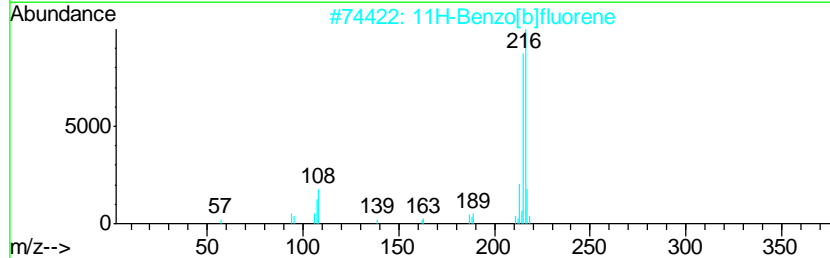
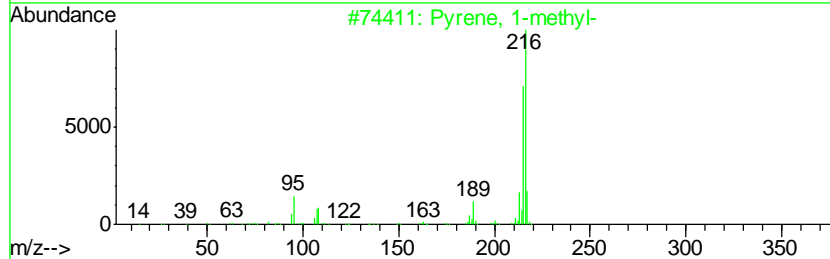
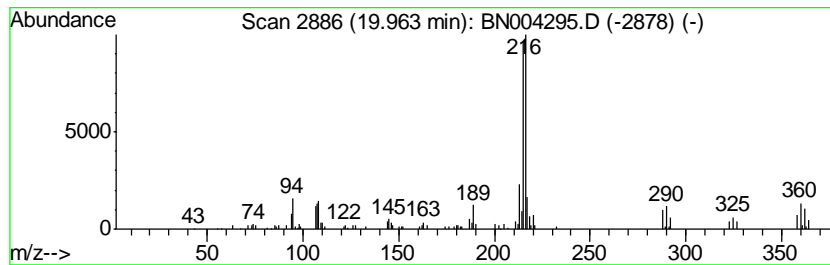
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 13 Pyrene, 1-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.96 | 4.89 ng/ul | 199221 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 95 |
| 2 | | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 92 |
| 3 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 4 | | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 83 |
| 5 | | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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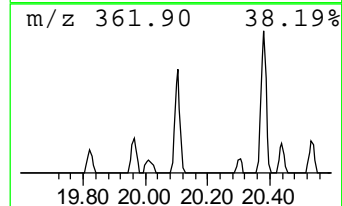
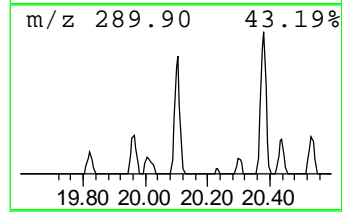
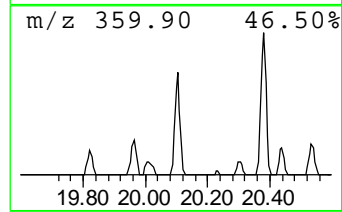
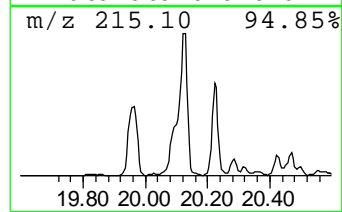
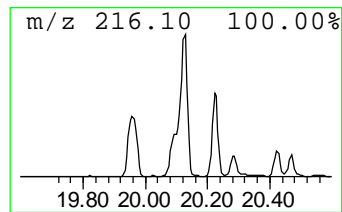
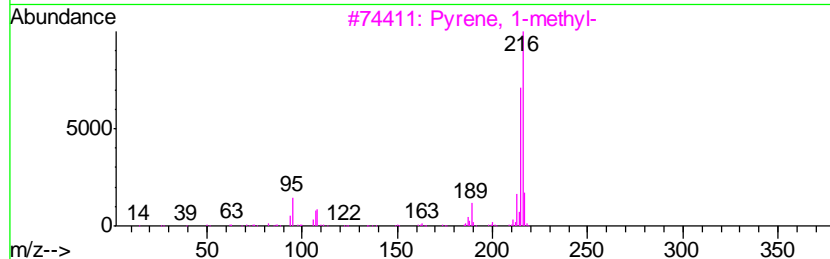
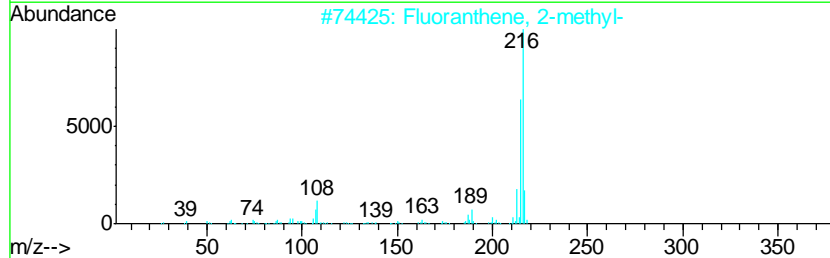
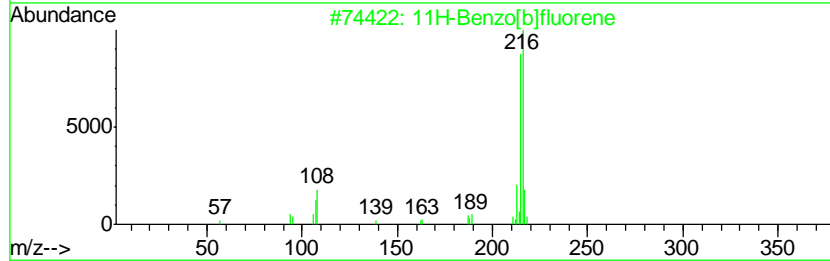
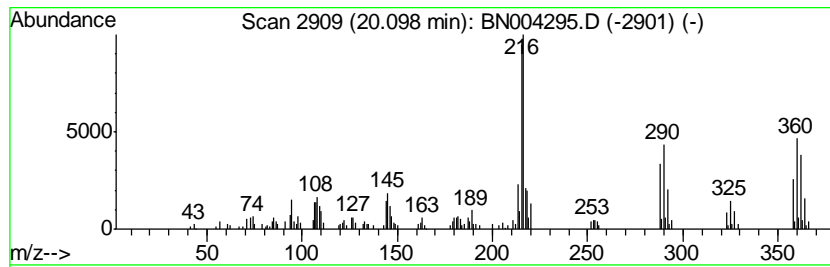
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.10 | 6.46 ng/ul | 263418 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 89 |
| 2 | | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 83 |
| 3 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 66 |
| 4 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 53 |
| 5 | | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 46 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
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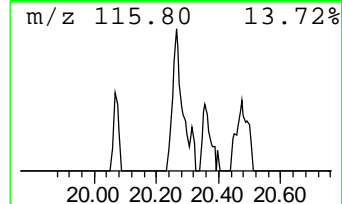
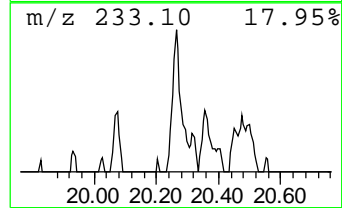
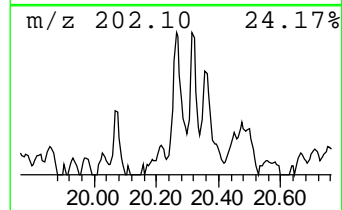
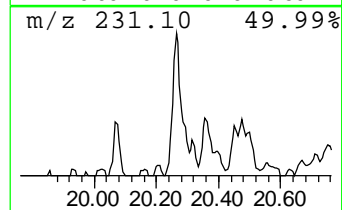
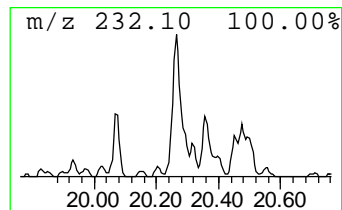
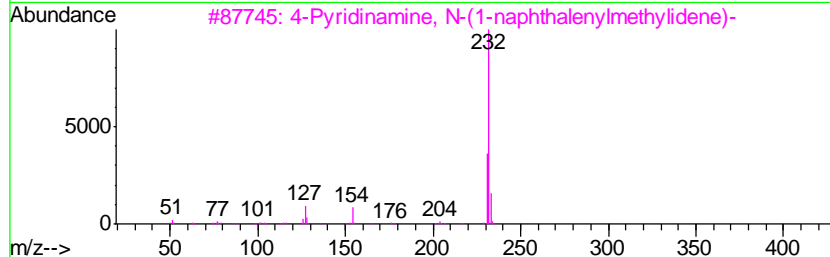
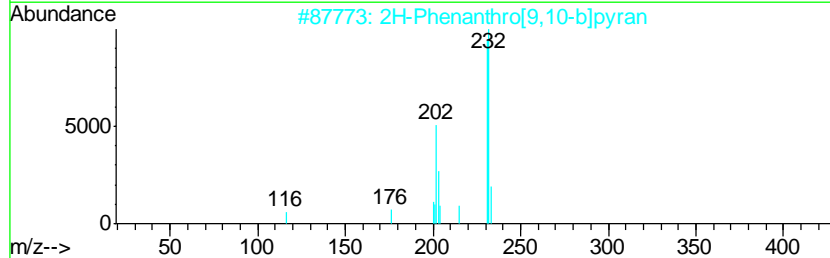
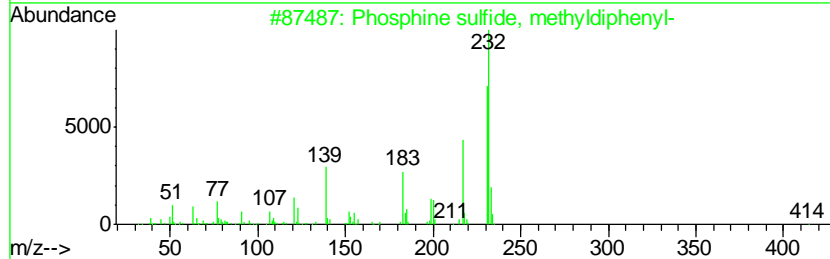
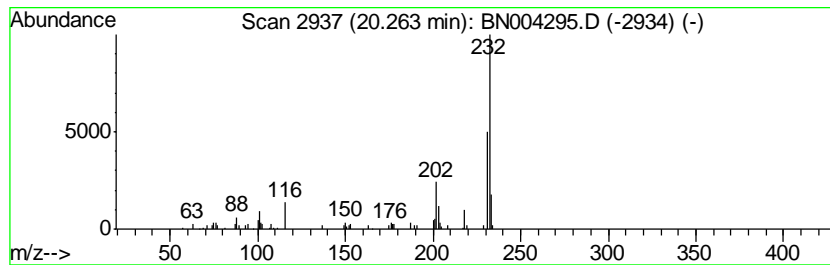
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 17 Phosphine sulfide, methyl-di... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.26 | 3.23 ng/ul | 131681 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Phosphine sulfide, methyl-diphenyl- | 232 | C13H13PS | 013639-74-2 | 53 |
| 2 | | 2H-Phenanthro[9,10-b]pyran | 232 | C17H12O | 000217-67-4 | 50 |
| 3 | | 4-Pyridinamine, N-(1-naphthaleny... | 232 | C16H12N2 | 1000317-32-7 | 50 |
| 4 | | 1-Pyrenemethanol | 232 | C17H12O | 024463-15-8 | 50 |
| 5 | | Azulene, 4,8-dimethyl-6-phenyl- | 232 | C18H16 | 042758-88-3 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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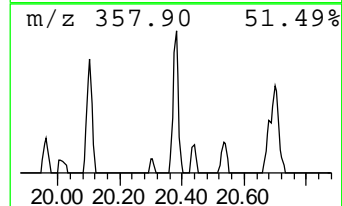
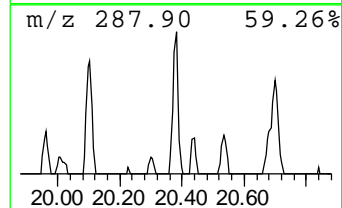
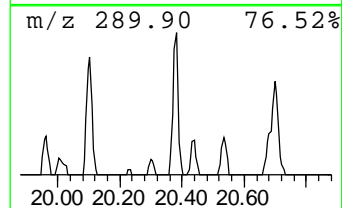
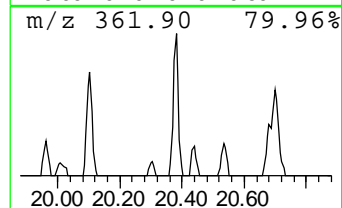
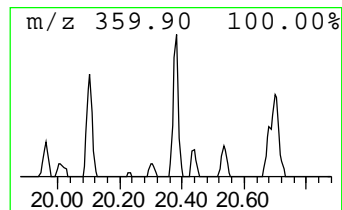
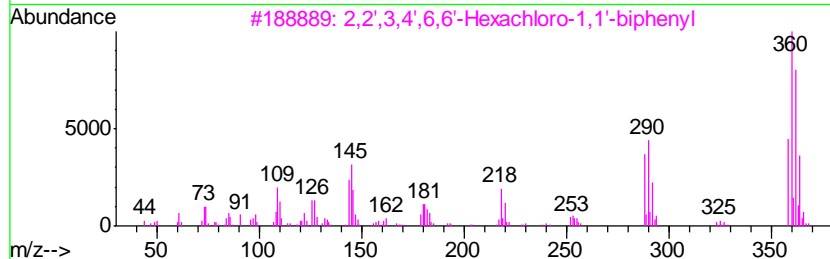
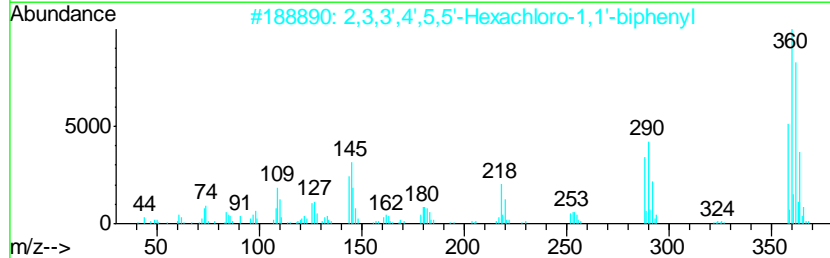
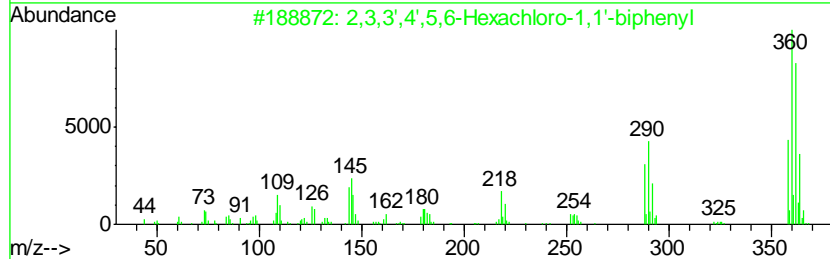
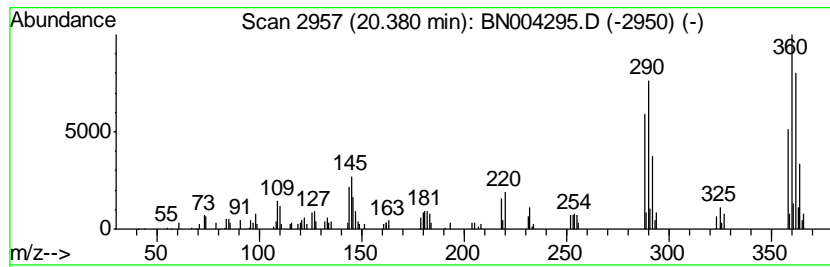
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 18 2,3,3',4',5,6-Hexachloro-1,... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.38 | 4.27 ng/ul | 174057 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 2,3,3',4',5,6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-44-9 | 99 |
| 2 | | 2,3,3',4',5,5'-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 039635-34-2 | 99 |
| 3 | | 2,2',3,4',6,6'-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 068194-08-1 | 99 |
| 4 | | 2,2',3,5,6,6'-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 068194-09-2 | 99 |
| 5 | | 2,3,3',4,5',6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-43-8 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W5

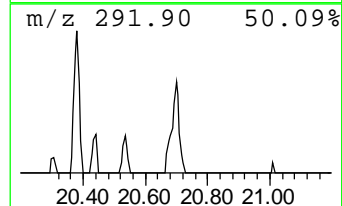
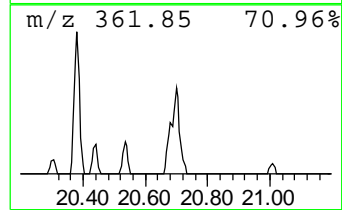
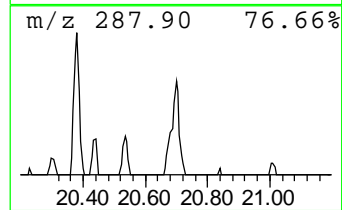
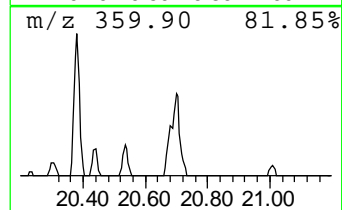
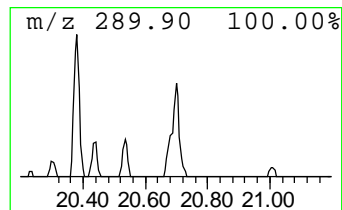
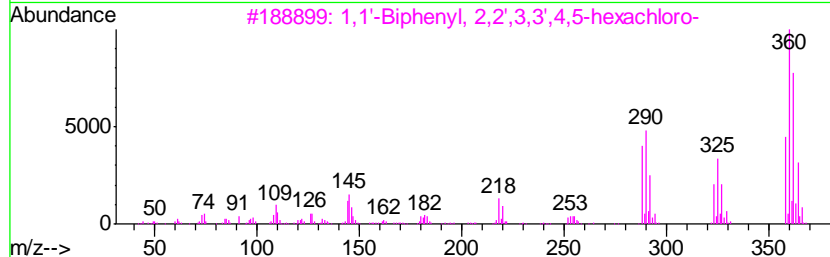
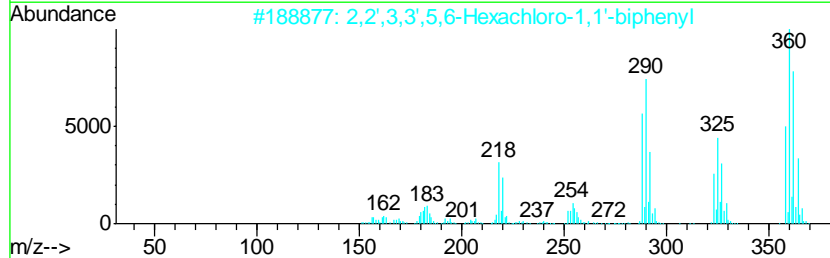
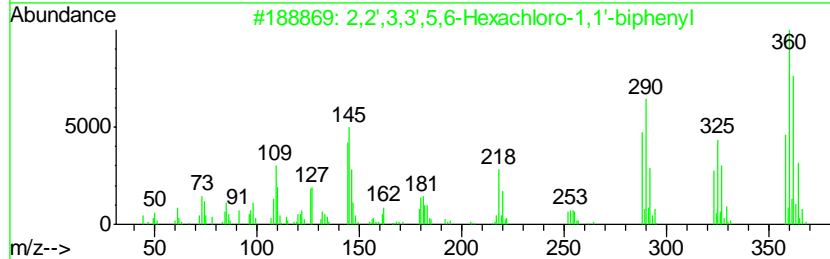
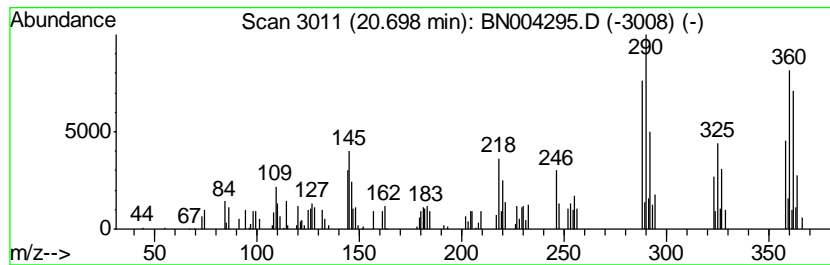
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 19 2,2',3,3',5,6-Hexachloro-1,... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.70 | 2.60 ng/ul | 106216 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 2,2',3,3',5,6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 052704-70-8 | 99 |
| 2 | | 2,2',3,3',5,6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 052704-70-8 | 99 |
| 3 | | 1,1'-Biphenyl, 2,2',3,3',4,5-hex... | 358 | C12H4Cl6 | 055215-18-4 | 99 |
| 4 | | 1,1'-Biphenyl, 2,2',3,3',4,4'-he... | 358 | C12H4Cl6 | 038380-07-3 | 99 |
| 5 | | 1,1'-Biphenyl, 2,2',3,5,5',6-hex... | 358 | C12H4Cl6 | 052663-63-5 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W5

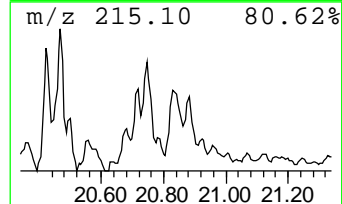
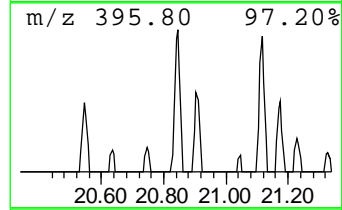
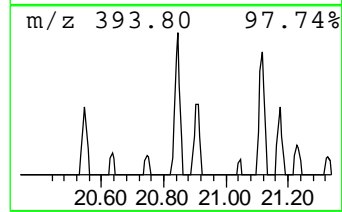
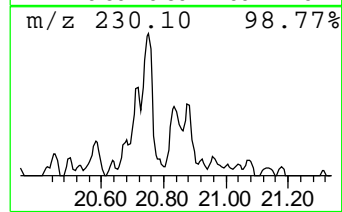
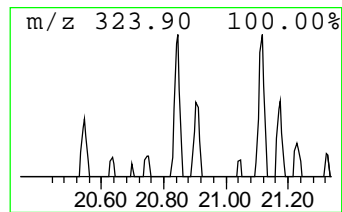
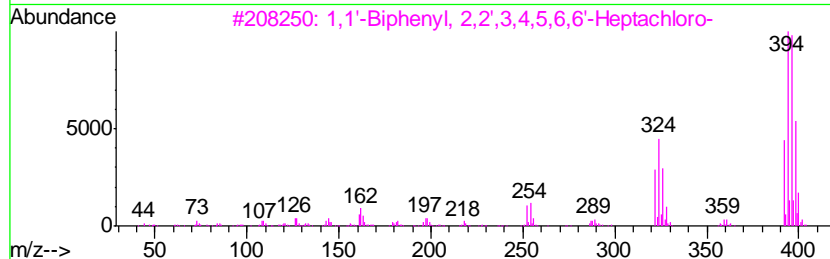
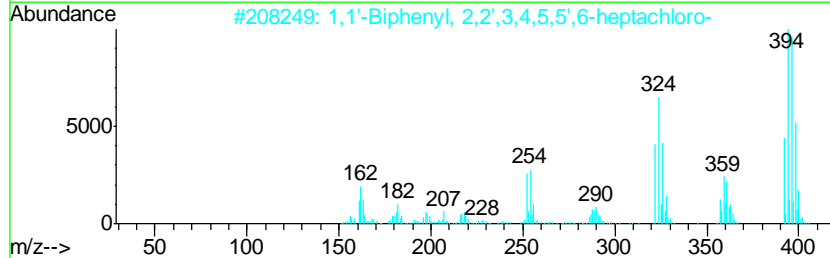
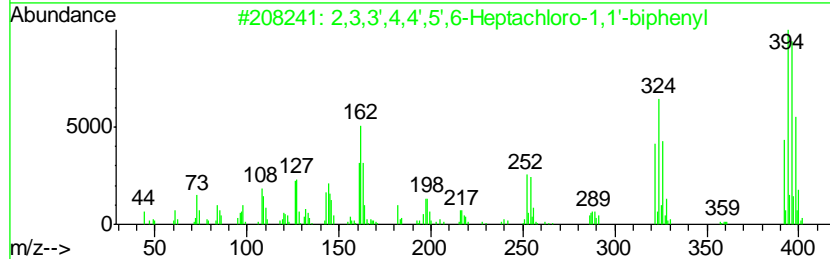
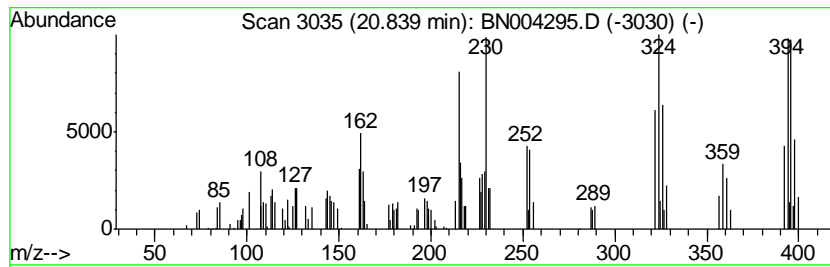
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 20 2,3,3',4,4',5',6-Heptachlor... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 20.84 | 2.05 ng/ul | 83725 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 2,3,3',4,4',5',6-Heptachloro-1,1... | 392 | C12H3Cl7 | 074472-50-7 | 99 |
| 2 | | 1,1'-Biphenyl, 2,2',3,4,5,5',6-h... | 392 | C12H3Cl7 | 052712-05-7 | 99 |
| 3 | | 1,1'-Biphenyl, 2,2',3,4,5,6,6'-H... | 392 | C12H3Cl7 | 074472-49-4 | 99 |
| 4 | | 1,1'-Biphenyl, 2,2',3,4',5,5',6-... | 392 | C12H3Cl7 | 052663-68-0 | 99 |
| 5 | | 2,2',3,4,4',6,6'-Heptachloro-1,1... | 392 | C12H3Cl7 | 074472-48-3 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W5

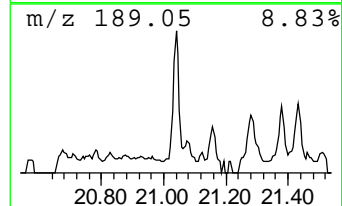
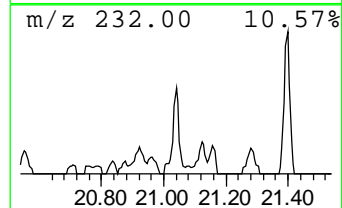
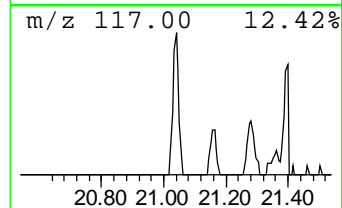
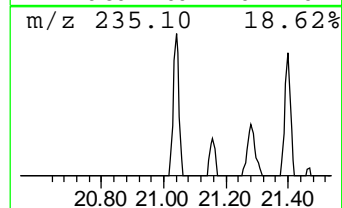
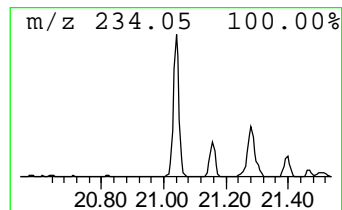
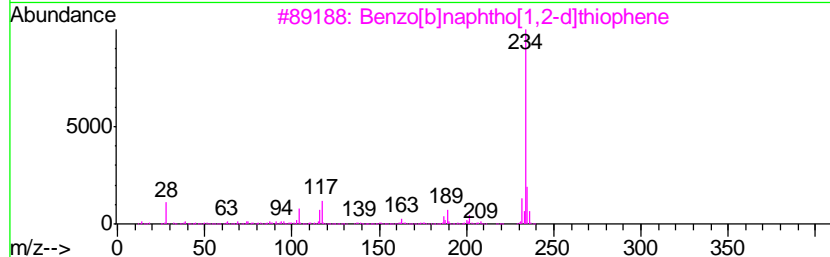
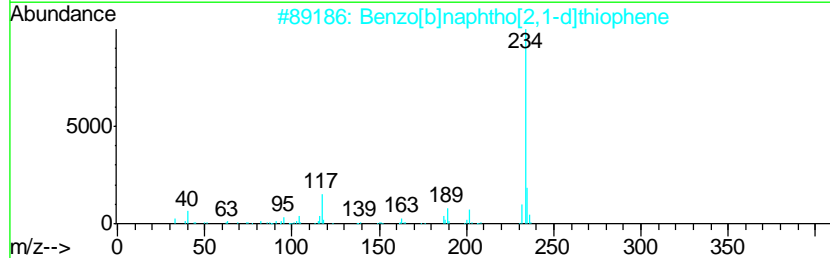
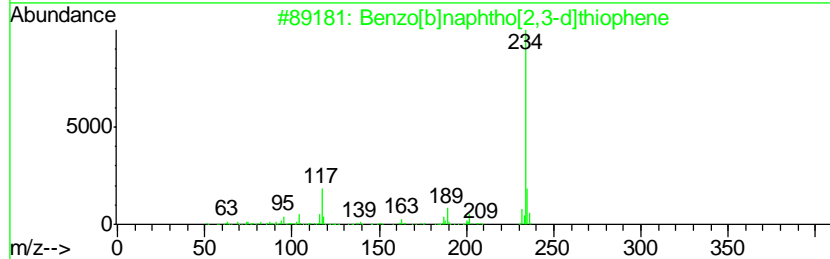
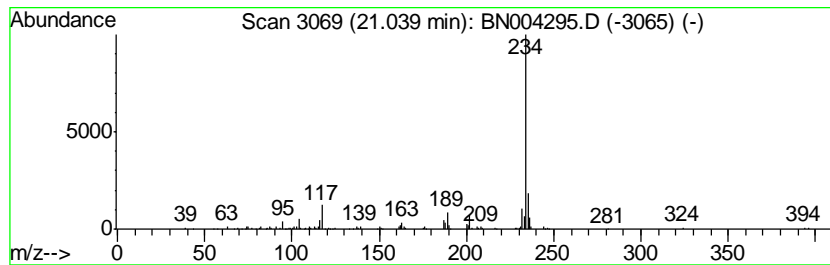
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 21 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.04 | 3.03 ng/ul | 123670 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 98 |
| 2 | | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 97 |
| 3 | | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 96 |
| 4 | | Anthra(2,3-b)thiophene | 234 | C16H10S | 022108-55-0 | 94 |
| 5 | | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W5

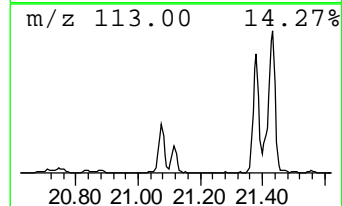
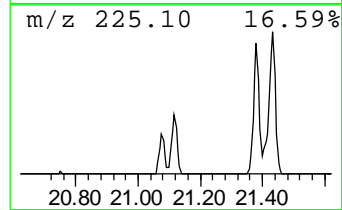
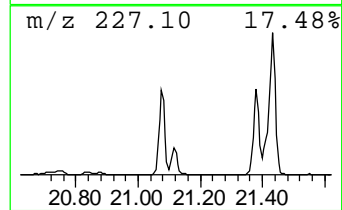
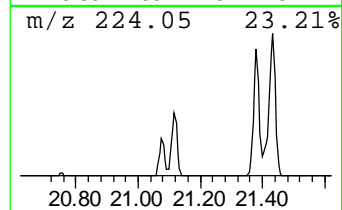
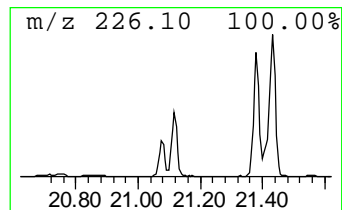
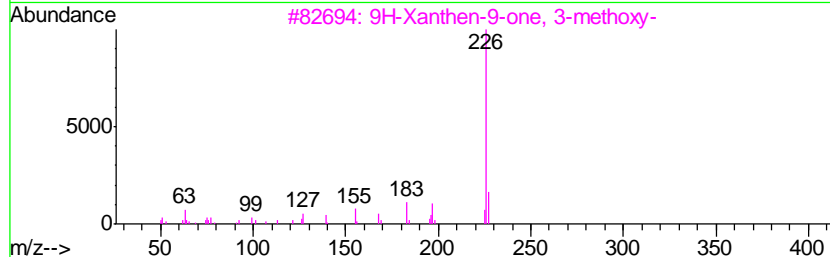
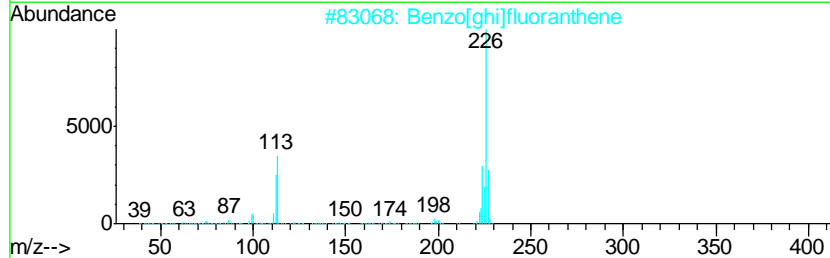
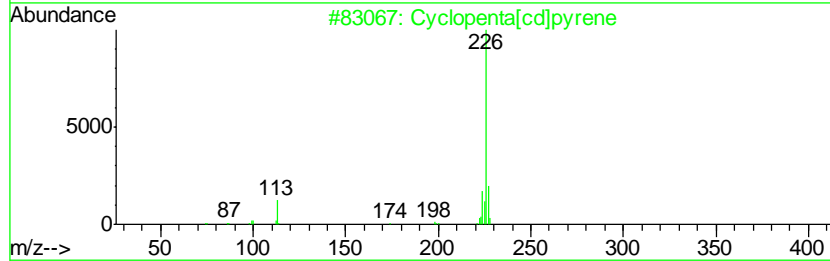
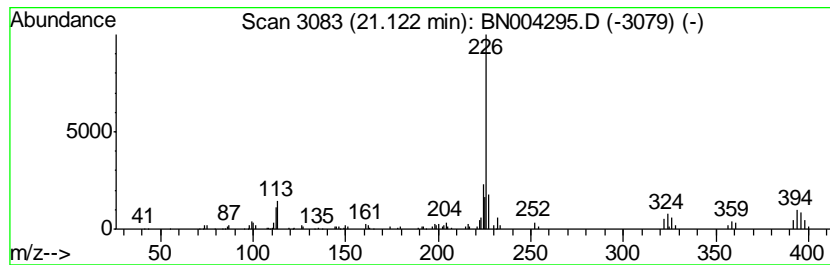
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 23 Cyclopenta[cd]pyrene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.12 | 3.70 ng/ul | 150885 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Cyclopenta[cd]pyrene | 226 | C18H10 | 027208-37-3 | 50 |
| 2 | | Benzo[ghi]fluoranthene | 226 | C18H10 | 000203-12-3 | 38 |
| 3 | | 9H-Xanthen-9-one, 3-methoxy- | 226 | C14H10O3 | 003722-52-9 | 38 |
| 4 | | Benzene, [4-(3-ethynylphenyl)-1,... | 226 | C18H10 | 1000115-87-3 | 38 |
| 5 | | Spiro(2-t-butyl-6-phenyl-1,3-dio... | 312 | C20H24O3 | 1000191-40-7 | 32 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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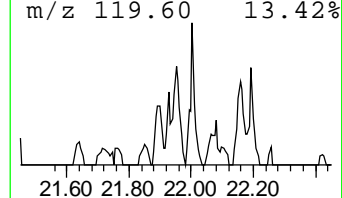
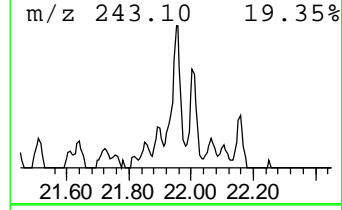
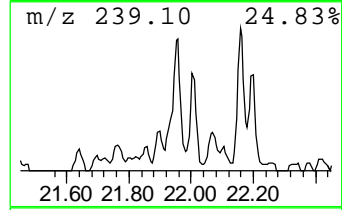
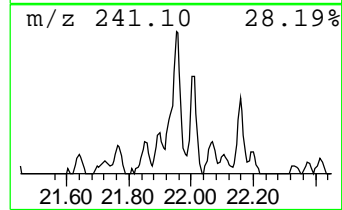
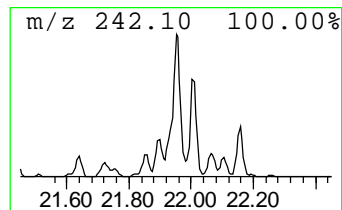
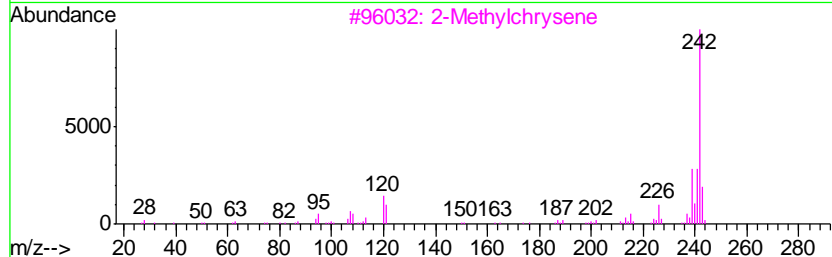
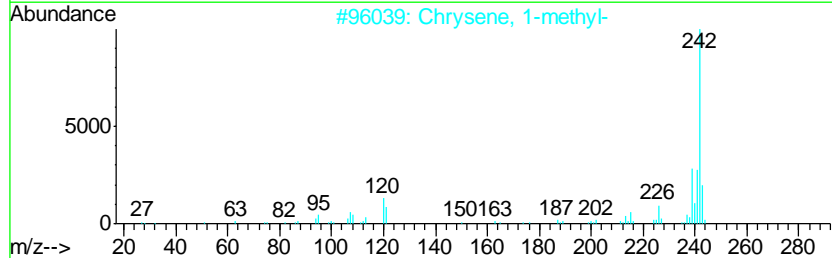
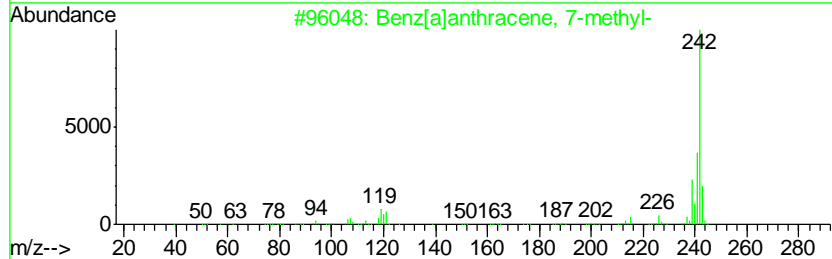
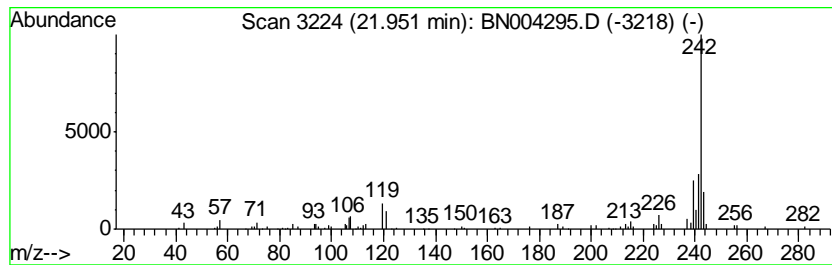
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 24 Benz[a]anthracene, 7-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.95 | 3.15 ng/ul | 128594 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1 | 5 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 94 |
| 2 | | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 94 |
| 3 | | 2-Methylchrysene | 242 | C19H14 | 003351-32-4 | 94 |
| 4 | | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 93 |
| 5 | | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
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 Sample : J6428-12
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Instrument :
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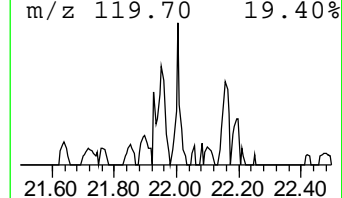
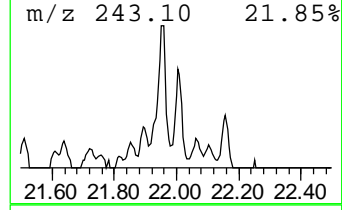
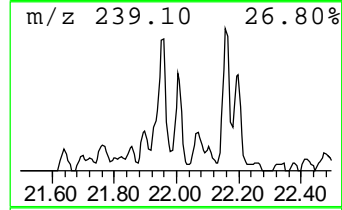
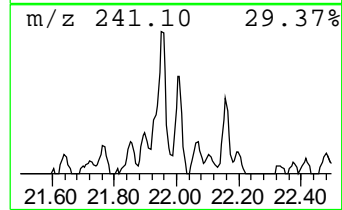
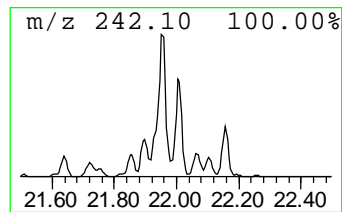
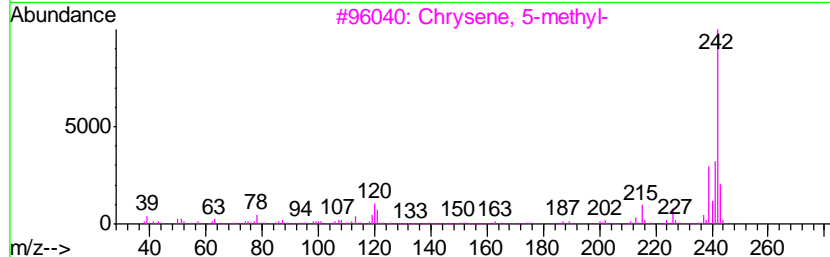
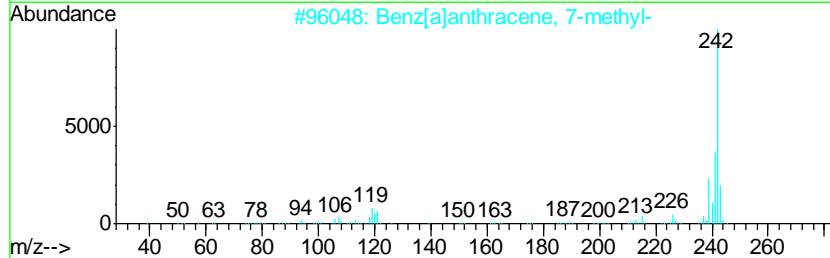
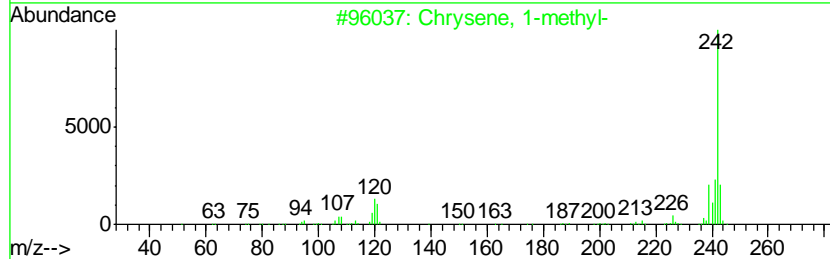
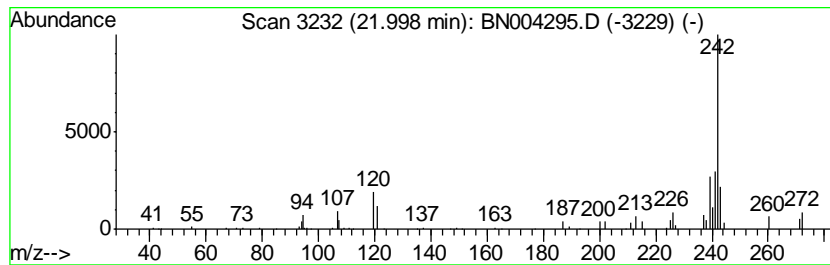
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 25 Chrysene, 1-methyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 22.00 | 2.29 ng/ul | 93372 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1 | 5 | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 94 |
| 2 | | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 93 |
| 3 | | Chrysene, 5-methyl- | 242 | C19H14 | 003697-24-3 | 86 |
| 4 | | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 86 |
| 5 | | Benz[a]anthracene, 1-methyl- | 242 | C19H14 | 002498-77-3 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
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 ClientSampleID :
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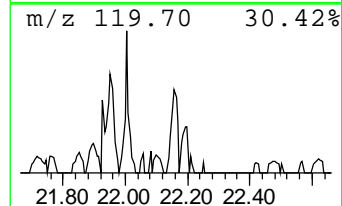
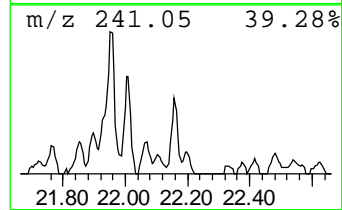
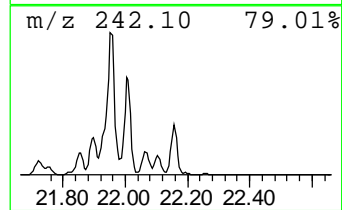
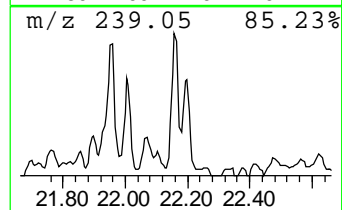
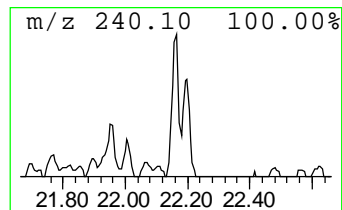
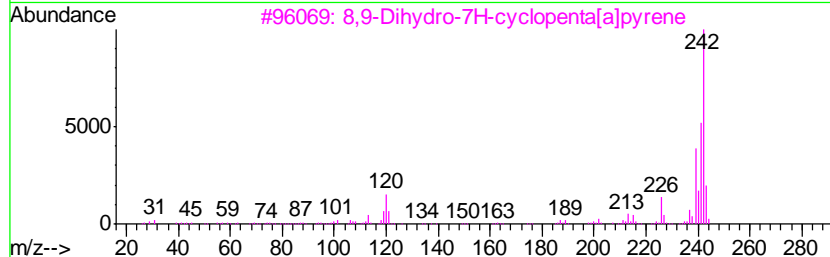
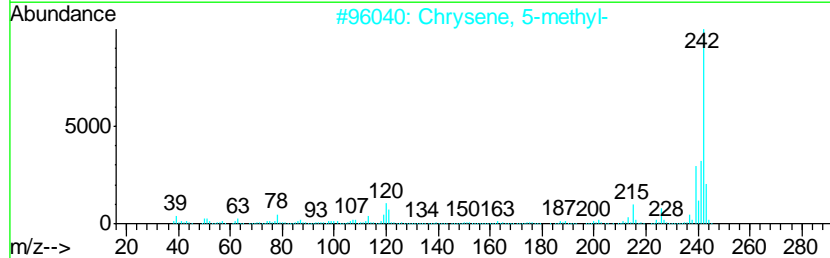
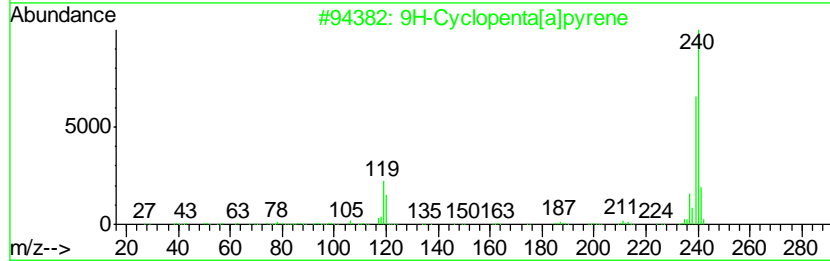
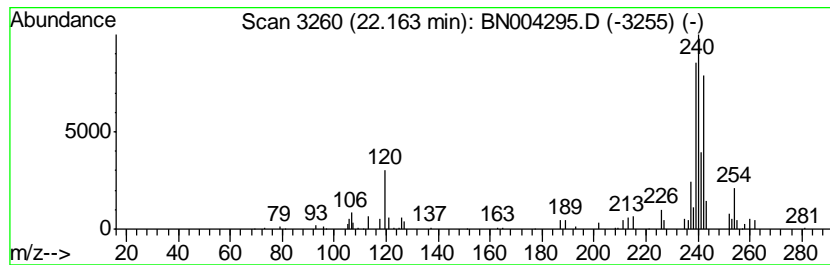
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 26 unknown-02 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 22.16 | 3.35 ng/ul | 136745 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1 | 5 | 9H-Cyclopenta[a]pyrene | 240 | C19H12 | 050861-05-7 | 43 |
| 2 | | Chrysene, 5-methyl- | 242 | C19H14 | 003697-24-3 | 38 |
| 3 | | 8,9-Dihydro-7H-cyclopenta[a]pyrene | 242 | C19H14 | 082979-72-4 | 38 |
| 4 | | Chrysene, 6-methyl- | 242 | C19H14 | 001705-85-7 | 38 |
| 5 | | Chrysene, 4-methyl- | 242 | C19H14 | 003351-30-2 | 30 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
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 ALS Vial : 31 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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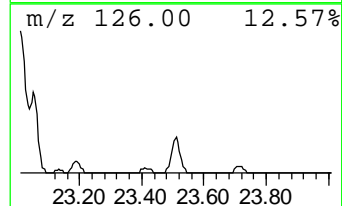
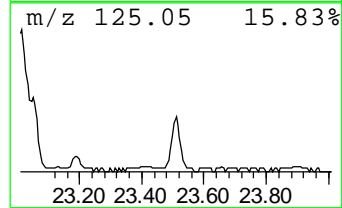
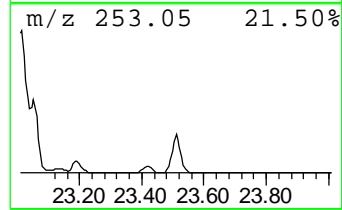
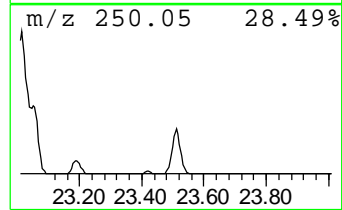
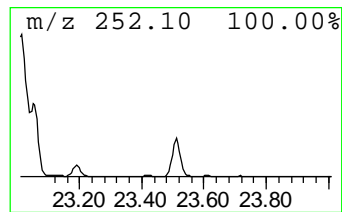
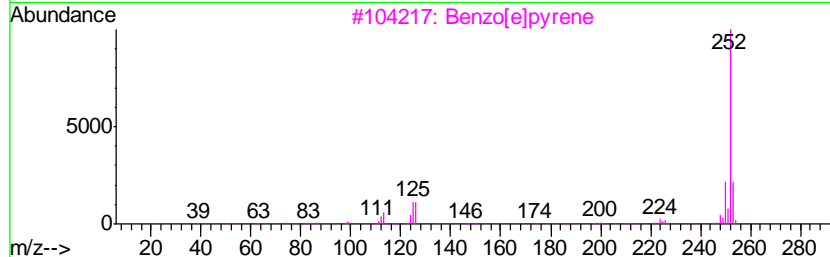
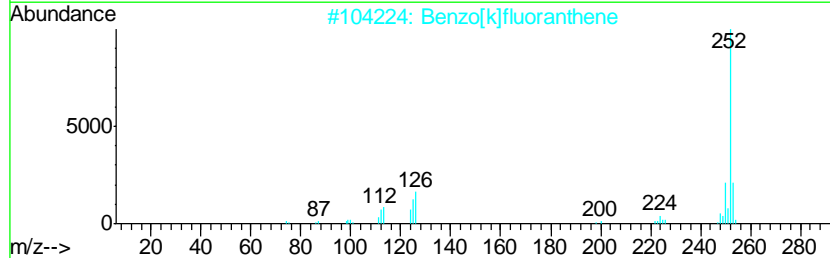
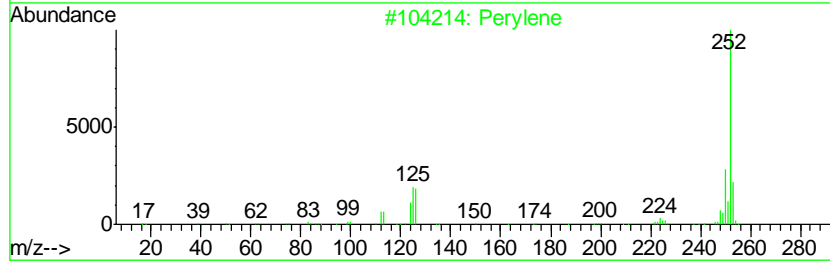
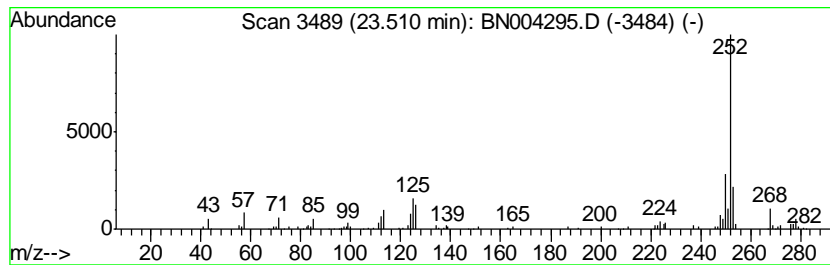
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 27 Perylene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 23.51 | 7.45 ng/ul | 189107 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1 | 5 | Perylene | 252 | C20H12 | 000198-55-0 | 98 |
| 2 | | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 98 |
| 3 | | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 4 | | Perylene | 252 | C20H12 | 000198-55-0 | 93 |
| 5 | | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004295.D
 Acq On : 29 Dec 2018 11:28
 Operator : JU/SJ
 Sample : J6428-12
 Misc : GCMS Confirmation
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W5

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 12.3 | ng/ul | 90563 | 1 | 7.82 | 147817 | 20.0 |
| Dibenzofuran, 4-m... | 15.95 | 2.0 | ng/ul | 49506 | 4 | 17.21 | 492628 | 20.0 |
| Dibenzothiophene | 17.03 | 2.6 | ng/ul | 65148 | 4 | 17.21 | 492628 | 20.0 |
| Phenanthrene, 2-m... | 18.07 | 6.8 | ng/ul | 168315 | 4 | 17.21 | 492628 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 11.5 | ng/ul | 284040 | 4 | 17.21 | 492628 | 20.0 |
| Phenanthrene, 1-m... | 18.31 | 3.9 | ng/ul | 95274 | 4 | 17.21 | 492628 | 20.0 |
| Naphthalene, 2-ph... | 18.58 | 5.3 | ng/ul | 130366 | 4 | 17.21 | 492628 | 20.0 |
| Phenanthrene, 2,5... | 18.99 | 3.7 | ng/ul | 90515 | 4 | 17.21 | 492628 | 20.0 |
| unknown-01 | 19.06 | 2.4 | ng/ul | 59495 | 4 | 17.21 | 492628 | 20.0 |
| Benzo(b)naphtho(1... | 19.70 | 2.5 | ng/ul | 101840 | 5 | 21.40 | 815516 | 20.0 |
| Benzo[b]naphtho[2... | 19.81 | 3.8 | ng/ul | 152811 | 5 | 21.40 | 815516 | 20.0 |
| Pyrene, 1-methyl- | 19.96 | 4.9 | ng/ul | 199221 | 5 | 21.40 | 815516 | 20.0 |
| 11H-Benzo[b]fluorene | 20.10 | 6.5 | ng/ul | 263418 | 5 | 21.40 | 815516 | 20.0 |
| Phosphine sulfide... | 20.26 | 3.2 | ng/ul | 131681 | 5 | 21.40 | 815516 | 20.0 |
| 2,3,3',4',5,6-Hex... | 20.38 | 4.3 | ng/ul | 174057 | 5 | 21.40 | 815516 | 20.0 |
| 2,2',3,3',5,6-Hex... | 20.70 | 2.6 | ng/ul | 106216 | 5 | 21.40 | 815516 | 20.0 |
| 2,3,3',4,4',5',6-... | 20.84 | 2.0 | ng/ul | 83725 | 5 | 21.40 | 815516 | 20.0 |
| Benzo[b]naphtho[2... | 21.04 | 3.0 | ng/ul | 123670 | 5 | 21.40 | 815516 | 20.0 |
| Cyclopenta[cd]pyrene | 21.12 | 3.7 | ng/ul | 150885 | 5 | 21.40 | 815516 | 20.0 |
| Benz[a]anthracene... | 21.95 | 3.1 | ng/ul | 128594 | 5 | 21.40 | 815516 | 20.0 |
| Chrysene, 1-methyl- | 22.00 | 2.3 | ng/ul | 93372 | 5 | 21.40 | 815516 | 20.0 |
| unknown-02 | 22.16 | 3.4 | ng/ul | 136745 | 5 | 21.40 | 815516 | 20.0 |
| Perylene | 23.51 | 7.5 | ng/ul | 189107 | 6 | 23.72 | 507976 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W5DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-12DL
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035156.D
 % Solids : 78.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 40.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 1700 | U |
| 11104-28-2 | Aroclor-1221 | 1700 | U |
| 11141-16-5 | Aroclor-1232 | 1700 | U |
| 53469-21-9 | Aroclor-1242 | 1700 | U |
| 12672-29-6 | Aroclor-1248 | 1700 | U |
| 11097-69-1 | Aroclor-1254 | 1700 | U |
| 11096-82-5 | Aroclor-1260 | 44000 | ED |
| 37324-23-5 | Aroclor-1262 | 1700 | U |
| 11100-14-4 | Aroclor-1268 | 1700 | U |

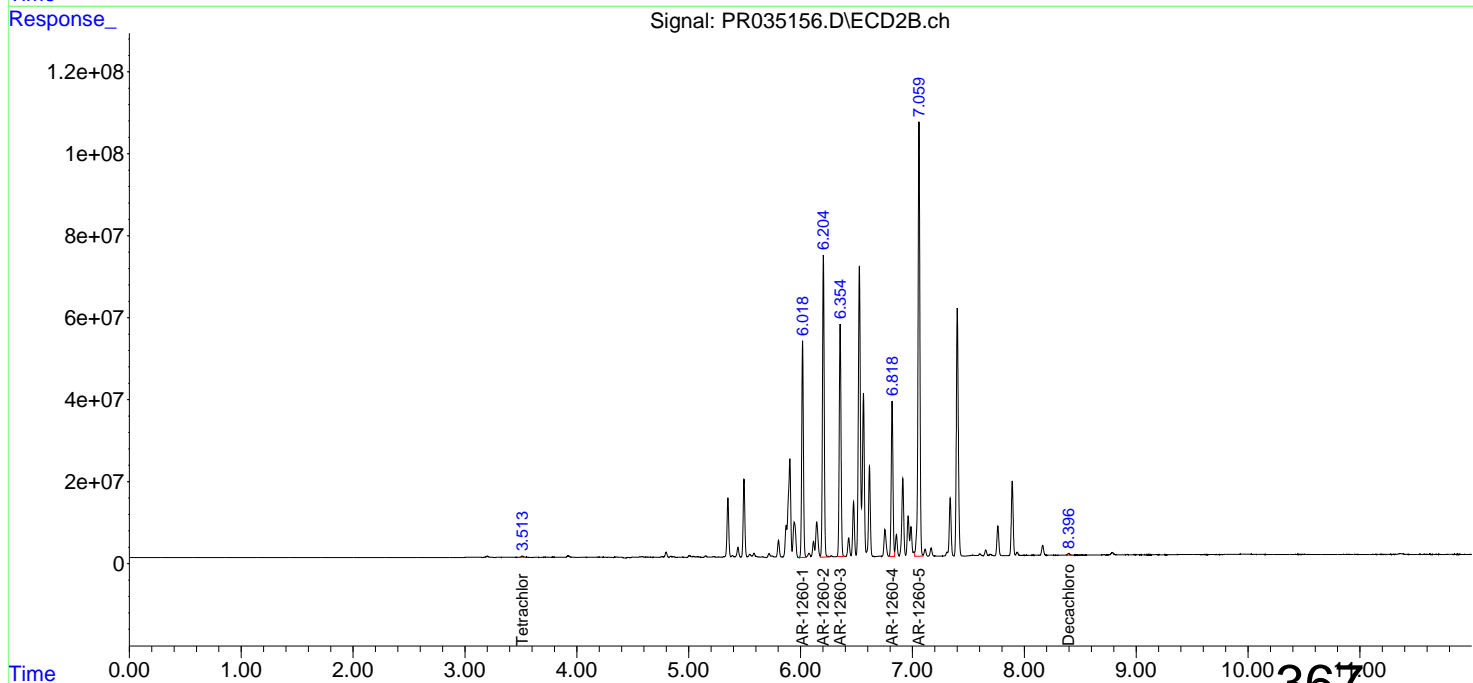
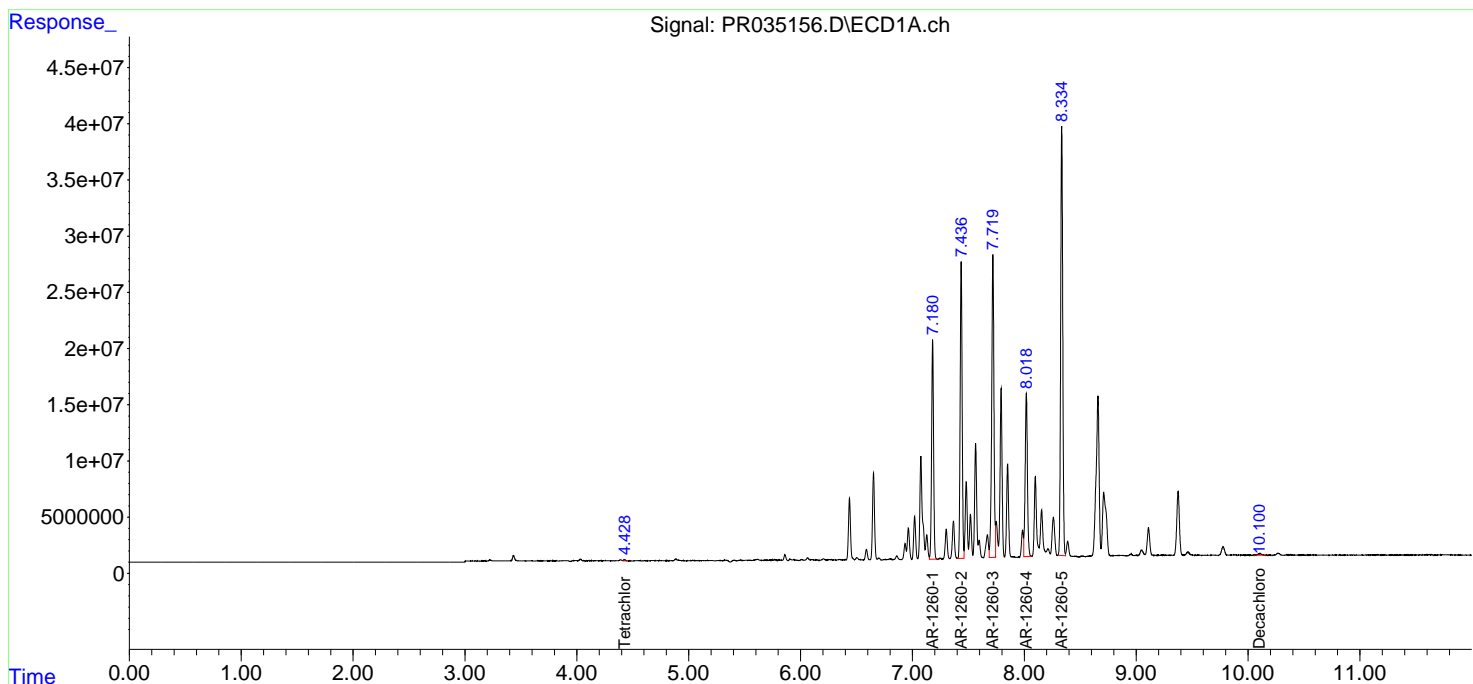
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035156.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:27
 Operator : SM\SJ
 Sample : J6428-12DL 40X
 Misc :
 ALS Vial : 122 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W5DL

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:32 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 10:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035156.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:27
 Operator : SM\SJ
 Sample : J6428-12DL 40X
 Misc :
 ALS Vial : 122 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W5DL

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:32 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 10:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|---------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 1419444 | 3270013 | 0.730m | 0.938 # |
| 2) SA Decachlor... | 10.102 | 8.397 | 3197789 | 5196249 | 1.627 | 1.182 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.018 | 238.4E6 | 557.1E6 | 2535.805 | 2591.533 |
| 32) L7 AR-1260-2 | 7.436 | 6.204 | 323.4E6 | 802.3E6 | 2785.133 | 2948.425 |
| 33) L7 AR-1260-3 | 7.720 | 6.354 | 372.7E6 | 624.9E6 | 2670.322 | 2517.535 |
| 34) L7 AR-1260-4 | 8.019 | 6.819 | 203.0E6 | 408.5E6 | 2350.778 | 2388.894 |
| 35) L7 AR-1260-5 | 8.335 | 7.059 | 491.2E6 | 1236.2E6 | 2720.761 | 2556.074 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035156.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:27
 Operator : SM\SJ
 Sample : J6428-12DL 40X
 Misc :
 ALS Vial : 122 Sample Multiplier: 1

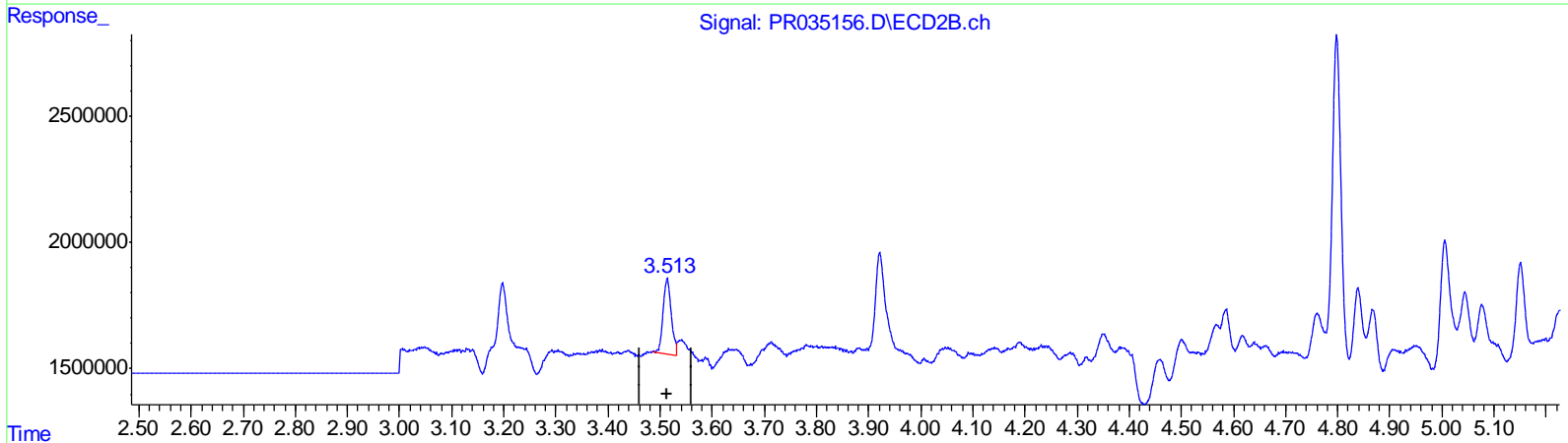
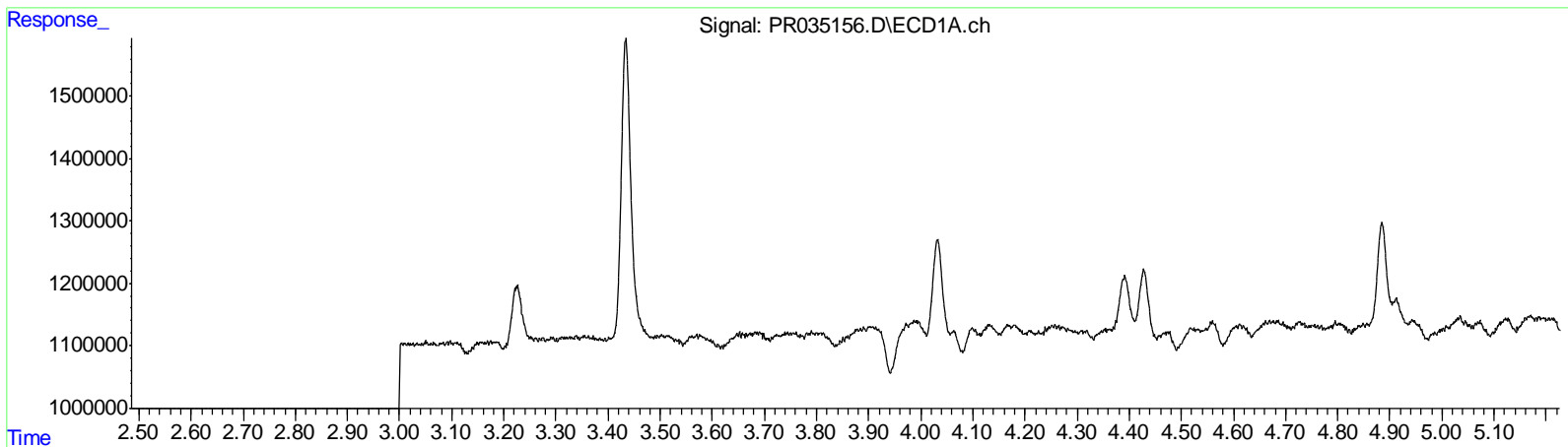
Instrument :
 ECD_R
 ClientSampled :
 A41W5DL

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:32 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 10:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(1) Tetrachloro-m-xylene (SA)
 0.000min 0.000 ng/ml
 response 0

(1) Tetrachloro-m-xylene #2 (SA)
 3.514min 0.938 ng/ml
 response 3270013

(+) = Expected Retention Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035156.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:27
 Operator : SM\SJ
 Sample : J6428-12DL 40X
 Misc :
 ALS Vial : 122 Sample Multiplier: 1

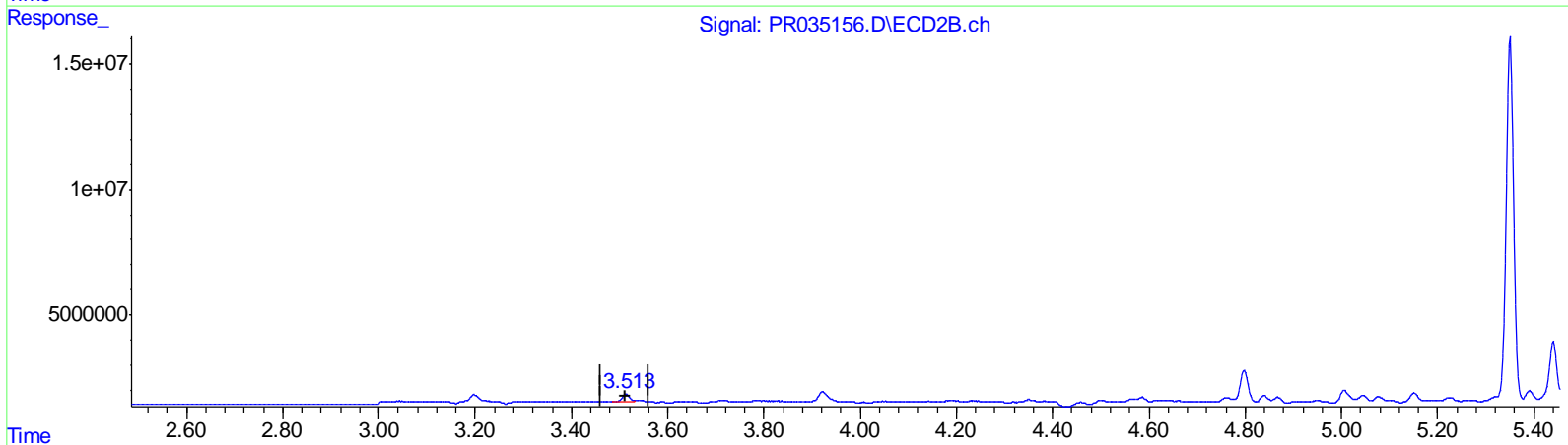
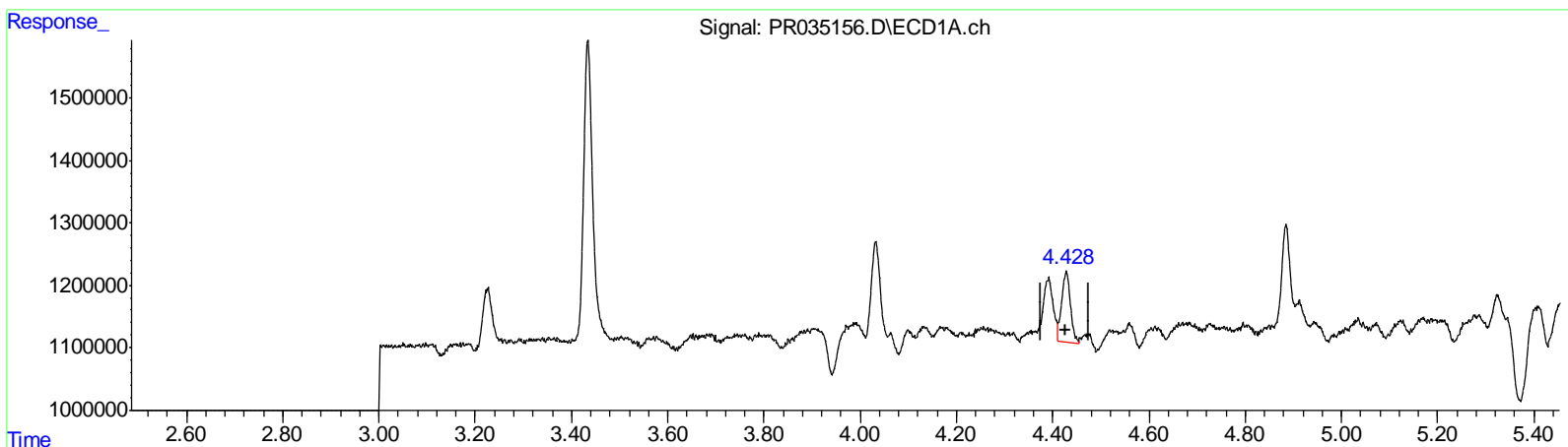
Instrument :
 ECD_R
 ClientSampled :
 A41W5DL

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:32 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 10:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(1) Tetrachloro-m-xylene (SA)

4.428min 0.730 ng/ml m

response 1419444

(1) Tetrachloro-m-xylene #2 (SA)

3.514min 0.938 ng/ml

response 3270013

(+) = Expected Retention Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035156.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:27
 Operator : SM\SJ
 Sample : J6428-12DL 40X
 Misc :
 ALS Vial : 122 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W5DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 10:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:32 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|---------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 1419444 | 3270013 | 0.730m | 0.938 # |
| 2) SA Decachlor... | 10.102 | 8.397 | 3197789 | 5196249 | 1.627 | 1.182 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.018 | 238.4E6 | 557.1E6 | 2535.805 | 2591.533 |
| 32) L7 AR-1260-2 | 7.436 | 6.204 | 323.4E6 | 802.3E6 | 2785.133 | 2948.425 |
| 33) L7 AR-1260-3 | 7.720 | 6.354 | 372.7E6 | 624.9E6 | 2670.322 | 2517.535 |
| 34) L7 AR-1260-4 | 8.019 | 6.819 | 203.0E6 | 408.5E6 | 2350.778 | 2388.894 |
| 35) L7 AR-1260-5 | 8.335 | 7.059 | 491.2E6 | 1236.2E6 | 2720.761 | 2556.074 |
| ----- | | | | | | |

> SS
 12/31/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W5DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-12DL2
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035157.D
 % Solids : 78.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 400.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

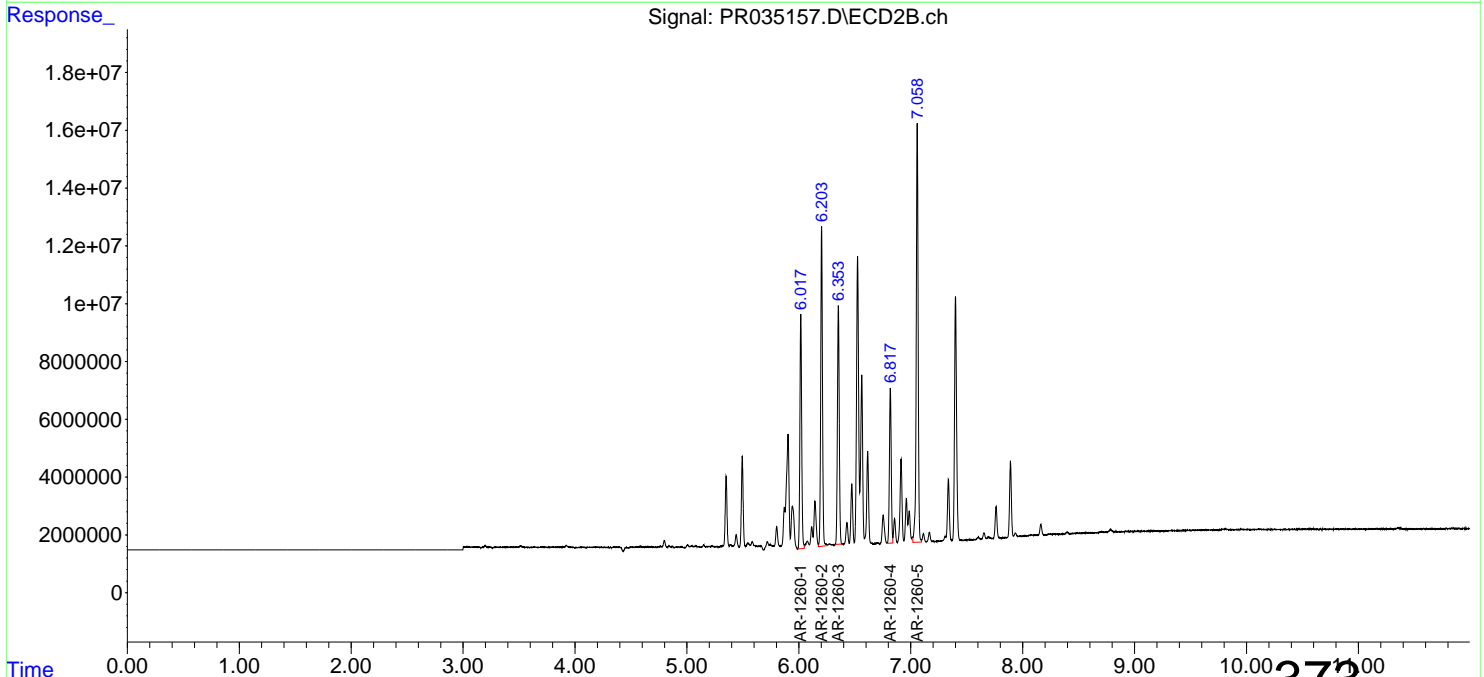
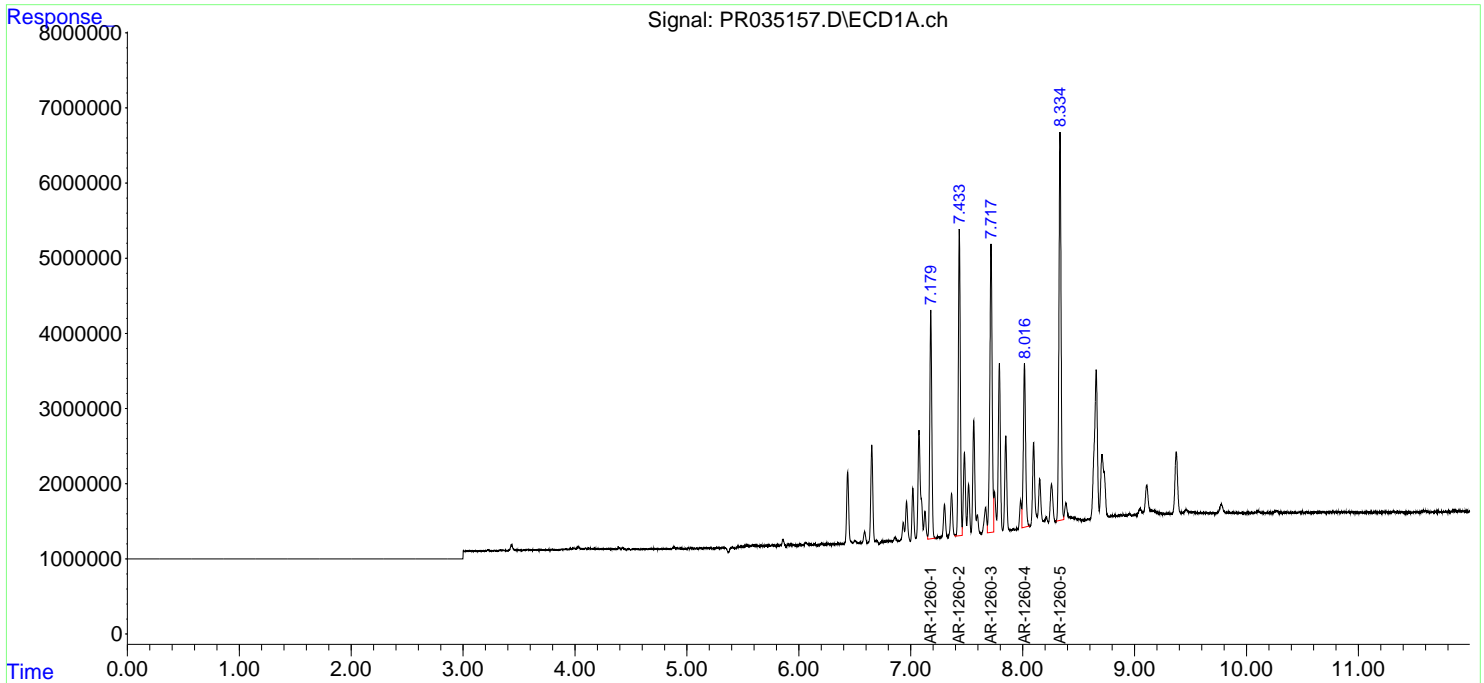
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 17000 | U |
| 11104-28-2 | Aroclor-1221 | 17000 | U |
| 11141-16-5 | Aroclor-1232 | 17000 | U |
| 53469-21-9 | Aroclor-1242 | 17000 | U |
| 12672-29-6 | Aroclor-1248 | 17000 | U |
| 11097-69-1 | Aroclor-1254 | 17000 | U |
| 11096-82-5 | Aroclor-1260 | 66000 | D |
| 37324-23-5 | Aroclor-1262 | 17000 | U |
| 11100-14-4 | Aroclor-1268 | 17000 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035157.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:42
 Operator : SM\SJ
 Sample : J6428-12DL2 400X (Sig #1); J6428-12DL 400X (Sig #2)
 Misc :
 ALS Vial : 123 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W5DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035157.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 09:42
 Operator : SM\SJ
 Sample : J6428-12DL2 400X (Sig #1); J6428-12DL 400X (Sig #2)
 Misc :
 ALS Vial : 123 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W5DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

Target Compounds

| | | | | | | | | |
|-----|----|-----------|-------|-------|----------|----------|---------|---------|
| 31) | L7 | AR-1260-1 | 7.179 | 6.017 | 37923052 | 90156924 | 403.402 | 419.389 |
| 32) | L7 | AR-1260-2 | 7.434 | 6.203 | 51268264 | 121.1E6 | 441.583 | 444.946 |
| 33) | L7 | AR-1260-3 | 7.718 | 6.353 | 56054571 | 94093387 | 401.662 | 379.048 |
| 34) | L7 | AR-1260-4 | 8.017 | 6.818 | 30758228 | 60421437 | 356.148 | 353.362 |
| 35) | L7 | AR-1260-5 | 8.334 | 7.058 | 68812670 | 170.6E6 | 381.120 | 352.657 |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W6

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-13
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035060.D
 % Solids : 70.1 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

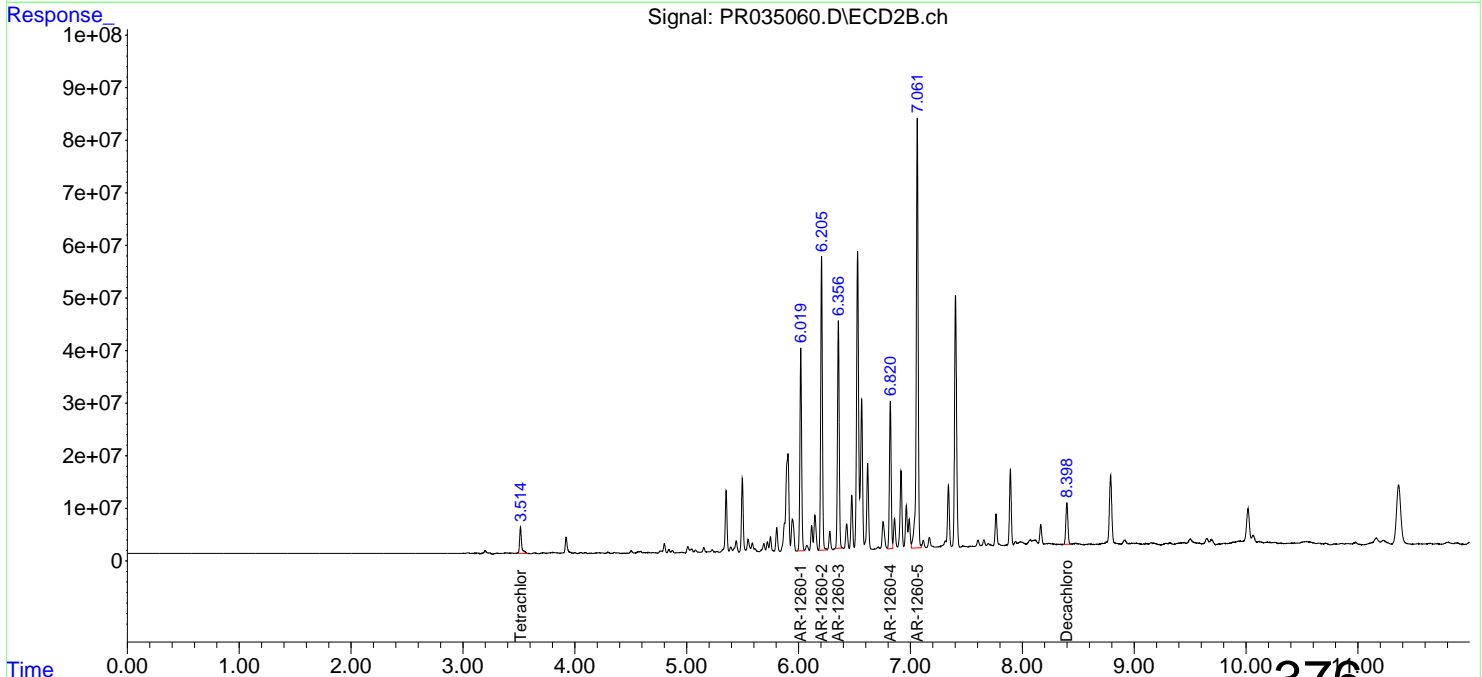
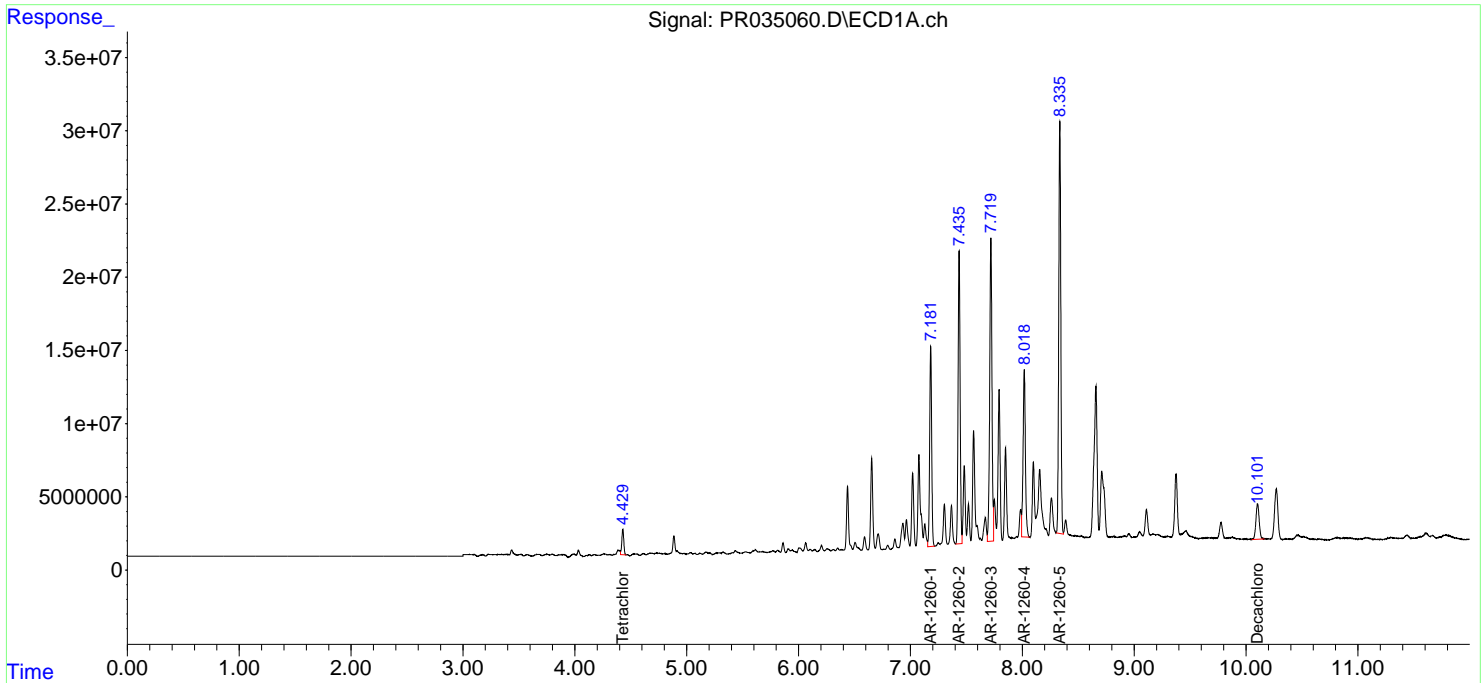
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 47 | U |
| 11104-28-2 | Aroclor-1221 | 47 | U |
| 11141-16-5 | Aroclor-1232 | 47 | U |
| 53469-21-9 | Aroclor-1242 | 47 | U |
| 12672-29-6 | Aroclor-1248 | 47 | U |
| 11097-69-1 | Aroclor-1254 | 47 | U |
| 11096-82-5 | Aroclor-1260 | 920 | E |
| 37324-23-5 | Aroclor-1262 | 47 | U |
| 11100-14-4 | Aroclor-1268 | 47 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035060.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:44
 Operator : SM\SJ
 Sample : J6428-13
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W6

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:18:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035060.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:44
 Operator : SM\SJ
 Sample : J6428-13
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W6

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:18:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.429 | 3.515 | 21578101 | 61940351 | 11.094 | 17.768 # |
| 2) SA Decachlor... | 10.103 | 8.399 | 48957519 | 100.3E6 | 24.903 | 22.822 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.020 | 170.7E6 | 408.2E6 | 1816.082 | 1898.986 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 249.8E6 | 587.9E6 | 2151.196 | 2160.307 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 288.3E6 | 464.6E6 | 2065.521 | 1871.411 |
| 34) L7 AR-1260-4 | 8.018 | 6.821 | 166.4E6 | 302.7E6 | 1926.717 | 1770.523 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 359.9E6 | 971.1E6 | 1993.109 | 2007.826 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W6DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-13DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035117.D
 % Solids : 70.1 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 2.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 94 | U |
| 11104-28-2 | Aroclor-1221 | 94 | U |
| 11141-16-5 | Aroclor-1232 | 94 | U |
| 53469-21-9 | Aroclor-1242 | 94 | U |
| 12672-29-6 | Aroclor-1248 | 94 | U |
| 11097-69-1 | Aroclor-1254 | 94 | U |
| 11096-82-5 | Aroclor-1260 | 1000 | D |
| 37324-23-5 | Aroclor-1262 | 94 | U |
| 11100-14-4 | Aroclor-1268 | 94 | U |

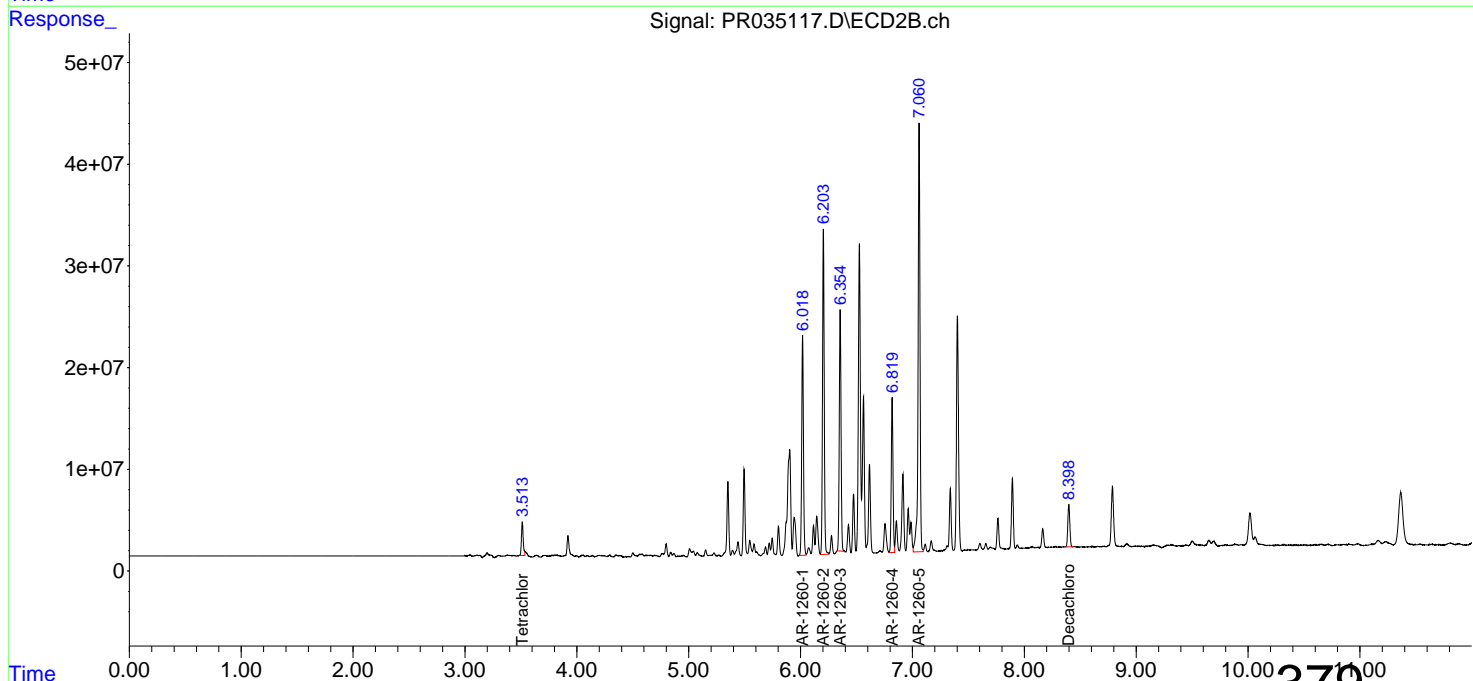
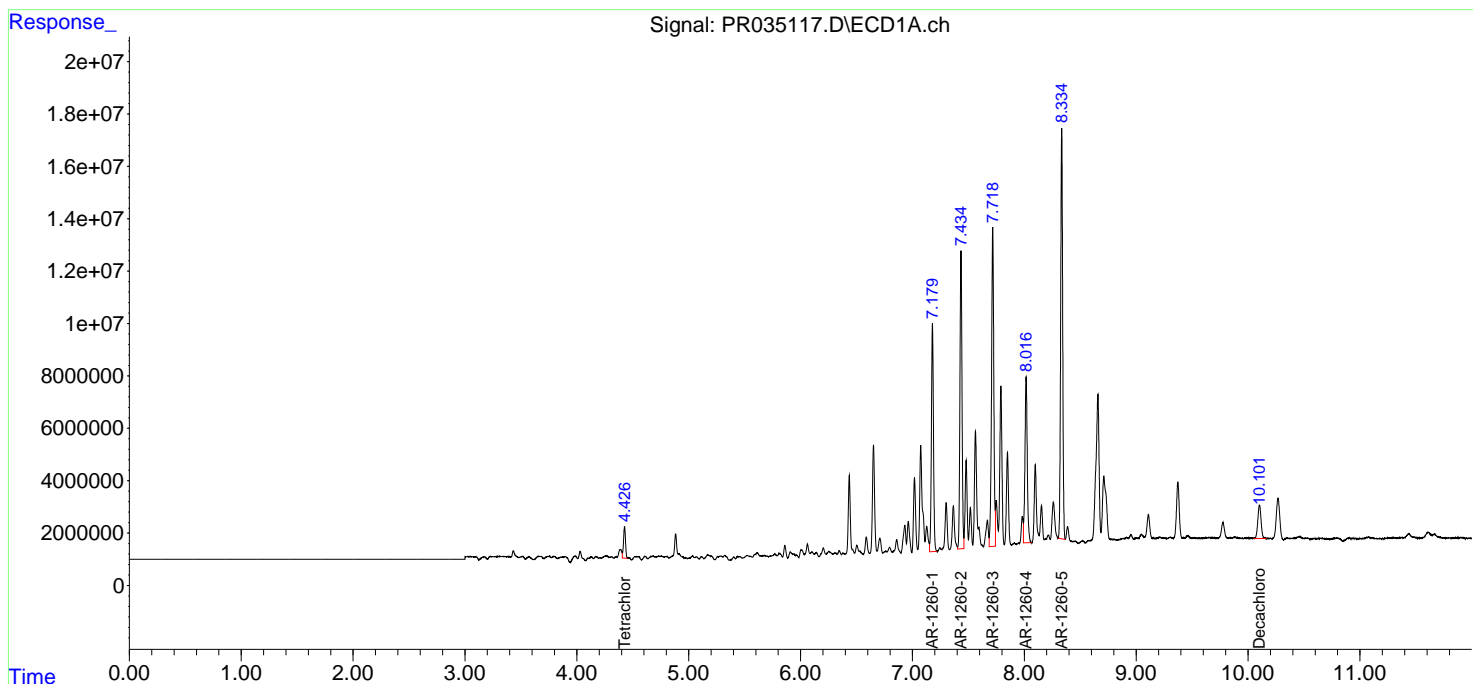
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 Data File : PR035117.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 21:59
 Operator : SM\SJ
 Sample : J6428-13DL 2X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W6DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035117.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 21:59
 Operator : SM\SJ
 Sample : J6428-13DL 2X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W6DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 14877887 | 36675582 | 7.649m | 10.521m# |
| 2) SA Decachlor... | 10.102 | 8.398 | 25644239 | 52370651 | 13.044 | 11.911 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.179 | 6.018 | 110.9E6 | 234.8E6 | 1179.290 | 1092.005 |
| 32) L7 AR-1260-2 | 7.434 | 6.204 | 145.3E6 | 338.8E6 | 1251.812 | 1245.079 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 170.0E6 | 256.9E6 | 1217.851 | 1034.747 |
| 34) L7 AR-1260-4 | 8.017 | 6.819 | 91440409 | 162.4E6 | 1058.784 | 949.751 |
| 35) L7 AR-1260-5 | 8.335 | 7.060 | 195.2E6 | 502.2E6 | 1081.170 | 1038.420 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035117.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 21:59
 Operator : SM\SJ
 Sample : J6428-13DL 2X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

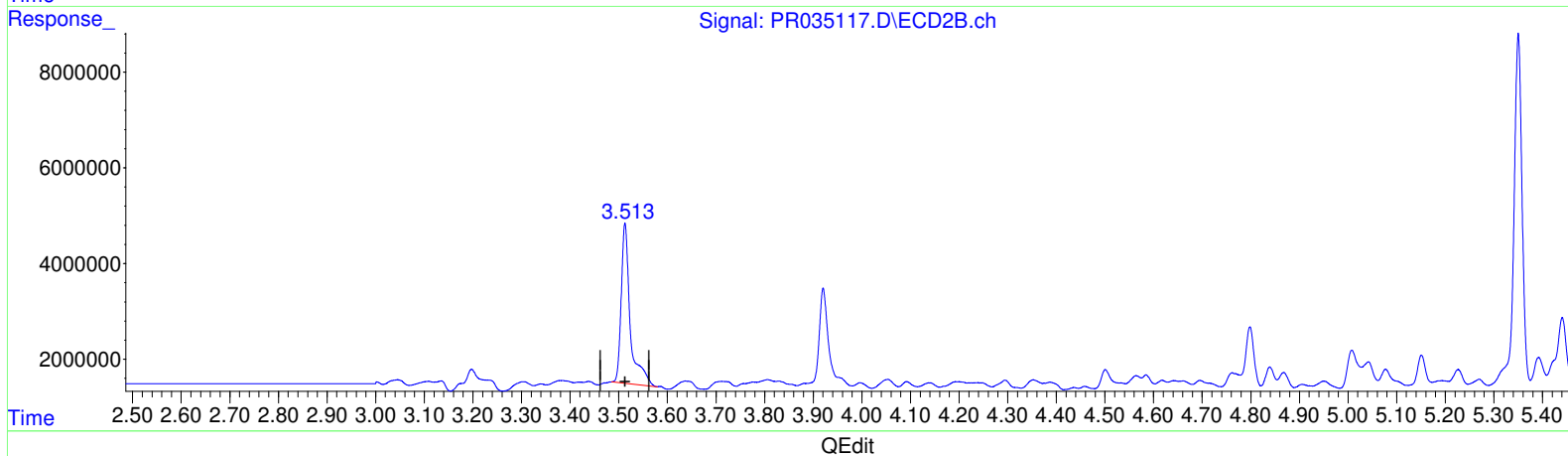
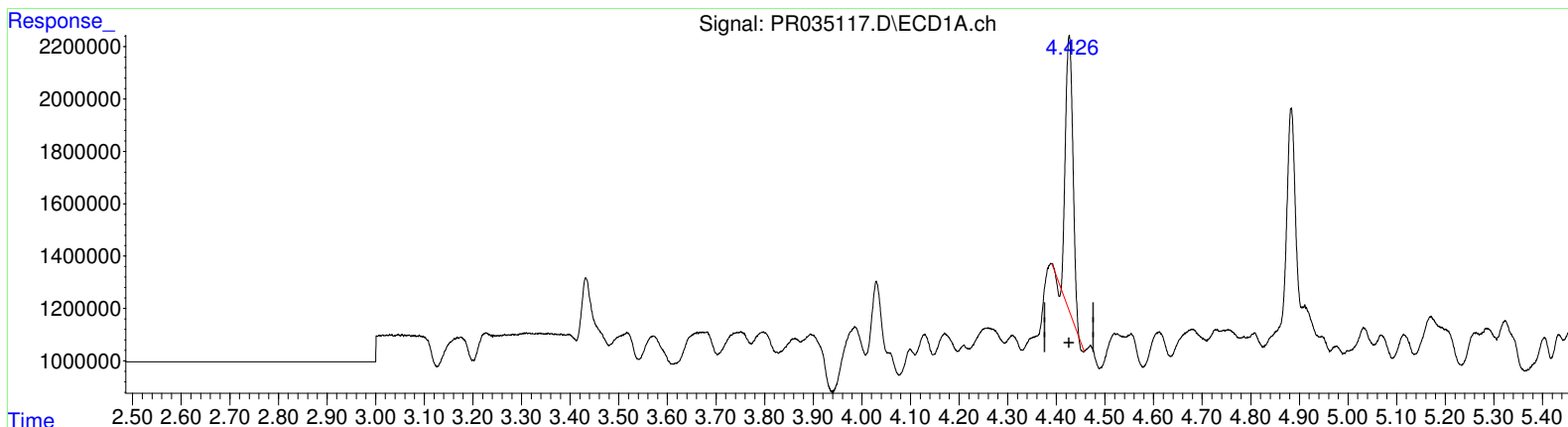
Instrument :
 ECD_R
 ClientSampleID :
 A41W6DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 5.725 ng/ml
 response 11135112

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 12.320 ng/ml
 response 42949022

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035117.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 21:59
 Operator : SM\SJ
 Sample : J6428-13DL 2X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

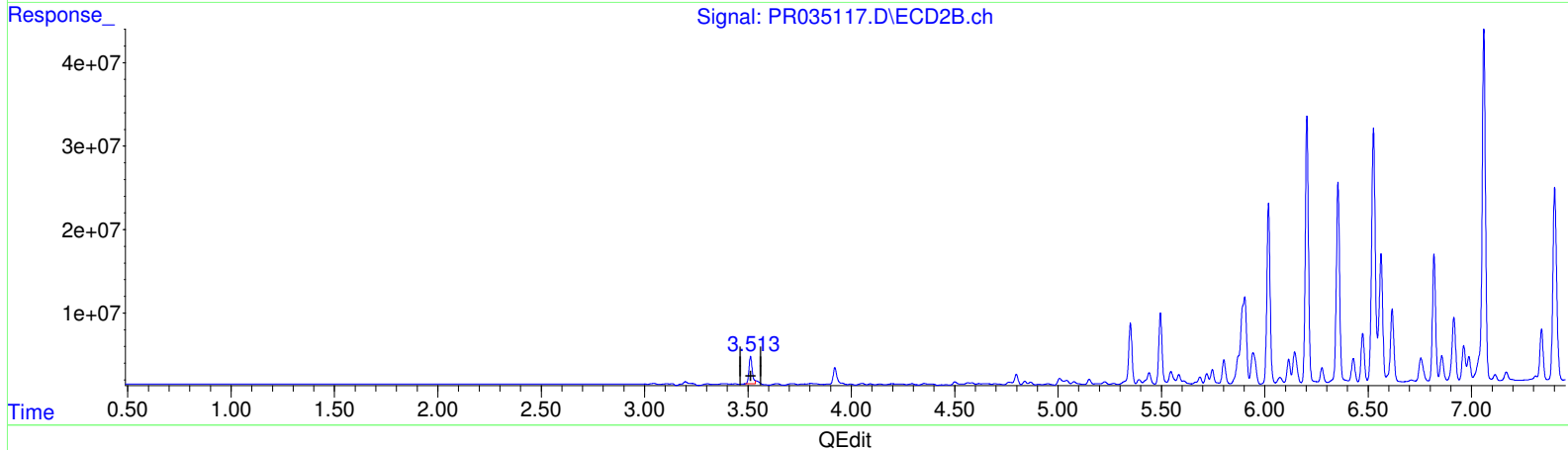
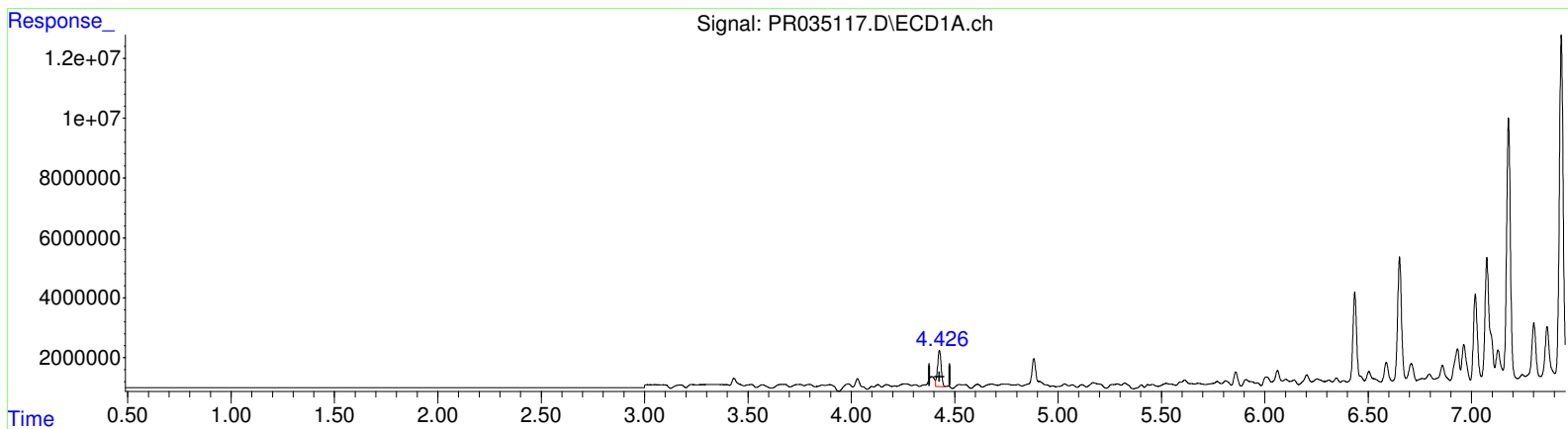
Instrument :
 ECD_R
 ClientSampled :
 A41W6DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 7.649 ng/ml m
 response 14877887

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 10.521 ng/ml m
 response 36675582

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035117.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 21:59
 Operator : SM\SJ
 Sample : J6428-13DL 2X

Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W6DL

Manual Integrations
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 12/29/2018 12:18:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 14877887 | 36675582 | 7.649m | 10.521m# |
| 2) SA Decachlor... | 10.102 | 8.398 | 25644239 | 52370651 | 13.044 | 11.911 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.179 | 6.018 | 110.9E6 | 234.8E6 | 1179.290 | 1092.005 |
| 32) L7 AR-1260-2 | 7.434 | 6.204 | 145.3E6 | 338.8E6 | 1251.812 | 1245.079 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 170.0E6 | 256.9E6 | 1217.851 | 1034.747 |
| 34) L7 AR-1260-4 | 8.017 | 6.819 | 91440409 | 162.4E6 | 1058.784 | 949.751 |
| 35) L7 AR-1260-5 | 8.335 | 7.060 | 195.2E6 | 502.2E6 | 1081.170 | 1038.420 |
| ----- | | | | | | |

) SS
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W7

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-14
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035098.D
 % Solids : 89.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 37 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 13000 | EC |
| 37324-23-5 | Aroclor-1262 | 37 | U |
| 11100-14-4 | Aroclor-1268 | 37 | U |

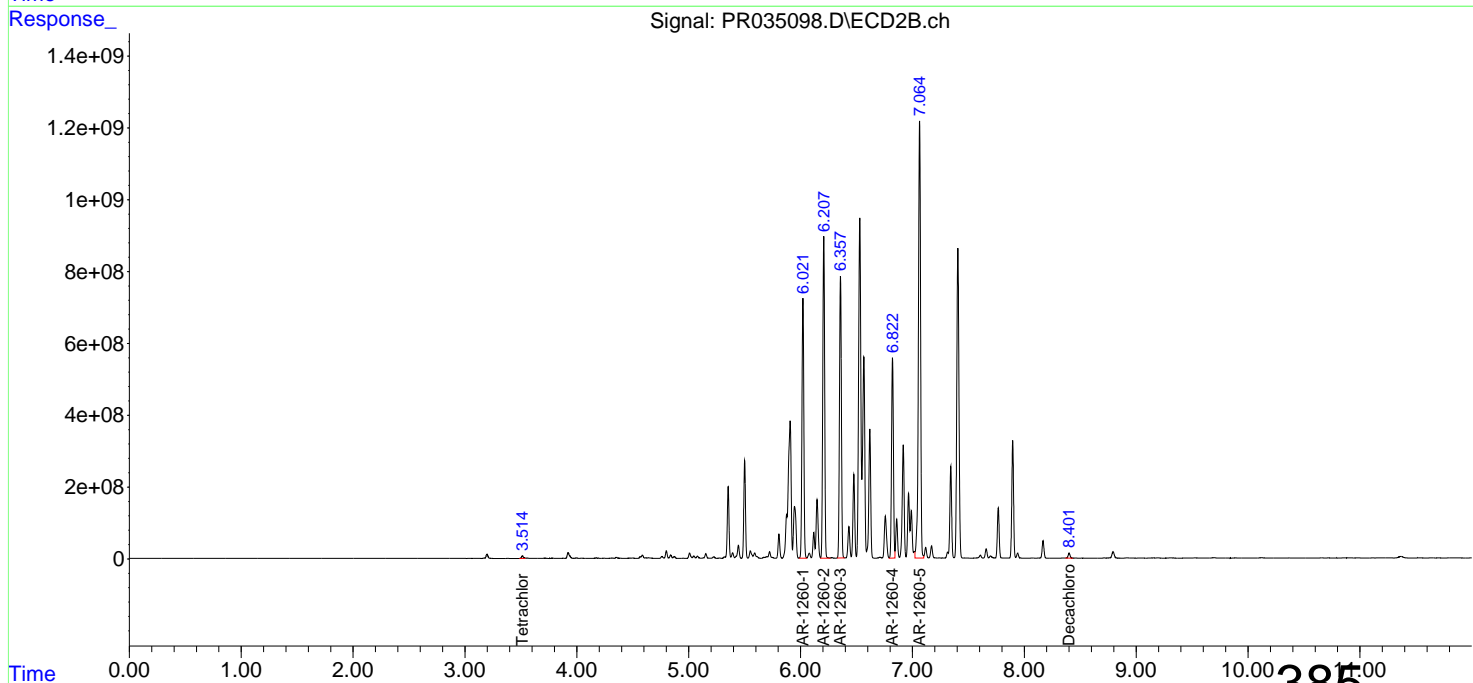
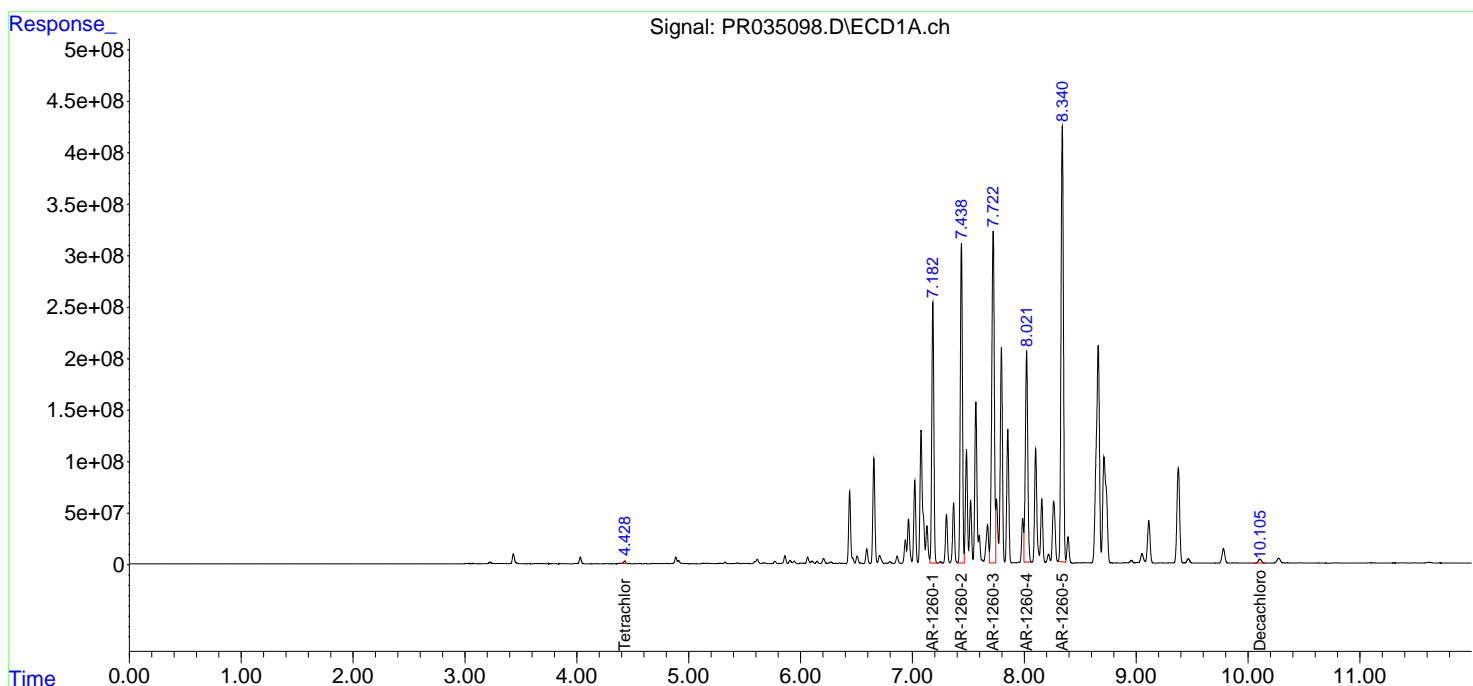
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035098.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:25
 Operator : SM\SJ
 Sample : J6428-14
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W7

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:21 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035098.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:25
 Operator : SM\SJ
 Sample : J6428-14
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleID :
 A41W7

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:21 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 32529854 | 78725105 | 16.725m | 22.583 # |
| 2) SA Decachlor... | 10.106 | 8.401 | 76606038 | 164.8E6 | 38.967 | 37.477 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.021 | 3275.4E6 | 8449.1E6 | 34842.210 | 39303.090 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 4136.8E6 | 10589.4E6 | 35630.573 | 38914.228 |
| 33) L7 AR-1260-3 | 7.722 | 6.357 | 5193.3E6 | 9339.2E6 | 37213.017 | 37622.237 |
| 34) L7 AR-1260-4 | 8.021 | 6.822 | 3096.0E6 | 6497.1E6 | 35847.910 | 37997.013 |
| 35) L7 AR-1260-5 | 8.340 | 7.064 | 6322.0E6 | 16503.0E6 | 35014.611 | 34122.059 |
| ----- | | | | | | |

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

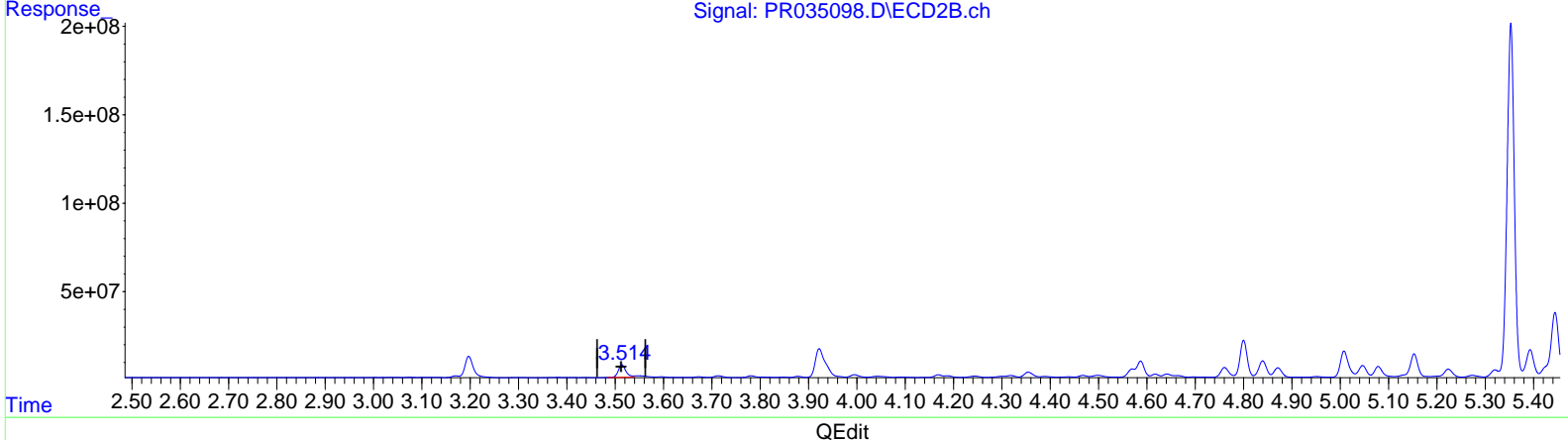
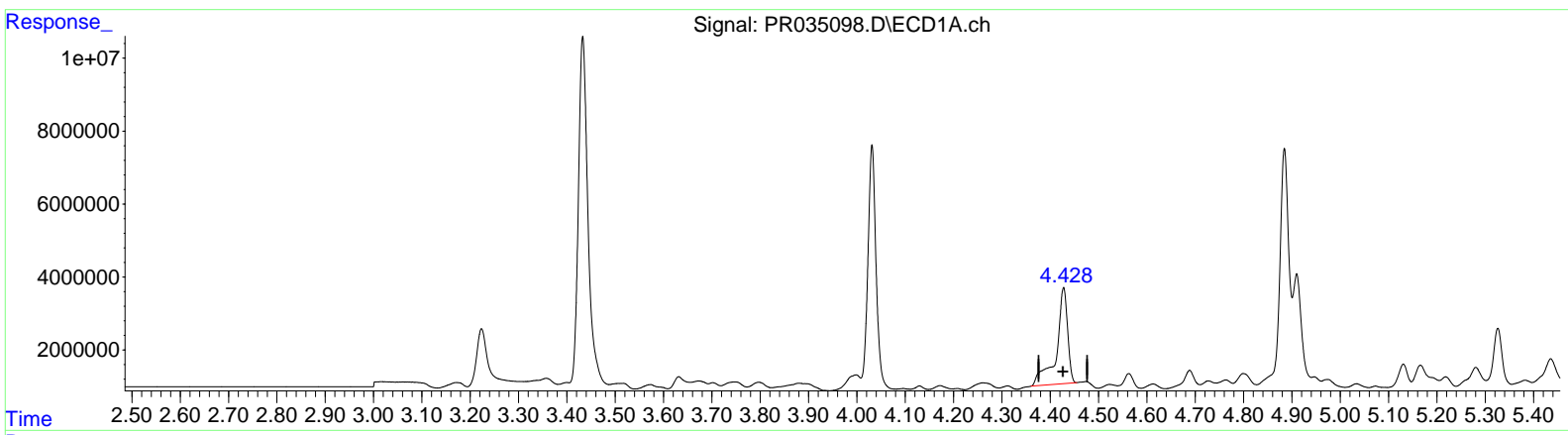
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035098.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:25
 Operator : SM\SJ
 Sample : J6428-14
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W7

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:21 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.428min 21.920 ng/ml
 response 42635739

(1) Tetrachloro-m-xylene #2 (SA)
 3.514min 22.583 ng/ml
 response 78725105

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035098.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:25
 Operator : SM\SJ
 Sample : J6428-14
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

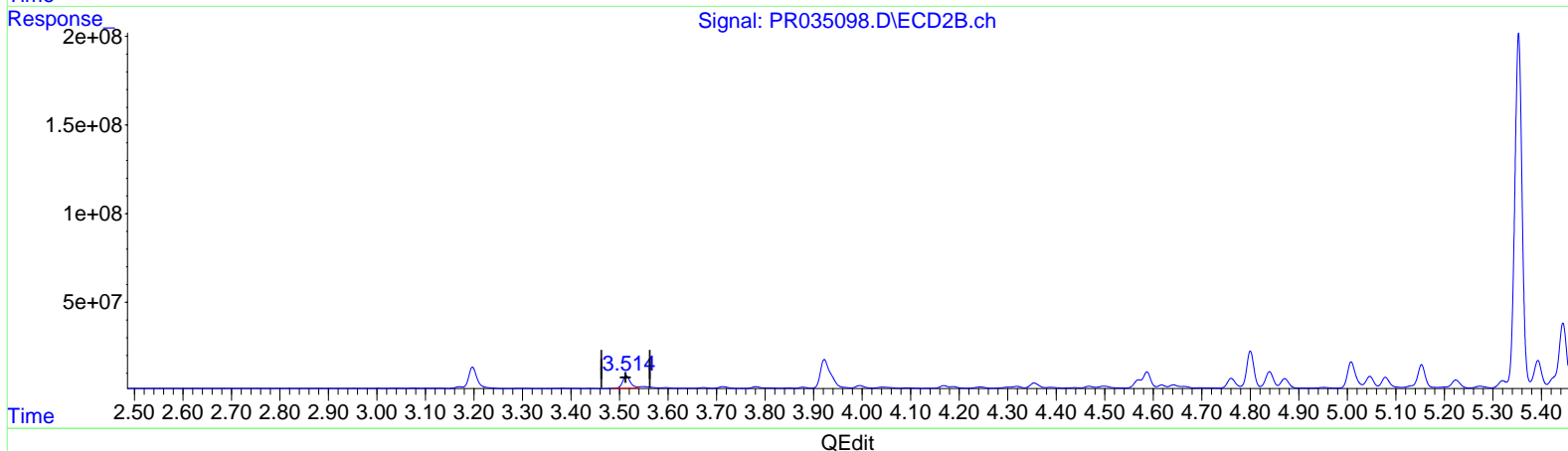
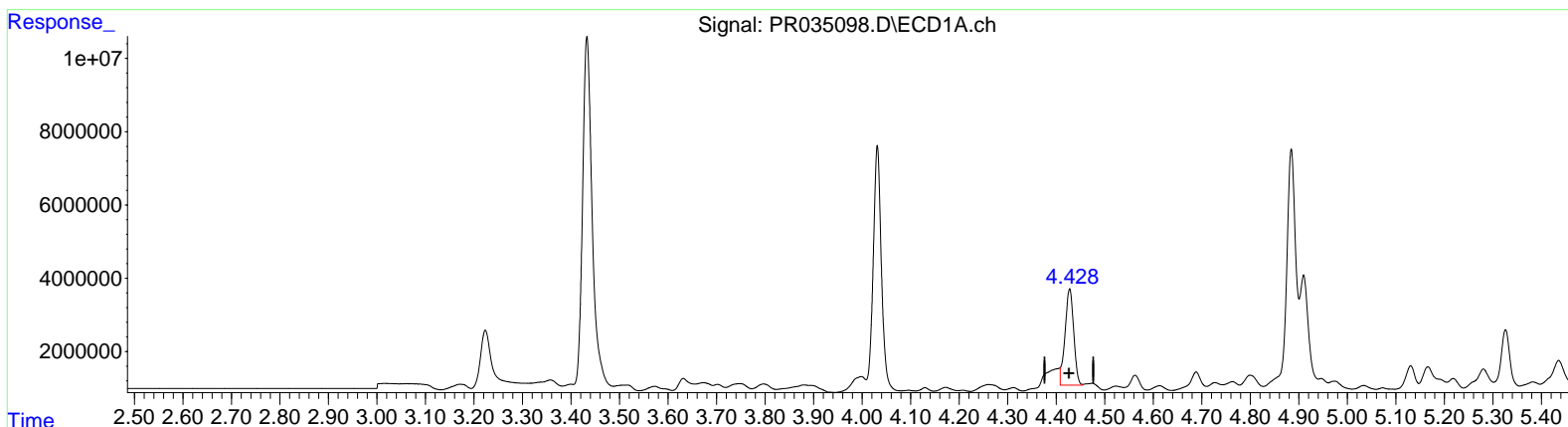
Instrument :
 ECD_R
 ClientSampleId :
 A41W7

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:21 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.428min 16.725 ng/ml m
 response 32529854

(1) Tetrachloro-m-xylene #2 (SA)

3.514min 22.583 ng/ml
 response 78725105

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035098.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:25
 Operator : SM\SJ
 Sample : J6428-14
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W7

Manual Integrations
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 12/29/2018 12:18:21 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:30:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|---------|----------|
| 1) SA Tetrachlo... | 4.428 | 3.514 | 32529854 | 78725105 | 16.725m | 22.583 # |
| 2) SA Decachlor... | 10.106 | 8.401 | 76606038 | 164.8E6 | 38.967 | 37.477 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|-----------|-----------|-----------|
| 31) L7 AR-1260-1 | 7.183 | 6.021 | 3275.4E6 | 8449.1E6 | 34842.210 | 39303.090 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 4136.8E6 | 10589.4E6 | 35630.573 | 38914.228 |
| 33) L7 AR-1260-3 | 7.722 | 6.357 | 5193.3E6 | 9339.2E6 | 37213.017 | 37622.237 |
| 34) L7 AR-1260-4 | 8.021 | 6.822 | 3096.0E6 | 6497.1E6 | 35847.910 | 37997.013 |
| 35) L7 AR-1260-5 | 8.340 | 7.064 | 6322.0E6 | 16503.0E6 | 35014.611 | 34122.059 |

SJ
 12/28/18

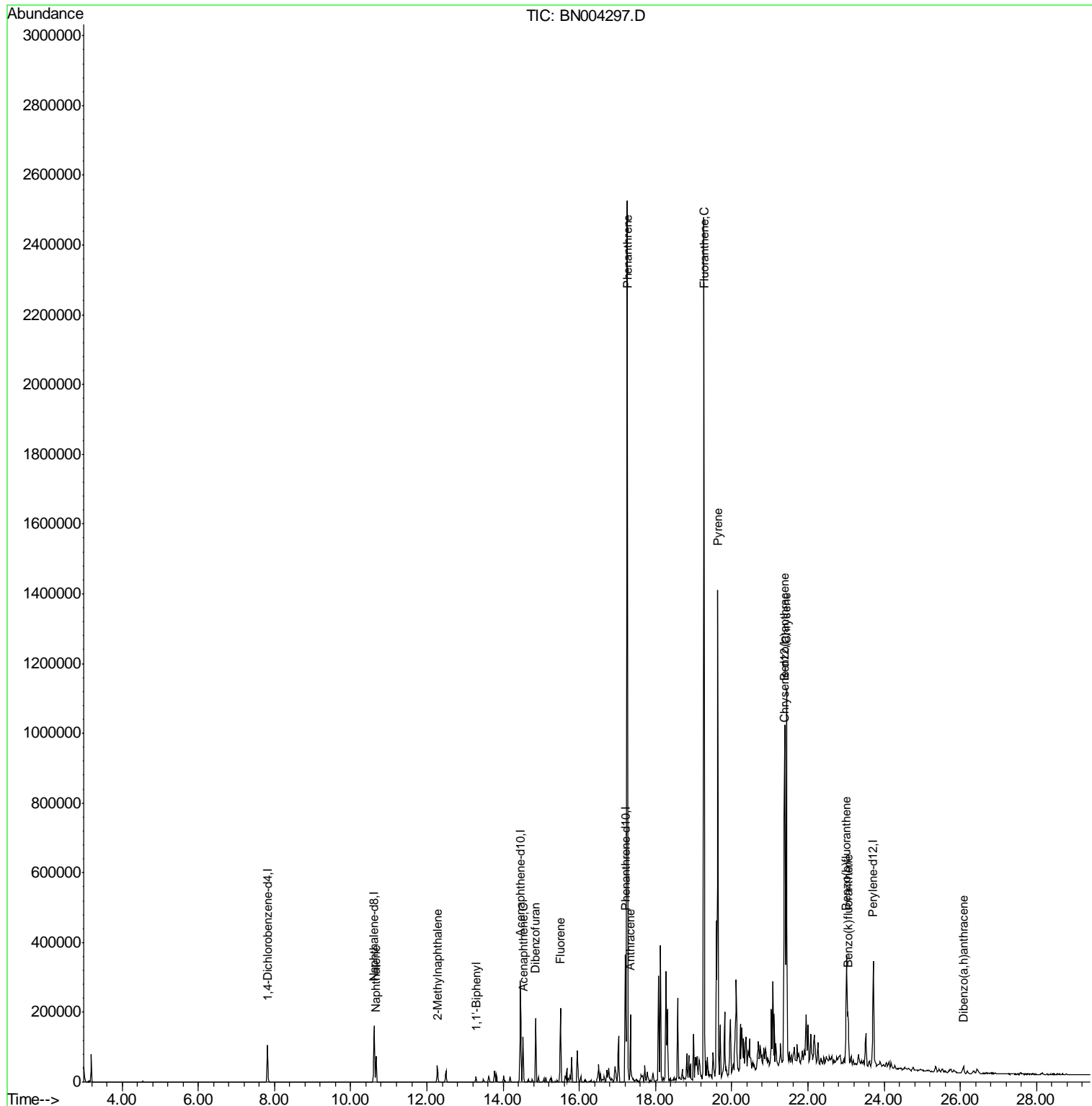
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

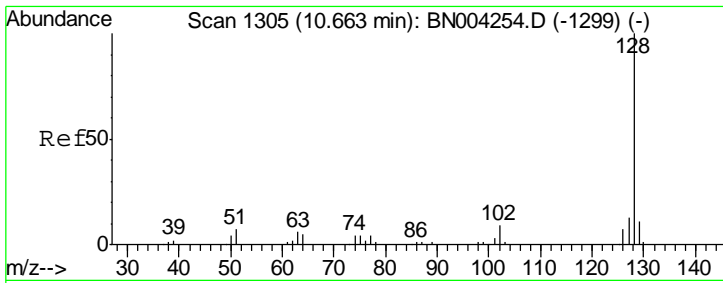
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W7

Manual Integrations
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 1/2/2019 3:42:11 PM

Quant Time: Dec 31 00:58:30 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





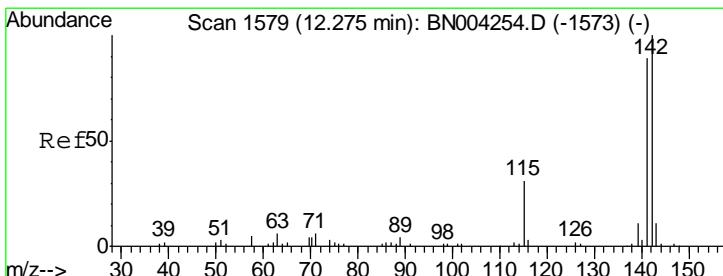
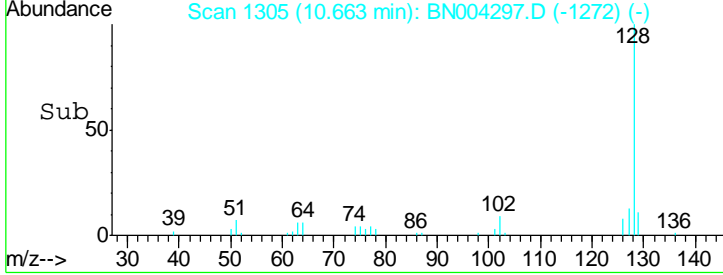
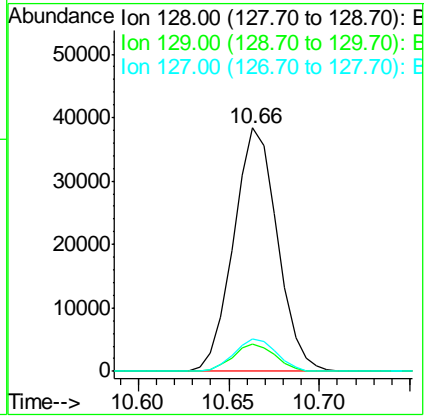
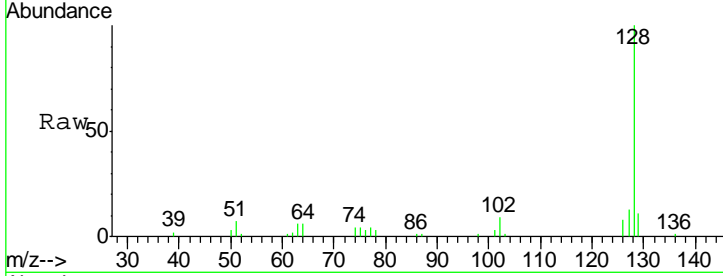
#28
 Naphthalene
 Concen: 8.350 ng/ul
 RT: 10.66 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

Instrument :
 BNA_N
ClientSampled :
 A41W7

Tgt Ion:128 Resp: 64420

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100 | | |
| 129 | 11.0 | 8.6 | 12.8 |
| 127 | 13.3 | 10.6 | 16.0 |

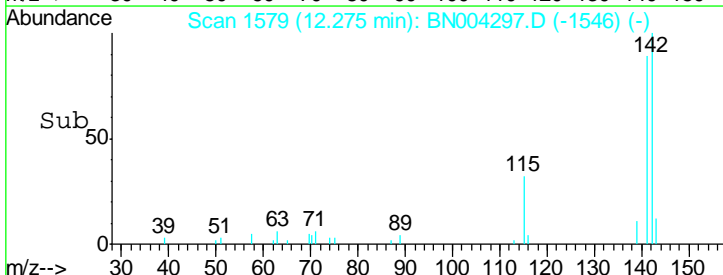
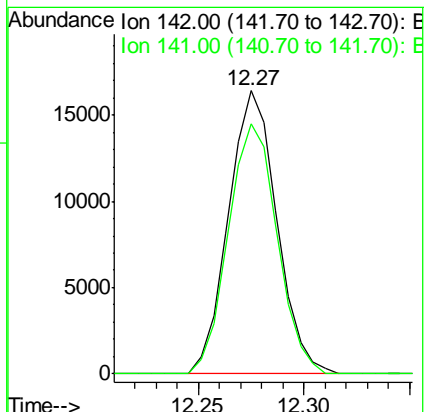
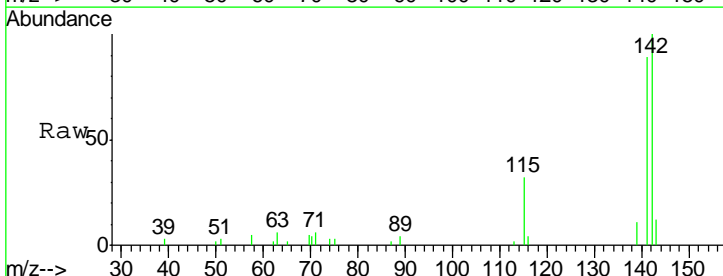
Manual Integrations
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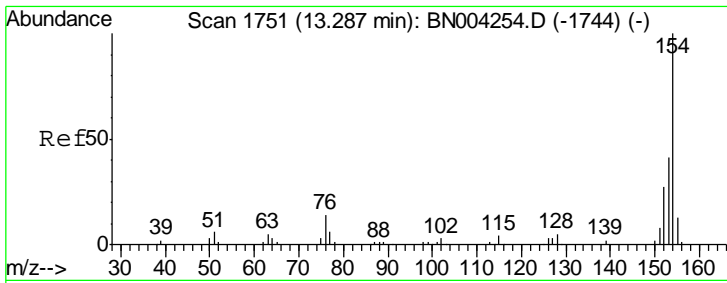


#34
 2-Methylnaphthalene
 Concen: 4.465 ng/ul
 RT: 12.27 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

Tgt Ion:142 Resp: 25946

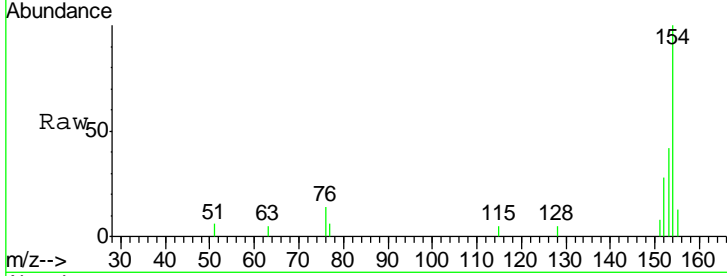
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100 | | |
| 141 | 88.6 | 70.2 | 105.2 |





#40
 1,1'-Biphenyl
 Concen: 1.415 ng/ul
 RT: 13.29 min Scan# 1751
 Delta R.T. -0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

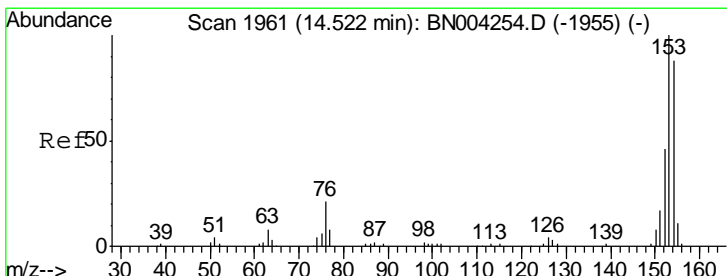
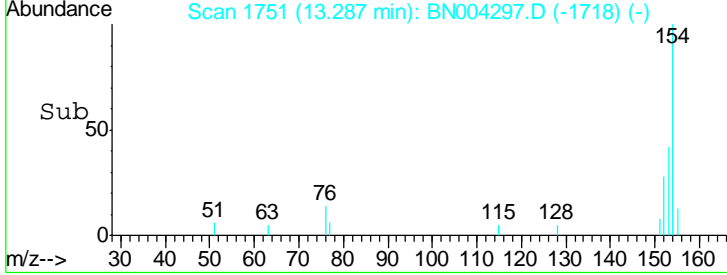
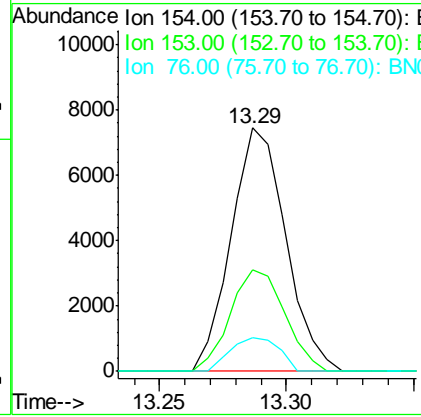
Instrument :
 BNA_N
ClientSampled :
 A41W7



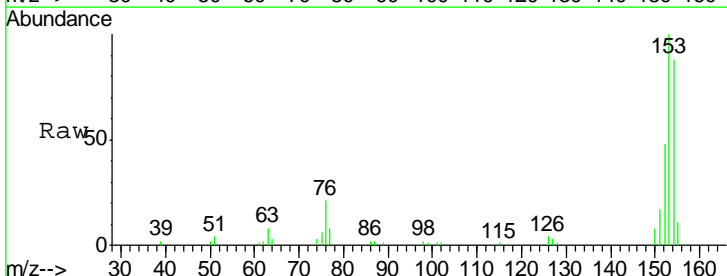
Tgt Ion:154 Resp: 11162

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100 | | |
| 153 | 41.8 | 33.1 | 49.7 |
| 76 | 14.0 | 10.6 | 16.0 |

Manual Integrations
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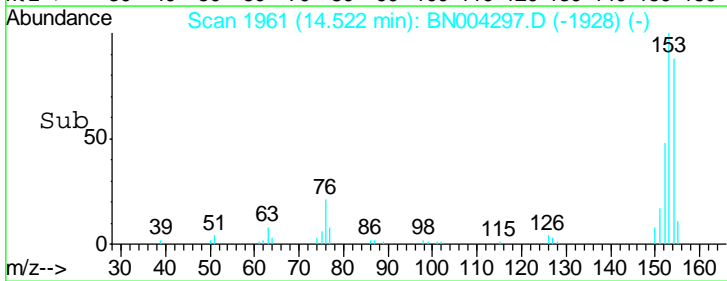
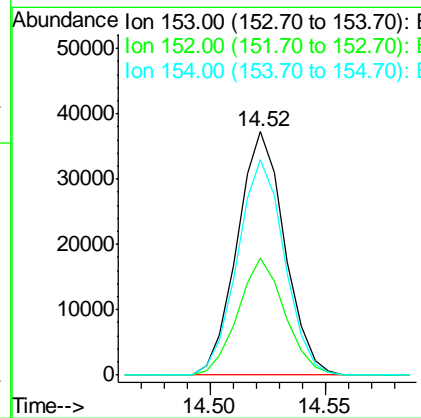


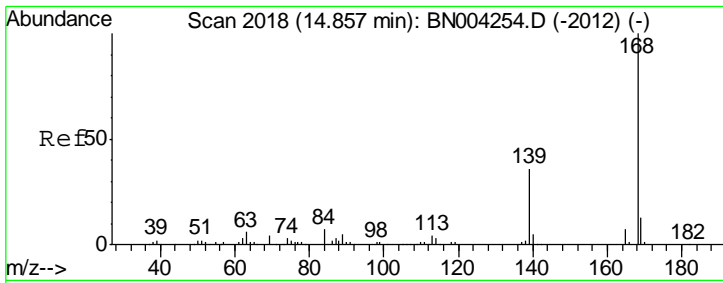
#49
 Acenaphthene
 Concen: 7.653 ng/ul
 RT: 14.52 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39



Tgt Ion:153 Resp: 53352

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100 | | |
| 152 | 47.8 | 37.8 | 56.6 |
| 154 | 88.4 | 71.0 | 106.6 |



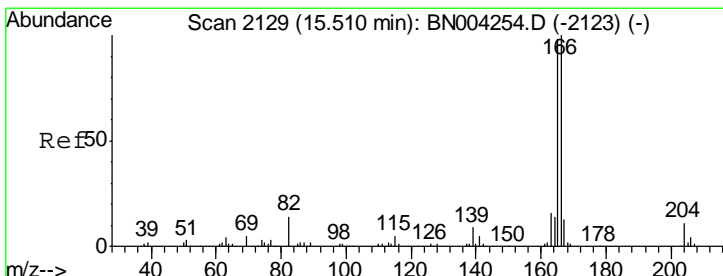
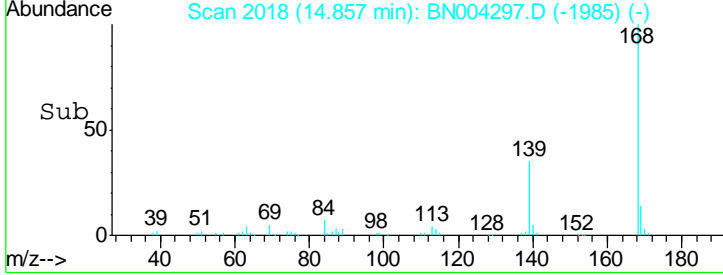
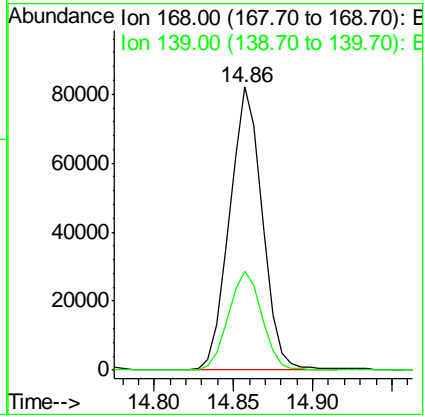
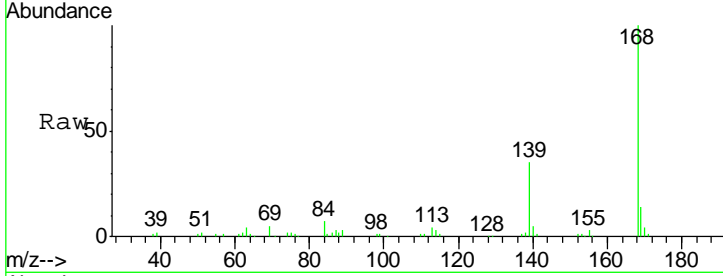


#53
 Dibenzofuran
 Concen: 11.884 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

Instrument :
 BNA_N
 ClientSampled :
 A41W7

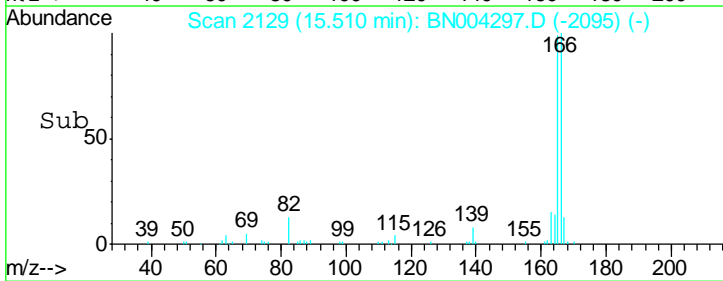
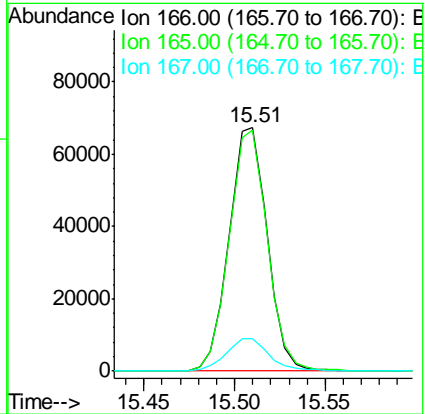
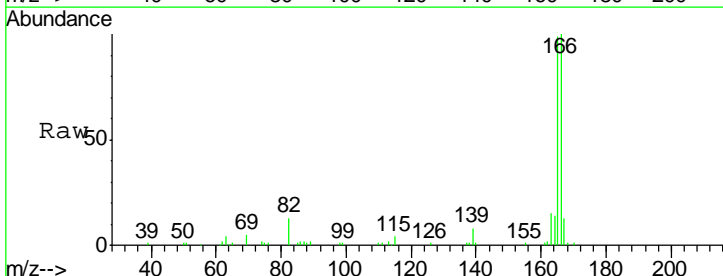
Tgt Ion:168 Resp: 117593
 Ion Ratio Lower Upper
 168 100
 139 35.1 28.8 43.2

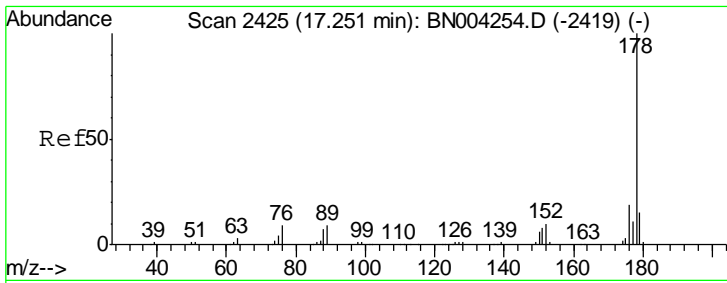
Manual Integrations
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#58
 Fluorene
 Concen: 11.978 ng/ul
 RT: 15.51 min Scan# 2129
 Delta R.T. -0.00 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

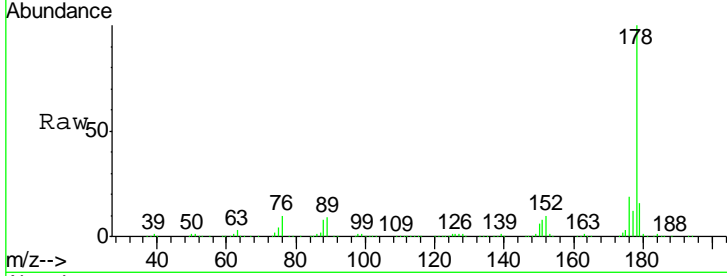
Tgt Ion:166 Resp: 98688
 Ion Ratio Lower Upper
 166 100
 165 98.9 78.6 117.8
 167 13.4 10.3 15.5





#69
 Phenanthrene
 Concen: 122.969 ng/ul
 RT: 17.26 min Scan# 2426
 Delta R.T. 0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

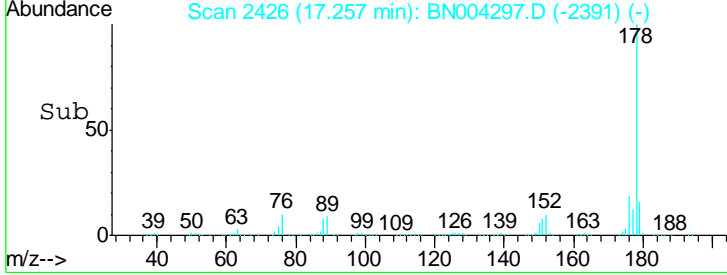
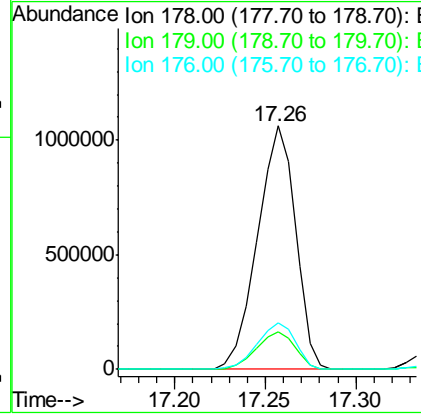
Instrument :
 BNA_N
ClientSampled :
 A41W7



Tgt Ion:178 Resp: 1548923

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.6 | 12.1 | 18.1 |
| 176 | 19.2 | 15.0 | 22.6 |

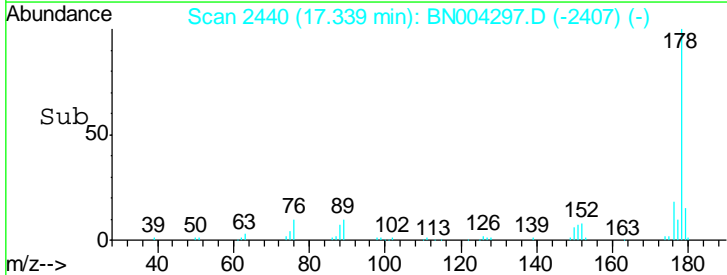
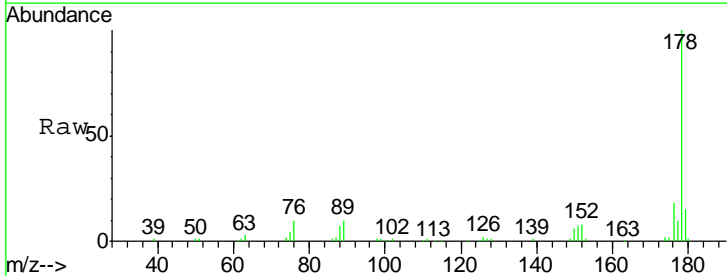
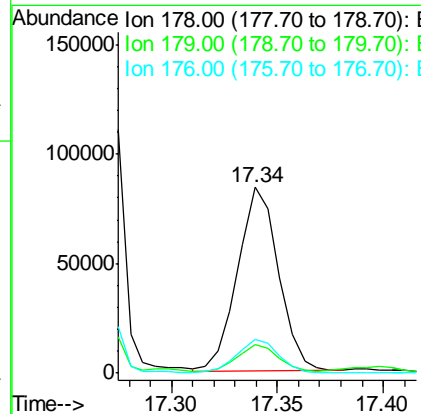
Manual Integrations
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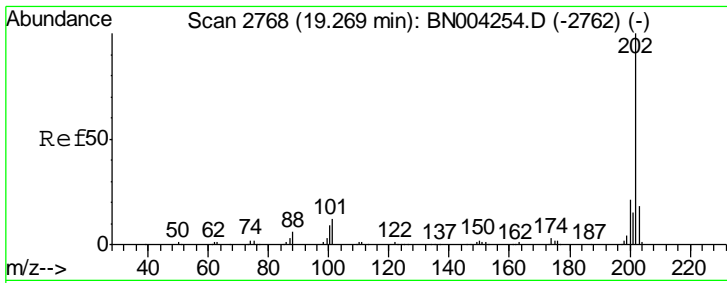


#71
 Anthracene
 Concen: 8.651 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

Tgt Ion:178 Resp: 111706

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.3 | 12.1 | 18.1 |
| 176 | 18.4 | 15.2 | 22.8 |



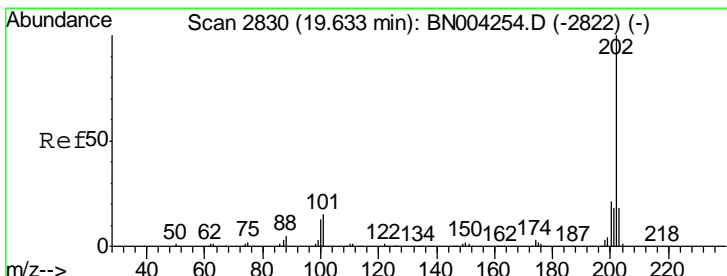
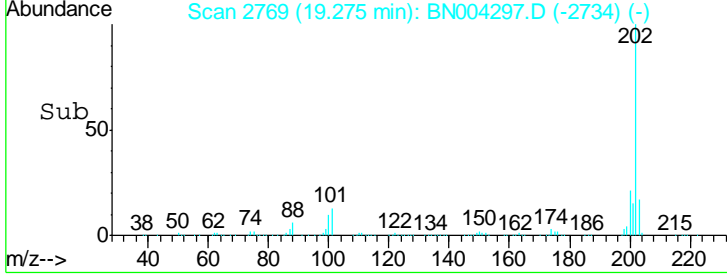
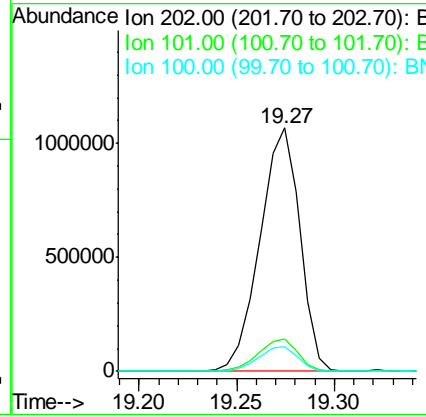
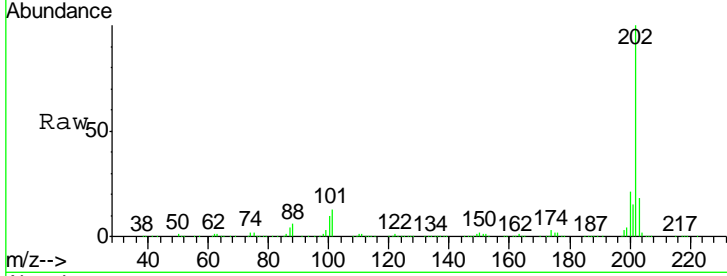


#76
 Fluoranthene
 Concen: 97.735 ng/ul
 RT: 19.27 min Scan# 2769
 Delta R.T. 0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

Instrument :
 BNA_N
 ClientSampled :
 A41W7

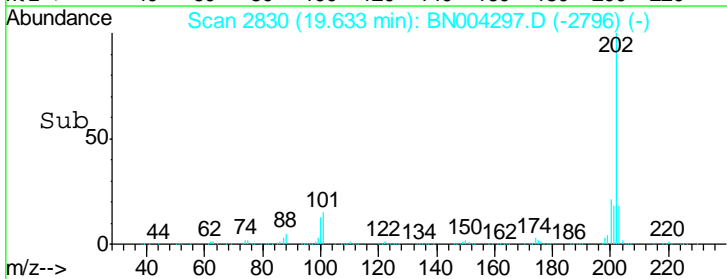
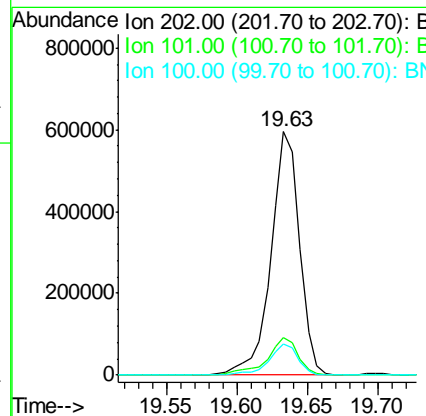
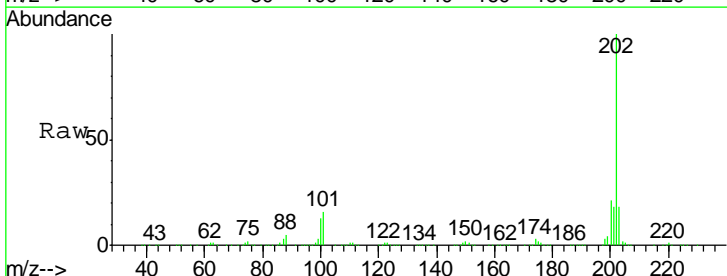
| Tgt Ion | Resp | Lower | Upper |
|---------|---------|-------|-------|
| 202 | 1508976 | | |
| 101 | 13.1 | 10.2 | 15.2 |
| 100 | 10.1 | 7.8 | 11.8 |

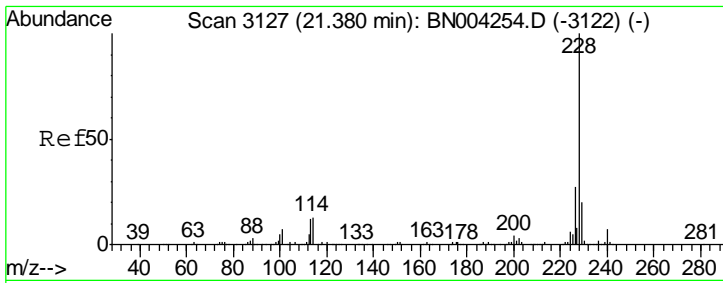
Manual Integrations
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#79
 Pyrene
 Concen: 63.790 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. -0.00 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 202 | 843369 | | |
| 101 | 15.5 | 12.2 | 18.2 |
| 100 | 12.6 | 9.9 | 14.9 |





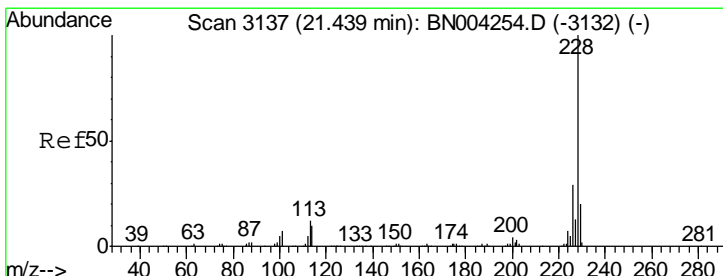
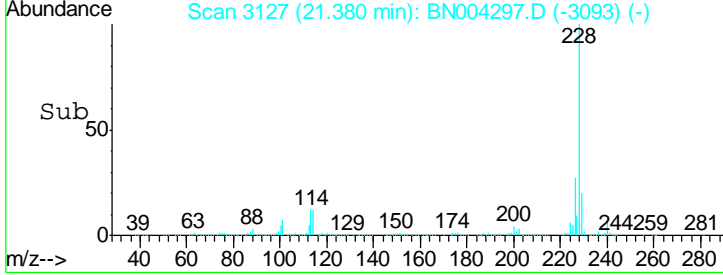
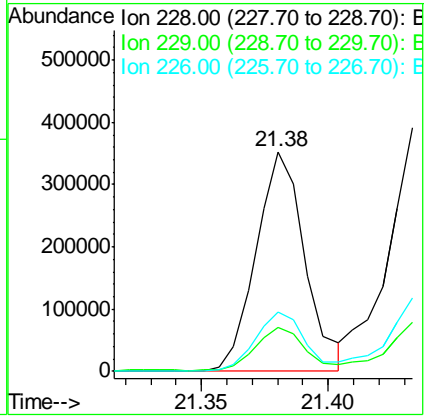
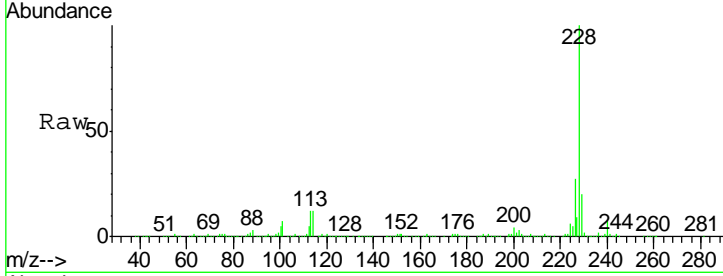
#82
 Benzo(a)anthracene
 Concen: 32.113 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. -0.00 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

Instrument :
 BNA_N
 ClientSampled :
 A41W7

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 229 | 20.2 | 15.9 | 23.9 |
| 226 | 26.8 | 21.4 | 32.2 |

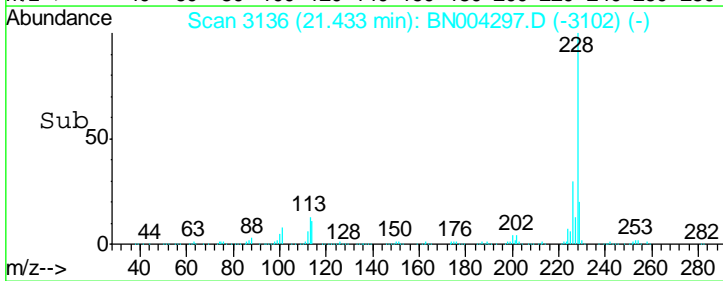
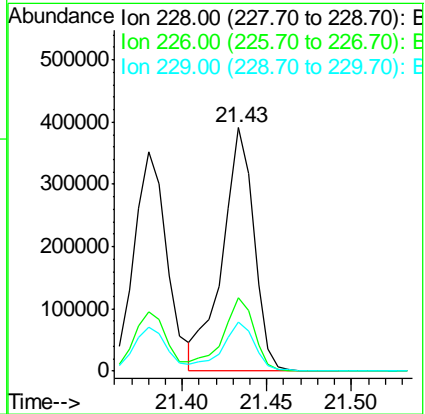
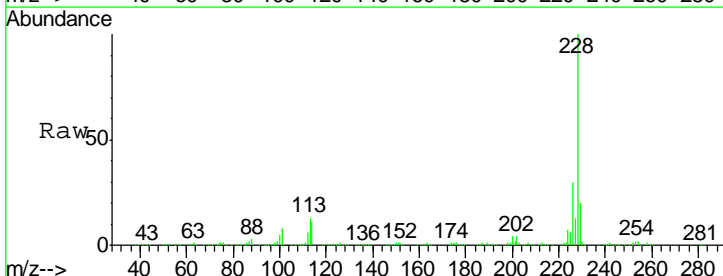
Manual Integrations
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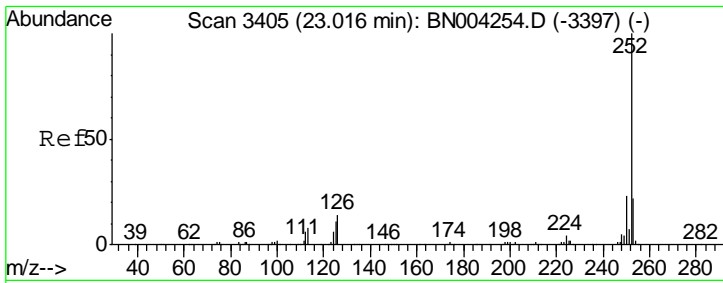
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#84
 Chrysene
 Concen: 36.596 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. -0.00 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 226 | 30.0 | 23.8 | 35.8 |
| 229 | 20.1 | 15.8 | 23.6 |





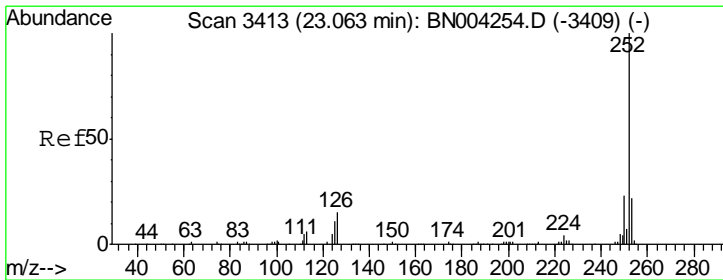
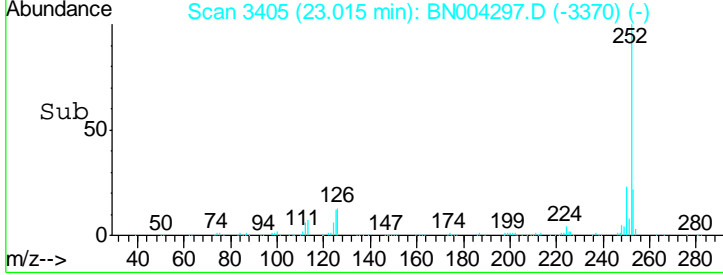
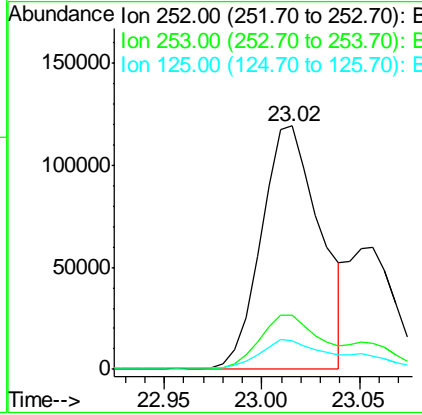
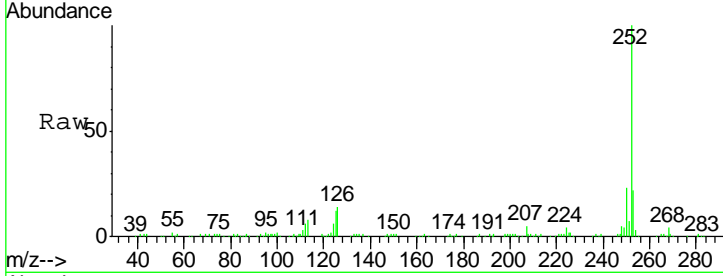
#87
 Benzo(b)fluoranthene
 Concen: 18.373 ng/ul
 RT: 23.02 min Scan# 3405
 Delta R.T. 0.01 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

Instrument :
 BNA_N
 ClientSampled :
 A41W7

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.1 | 17.3 | 25.9 |
| 125 | 12.0 | 8.2 | 12.4 |

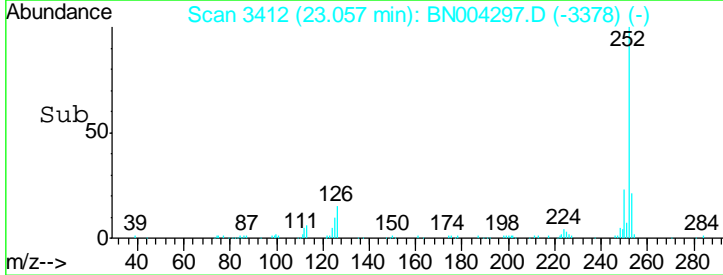
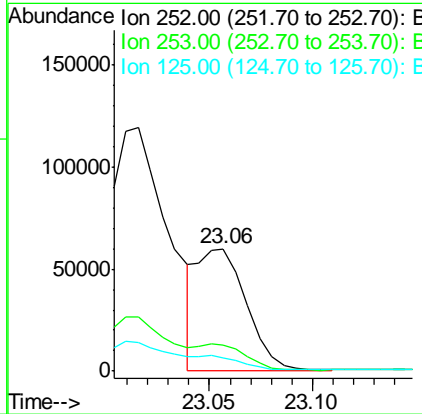
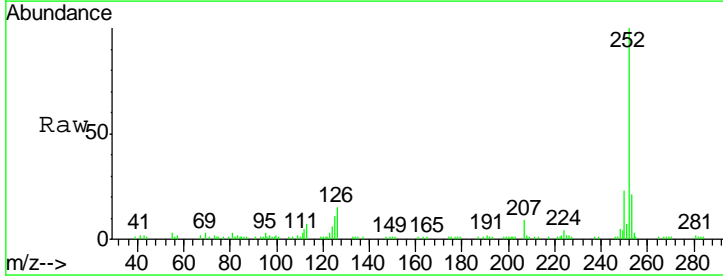
Manual Integrations
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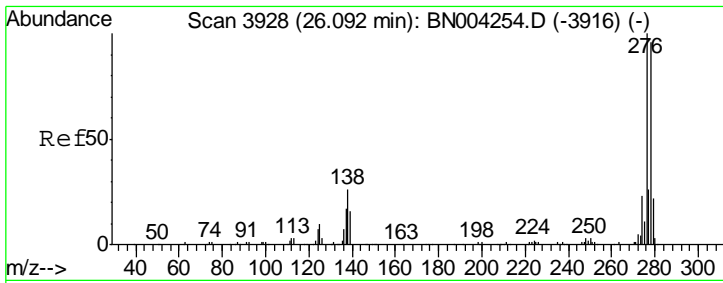
Sohil
 1/2/2019 3:42:11 PM



#88
 Benzo(k)fluoranthene
 Concen: 7.740 ng/ul m
 RT: 23.06 min Scan# 3412
 Delta R.T. -0.00 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

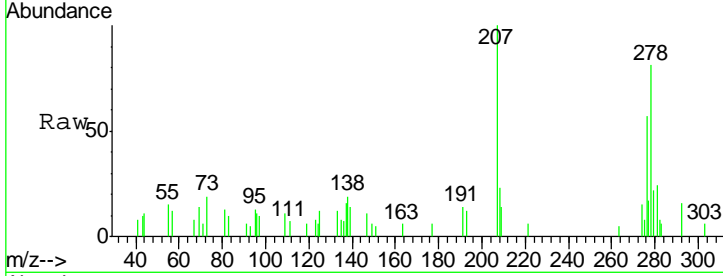
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 21.3 | 17.1 | 25.7 |
| 125 | 11.3 | 7.9 | 11.9 |





#92
 Dibenzo(a,h)anthracene
 Concen: 1.155 ng/ul
 RT: 26.08 min Scan# 3926
 Delta R.T. -0.00 min
 Lab File: BN004297.D
 Acq: 29 Dec 2018 12:39

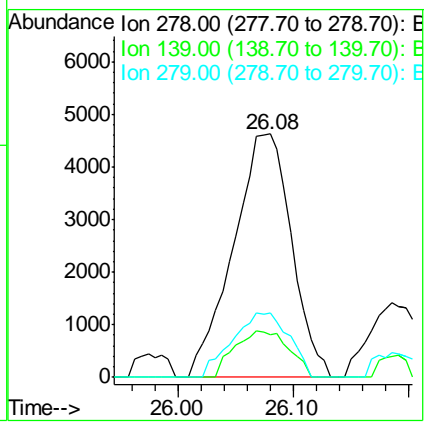
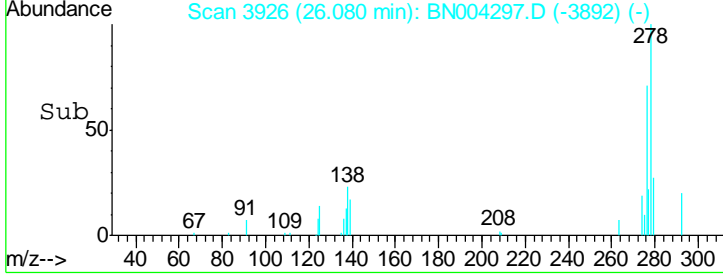
Instrument :
 BNA_N
ClientSampled :
 A41W7



Tgt Ion: 278 Resp: 16251

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100 | | |
| 139 | 17.3 | 13.3 | 19.9 |
| 279 | 26.7 | 19.0 | 28.6 |

Manual Integrations
APPROVED
 Sohil
 1/2/2019 3:42:11 PM



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W7

Manual Integrations
 APPROVED

Sohil
 1/2/2019 3:42:11 PM

Quant Time: Dec 31 00:58:30 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 30289 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 143801 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 97031 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.21 | 188 | 218005 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 236651 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 225049 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|----------------------------|-------|-----|---------|---------|-----------|
| 28) Naphthalene | 10.66 | 128 | 64420 | 8.350 | ng/ul 100 |
| 34) 2-Methylnaphthalene | 12.27 | 142 | 25946 | 4.465 | ng/ul 99 |
| 40) 1,1'-Biphenyl | 13.29 | 154 | 11162 | 1.415 | ng/ul 99 |
| 49) Acenaphthene | 14.52 | 153 | 53352 | 7.653 | ng/ul 99 |
| 53) Dibenzofuran | 14.86 | 168 | 117593 | 11.884 | ng/ul 99 |
| 58) Fluorene | 15.51 | 166 | 98688 | 11.978 | ng/ul 99 |
| 69) Phenanthrene | 17.26 | 178 | 1548923 | 122.969 | ng/ul 99 |
| 71) Anthracene | 17.34 | 178 | 111706 | 8.651 | ng/ul 99 |
| 76) Fluoranthene | 19.27 | 202 | 1508976 | 97.735 | ng/ul 99 |
| 79) Pyrene | 19.63 | 202 | 843369 | 63.790 | ng/ul 99 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 473892 | 32.113 | ng/ul 100 |
| 84) Chrysene | 21.43 | 228 | 505838 | 36.596 | ng/ul 99 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 247682 | 18.373 | ng/ul 98 |
| 88) Benzo(k)fluoranthene | 23.06 | 252 | 97706m | 7.740 | ng/ul |
| 92) Dibenzo(a,h)anthracene | 26.08 | 278 | 16251 | 1.155 | ng/ul 96 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W7

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.193 | 31 | 35 | 41 | rVB | 80542 | 87764 | 2.40% | 0.335% |
| 2 | 7.816 | 816 | 821 | 829 | rBB | 106275 | 160410 | 4.39% | 0.613% |
| 3 | 10.616 | 1290 | 1297 | 1301 | rBV | 161779 | 270414 | 7.40% | 1.033% |
| 4 | 10.663 | 1301 | 1305 | 1313 | rVB | 74546 | 118214 | 3.23% | 0.452% |
| 5 | 12.275 | 1574 | 1579 | 1586 | rBB | 48758 | 72966 | 2.00% | 0.279% |
| 6 | 12.498 | 1610 | 1617 | 1623 | rBB | 32596 | 49698 | 1.36% | 0.190% |
| 7 | 13.775 | 1828 | 1834 | 1839 | rBV | 32721 | 52317 | 1.43% | 0.200% |
| 8 | 14.457 | 1945 | 1950 | 1956 | rVB2 | 288082 | 431878 | 11.81% | 1.650% |
| 9 | 14.522 | 1956 | 1961 | 1968 | rVB | 131035 | 188897 | 5.17% | 0.722% |
| 10 | 14.857 | 2011 | 2018 | 2025 | rBV | 183306 | 262703 | 7.19% | 1.004% |
| 11 | 15.504 | 2121 | 2128 | 2138 | rBB | 210980 | 324714 | 8.88% | 1.240% |
| 12 | 15.669 | 2152 | 2156 | 2160 | rVB | 38179 | 52170 | 1.43% | 0.199% |
| 13 | 15.798 | 2174 | 2178 | 2183 | rVB | 70634 | 96934 | 2.65% | 0.370% |
| 14 | 15.945 | 2198 | 2203 | 2211 | rBV | 88581 | 157971 | 4.32% | 0.603% |
| 15 | 16.510 | 2288 | 2299 | 2303 | rBV3 | 51479 | 106193 | 2.90% | 0.406% |
| 16 | 16.728 | 2329 | 2336 | 2340 | rBV3 | 35460 | 68338 | 1.87% | 0.261% |
| 17 | 16.928 | 2364 | 2370 | 2372 | rBV | 43988 | 63014 | 1.72% | 0.241% |
| 18 | 16.951 | 2372 | 2374 | 2382 | rVV2 | 37786 | 58483 | 1.60% | 0.223% |
| 19 | 17.028 | 2382 | 2387 | 2394 | rVB | 132344 | 194326 | 5.32% | 0.742% |
| 20 | 17.210 | 2411 | 2418 | 2421 | rBV | 364878 | 552671 | 15.12% | 2.111% |
| 21 | 17.257 | 2421 | 2426 | 2431 | rVV | 2520120 | 3655576 | 100.00% | 13.965% |
| 22 | 17.339 | 2435 | 2440 | 2445 | rBV | 187090 | 247975 | 6.78% | 0.947% |
| 23 | 17.628 | 2480 | 2489 | 2492 | rBV3 | 21938 | 48164 | 1.32% | 0.184% |
| 24 | 17.716 | 2500 | 2504 | 2509 | rVV | 47018 | 63262 | 1.73% | 0.242% |
| 25 | 17.786 | 2509 | 2516 | 2525 | rVB2 | 27506 | 58545 | 1.60% | 0.224% |
| 26 | 17.928 | 2534 | 2540 | 2547 | rBV3 | 23145 | 46638 | 1.28% | 0.178% |
| 27 | 18.080 | 2560 | 2566 | 2570 | rBV | 299623 | 420189 | 11.49% | 1.605% |
| 28 | 18.128 | 2570 | 2574 | 2580 | rVB | 387538 | 531242 | 14.53% | 2.029% |
| 29 | 18.275 | 2592 | 2599 | 2603 | rBV2 | 311857 | 578093 | 15.81% | 2.208% |
| 30 | 18.310 | 2603 | 2605 | 2611 | rVB | 204429 | 234288 | 6.41% | 0.895% |
| 31 | 18.580 | 2645 | 2651 | 2657 | rBV | 234737 | 315850 | 8.64% | 1.207% |
| 32 | 18.698 | 2667 | 2671 | 2676 | rBV | 31474 | 41714 | 1.14% | 0.159% |
| 33 | 18.822 | 2684 | 2692 | 2697 | rBV | 73923 | 106715 | 2.92% | 0.408% |
| 34 | 18.875 | 2697 | 2701 | 2704 | rVV | 67759 | 80534 | 2.20% | 0.308% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W7

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 18.916 | 2704 | 2708 | 2711 | rVB | 42309 | 51039 | 1.40% | 0.195% |
| 36 | 18.998 | 2716 | 2722 | 2726 | rBV | 132988 | 200777 | 5.49% | 0.767% |
| 37 | 19.057 | 2726 | 2732 | 2735 | rBV2 | 58690 | 131147 | 3.59% | 0.501% |
| 38 | 19.086 | 2735 | 2737 | 2741 | rVB | 52957 | 62573 | 1.71% | 0.239% |
| 39 | 19.133 | 2741 | 2745 | 2748 | rBV | 41946 | 57400 | 1.57% | 0.219% |
| 40 | 19.275 | 2761 | 2769 | 2774 | rBV | 2470491 | 3566463 | 97.56% | 13.625% |
| 41 | 19.322 | 2774 | 2777 | 2780 | rVV | 45677 | 53548 | 1.46% | 0.205% |
| 42 | 19.357 | 2780 | 2783 | 2787 | rVB2 | 51416 | 64530 | 1.77% | 0.247% |
| 43 | 19.510 | 2803 | 2809 | 2817 | rBV2 | 73640 | 143311 | 3.92% | 0.547% |
| 44 | 19.598 | 2817 | 2824 | 2826 | rVV2 | 449256 | 679003 | 18.57% | 2.594% |
| 45 | 19.633 | 2826 | 2830 | 2836 | rVV | 1396006 | 1957081 | 53.54% | 7.477% |
| 46 | 19.698 | 2836 | 2841 | 2846 | rVB | 150210 | 203905 | 5.58% | 0.779% |
| 47 | 19.810 | 2846 | 2860 | 2864 | rBV | 186552 | 312482 | 8.55% | 1.194% |
| 48 | 19.857 | 2864 | 2868 | 2873 | rVB4 | 23375 | 43994 | 1.20% | 0.168% |
| 49 | 19.963 | 2878 | 2886 | 2891 | rBV2 | 160126 | 328193 | 8.98% | 1.254% |
| 50 | 20.027 | 2891 | 2897 | 2901 | rBV5 | 25876 | 46397 | 1.27% | 0.177% |
| 51 | 20.122 | 2901 | 2913 | 2918 | rVV2 | 260347 | 638487 | 17.47% | 2.439% |
| 52 | 20.222 | 2926 | 2930 | 2933 | rBV | 127016 | 157847 | 4.32% | 0.603% |
| 53 | 20.263 | 2933 | 2937 | 2944 | rVV2 | 110730 | 234322 | 6.41% | 0.895% |
| 54 | 20.316 | 2944 | 2946 | 2950 | rVB | 72341 | 73279 | 2.00% | 0.280% |
| 55 | 20.374 | 2950 | 2956 | 2961 | rVB3 | 82617 | 171089 | 4.68% | 0.654% |
| 56 | 20.427 | 2961 | 2965 | 2967 | rBV | 41239 | 61633 | 1.69% | 0.235% |
| 57 | 20.469 | 2969 | 2972 | 2975 | rVB2 | 51834 | 62372 | 1.71% | 0.238% |
| 58 | 20.680 | 3002 | 3008 | 3009 | rBV3 | 52624 | 84785 | 2.32% | 0.324% |
| 59 | 20.704 | 3009 | 3012 | 3016 | rVV4 | 62257 | 97271 | 2.66% | 0.372% |
| 60 | 20.751 | 3016 | 3020 | 3023 | rVV2 | 41497 | 65220 | 1.78% | 0.249% |
| 61 | 20.839 | 3030 | 3035 | 3038 | rBV4 | 42955 | 64243 | 1.76% | 0.245% |
| 62 | 20.874 | 3038 | 3041 | 3045 | rVV2 | 30416 | 39068 | 1.07% | 0.149% |
| 63 | 21.039 | 3065 | 3069 | 3072 | rBV | 150944 | 186556 | 5.10% | 0.713% |
| 64 | 21.074 | 3072 | 3075 | 3079 | rVV | 234085 | 321939 | 8.81% | 1.230% |
| 65 | 21.116 | 3079 | 3082 | 3086 | rVV | 144607 | 177349 | 4.85% | 0.678% |
| 66 | 21.157 | 3086 | 3089 | 3100 | rVB3 | 62886 | 109529 | 3.00% | 0.418% |
| 67 | 21.280 | 3106 | 3110 | 3116 | rVB | 55898 | 78425 | 2.15% | 0.300% |
| 68 | 21.386 | 3120 | 3128 | 3133 | rVV2 | 966227 | 2126603 | 58.17% | 8.124% |
| 69 | 21.433 | 3133 | 3136 | 3142 | rVV | 1072010 | 1309654 | 35.83% | 5.003% |
| 70 | 21.510 | 3146 | 3149 | 3153 | rVB3 | 31300 | 41580 | 1.14% | 0.159% |
| 71 | 21.557 | 3153 | 3157 | 3162 | rBV5 | 22510 | 36665 | 1.00% | 0.140% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W7

Integration Parameters: LSCINT.P
 Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 21.721 | 3181 | 3185 | 3189 | rBV2 | 47917 | 64352 | 1.76% | 0.246% |
| 73 | 21.957 | 3218 | 3225 | 3229 | rVV | 122043 | 209747 | 5.74% | 0.801% |
| 74 | 22.004 | 3230 | 3233 | 3238 | rVB | 106693 | 148838 | 4.07% | 0.569% |
| 75 | 22.074 | 3240 | 3245 | 3249 | rBV2 | 77912 | 128682 | 3.52% | 0.492% |
| 76 | 22.163 | 3255 | 3260 | 3271 | rVB2 | 78287 | 203552 | 5.57% | 0.778% |
| 77 | 22.257 | 3272 | 3276 | 3285 | rVB | 62935 | 102597 | 2.81% | 0.392% |
| 78 | 23.015 | 3398 | 3405 | 3409 | rBV | 306261 | 637780 | 17.45% | 2.436% |
| 79 | 23.127 | 3421 | 3424 | 3430 | rVB | 25148 | 39774 | 1.09% | 0.152% |
| 80 | 23.321 | 3453 | 3457 | 3467 | rVB | 26027 | 57219 | 1.57% | 0.219% |
| 81 | 23.515 | 3484 | 3490 | 3499 | rVB2 | 94664 | 189096 | 5.17% | 0.722% |
| 82 | 23.715 | 3517 | 3524 | 3532 | rBV2 | 290204 | 555961 | 15.21% | 2.124% |

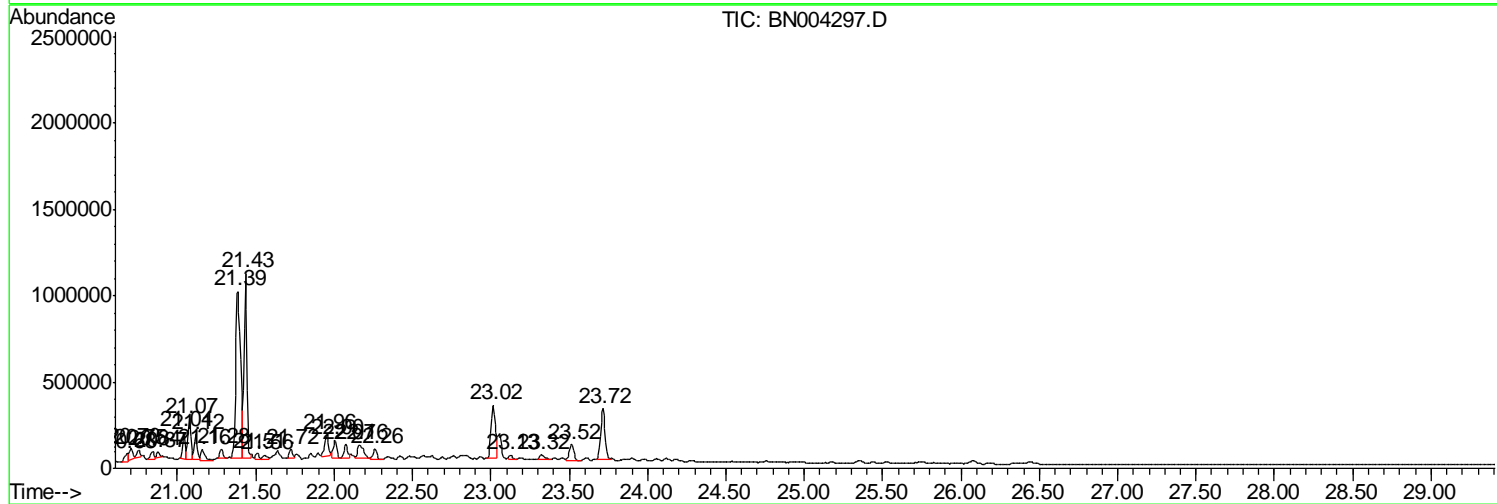
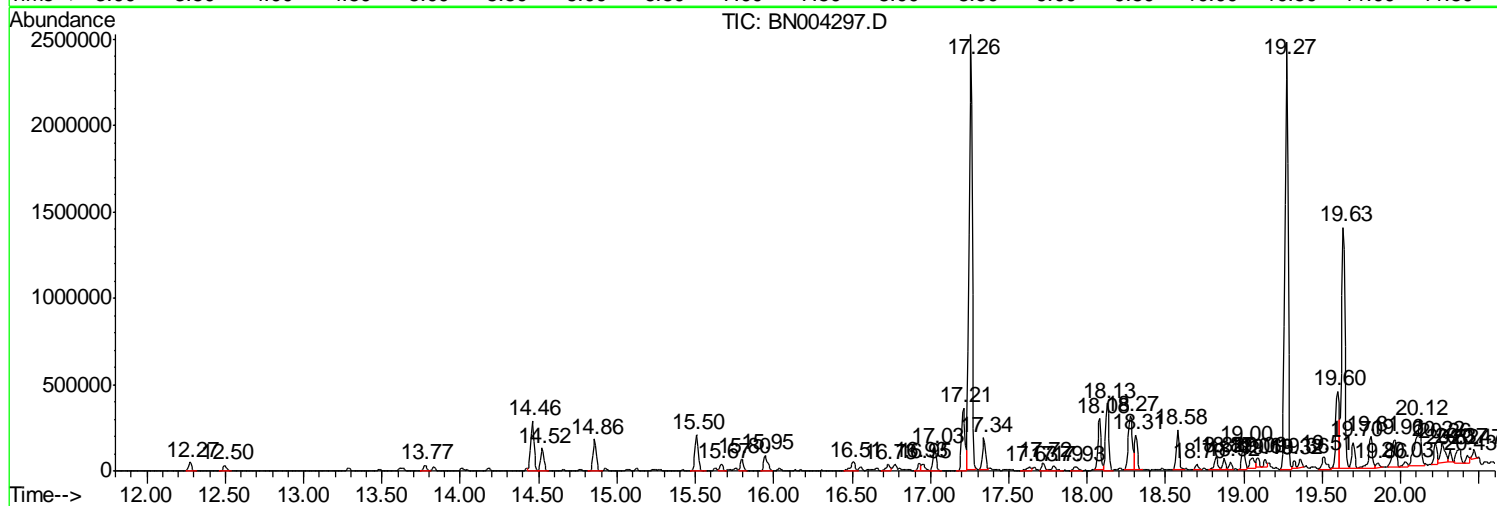
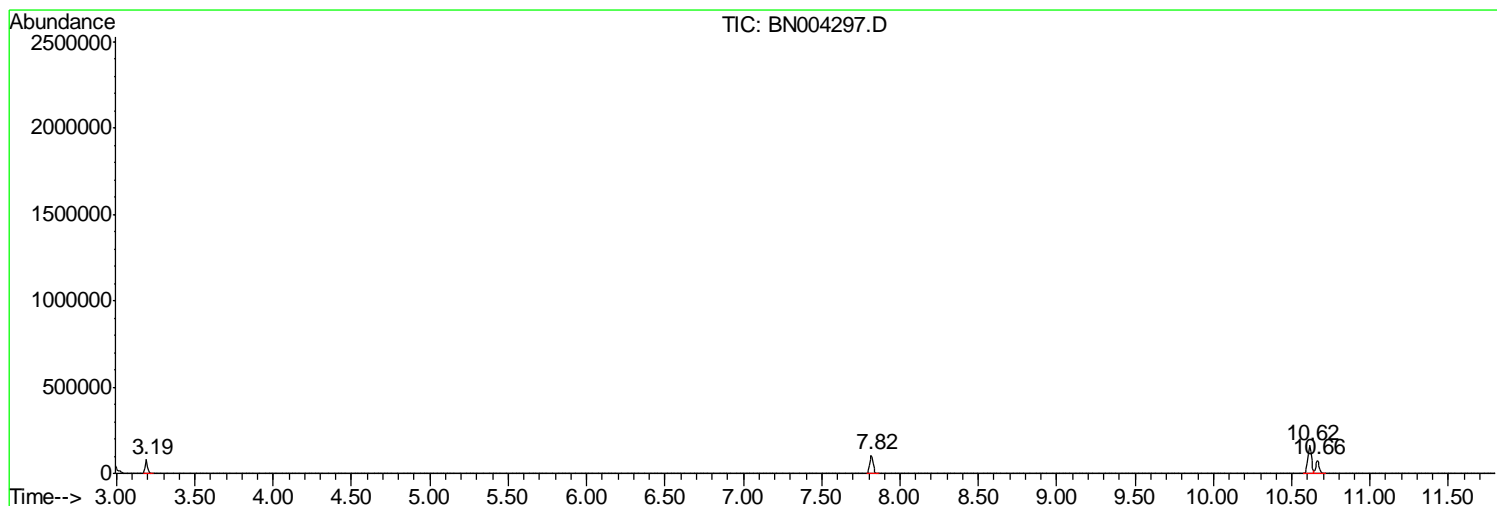
Sum of corrected areas: 26176217

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W7

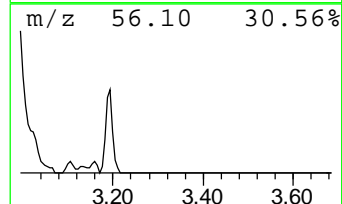
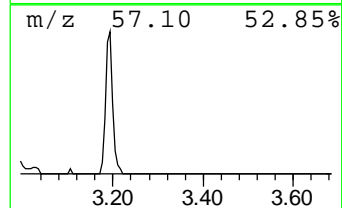
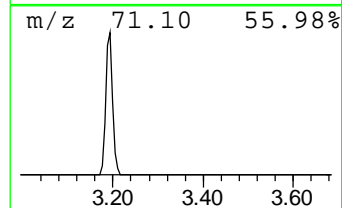
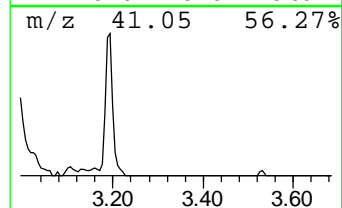
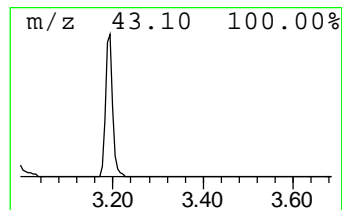
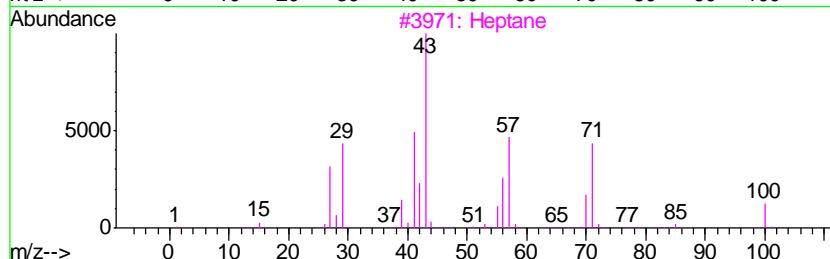
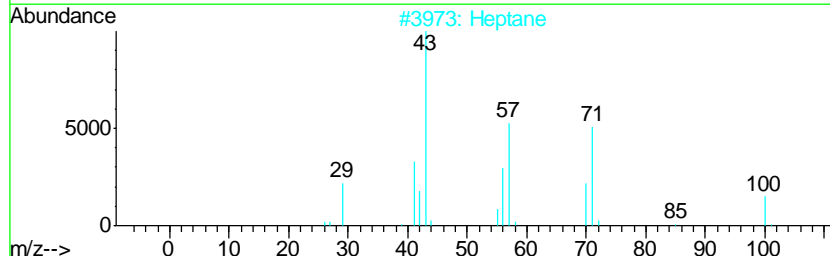
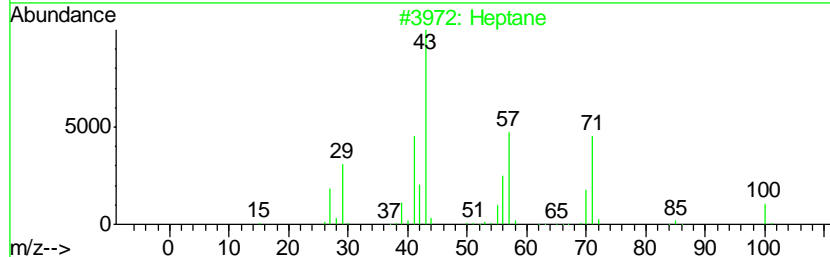
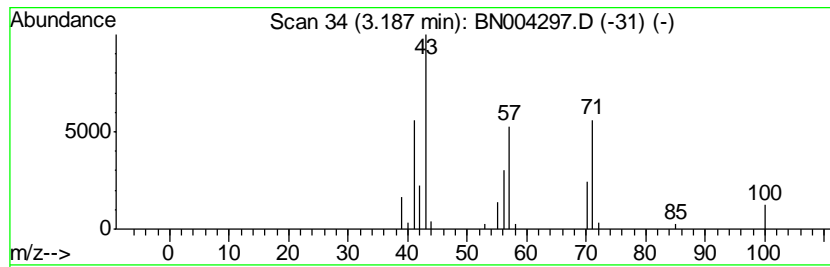
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 10.94 ng/ul | 87764 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 90 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W7

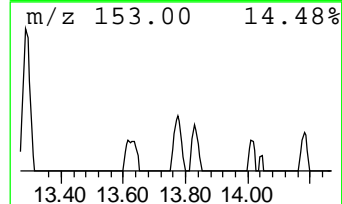
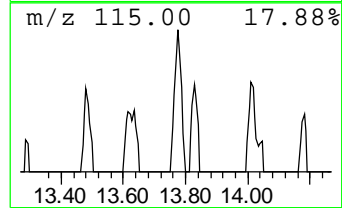
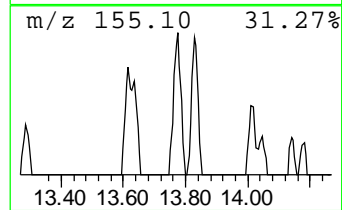
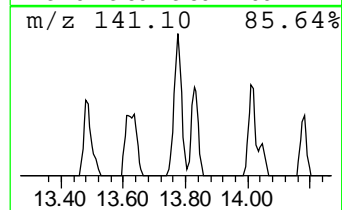
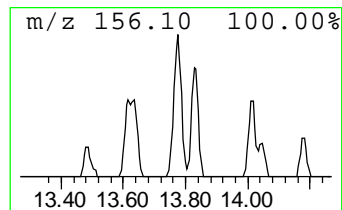
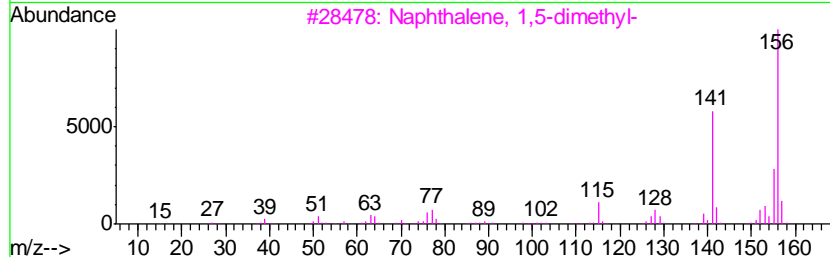
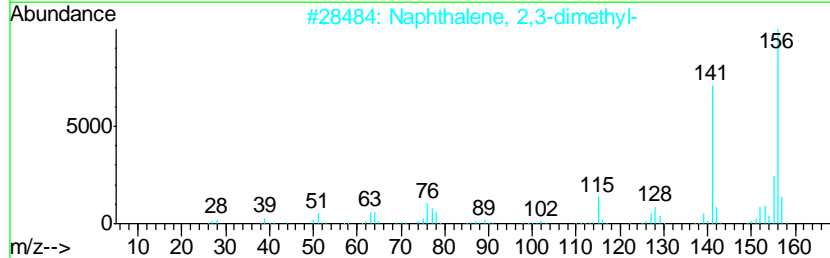
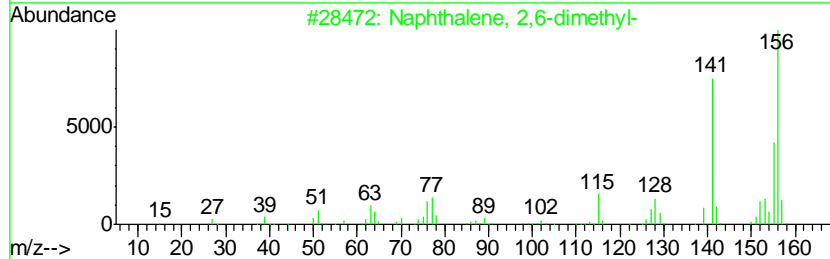
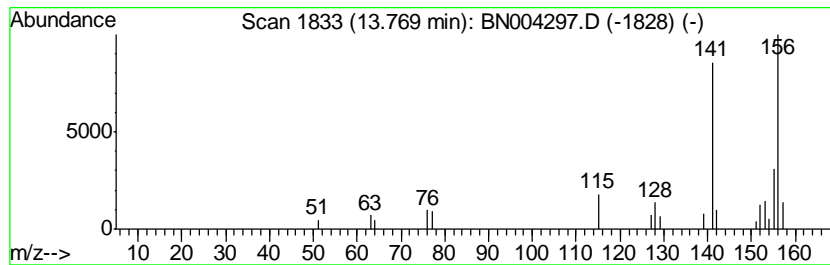
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 13.77 | 2.42 ng/ul | 52317 | Acenaphthene-d10 | 14.46 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1 | 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 2 | | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 3 | | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 4 | | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 5 | | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W7

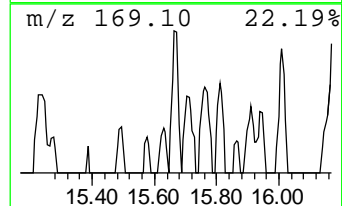
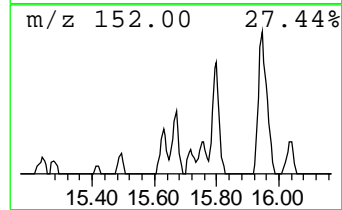
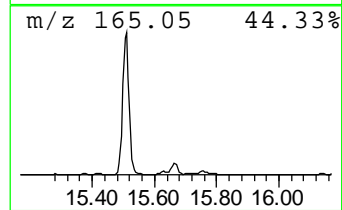
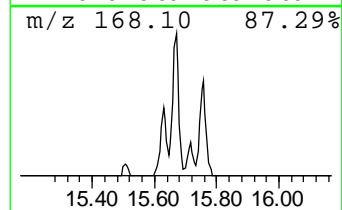
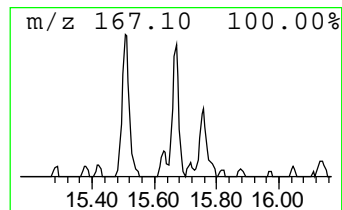
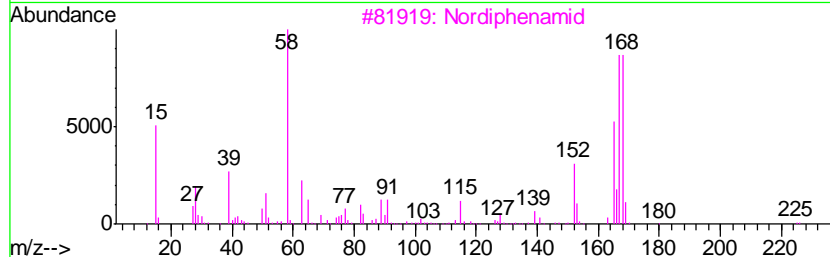
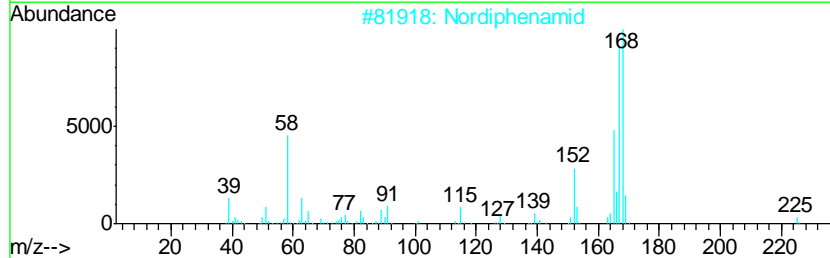
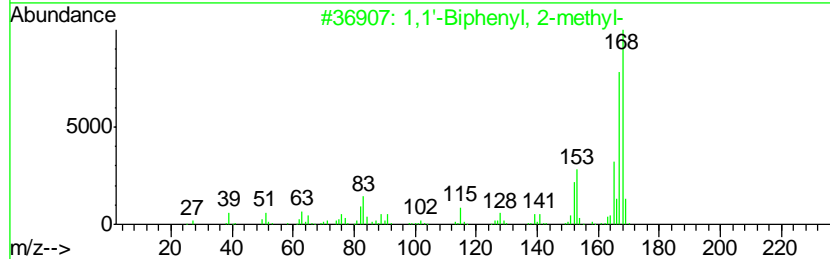
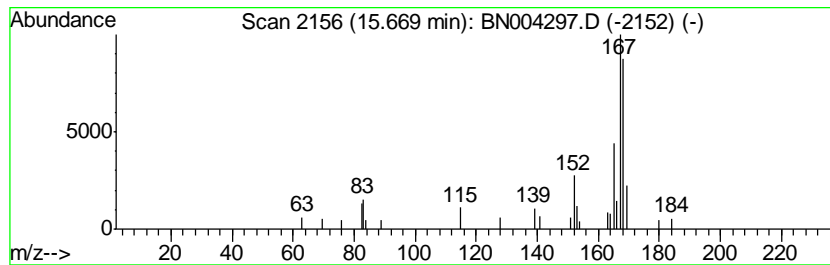
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 1,1'-Biphenyl, 2-methyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 15.67 | 2.42 ng/ul | 52170 | Acenaphthene-d10 | 14.46 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 86 |
| 2 | | Nordiphenamid | 225 | C15H15NO | 000954-21-2 | 78 |
| 3 | | Nordiphenamid | 225 | C15H15NO | 000954-21-2 | 78 |
| 4 | | Benzeneethanol, .alpha.,.alpha.,... | 350 | C26H22O | 000981-24-8 | 78 |
| 5 | | Fluorene, 1,4-dihydro- | 168 | C13H12 | 041593-21-9 | 70 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W7

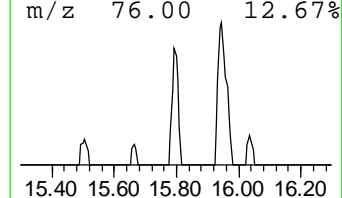
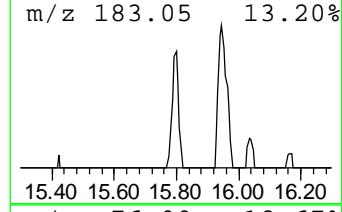
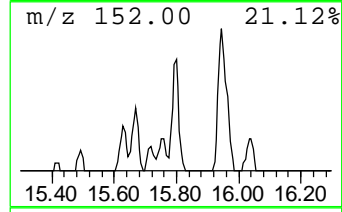
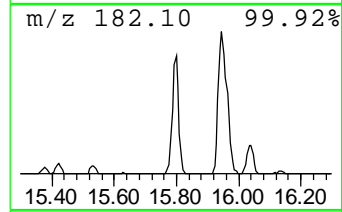
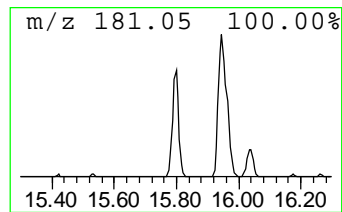
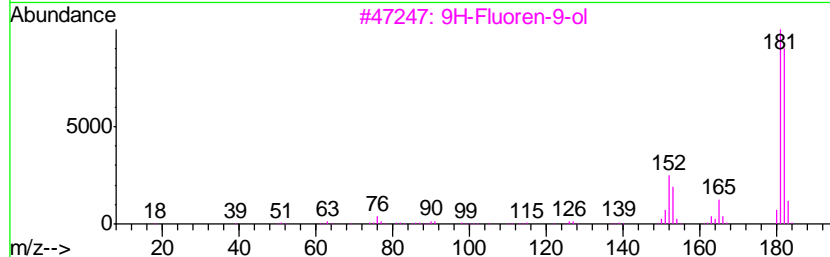
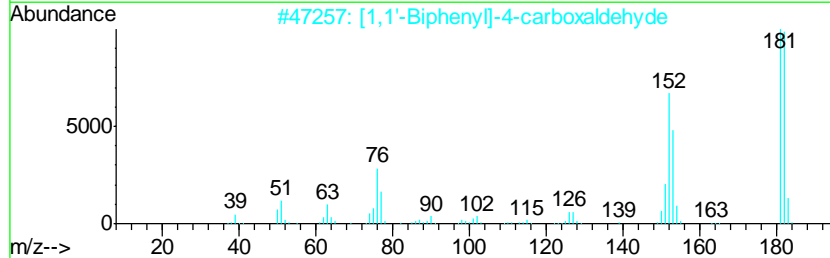
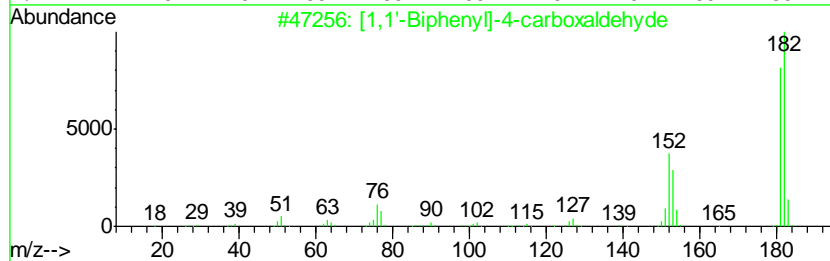
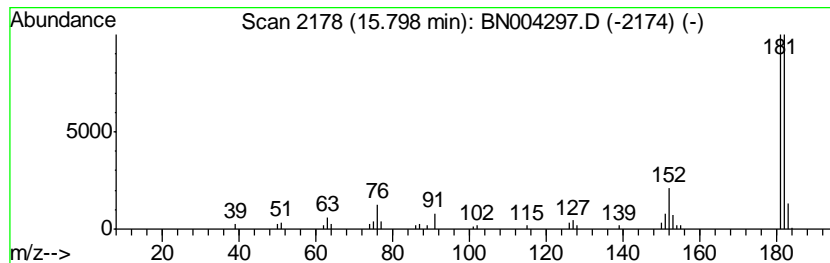
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 15.80 | 4.49 ng/ul | 96934 | Acenaphthene-d10 | 14.46 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 91 |
| 2 | | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 83 |
| 3 | | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 83 |
| 4 | | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 81 |
| 5 | | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 78 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
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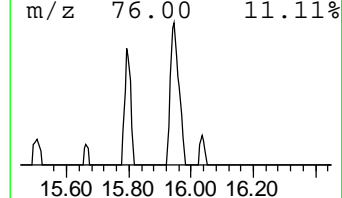
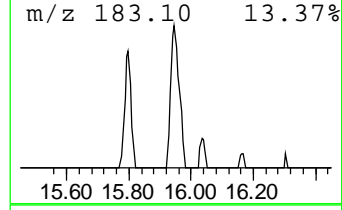
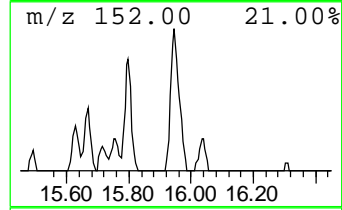
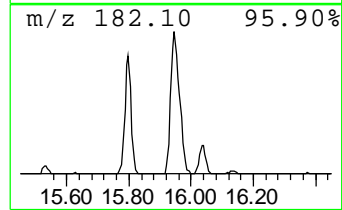
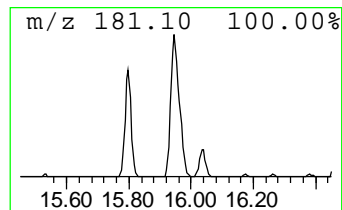
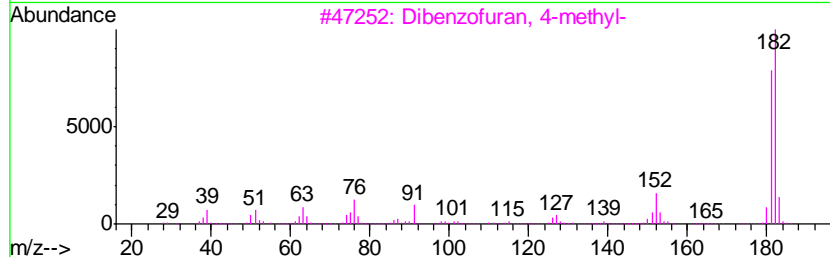
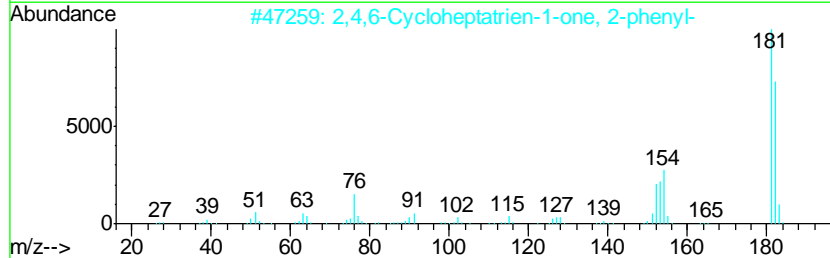
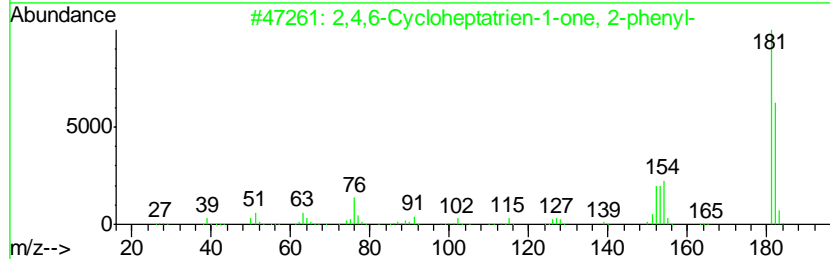
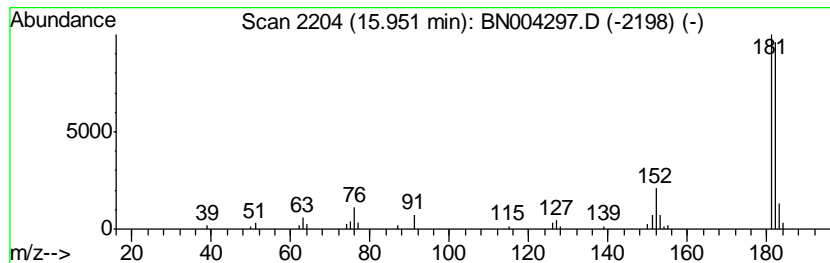
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 2,4,6-Cycloheptatrien-1-one... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 15.95 | 5.72 ng/ul | 157971 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 90 |
| 2 | | 2,4,6-Cycloheptatrien-1-one, 2-p... | 182 | C13H10O | 014562-09-5 | 86 |
| 3 | | Dibenzofuran, 4-methyl- | 182 | C13H10O | 007320-53-8 | 81 |
| 4 | | [1,1'-Biphenyl]-4-carboxaldehyde | 182 | C13H10O | 003218-36-8 | 78 |
| 5 | | 9H-Fluoren-9-ol | 182 | C13H10O | 001689-64-1 | 78 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W7

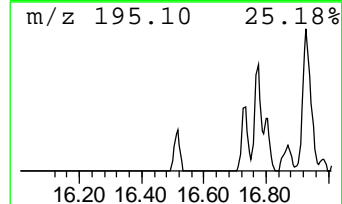
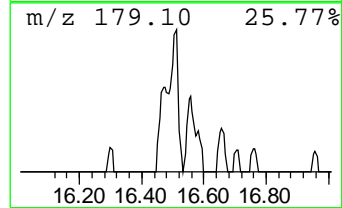
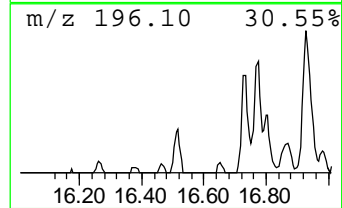
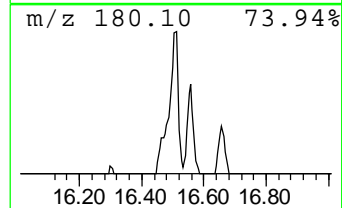
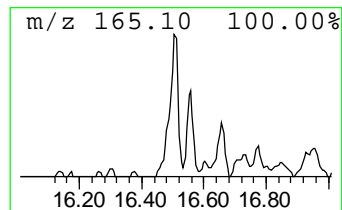
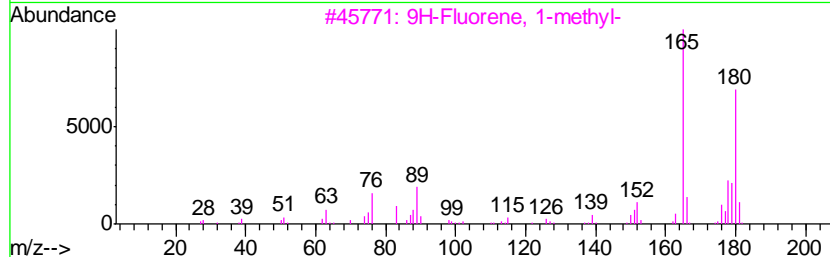
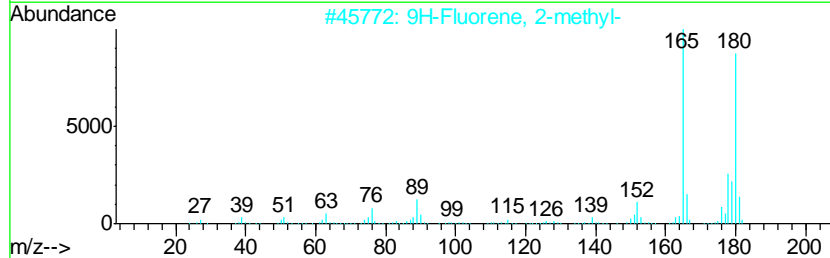
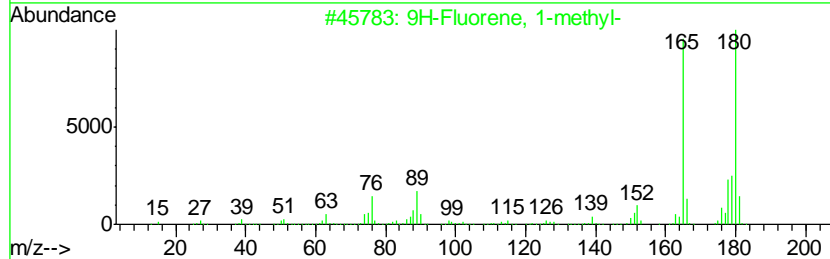
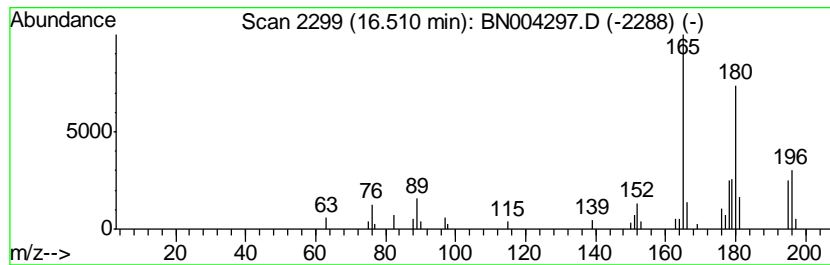
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 16.51 | 3.84 ng/ul | 106193 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1 | 5 | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 98 |
| 2 | | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 96 |
| 3 | | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 96 |
| 4 | | 9H-Fluorene, 2-methyl- | 180 | C14H12 | 001430-97-3 | 95 |
| 5 | | 9H-Fluorene, 1-methyl- | 180 | C14H12 | 001730-37-6 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
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Instrument :
 BNA_N
 ClientSampleId :
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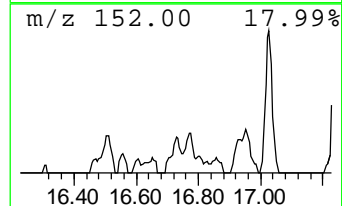
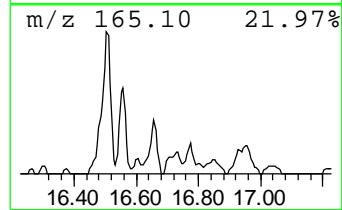
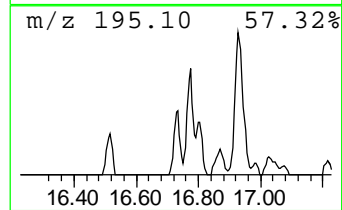
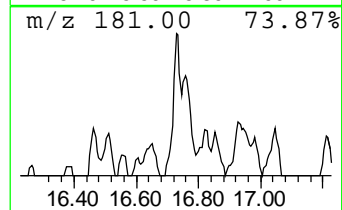
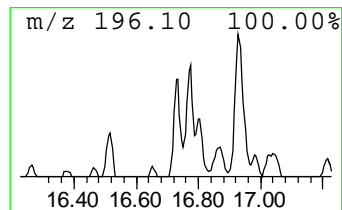
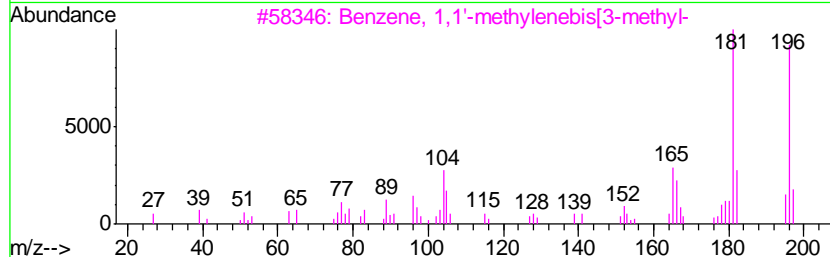
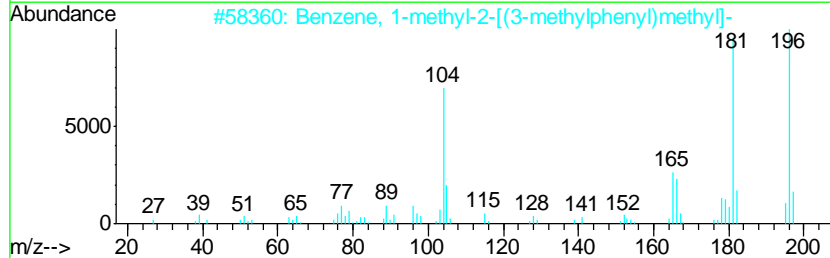
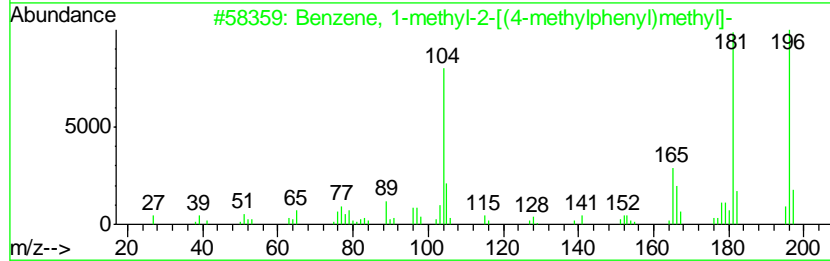
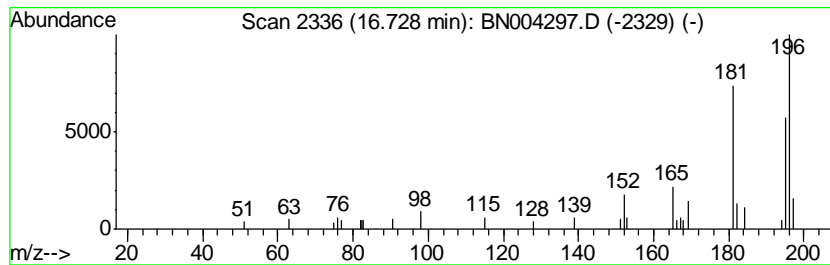
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 8 Benzene, 1-methyl-2-[(4-met... Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 16.73 | 2.47 ng/ul | 68338 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzene, 1-methyl-2-[(4-methylph... | 196 | C15H16 | 021895-17-0 | 64 |
| 2 | | Benzene, 1-methyl-2-[(3-methylph... | 196 | C15H16 | 021895-13-6 | 64 |
| 3 | | Benzene, 1,1'-methylenebis[3-met... | 196 | C15H16 | 021895-14-7 | 58 |
| 4 | | Pentamethylmelamine | 196 | C8H16N6 | 035832-09-8 | 58 |
| 5 | | Methane, di-p-tolyl- | 196 | C15H16 | 004957-14-6 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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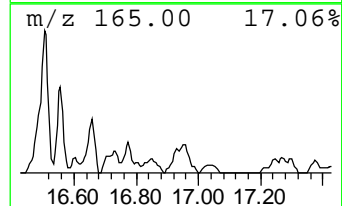
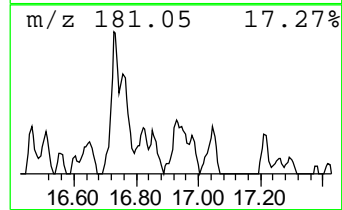
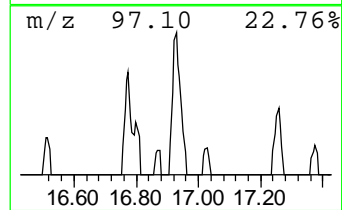
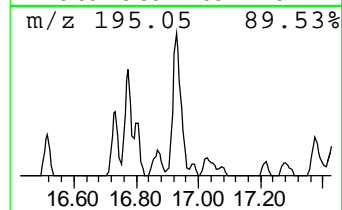
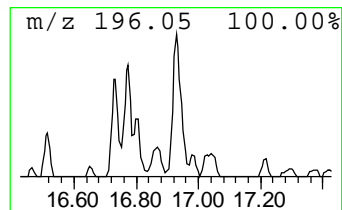
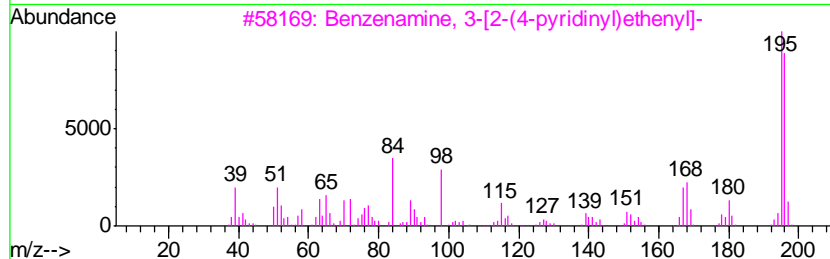
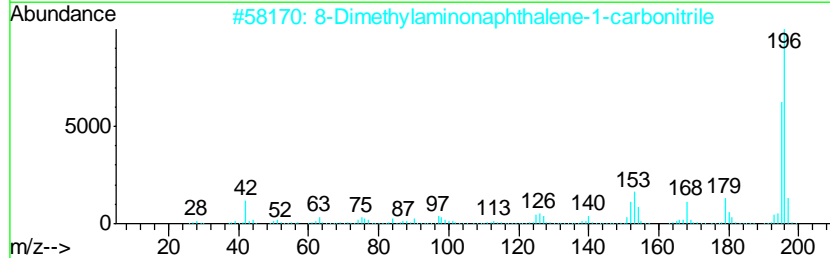
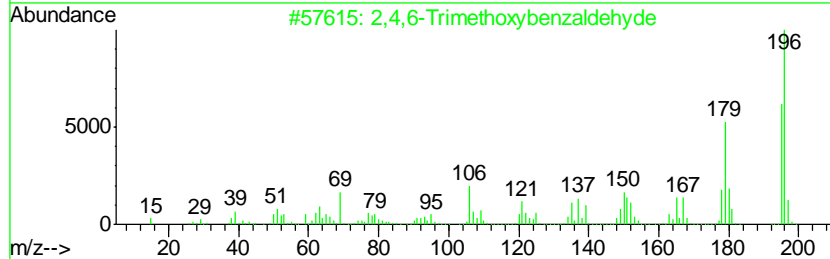
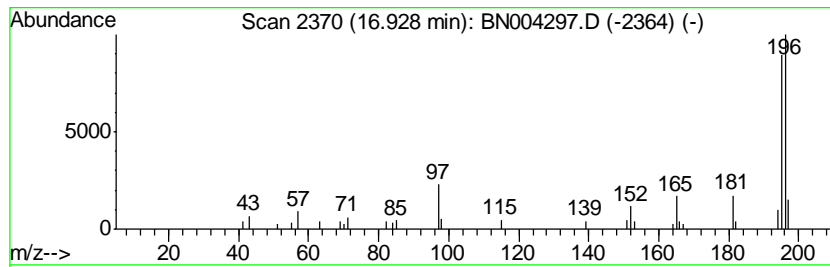
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 9 2,4,6-Trimethoxybenzaldehyde Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 16.93 | 2.28 ng/ul | 63014 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | 2,4,6-Trimethoxybenzaldehyde | 196 | C10H12O4 | 000830-79-5 | 72 |
| 2 | | 8-Dimethylaminonaphthalene-1-car... | 196 | C13H12N2 | 128644-69-9 | 72 |
| 3 | | Benzenamine, 3-[2-(4-pyridinyl)e... | 196 | C13H12N2 | 1000337-31-3 | 59 |
| 4 | | Phenol, 4-(2-phenylethenyl)- | 196 | C14H12O | 003839-46-1 | 58 |
| 5 | | Phenol, 4-(2-phenylethenyl)-, (E)- | 196 | C14H12O | 006554-98-9 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W7

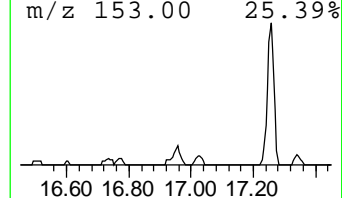
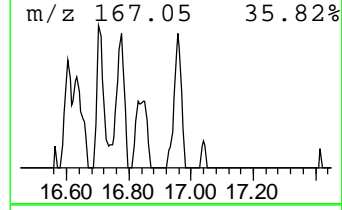
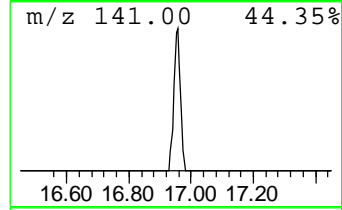
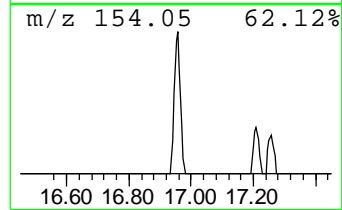
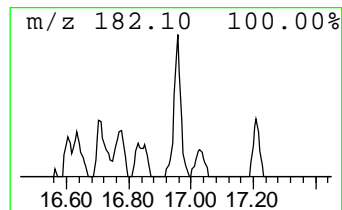
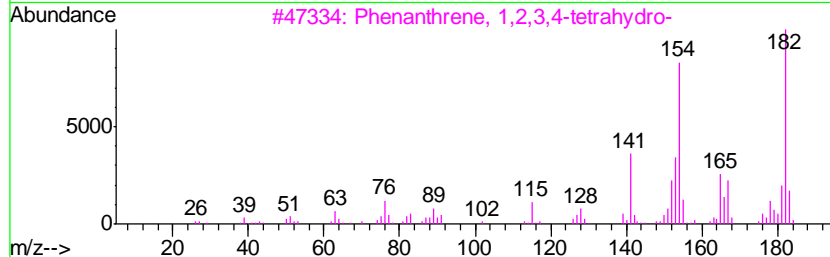
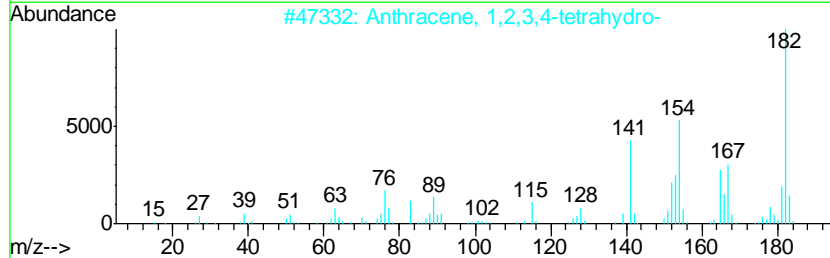
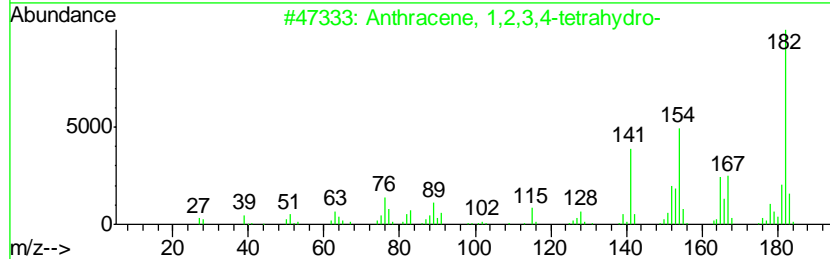
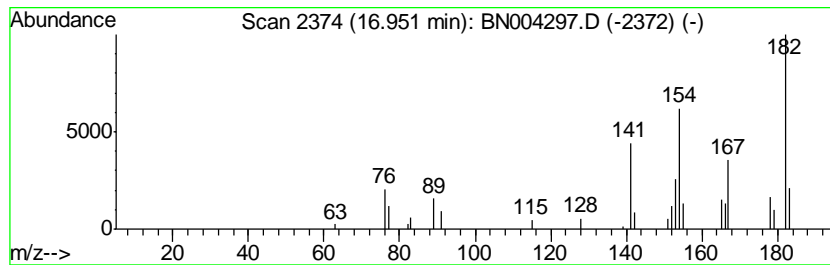
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 10 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 16.95 | 2.12 ng/ul | 58483 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1 | 5 | Anthracene, 1,2,3,4-tetrahydro- | 182 | C14H14 | 002141-42-6 | 91 |
| 2 | | Anthracene, 1,2,3,4-tetrahydro- | 182 | C14H14 | 002141-42-6 | 86 |
| 3 | | Phenanthrene, 1,2,3,4-tetrahydro- | 182 | C14H14 | 001013-08-7 | 47 |
| 4 | | 1,1'-Biphenyl, 3,4'-dimethyl- | 182 | C14H14 | 007383-90-6 | 43 |
| 5 | | Phenanthrene, 1,2,3,4-tetrahydro- | 182 | C14H14 | 001013-08-7 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W7

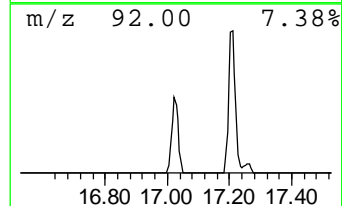
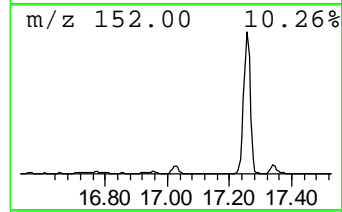
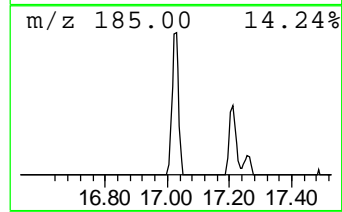
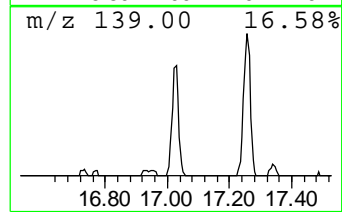
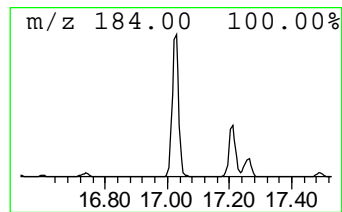
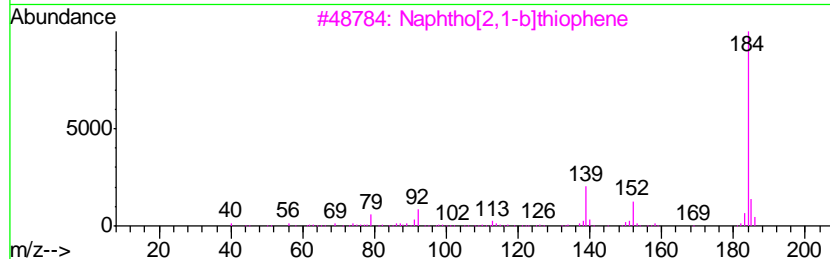
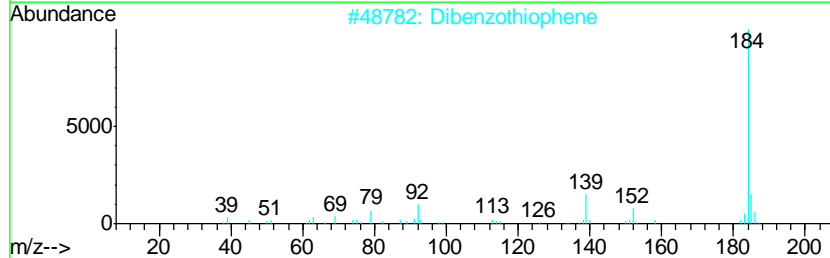
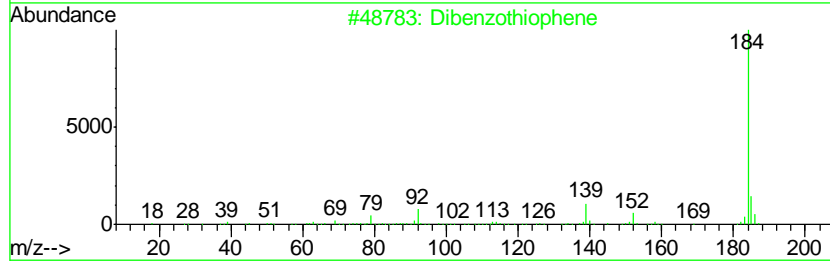
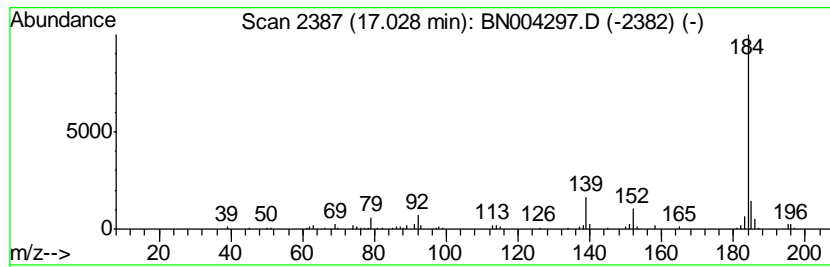
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 11 Dibenzothiophene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 17.03 | 7.03 ng/ul | 194326 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 96 |
| 3 | | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 96 |
| 4 | | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 94 |
| 5 | | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
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 ALS Vial : 33 Sample Multiplier: 1

Instrument :
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 ClientSampleID :
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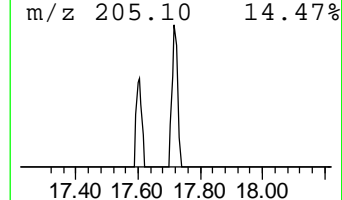
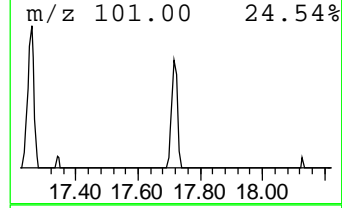
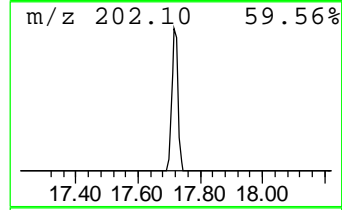
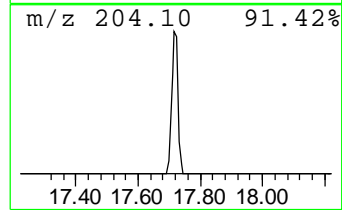
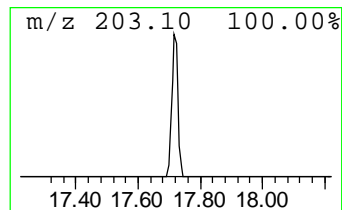
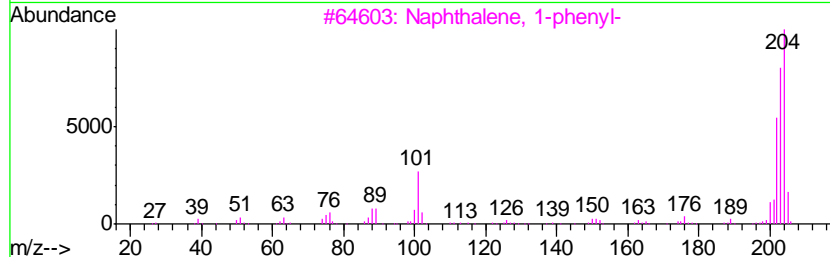
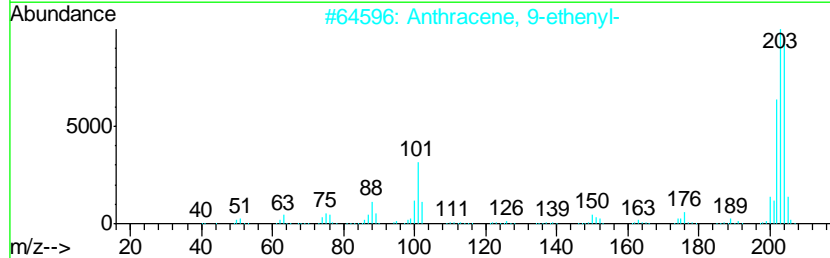
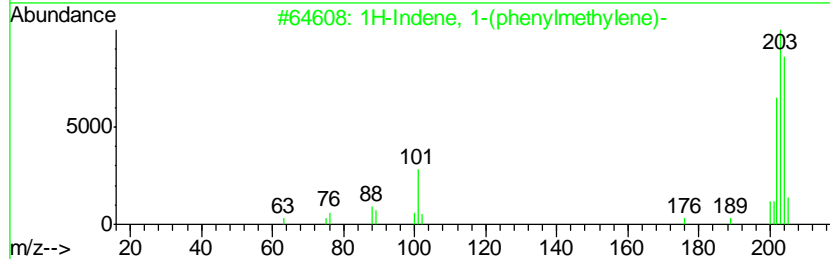
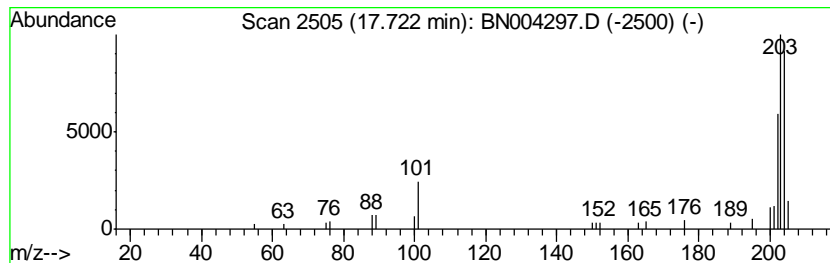
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TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 12 1H-Indene, 1-(phenylmethyle... Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 17.72 | 2.29 ng/ul | 63262 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1 | 5 | 1H-Indene, 1-(phenylmethylene)- | 204 | C16H12 | 005394-86-5 | 94 |
| 2 | | Anthracene, 9-ethenyl- | 204 | C16H12 | 002444-68-0 | 93 |
| 3 | | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 93 |
| 4 | | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 91 |
| 5 | | 1,4-Ethenoanthracene, 1,4-dihydro- | 204 | C16H12 | 027765-96-4 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
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Instrument :
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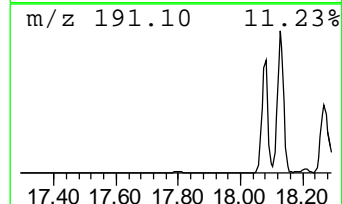
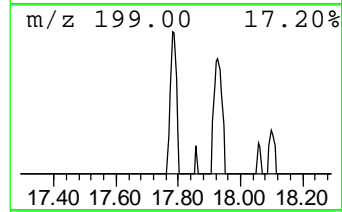
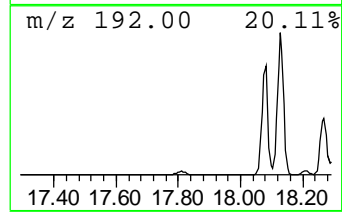
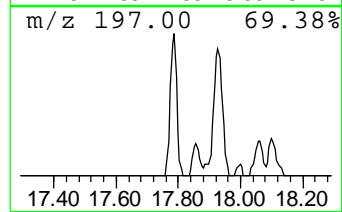
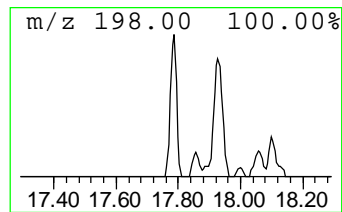
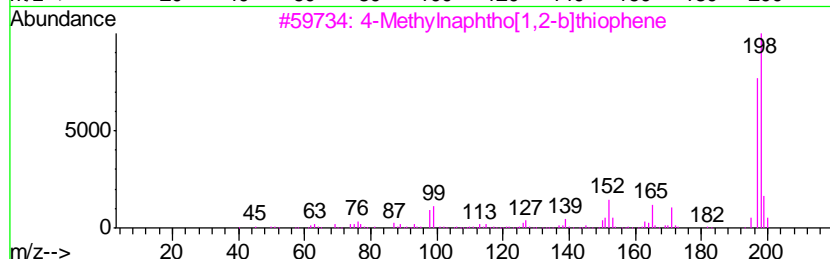
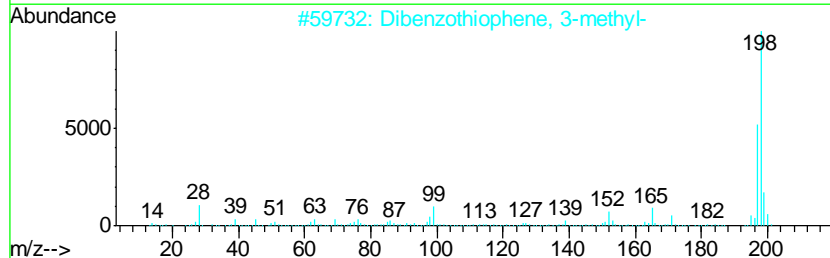
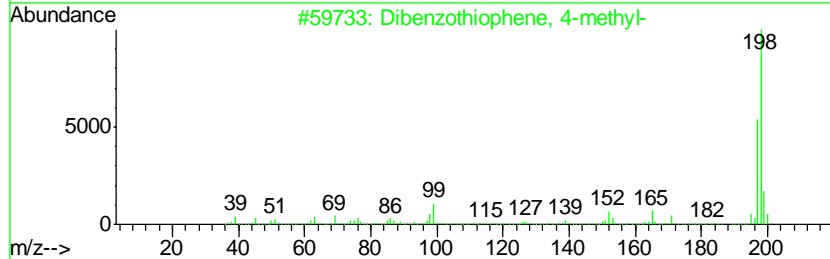
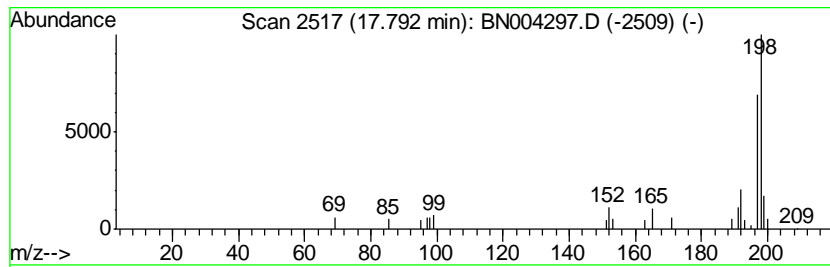
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 13 Dibenzothiophene, 4-methyl- Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 17.79 | 2.12 ng/ul | 58545 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------------------|-----|----------|-------------|------|
| 1 | 5 | Dibenzothiophene, 4-methyl- | 198 | C13H10S | 007372-88-5 | 94 |
| 2 | | Dibenzothiophene, 3-methyl- | 198 | C13H10S | 016587-52-3 | 94 |
| 3 | | 4-Methylnaphtho[1,2-b]thiophene | 198 | C13H10S | 067388-11-8 | 90 |
| 4 | | 1-Methyldibenzothiophene | 198 | C13H10S | 031317-07-4 | 87 |
| 5 | | Benzenamine, 4,4'-methylenebis- | 198 | C13H14N2 | 000101-77-9 | 74 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
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 ClientSampleID :
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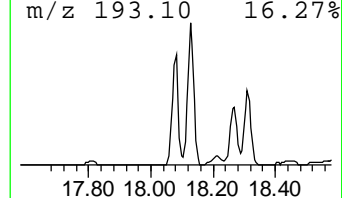
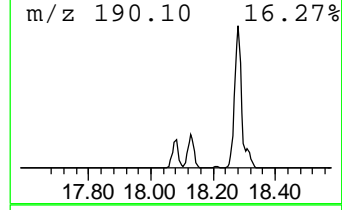
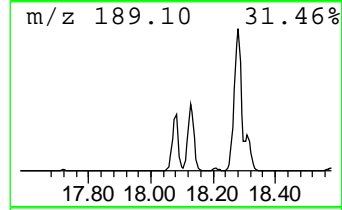
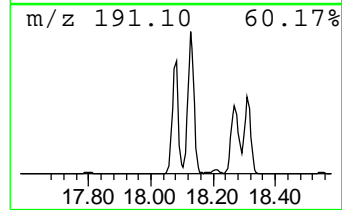
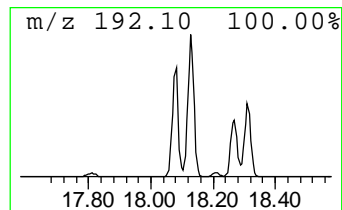
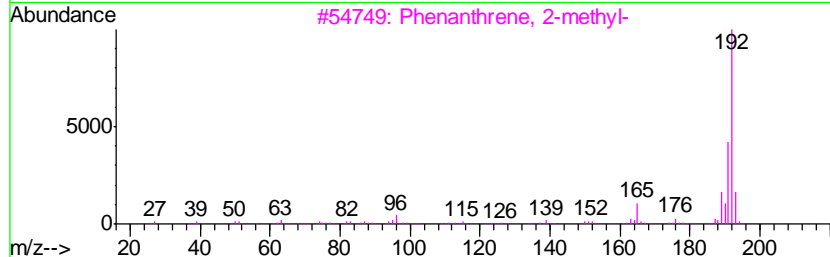
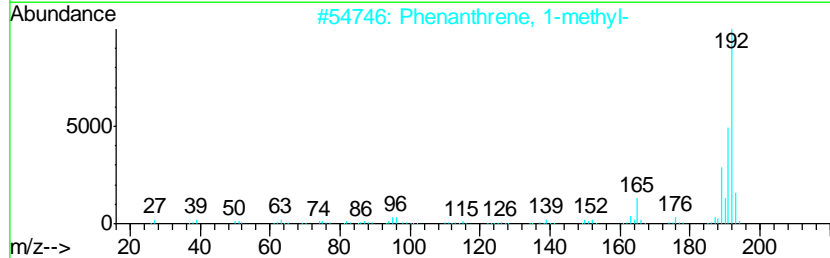
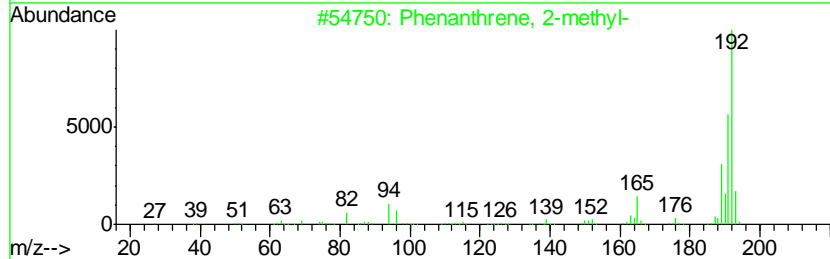
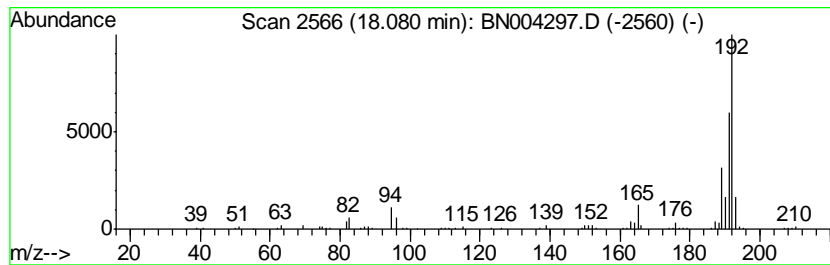
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 14 Phenanthrene, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|-------------|--------|------------------|-------|
| 18.08 | 15.21 ng/ul | 420189 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 5 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
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Instrument :
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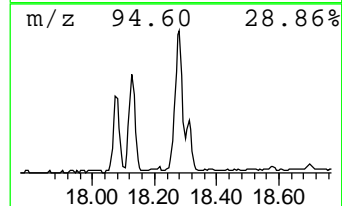
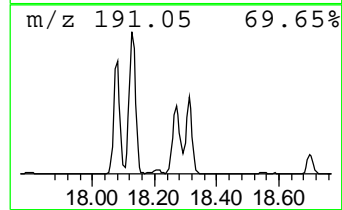
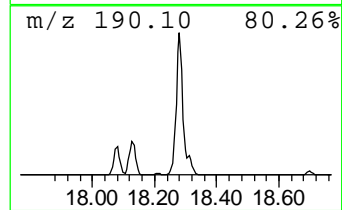
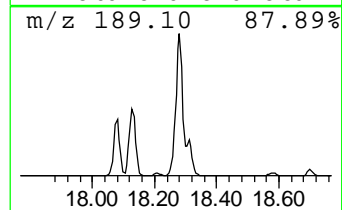
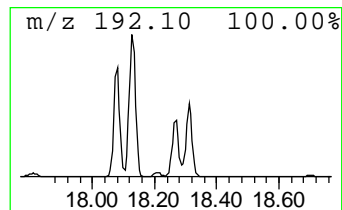
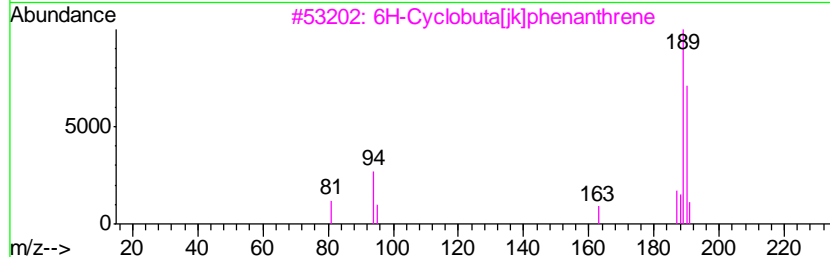
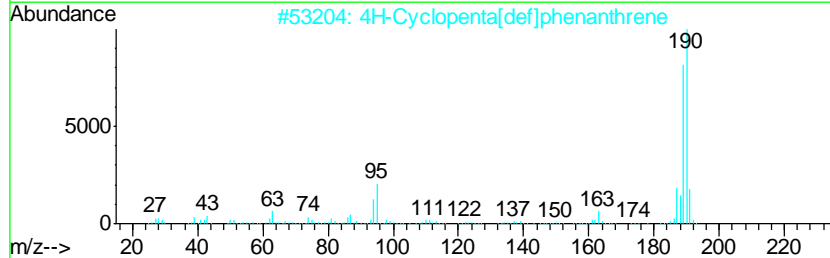
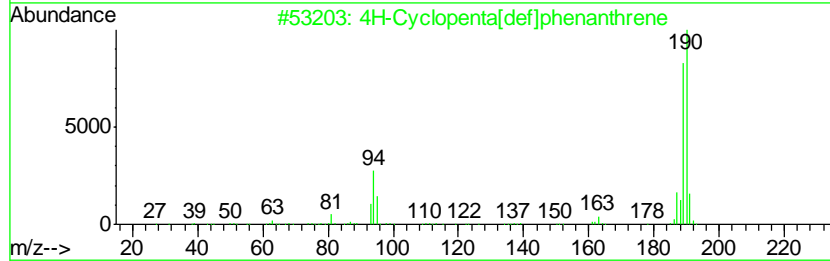
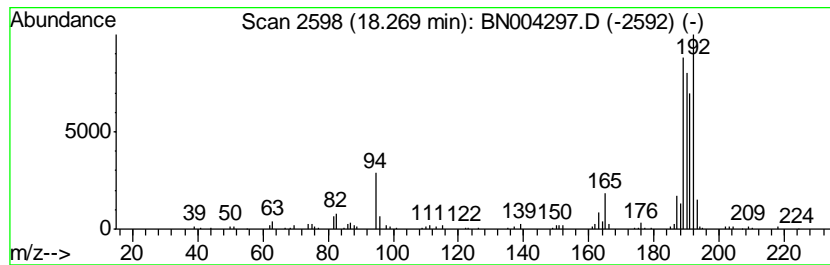
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 16 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|-------------|--------|------------------|-------|
| 18.27 | 20.92 ng/ul | 578093 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 53 |
| 3 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 50 |
| 4 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 47 |
| 5 | | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 38 |



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 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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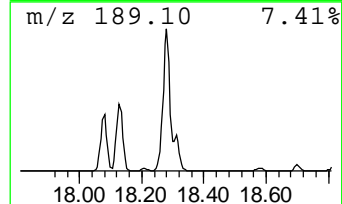
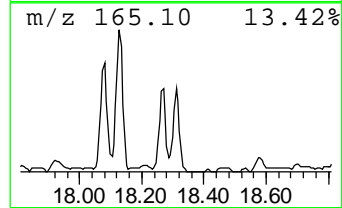
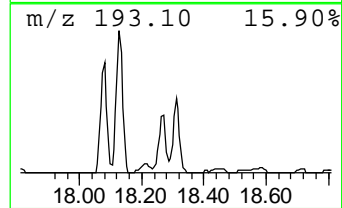
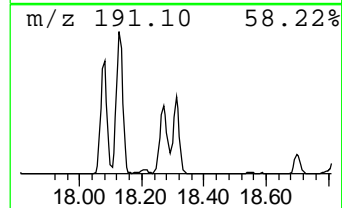
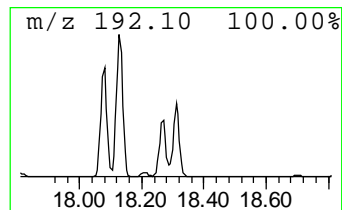
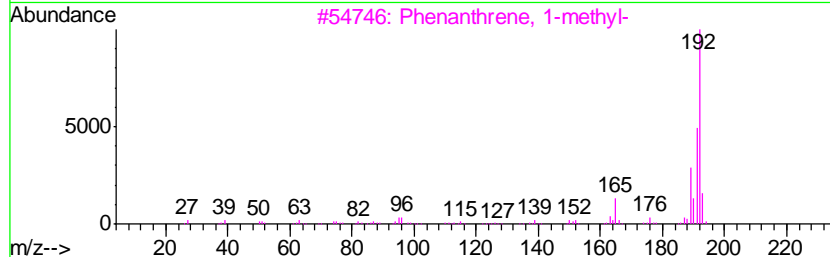
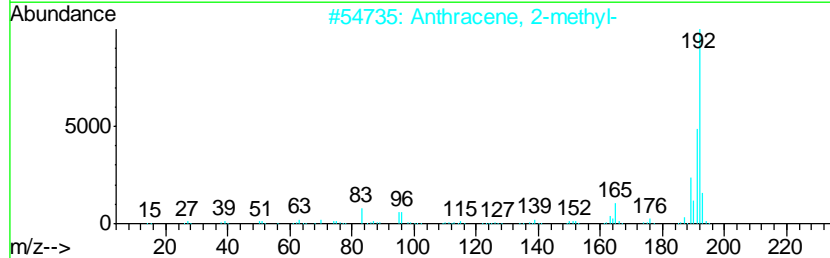
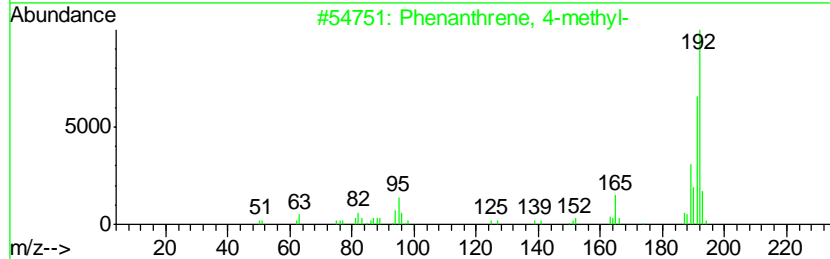
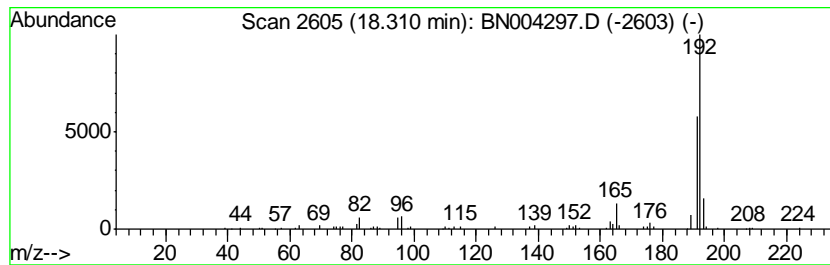
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 17 Phenanthrene, 4-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.31 | 8.48 ng/ul | 234288 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 95 |
| 2 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 3 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 4 | | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12 | 000949-41-7 | 94 |
| 5 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
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 ClientSampleID :
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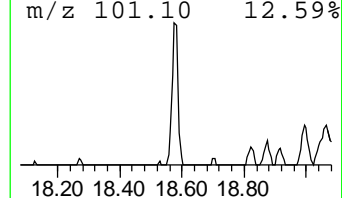
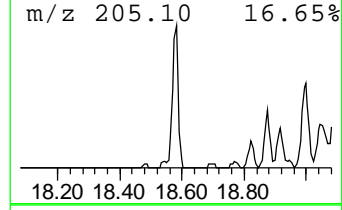
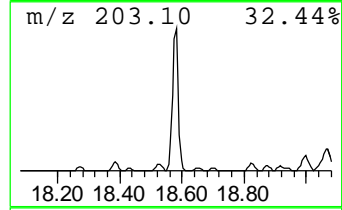
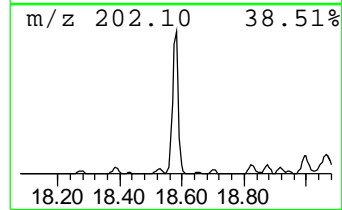
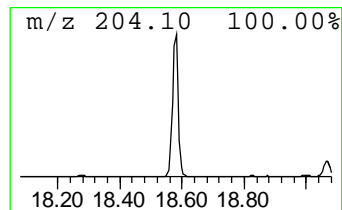
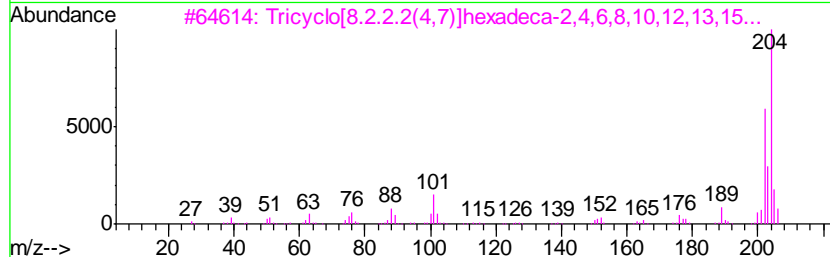
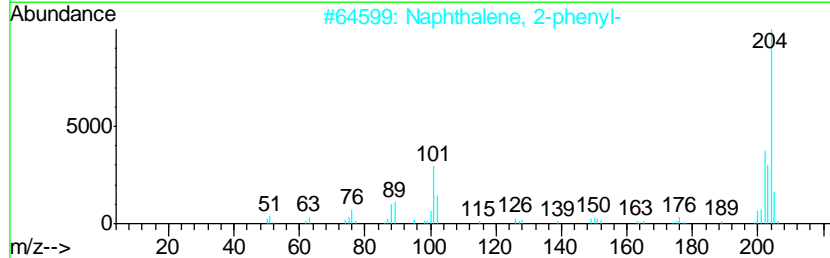
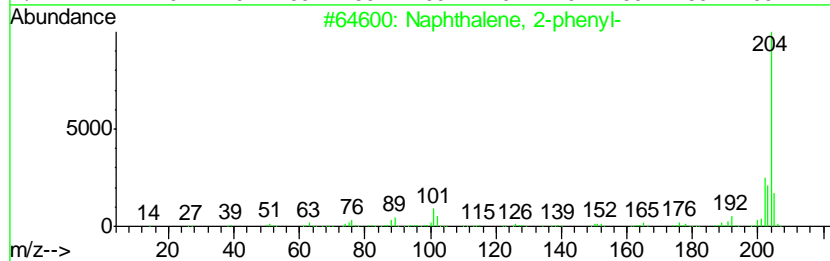
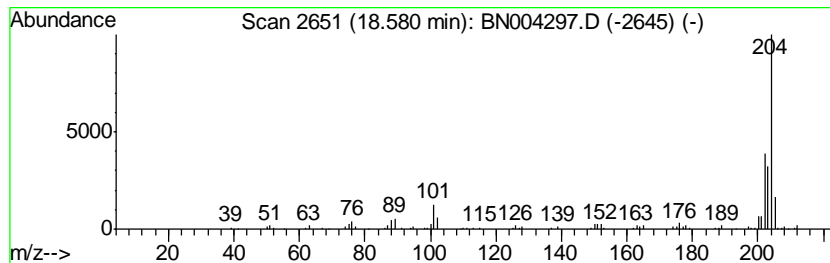
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 18 Naphthalene, 2-phenyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|-------------|--------|------------------|-------|
| 18.58 | 11.43 ng/ul | 315850 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 89 |
| 2 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 3 | | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 76 |
| 4 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 70 |
| 5 | | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 70 |



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Instrument :
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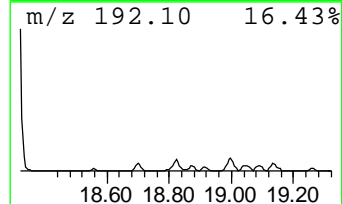
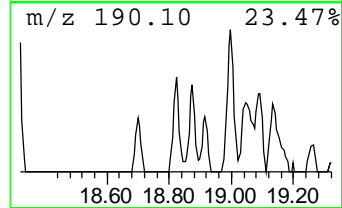
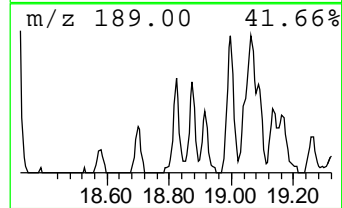
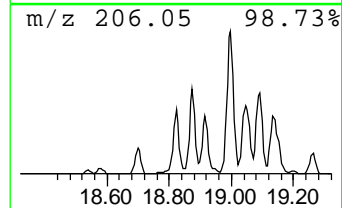
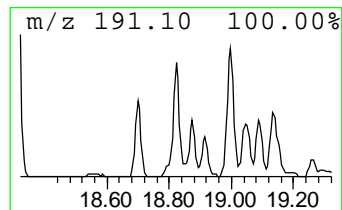
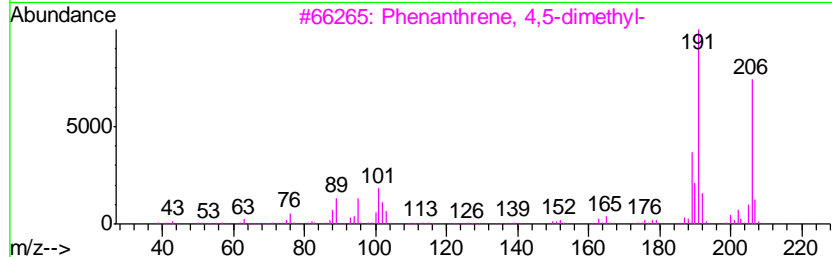
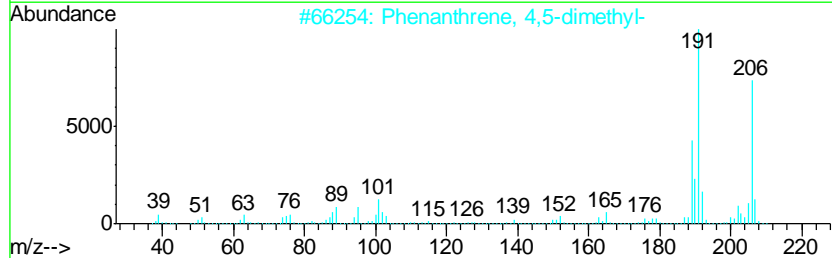
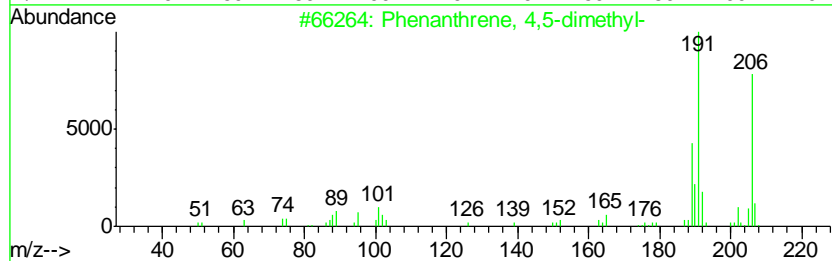
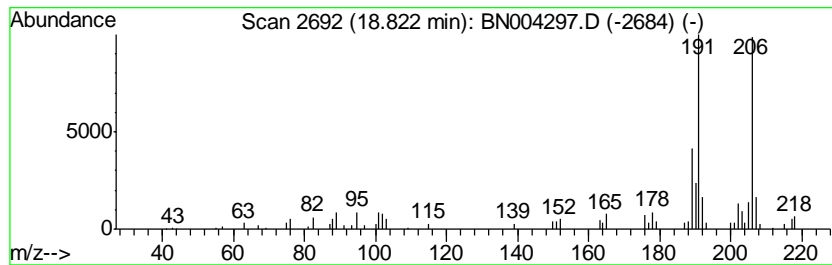
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 19 Phenanthrene, 4,5-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.82 | 3.86 ng/ul | 106715 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 98 |
| 2 | | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 96 |
| 3 | | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 95 |
| 4 | | Phenanthrene, 4,5-dimethyl- | 206 | C16H14 | 003674-69-9 | 94 |
| 5 | | Anthracene, 2-ethyl- | 206 | C16H14 | 052251-71-5 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
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 Operator : JU/SJ
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Instrument :
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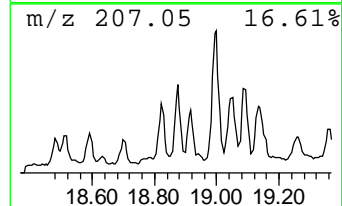
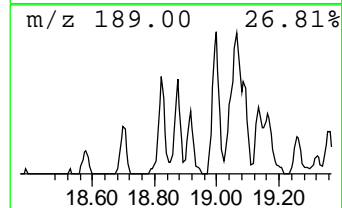
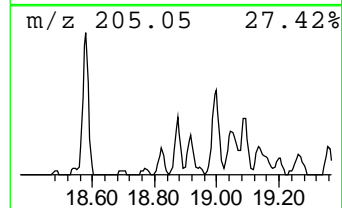
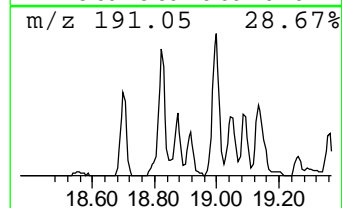
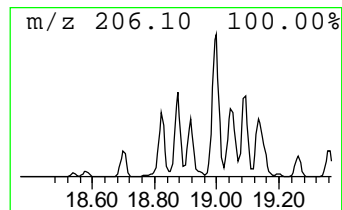
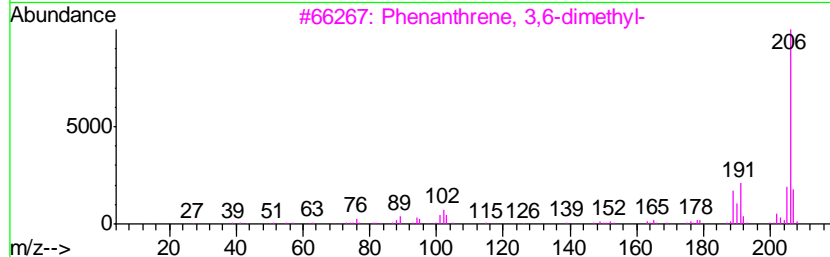
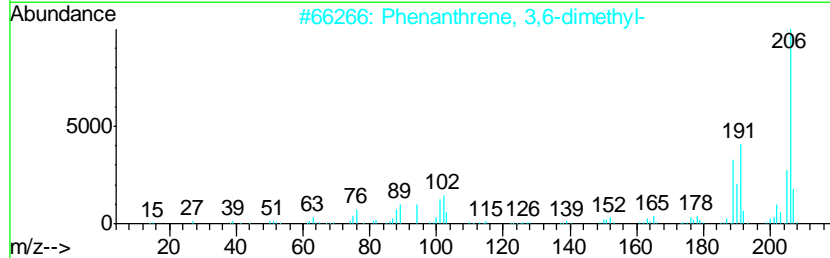
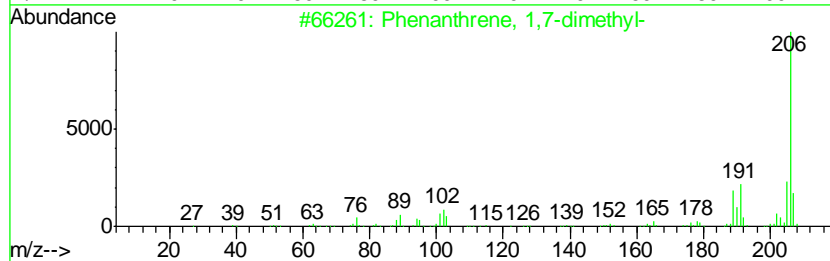
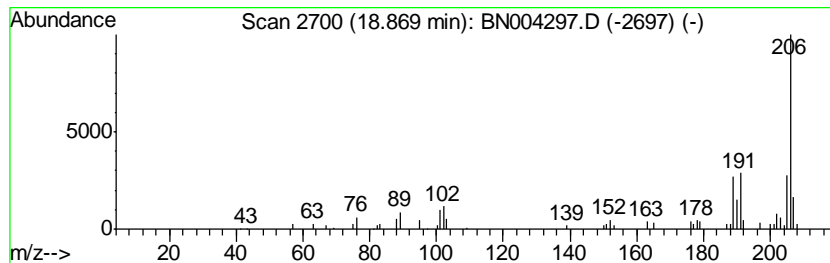
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 20 Phenanthrene, 1,7-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.87 | 2.91 ng/ul | 80534 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 96 |
| 2 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 96 |
| 3 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 94 |
| 4 | | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 94 |
| 5 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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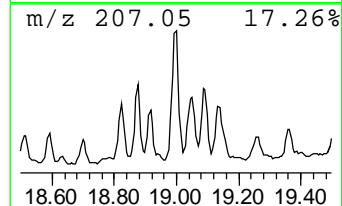
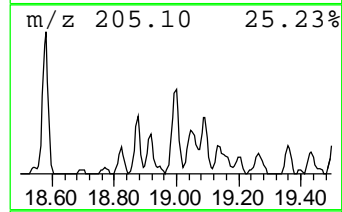
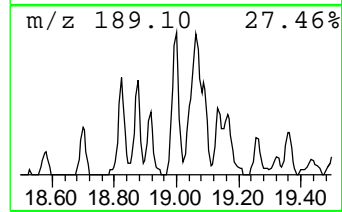
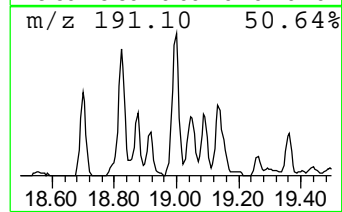
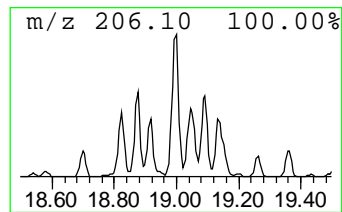
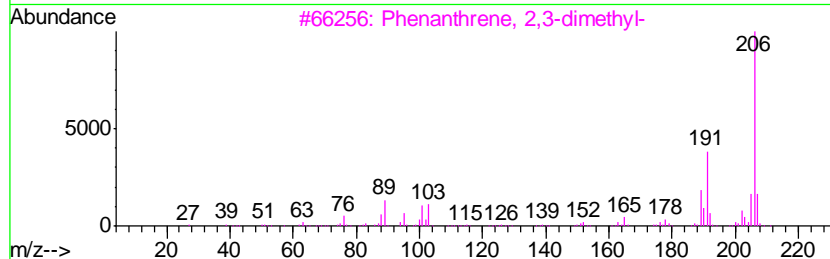
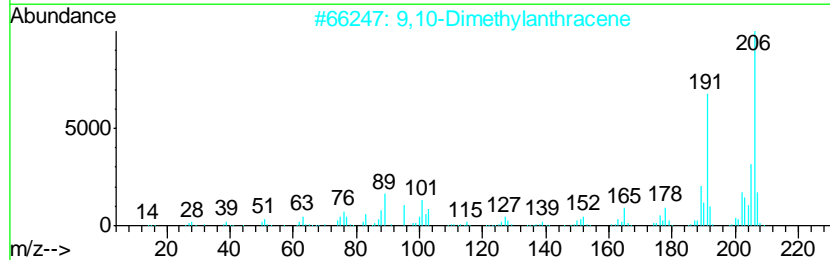
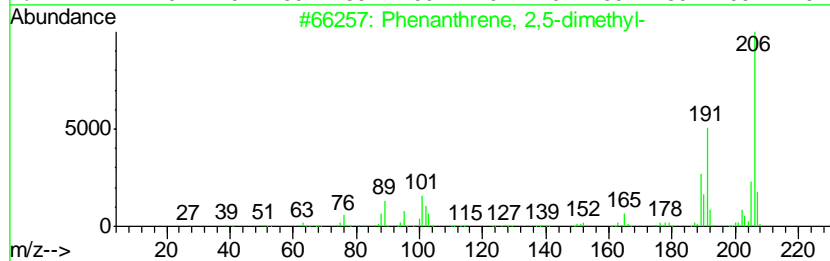
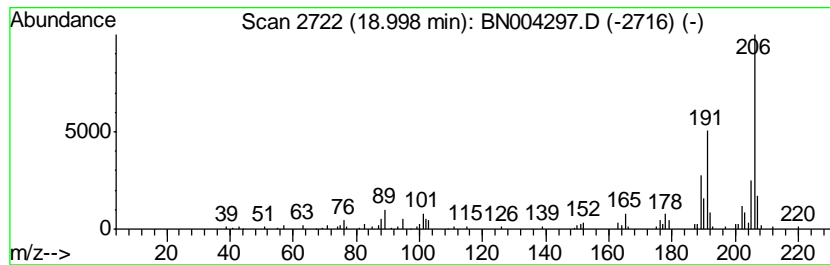
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TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 21 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.00 | 7.27 ng/ul | 200777 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 97 |
| 2 | | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 3 | | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 93 |
| 4 | | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 5 | | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
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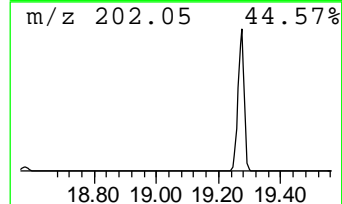
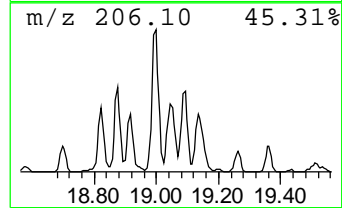
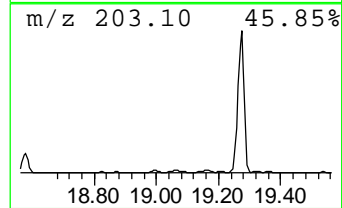
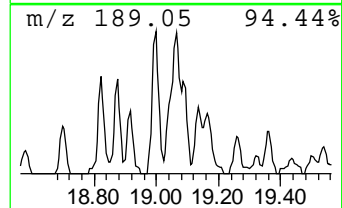
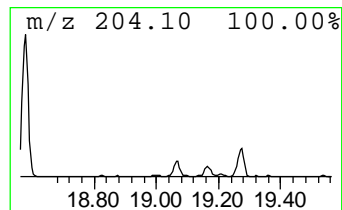
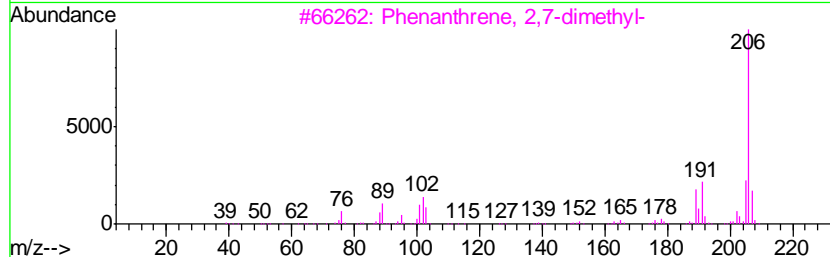
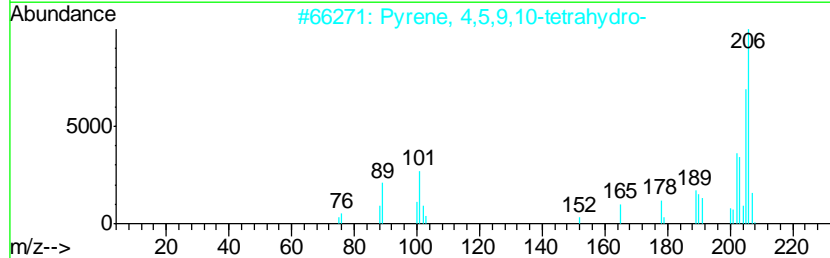
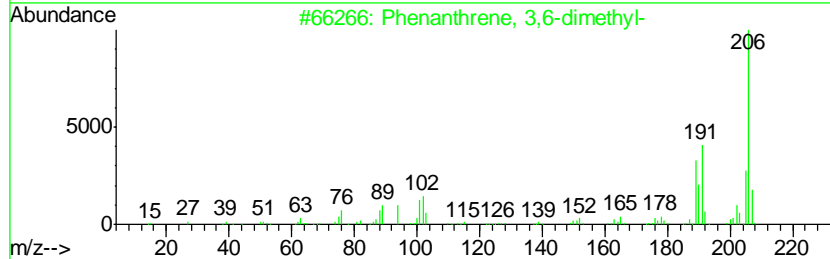
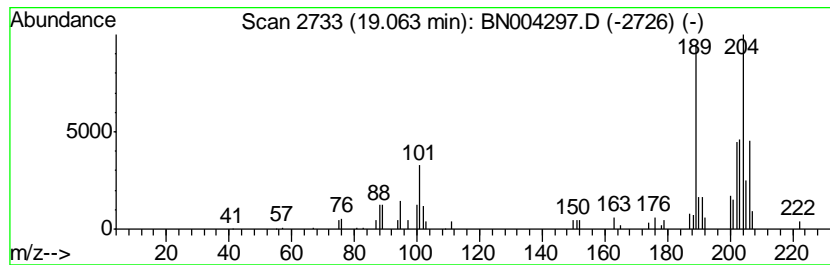
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 22 Phenanthrene, 3,6-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.06 | 4.75 ng/ul | 131147 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 70 |
| 2 | | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 55 |
| 3 | | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 49 |
| 4 | | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 45 |
| 5 | | Naphthalene, 1,2-dihydro-1-phenyl- | 206 | C16H14 | 016606-46-5 | 45 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
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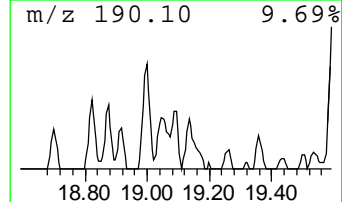
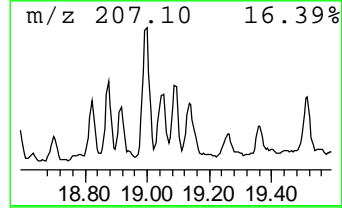
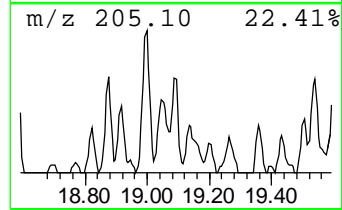
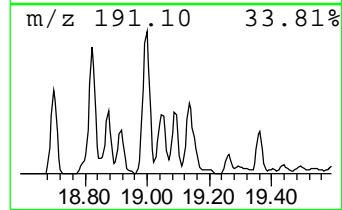
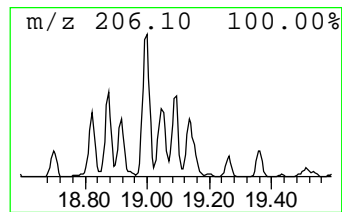
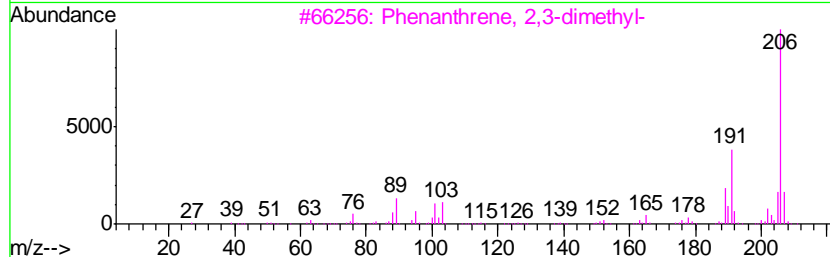
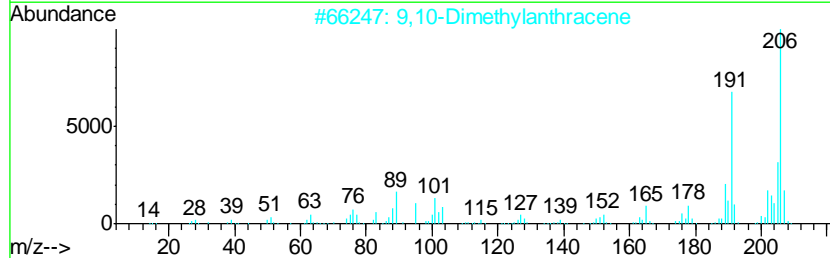
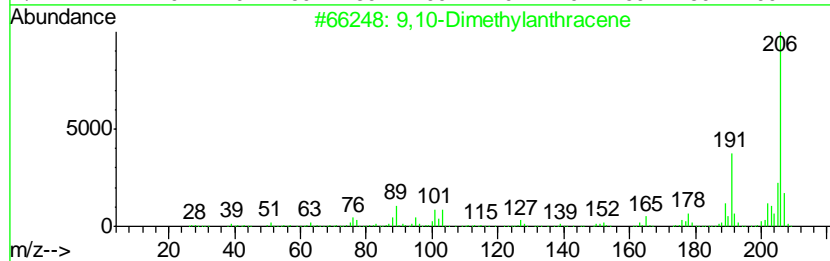
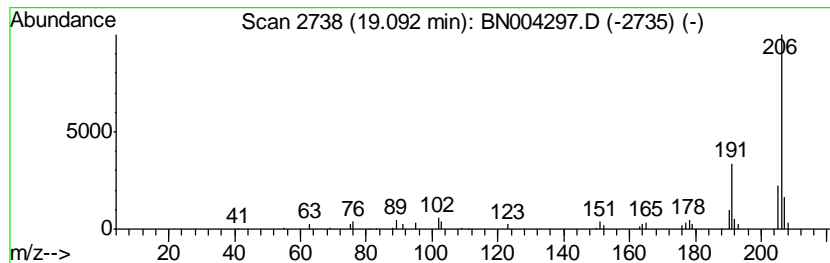
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 23 9,10-Dimethylantracene Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 19.09 | 2.26 ng/ul | 62573 | Phenanthrene-d10 | 17.21 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1 | 5 | 9,10-Dimethylantracene | 206 | C16H14 | 000781-43-1 | 91 |
| 2 | | 9,10-Dimethylantracene | 206 | C16H14 | 000781-43-1 | 91 |
| 3 | | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 87 |
| 4 | | Naphthalene, 1,2-dihydro-4-phenyl- | 206 | C16H14 | 007469-40-1 | 86 |
| 5 | | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W7

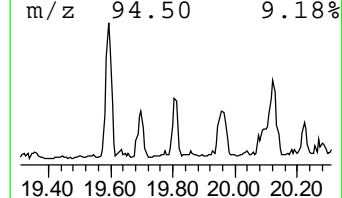
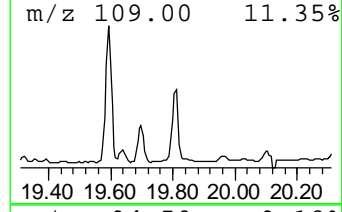
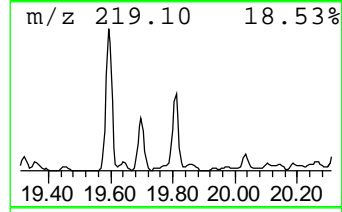
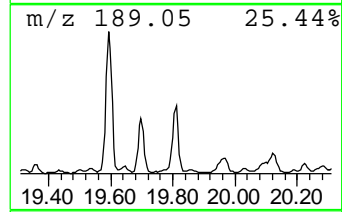
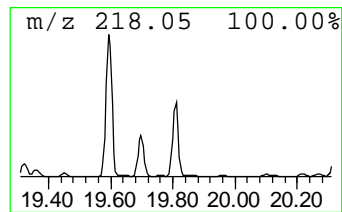
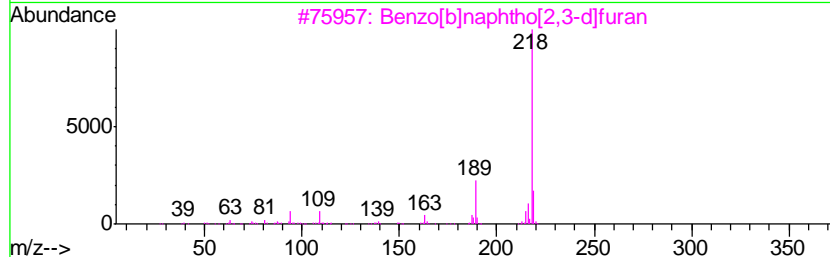
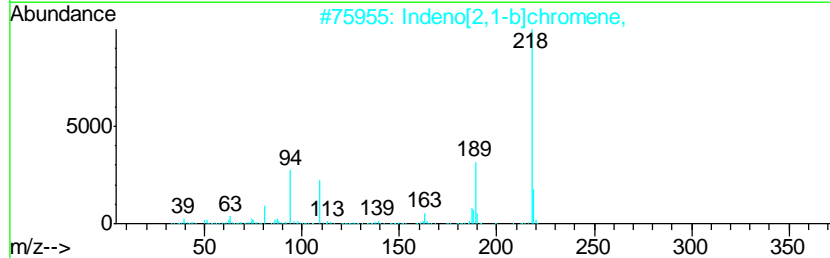
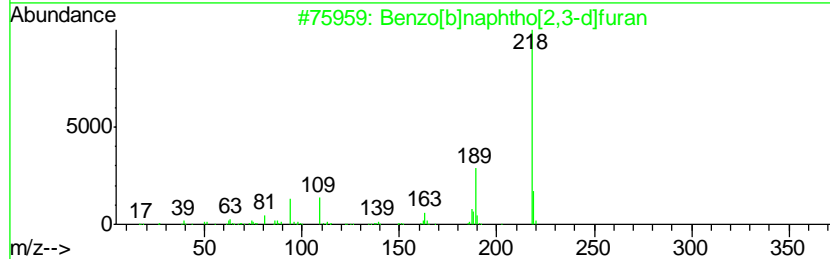
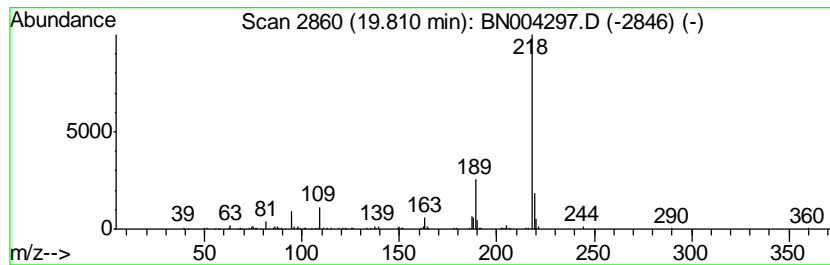
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 25 Benzo[b]naphtho[2,3-d]furan Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.81 | 2.94 ng/ul | 312482 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 97 |
| 2 | | Indeno[2,1-b]chromene, | 218 | C16H10O | 000243-24-3 | 96 |
| 3 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 94 |
| 4 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |
| 5 | | Benzo[b]naphtho[2,3-d]furan | 218 | C16H10O | 000243-42-5 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W7

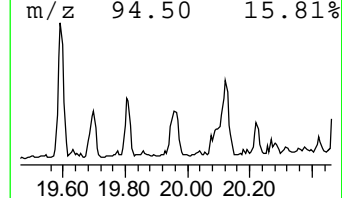
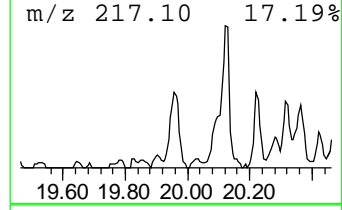
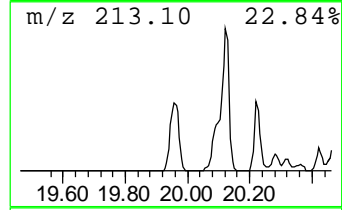
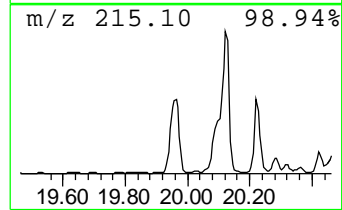
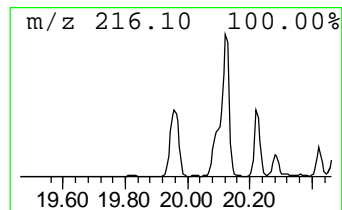
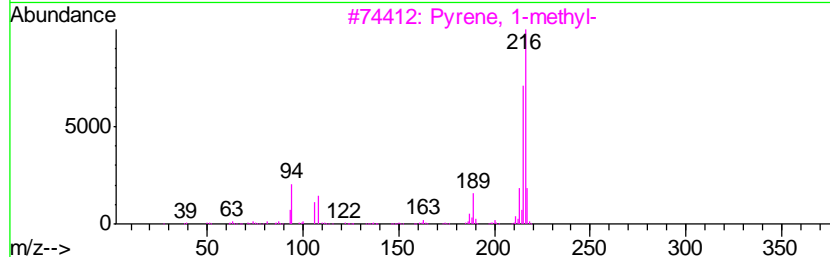
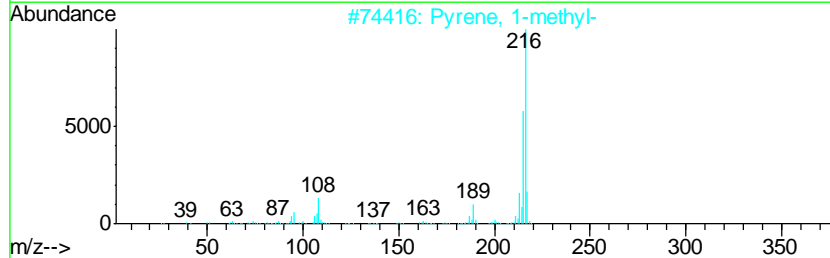
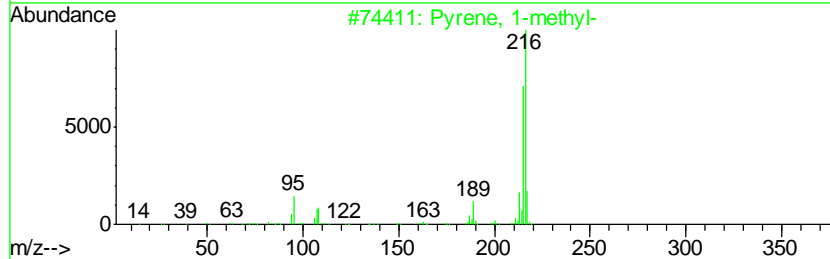
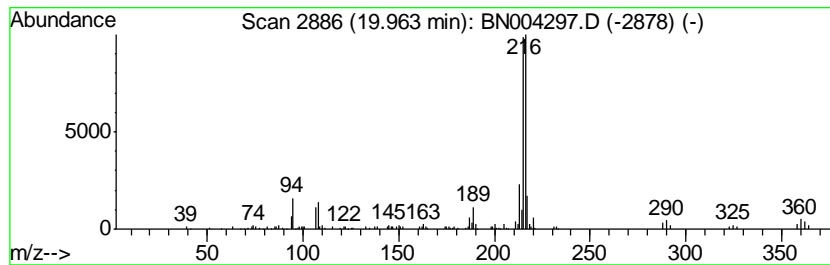
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 26 Pyrene, 1-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 19.96 | 3.09 ng/ul | 328193 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1 | 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 97 |
| 2 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 92 |
| 3 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 92 |
| 4 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 92 |
| 5 | | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W7

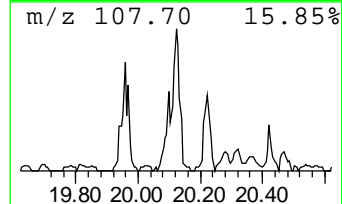
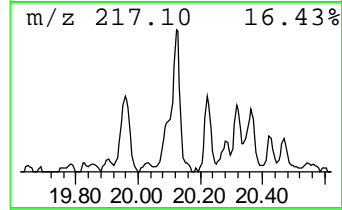
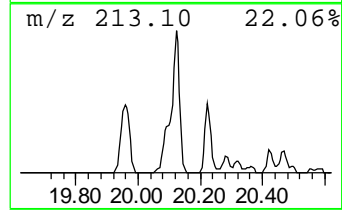
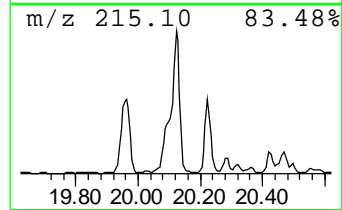
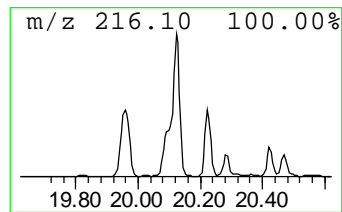
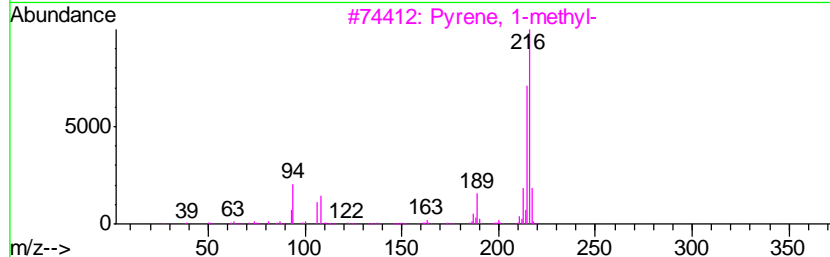
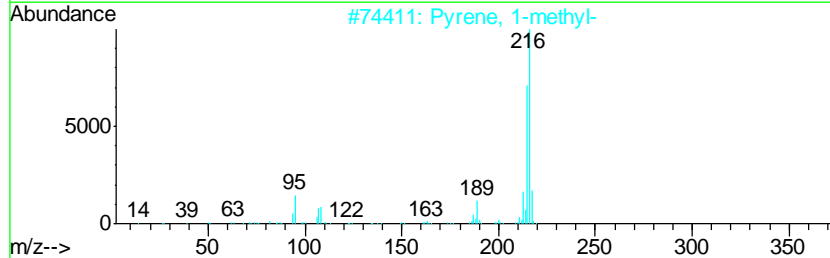
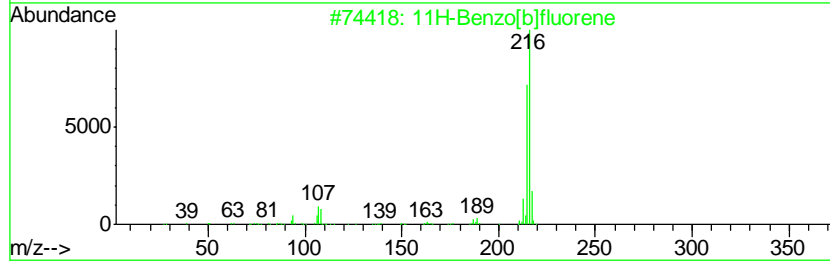
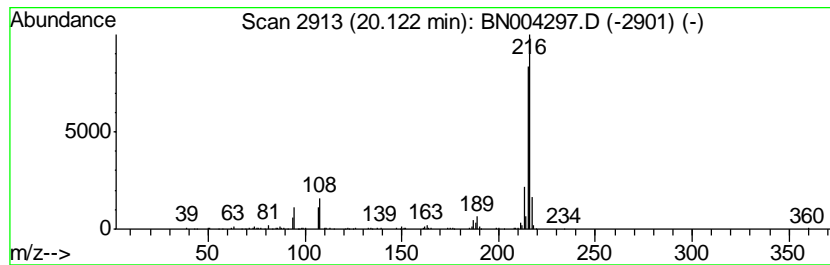
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 27 11H-Benzo[b]fluorene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.12 | 6.00 ng/ul | 638487 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 95 |
| 2 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 93 |
| 3 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 4 | | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 5 | | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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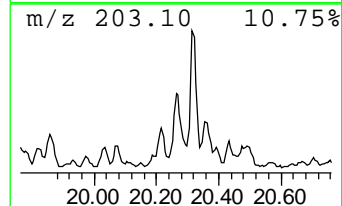
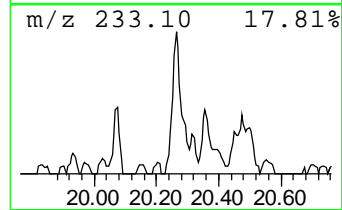
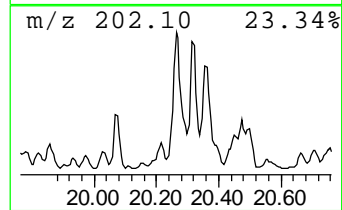
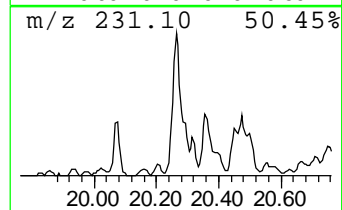
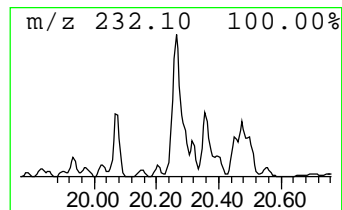
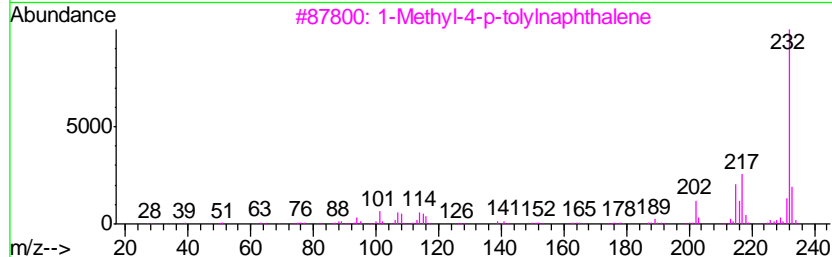
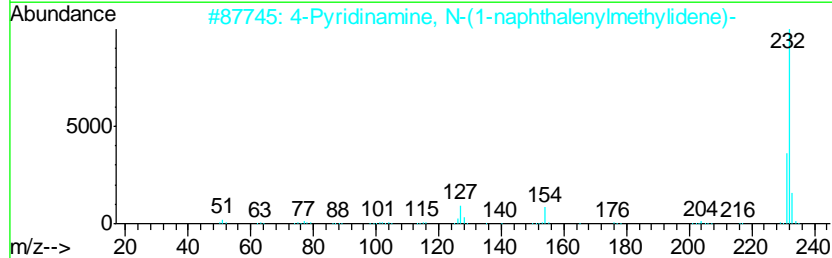
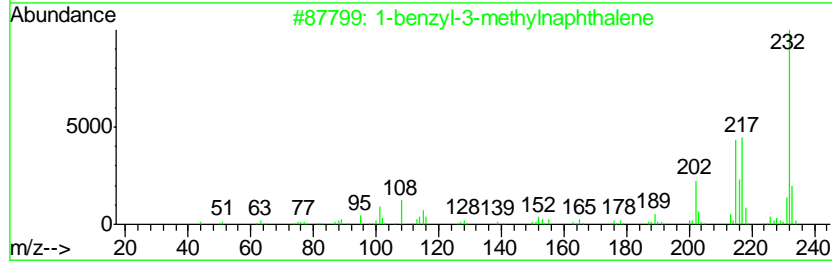
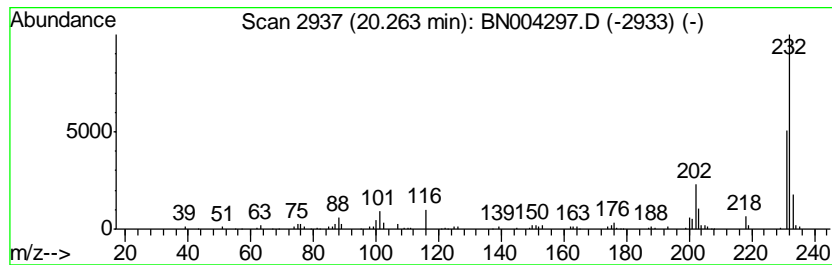
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 28 1-benzyl-3-methylnaphthalene Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.26 | 2.20 ng/ul | 234322 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1 | 5 | 1-benzyl-3-methylnaphthalene | 232 | C18H16 | 1000379-93-5 | 58 |
| 2 | | 4-Pyridinamine, N-(1-naphthaleny... | 232 | C16H12N2 | 1000317-32-7 | 58 |
| 3 | | 1-Methyl-4-p-tolylnaphthalene | 232 | C18H16 | 093870-57-6 | 53 |
| 4 | | Azulene, 4,8-dimethyl-6-phenyl- | 232 | C18H16 | 042758-88-3 | 53 |
| 5 | | 1,4-Dimethyl-2-phenyl-naphthalene | 232 | C18H16 | 051036-91-0 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W7

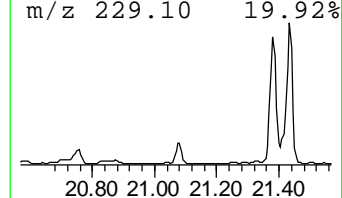
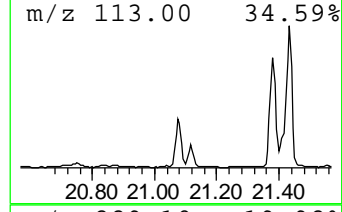
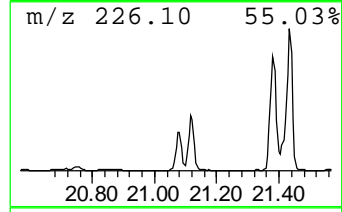
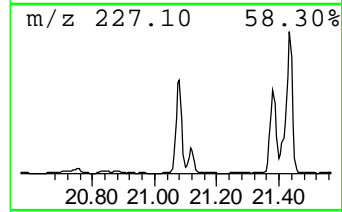
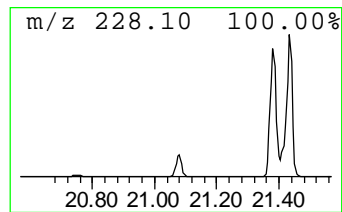
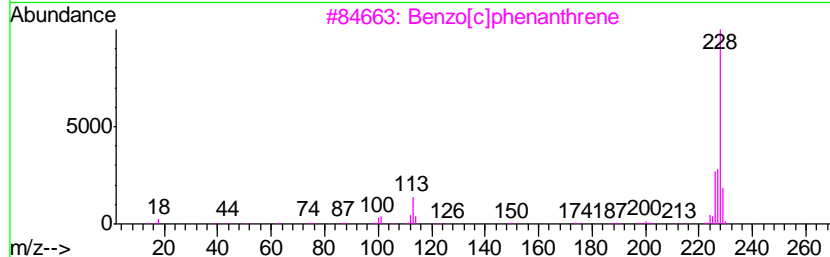
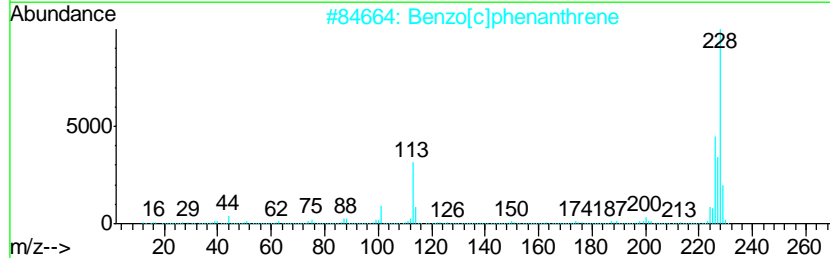
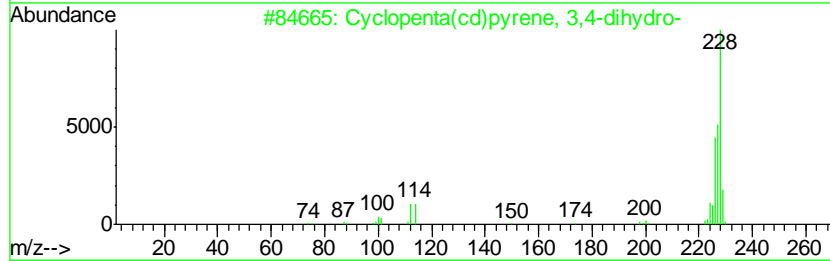
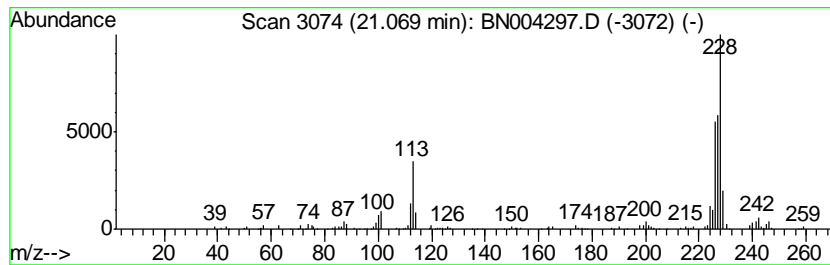
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 29 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.07 | 3.03 ng/ul | 321939 | Chrysene-d12 | 21.40 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Cyclopenta(cd)pyrene, 3,4-dihydro- | 228 | C18H12 | 025732-74-5 | 92 |
| 2 | | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 83 |
| 3 | | Benzo[c]phenanthrene | 228 | C18H12 | 000195-19-7 | 70 |
| 4 | | Triphenylene | 228 | C18H12 | 000217-59-4 | 60 |
| 5 | | Benz[a]anthracene | 228 | C18H12 | 000056-55-3 | 55 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
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 ALS Vial : 33 Sample Multiplier: 1

Instrument :
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 ClientSampled :
 A41W7

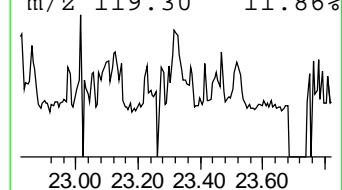
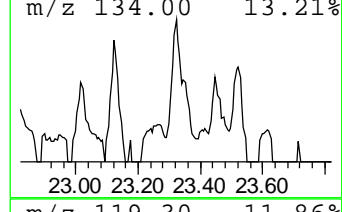
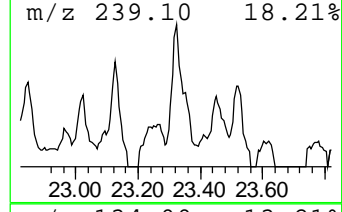
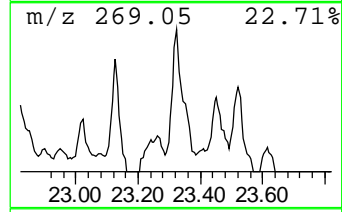
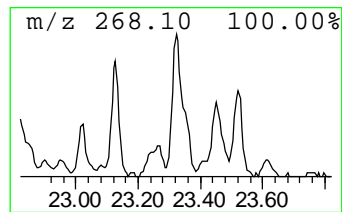
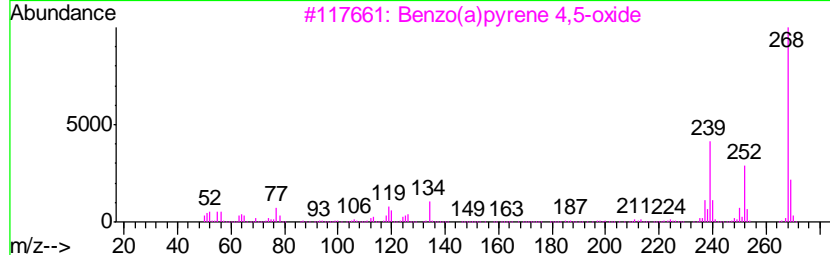
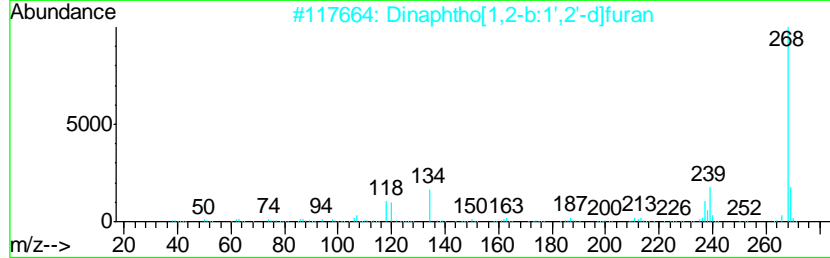
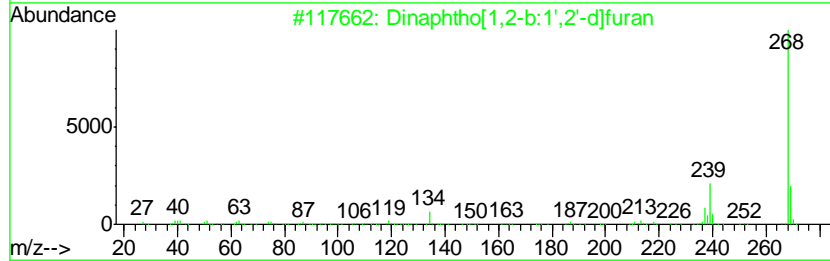
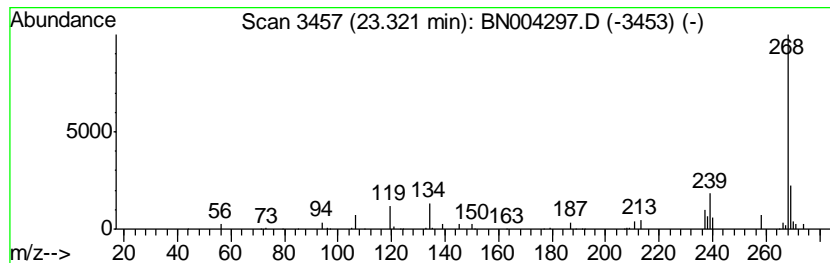
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 30 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 23.32 | 2.06 ng/ul | 57219 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1 | 5 | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 80 |
| 2 | | Dinaphtho[1,2-b:1',2'-d]furan | 268 | C20H12O | 000207-93-2 | 74 |
| 3 | | Benzo(a)pyrene 4,5-oxide | 268 | C20H12O | 037574-47-3 | 72 |
| 4 | | Benzo(a)pyren-7-ol | 268 | C20H12O | 037994-82-4 | 72 |
| 5 | | 9,10-Anthracenedione, 1,4,5,8-te... | 268 | C14H12N4O2 | 002475-45-8 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004297.D
 Acq On : 29 Dec 2018 12:39
 Operator : JU/SJ
 Sample : J6428-14
 Misc : GCMS Confirmation
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 10.9 | ng/ul | 87764 | 1 | 7.82 | 160410 | 20.0 |
| Naphthalene, 2,6-... | 13.77 | 2.4 | ng/ul | 52317 | 3 | 14.46 | 431878 | 20.0 |
| 1,1'-Biphenyl, 2-... | 15.67 | 2.4 | ng/ul | 52170 | 3 | 14.46 | 431878 | 20.0 |
| [1,1'-Biphenyl]-4... | 15.80 | 4.5 | ng/ul | 96934 | 3 | 14.46 | 431878 | 20.0 |
| 2,4,6-Cycloheptat... | 15.95 | 5.7 | ng/ul | 157971 | 4 | 17.21 | 552671 | 20.0 |
| 9H-Fluorene, 1-me... | 16.51 | 3.8 | ng/ul | 106193 | 4 | 17.21 | 552671 | 20.0 |
| Benzene, 1-methyl... | 16.73 | 2.5 | ng/ul | 68338 | 4 | 17.21 | 552671 | 20.0 |
| 2,4,6-Trimethoxyb... | 16.93 | 2.3 | ng/ul | 63014 | 4 | 17.21 | 552671 | 20.0 |
| Anthracene, 1,2,3... | 16.95 | 2.1 | ng/ul | 58483 | 4 | 17.21 | 552671 | 20.0 |
| Dibenzothiophene | 17.03 | 7.0 | ng/ul | 194326 | 4 | 17.21 | 552671 | 20.0 |
| 1H-Indene, 1-(phe... | 17.72 | 2.3 | ng/ul | 63262 | 4 | 17.21 | 552671 | 20.0 |
| Dibenzothiophene,... | 17.79 | 2.1 | ng/ul | 58545 | 4 | 17.21 | 552671 | 20.0 |
| Phenanthrene, 2-m... | 18.08 | 15.2 | ng/ul | 420189 | 4 | 17.21 | 552671 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 20.9 | ng/ul | 578093 | 4 | 17.21 | 552671 | 20.0 |
| Phenanthrene, 4-m... | 18.31 | 8.5 | ng/ul | 234288 | 4 | 17.21 | 552671 | 20.0 |
| Naphthalene, 2-ph... | 18.58 | 11.4 | ng/ul | 315850 | 4 | 17.21 | 552671 | 20.0 |
| Phenanthrene, 4,5... | 18.82 | 3.9 | ng/ul | 106715 | 4 | 17.21 | 552671 | 20.0 |
| Phenanthrene, 1,7... | 18.87 | 2.9 | ng/ul | 80534 | 4 | 17.21 | 552671 | 20.0 |
| Phenanthrene, 2,5... | 19.00 | 7.3 | ng/ul | 200777 | 4 | 17.21 | 552671 | 20.0 |
| Phenanthrene, 3,6... | 19.06 | 4.8 | ng/ul | 131147 | 4 | 17.21 | 552671 | 20.0 |
| 9,10-Dimethylanth... | 19.09 | 2.3 | ng/ul | 62573 | 4 | 17.21 | 552671 | 20.0 |
| Benzo[b]naphtho[2... | 19.81 | 2.9 | ng/ul | 312482 | 5 | 21.40 | 2126600 | 20.0 |
| Pyrene, 1-methyl- | 19.96 | 3.1 | ng/ul | 328193 | 5 | 21.40 | 2126600 | 20.0 |
| 11H-Benzo[b]fluorene | 20.12 | 6.0 | ng/ul | 638487 | 5 | 21.40 | 2126600 | 20.0 |
| 1-benzyl-3-methyl... | 20.26 | 2.2 | ng/ul | 234322 | 5 | 21.40 | 2126600 | 20.0 |
| Cyclopenta(cd)pyr... | 21.07 | 3.0 | ng/ul | 321939 | 5 | 21.40 | 2126600 | 20.0 |
| Dinaphtho[1,2-b:1... | 23.32 | 2.1 | ng/ul | 57219 | 6 | 23.72 | 555961 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W7DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-14DL
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035118.D
 % Solids : 89.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 10.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 370 | U |
| 11104-28-2 | Aroclor-1221 | 370 | U |
| 11141-16-5 | Aroclor-1232 | 370 | U |
| 53469-21-9 | Aroclor-1242 | 370 | U |
| 12672-29-6 | Aroclor-1248 | 370 | U |
| 11097-69-1 | Aroclor-1254 | 370 | U |
| 11096-82-5 | Aroclor-1260 | 16000 | ED |
| 37324-23-5 | Aroclor-1262 | 370 | U |
| 11100-14-4 | Aroclor-1268 | 370 | U |

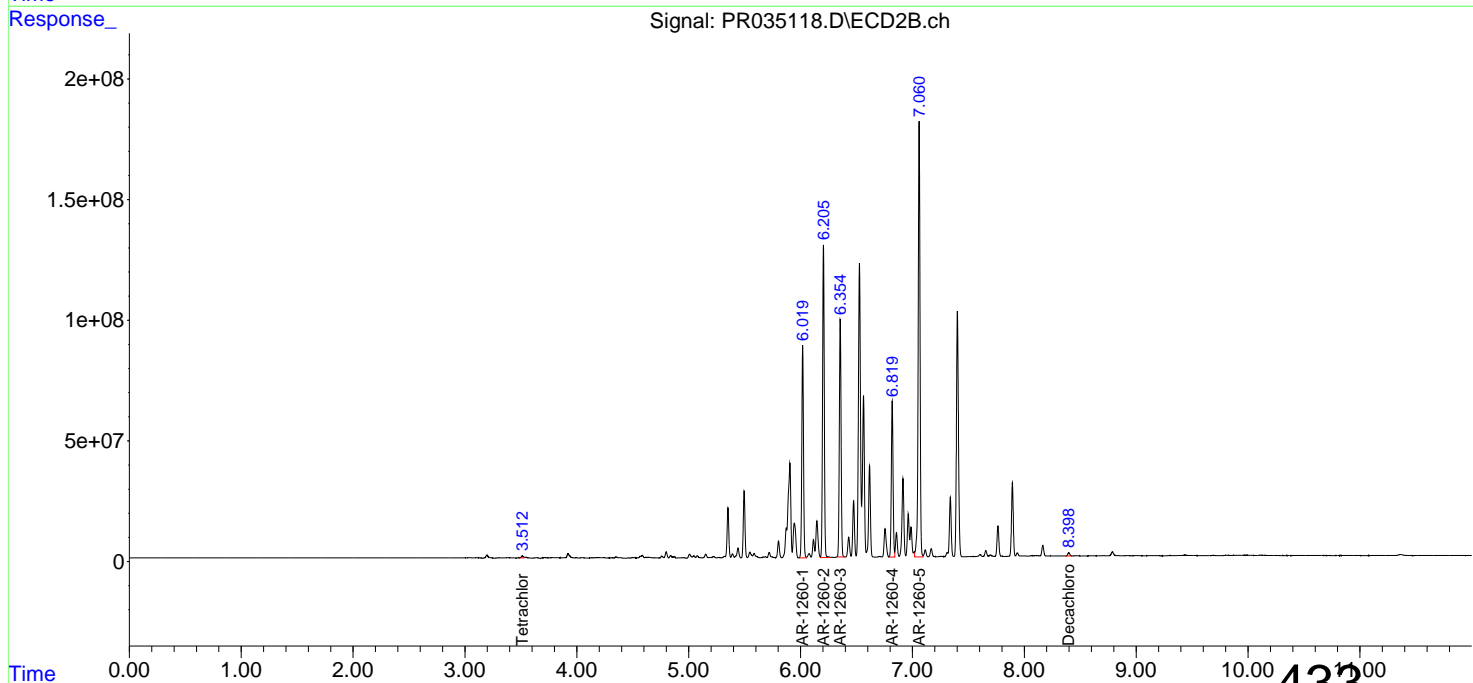
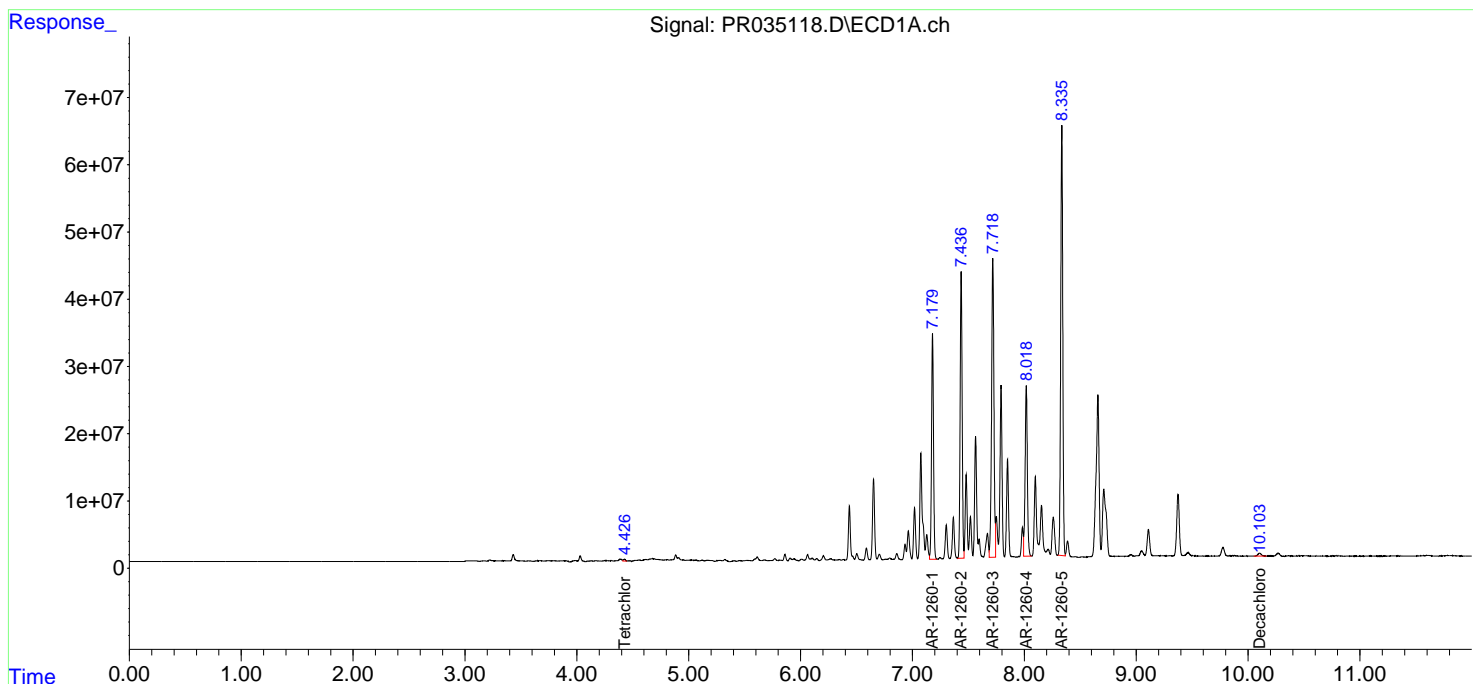
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035118.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:13
 Operator : SM\SJ
 Sample : J6428-14DL 10X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W7DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035118.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:13
 Operator : SM\SJ
 Sample : J6428-14DL 10X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W7DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|---------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 3634046 | 9107652 | 1.868m | 2.613 # |
| 2) SA Decachlor... | 10.103 | 8.398 | 9022066 | 16807869 | 4.589 | 3.823 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.180 | 6.019 | 410.6E6 | 930.1E6 | 4368.113 | 4326.421 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 525.7E6 | 1377.8E6 | 4528.272 | 5063.165 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 643.5E6 | 1066.1E6 | 4610.741 | 4294.811 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 351.8E6 | 694.1E6 | 4073.767 | 4059.553 |
| 35) L7 AR-1260-5 | 8.336 | 7.060 | 819.0E6 | 2081.2E6 | 4536.036 | 4303.110 |
| ----- | | | | | | |

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

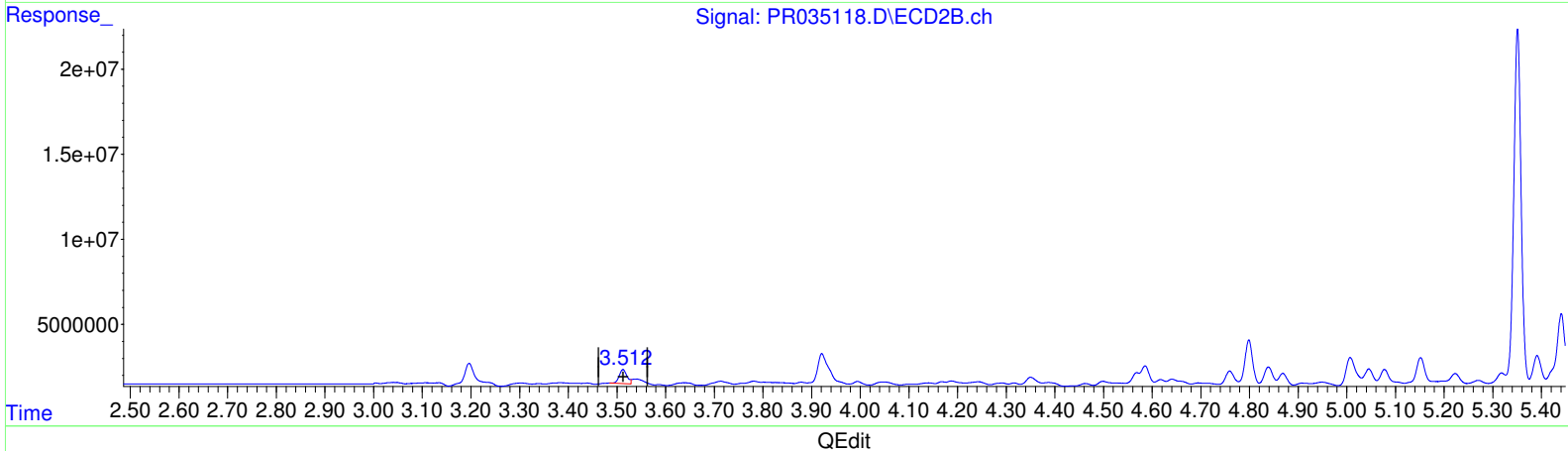
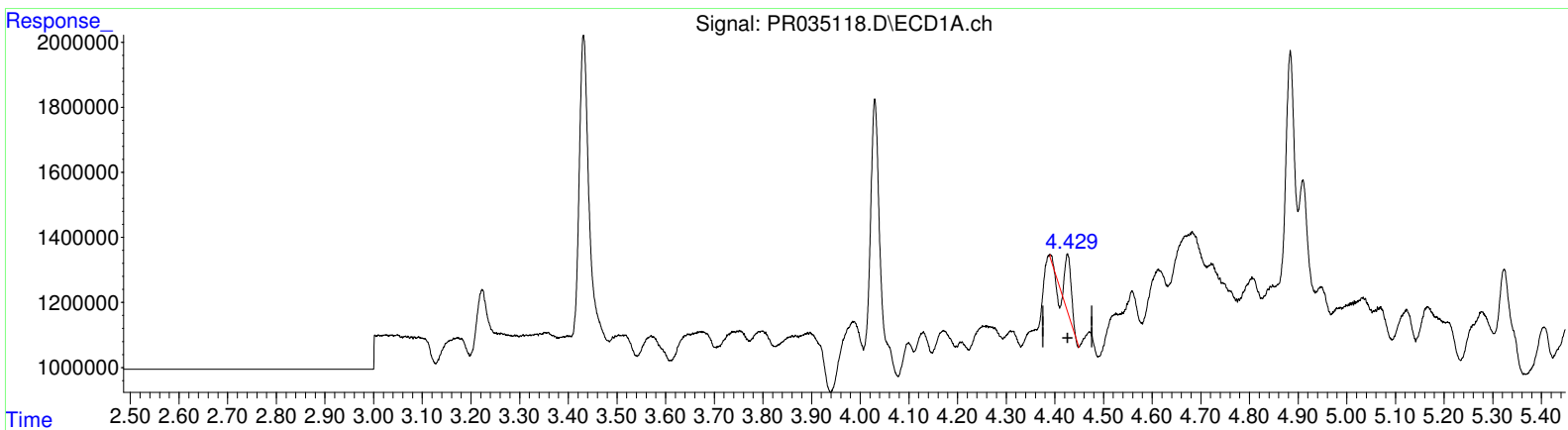
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035118.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:13
 Operator : SM\SJ
 Sample : J6428-14DL2 10X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W7DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 0.709 ng/ml
 response 1379112

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 2.613 ng/ml
 response 9107652

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035118.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:13
 Operator : SM\SJ
 Sample : J6428-14DL2 10X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

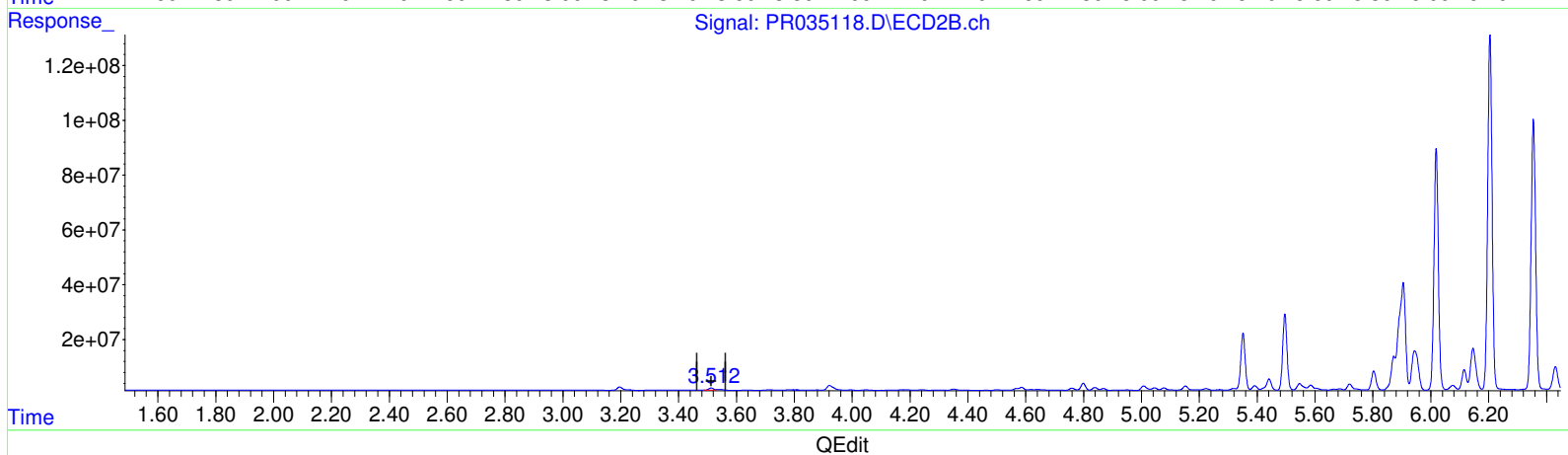
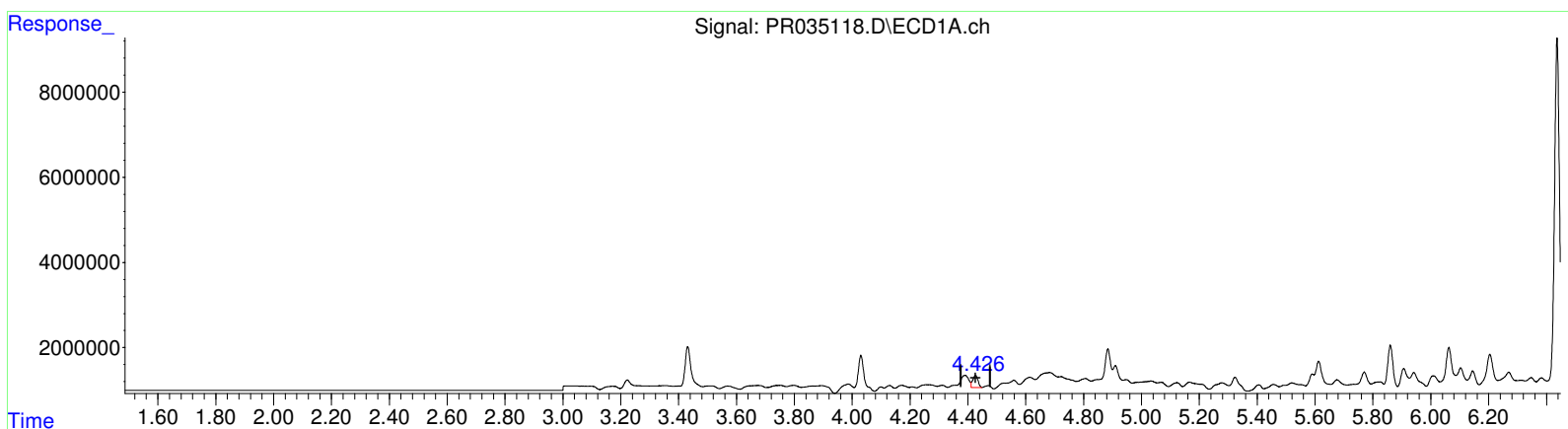
Instrument :
 ECD_R
 ClientSampleID :
 A41W7DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.426min 1.868 ng/ml m
 response 3634046

(1) Tetrachloro-m-xylene #2 (SA)

3.513min 2.613 ng/ml
 response 9107652

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035118.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:13
 Operator : SM\SJ
 Sample : J6428-14DL 10X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W7DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:23:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:52 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|---------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 3634046 | 9107652 | 1.868m | 2.613 # |
| 2) SA Decachlor... | 10.103 | 8.398 | 9022066 | 16807869 | 4.589 | 3.823 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.180 | 6.019 | 410.6E6 | 930.1E6 | 4368.113 | 4326.421 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 525.7E6 | 1377.8E6 | 4528.272 | 5063.165 |
| 33) L7 AR-1260-3 | 7.719 | 6.355 | 643.5E6 | 1066.1E6 | 4610.741 | 4294.811 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 351.8E6 | 694.1E6 | 4073.767 | 4059.553 |
| 35) L7 AR-1260-5 | 8.336 | 7.060 | 819.0E6 | 2081.2E6 | 4536.036 | 4303.110 |
| ----- | | | | | | |

> SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W7DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-14DL2
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035119.D
 % Solids : 89.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 50.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

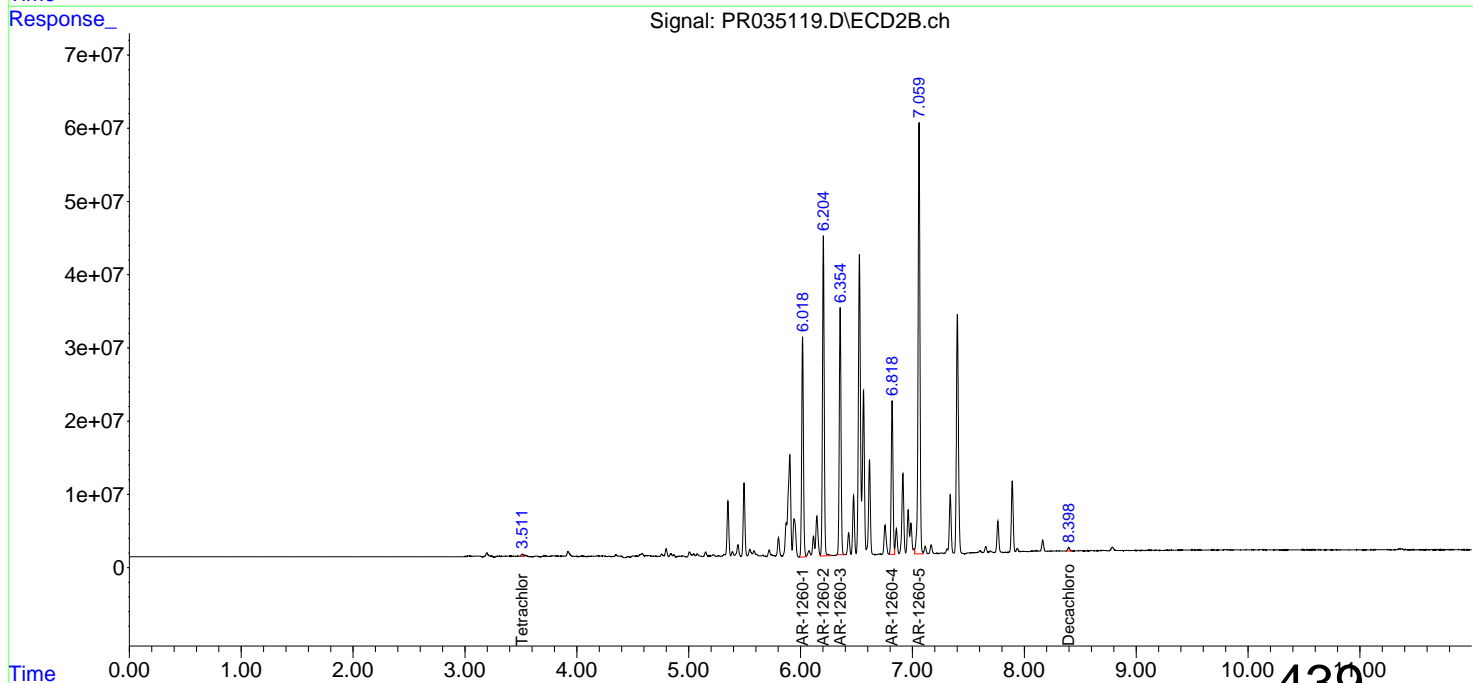
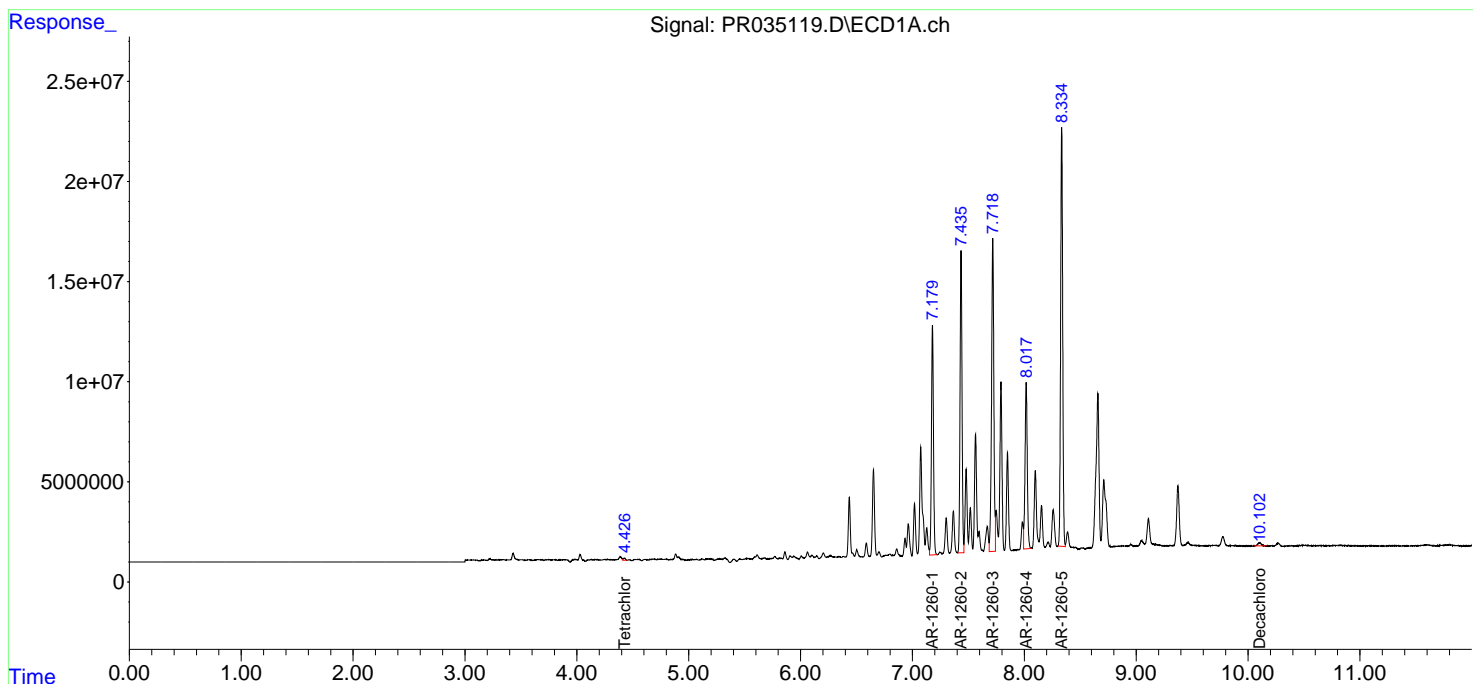
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1800 | U |
| 11104-28-2 | Aroclor-1221 | 1800 | U |
| 11141-16-5 | Aroclor-1232 | 1800 | U |
| 53469-21-9 | Aroclor-1242 | 1800 | U |
| 12672-29-6 | Aroclor-1248 | 1800 | U |
| 11097-69-1 | Aroclor-1254 | 1800 | U |
| 11096-82-5 | Aroclor-1260 | 28000 | D |
| 37324-23-5 | Aroclor-1262 | 1800 | U |
| 11100-14-4 | Aroclor-1268 | 1800 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035119.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:28
 Operator : SM\SJ
 Sample : J6428-14DL2 50X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W7DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035119.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:28
 Operator : SM\SJ
 Sample : J6428-14DL2 50X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W7DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|---------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 1436949 | 3542462 | 0.739m | 1.016 # |
| 2) SA Decachlor... | 10.103 | 8.397 | 3344896 | 5793503 | 1.701 | 1.318 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.179 | 6.018 | 143.2E6 | 325.9E6 | 1523.205 | 1516.122 |
| 32) L7 AR-1260-2 | 7.435 | 6.204 | 183.7E6 | 470.6E6 | 1582.291 | 1729.407 |
| 33) L7 AR-1260-3 | 7.719 | 6.354 | 219.4E6 | 364.2E6 | 1572.222 | 1467.011 |
| 34) L7 AR-1260-4 | 8.017 | 6.819 | 116.5E6 | 232.3E6 | 1348.426 | 1358.552 |
| 35) L7 AR-1260-5 | 8.334 | 7.060 | 267.4E6 | 686.6E6 | 1480.771 | 1419.682 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035119.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:28
 Operator : SM\SJ
 Sample : J6428-14DL2 50X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

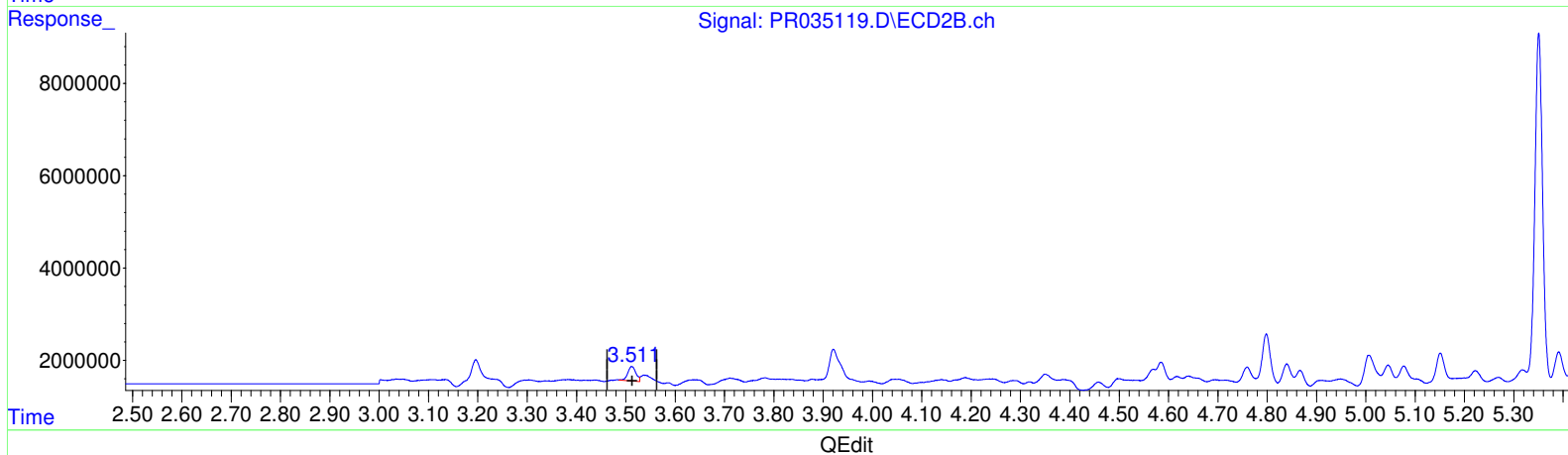
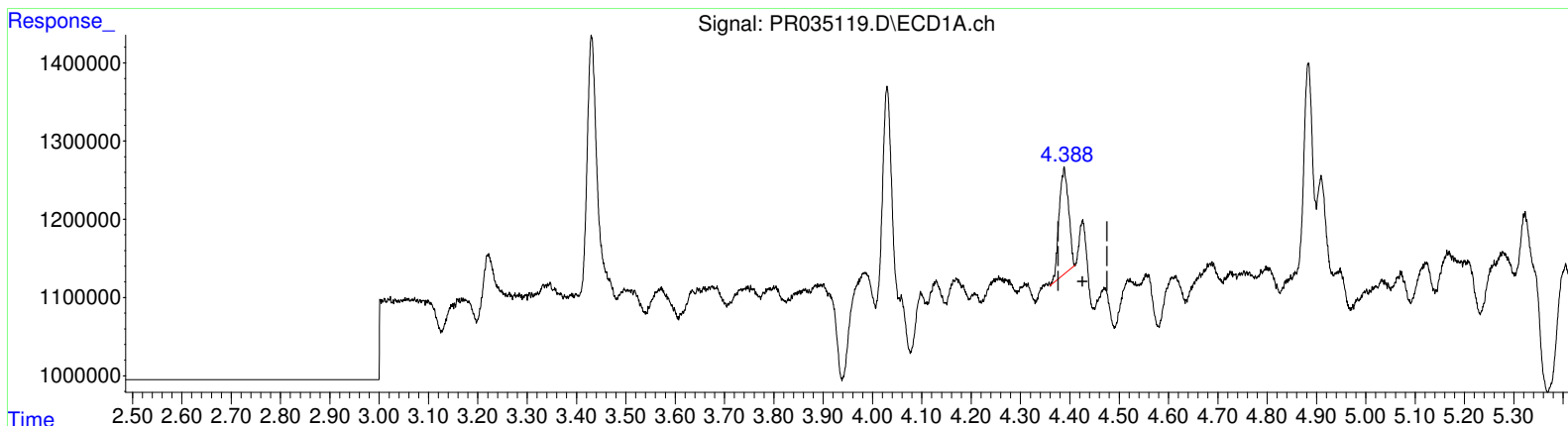
Instrument :
 ECD_R
 ClientSampled :
 A41W7DL2

Manual Integrations
 APPROVED

Sohil
 1/3/2019 2:43:15 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.389min 0.931 ng/ml
 response 1811480

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 1.016 ng/ml
 response 3542462

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035119.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:28
 Operator : SM\SJ
 Sample : J6428-14DL2 50X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

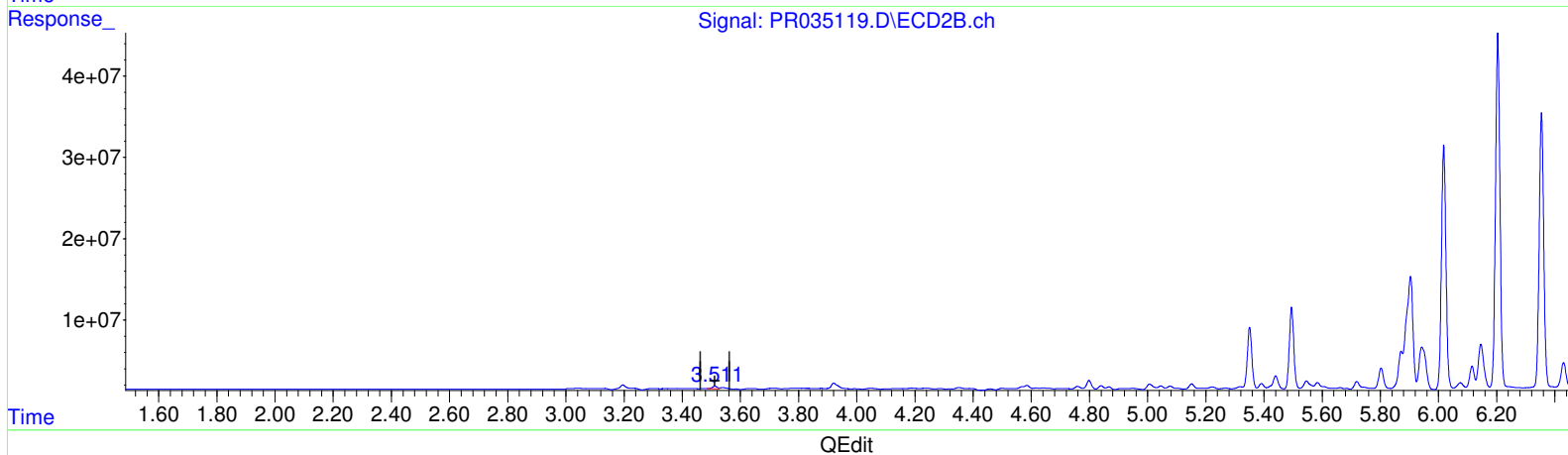
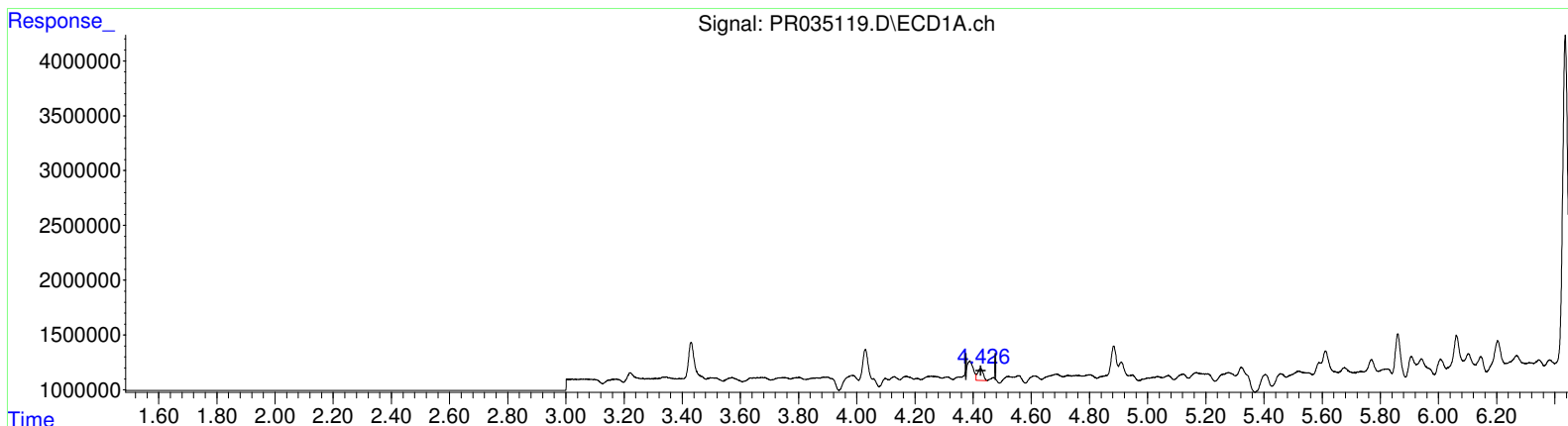
Instrument :
 ECD_R
 ClientSampled :
 A41W7DL2

Manual Integrations
 APPROVED

Sohil
 1/3/2019 2:43:15 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 0.739 ng/ml m
 response 1436949

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 1.016 ng/ml
 response 3542462

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035119.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:28
 Operator : SM\SJ
 Sample : J6428-14DL2 50X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W7DL2

Manual Integrations
APPROVED

Sohil
 1/3/2019 2:43:15 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|---------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 1436949 | 3542462 | 0.739m | 1.016 # |
| 2) SA Decachlor... | 10.103 | 8.397 | 3344896 | 5793503 | 1.701 | 1.318 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.179 | 6.018 | 143.2E6 | 325.9E6 | 1523.205 | 1516.122 |
| 32) L7 AR-1260-2 | 7.435 | 6.204 | 183.7E6 | 470.6E6 | 1582.291 | 1729.407 |
| 33) L7 AR-1260-3 | 7.719 | 6.354 | 219.4E6 | 364.2E6 | 1572.222 | 1467.011 |
| 34) L7 AR-1260-4 | 8.017 | 6.819 | 116.5E6 | 232.3E6 | 1348.426 | 1358.552 |
| 35) L7 AR-1260-5 | 8.334 | 7.060 | 267.4E6 | 686.6E6 | 1480.771 | 1419.682 |
| ----- | | | | | | |

) S3
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W8

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-15
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035061.D
 % Solids : 75.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 910 | E |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 15000 | EC |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

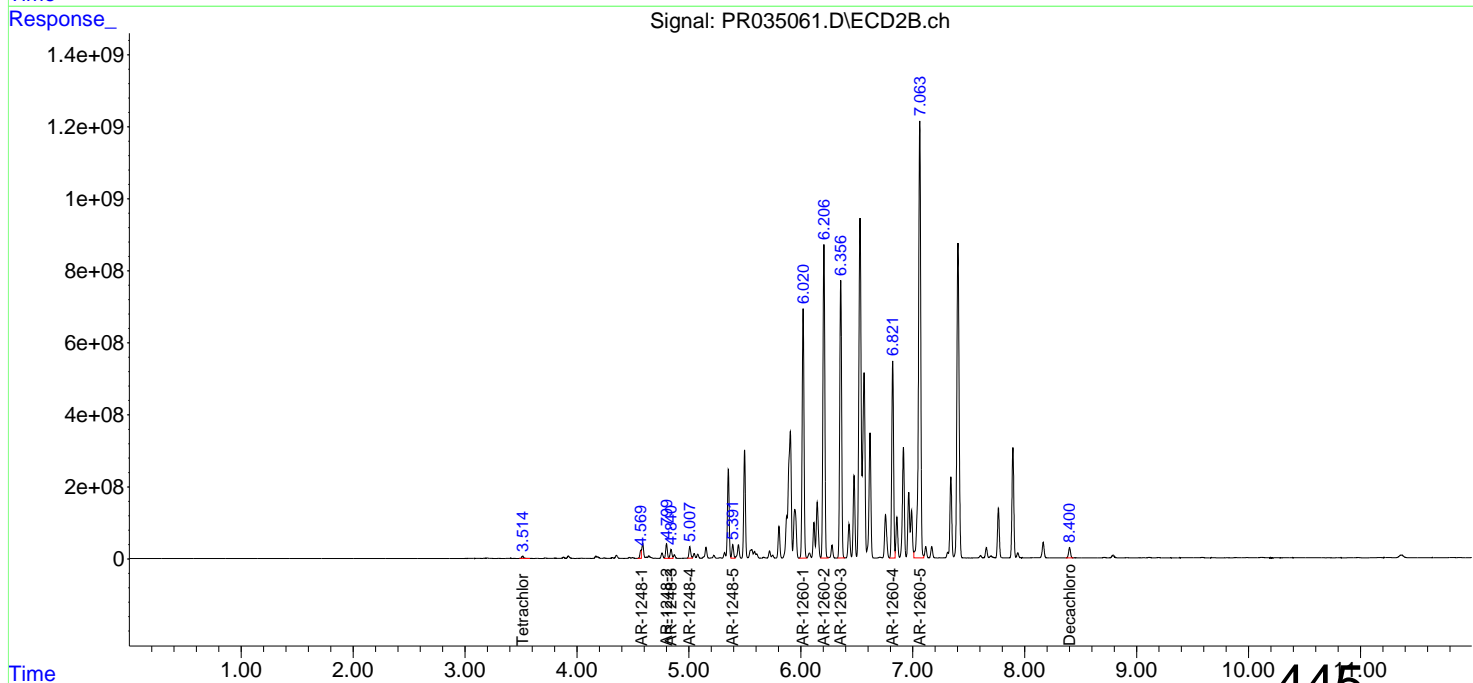
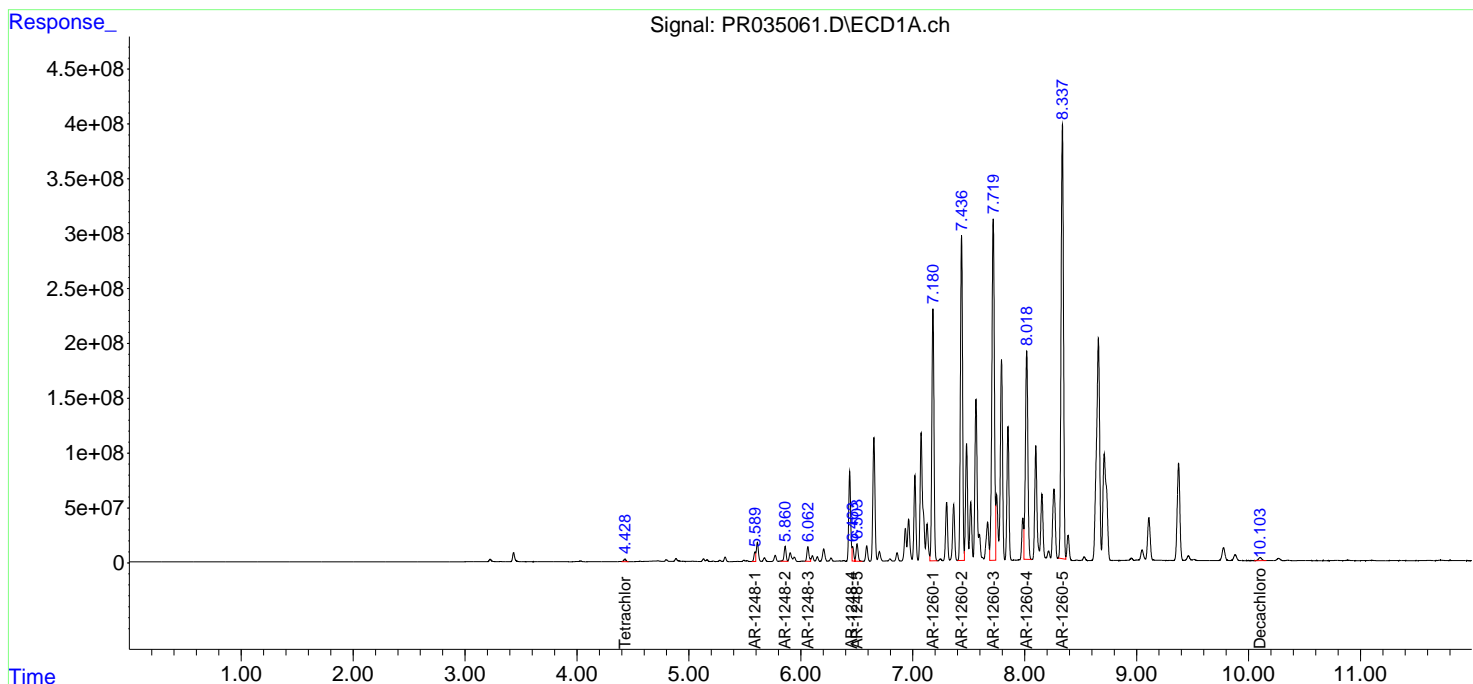
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035061.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:58
 Operator : SM\SJ
 Sample : J6428-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W8

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:33 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035061.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:58
 Operator : SM\SJ
 Sample : J6428-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W8

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:33 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 30396117 | 75498120 | 15.628 | 21.657 # |
| 2) SA Decachlor... | 10.103 | 8.401 | 56136120 | 342.5E6 | 28.555 | 77.900 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 86265142 | 197.6E6 | 1777.833 | 2026.985m |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 165.4E6 | 415.1E6 | 2503.989 | 3240.595 # |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 170.0E6 | 275.0E6 | 2275.121 | 2083.399 |
| 24) L5 AR-1248-4 | 6.463 | 5.008 | 125.6E6 | 353.6E6 | 1406.316 | 2149.402 # |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 198.5E6 | 395.8E6 | 2372.698 | 2365.255 |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 3041.7E6 | 7963.2E6 | 32355.650 | 37043.085 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 3964.3E6 | 10284.9E6 | 34145.392 | 37795.280 |
| 33) L7 AR-1260-3 | 7.719 | 6.357 | 4889.3E6 | 9097.6E6 | 35034.790 | 36648.884 |
| 34) L7 AR-1260-4 | 8.018 | 6.821 | 2902.5E6 | 6264.5E6 | 33608.129 | 36636.716 |
| 35) L7 AR-1260-5 | 8.337 | 7.063 | 5942.6E6 | 16864.3E6 | 32912.999 | 34869.237 |

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

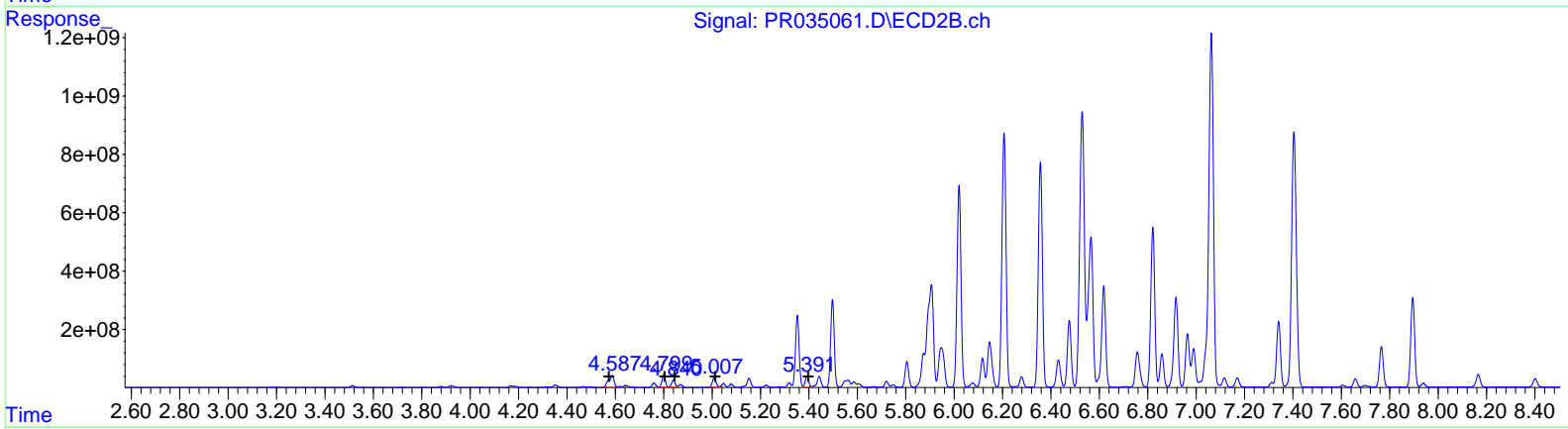
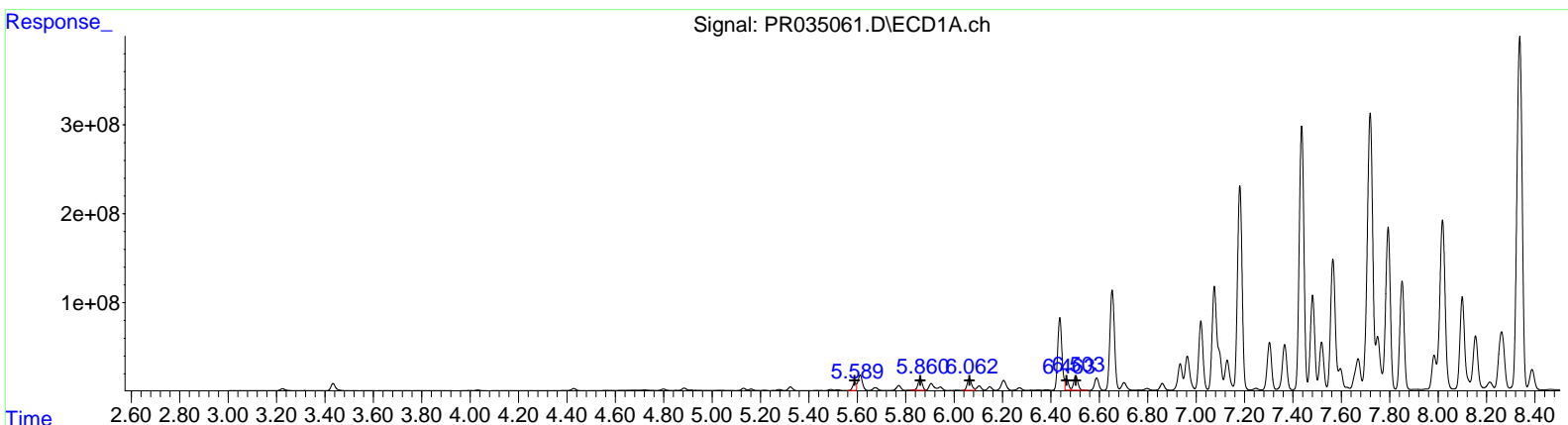
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035061.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:58
 Operator : SM\SJ
 Sample : J6428-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W8

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:33 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 86265142 | 1777.83 |
| 5.86 | 165447335 | 2503.99 |
| 6.06 | 169985470 | 2275.12 |
| 6.46 | 125648650 | 1406.32 |
| 6.50 | 198519464 | 2372.70 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.59 | 649273063 | 6659.10 |
| 4.80 | 415127993 | 3240.59 |
| 4.84 | 274961098 | 2083.40 |
| 5.01 | 353641679 | 2149.40 |
| 5.39 | 395838809 | 2365.25 |

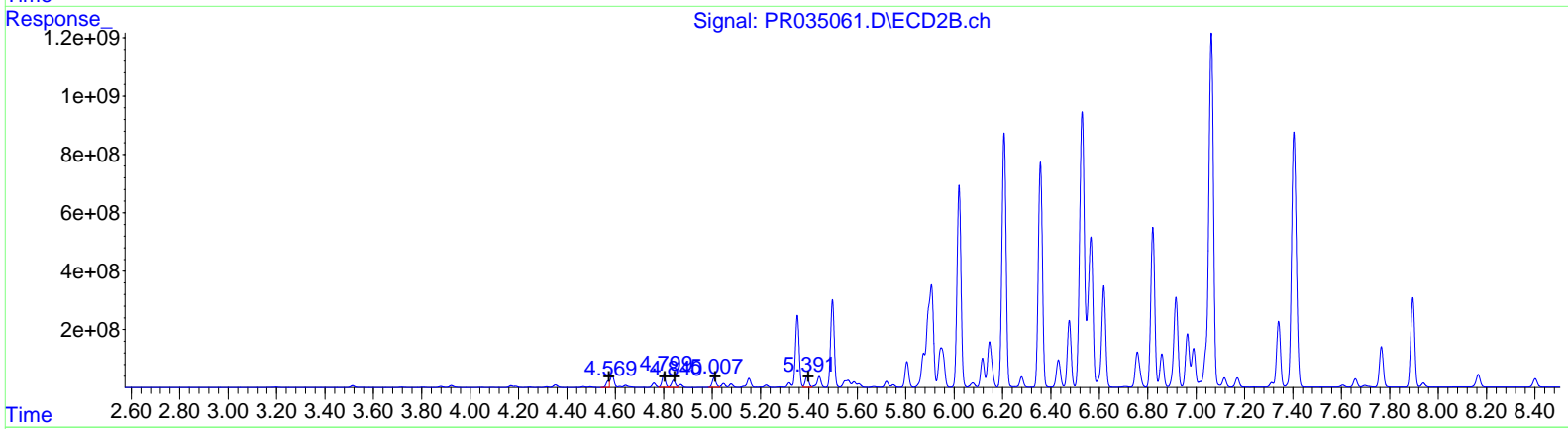
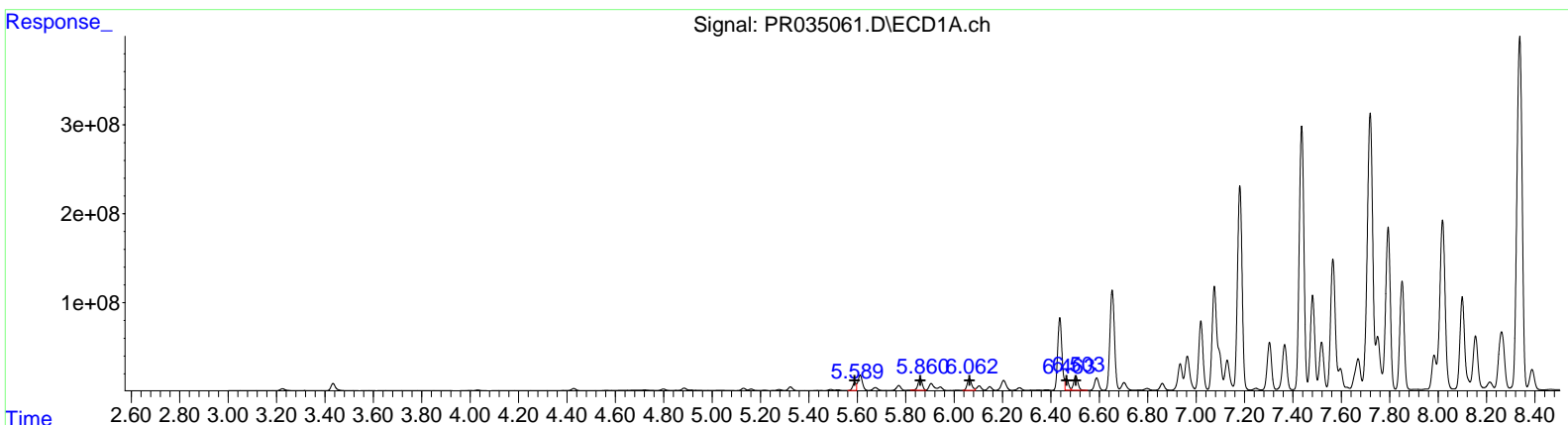
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035061.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:58
 Operator : SM\SJ
 Sample : J6428-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W8

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:33 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 86265142 | 1777.83 |
| 5.86 | 165447335 | 2503.99 |
| 6.06 | 169985470 | 2275.12 |
| 6.46 | 125648650 | 1406.32 |
| 6.50 | 198519464 | 2372.70 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 4.57 | 197634416 | 2026.98 |
| 4.80 | 415127993 | 3240.59 |
| 4.84 | 274961098 | 2083.40 |
| 5.01 | 353641679 | 2149.40 |
| 5.39 | 395838809 | 2365.25 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035061.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 05:58
 Operator : SM\SJ
 Sample : J6428-15
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:33 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|------------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 30396117 | 75498120 | 15.628 | 21.657 # |
| 2) SA Decachlor... | 10.103 | 8.401 | 56136120 | 342.5E6 | 28.555 | 77.900 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 86265142 | 197.6E6 | 1777.833 | 2026.985m |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 165.4E6 | 415.1E6 | 2503.989 | 3240.595 # |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 170.0E6 | 275.0E6 | 2275.121 | 2083.399 |
| 24) L5 AR-1248-4 | 6.463 | 5.008 | 125.6E6 | 353.6E6 | 1406.316 | 2149.402 # |
| 25) L5 AR-1248-5 | 6.503 | 5.392 | 198.5E6 | 395.8E6 | 2372.698 | 2365.255 |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 3041.7E6 | 7963.2E6 | 32355.650 | 37043.085 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 3964.3E6 | 10284.9E6 | 34145.392 | 37795.280 |
| 33) L7 AR-1260-3 | 7.719 | 6.357 | 4889.3E6 | 9097.6E6 | 35034.790 | 36648.884 |
| 34) L7 AR-1260-4 | 8.018 | 6.821 | 2902.5E6 | 6264.5E6 | 33608.129 | 36636.716 |
| 35) L7 AR-1260-5 | 8.337 | 7.063 | 5942.6E6 | 16864.3E6 | 32912.999 | 34869.237 |

SJ
12/28/18

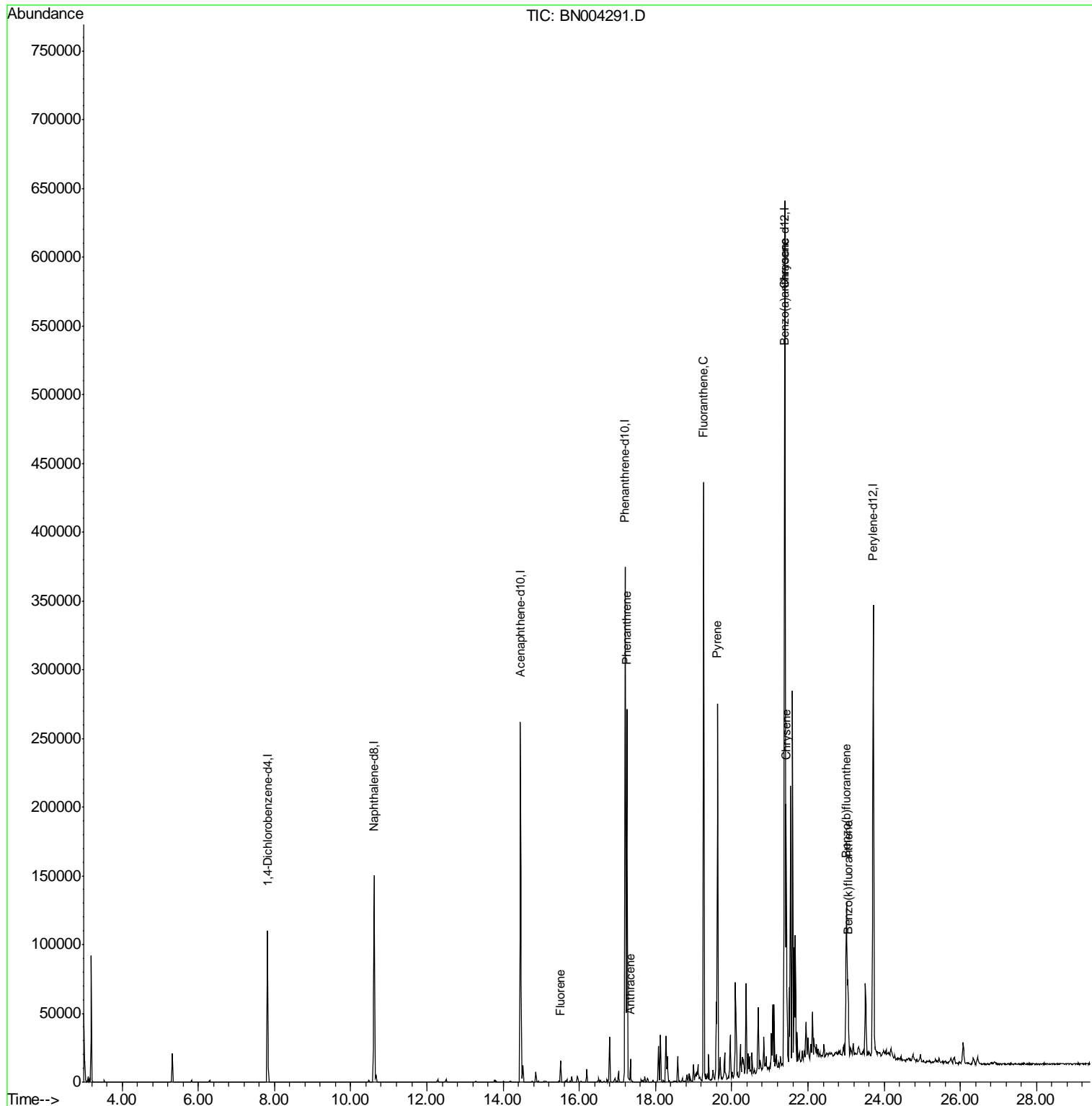
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

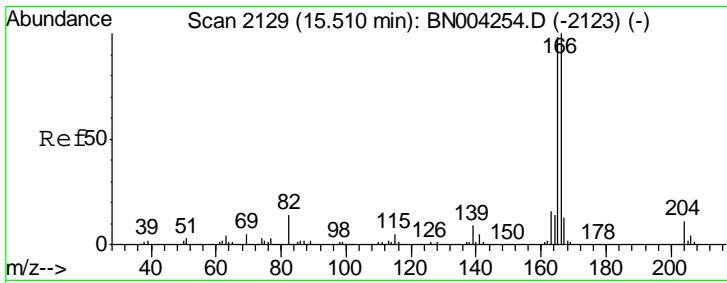
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W8

Manual Integrations
APPROVED
 Sohil
 1/2/2019 3:41:59 PM

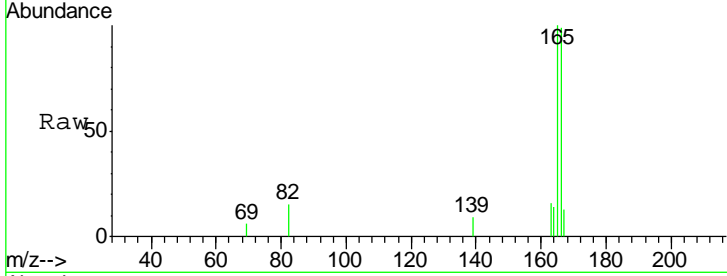
Quant Time: Dec 30 23:17:18 2018
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 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#58
 Fluorene
 Concen: 1.119 ng/ul
 RT: 15.51 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07

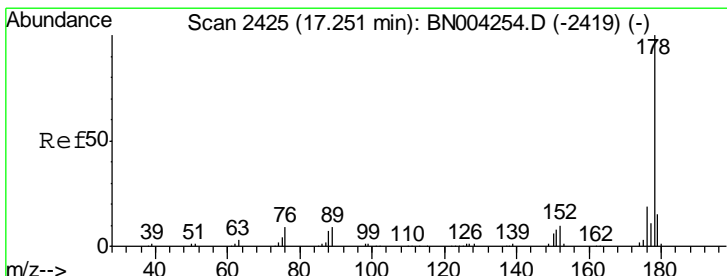
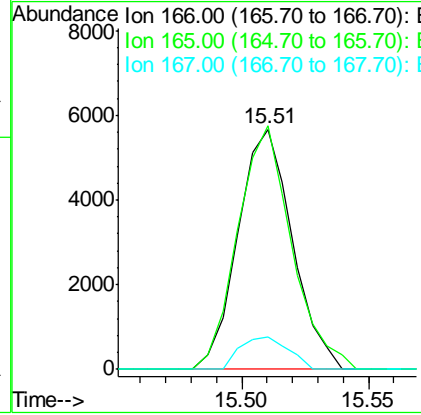
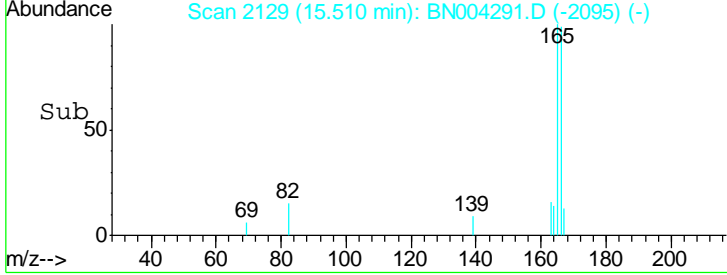
Instrument :
 BNA_N
 ClientSampled :
 A41W8



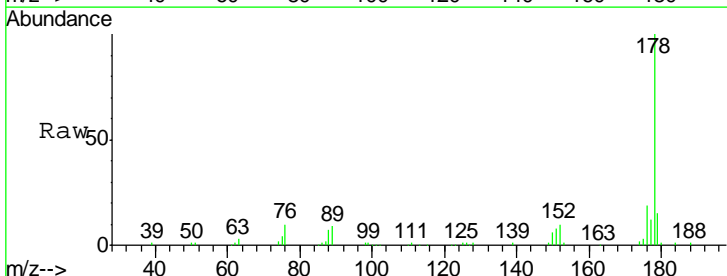
Tgt Ion: 166 Resp: 8438

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100 | | |
| 165 | 101.3 | 78.6 | 117.8 |
| 167 | 13.3 | 10.3 | 15.5 |

Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:41:59 PM

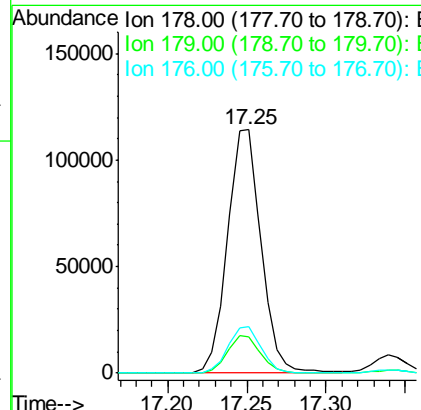
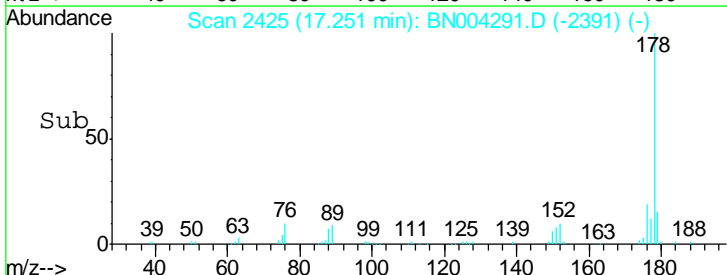


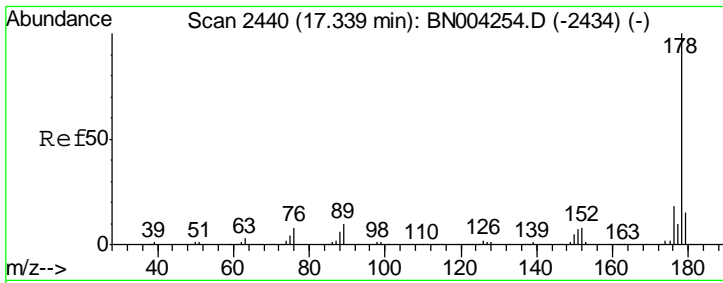
#69
 Phenanthrene
 Concen: 12.929 ng/ul
 RT: 17.25 min Scan# 2425
 Delta R.T. 0.00 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07



Tgt Ion: 178 Resp: 168125

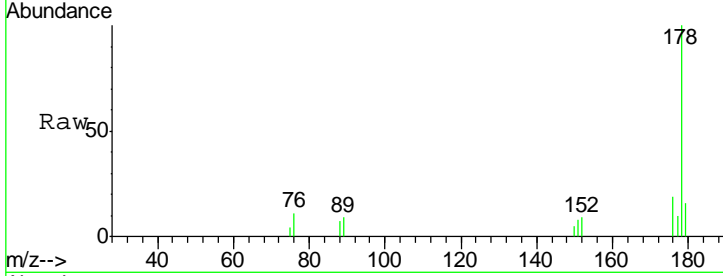
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.1 | 12.1 | 18.1 |
| 176 | 19.0 | 15.0 | 22.6 |





#71
 Anthracene
 Concen: 1.046 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07

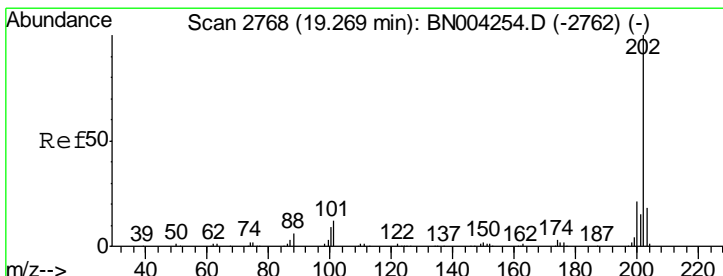
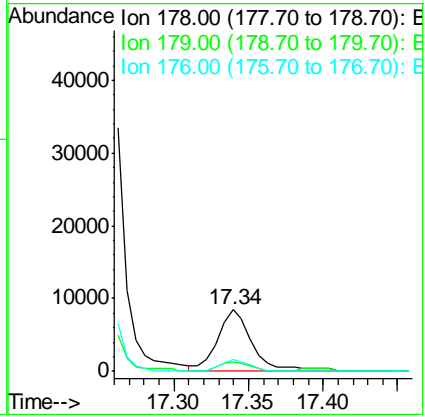
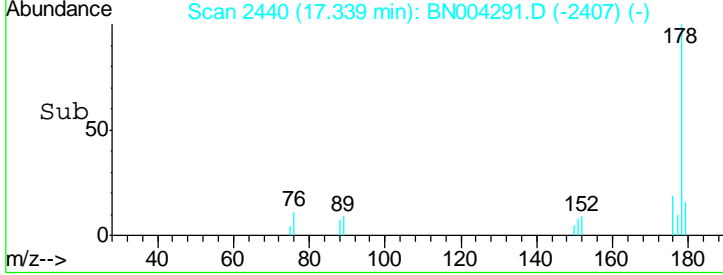
Instrument :
 BNA_N
 ClientSampled :
 A41W8



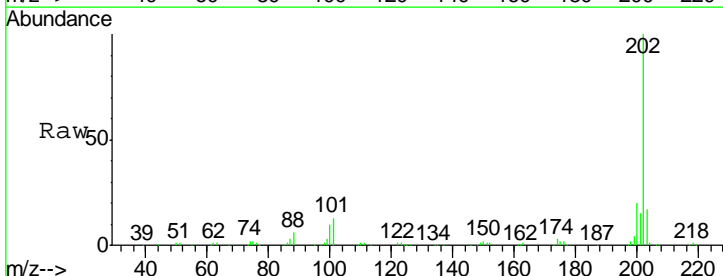
Tgt Ion: 178 Resp: 13938

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.7 | 12.1 | 18.1 |
| 176 | 18.7 | 15.2 | 22.8 |

Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:41:59 PM

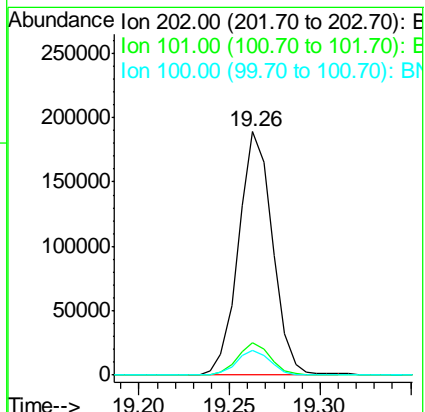
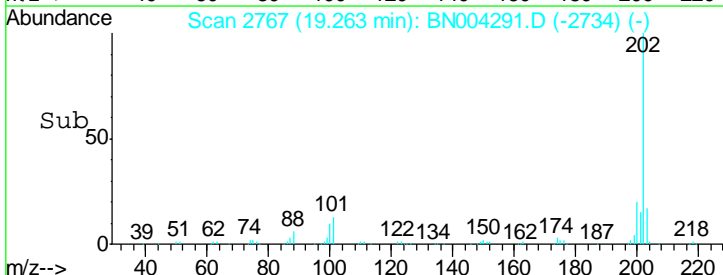


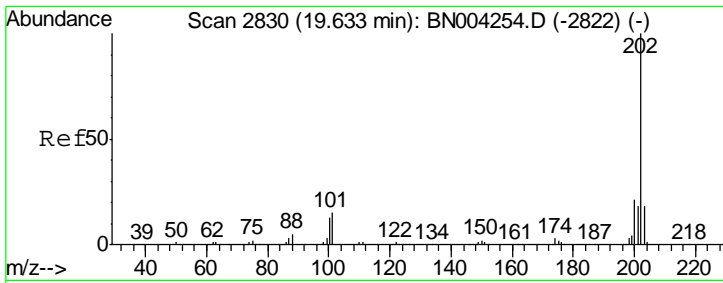
#76
 Fluoranthene
 Concen: 15.455 ng/ul
 RT: 19.26 min Scan# 2767
 Delta R.T. -0.01 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07



Tgt Ion: 202 Resp: 246336

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100 | | |
| 101 | 13.4 | 10.2 | 15.2 |
| 100 | 10.1 | 7.8 | 11.8 |



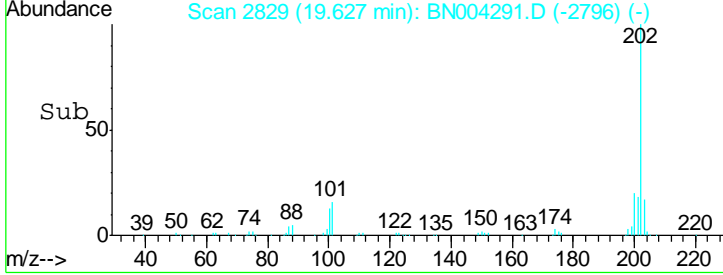
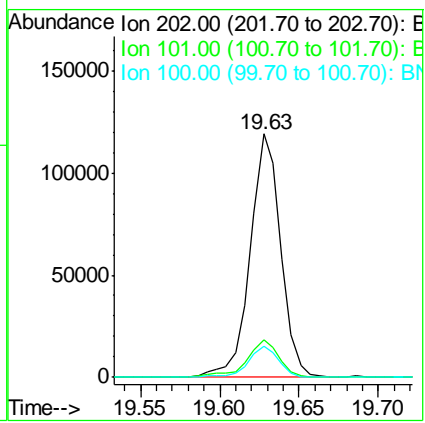
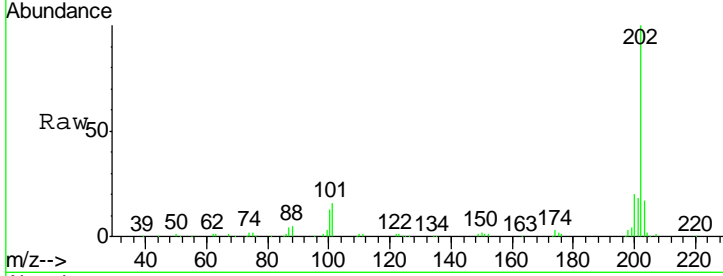


#79
 Pyrene
 Concen: 11.493 ng/ul
 RT: 19.63 min Scan# 2829
 Delta R.T. -0.01 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07

Instrument :
 BNA_N
ClientSampled :
 A41W8

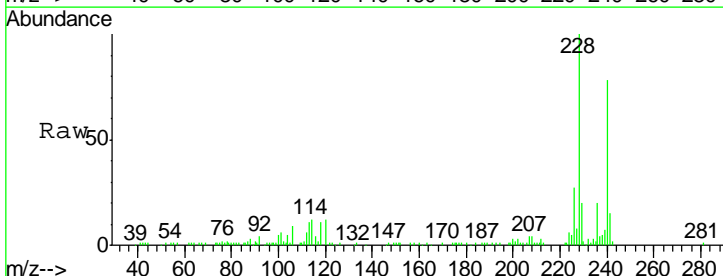
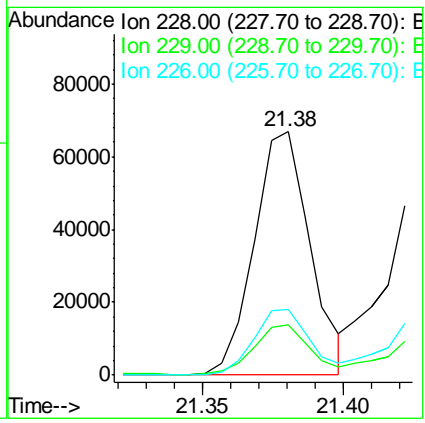
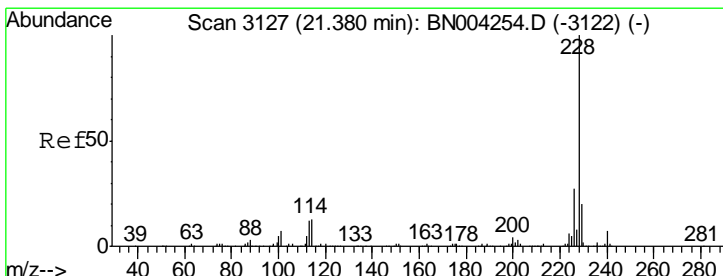
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 202 | 159736 | | |
| 101 | 15.5 | 12.2 | 18.2 |
| 100 | 12.9 | 9.9 | 14.9 |

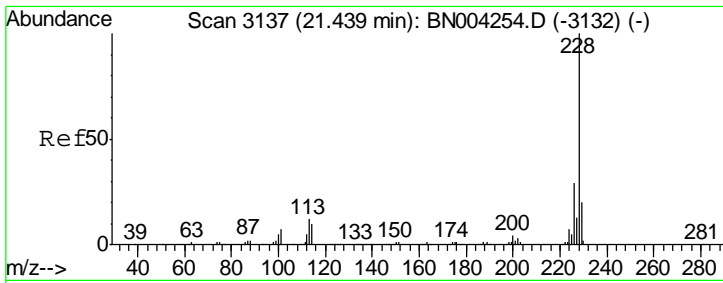
Manual Integrations APPROVED
 Sohil
 1/2/2019 3:41:59 PM



#82
 Benzo(a)anthracene
 Concen: 5.939 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. 0.00 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 228 | 92127 | | |
| 229 | 20.4 | 15.9 | 23.9 |
| 226 | 26.8 | 21.4 | 32.2 |



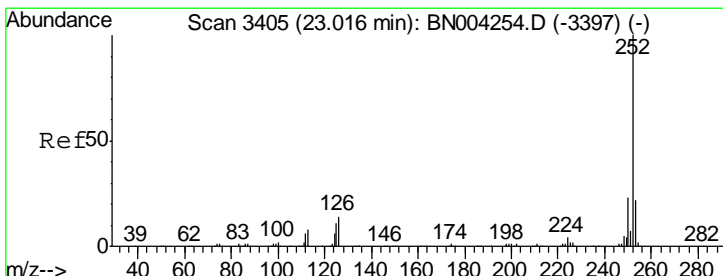
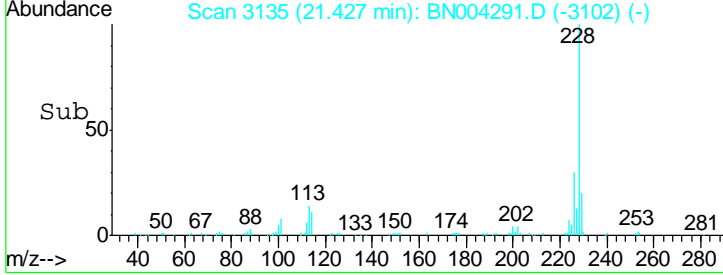
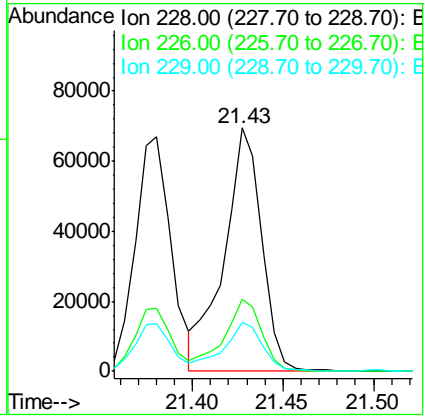
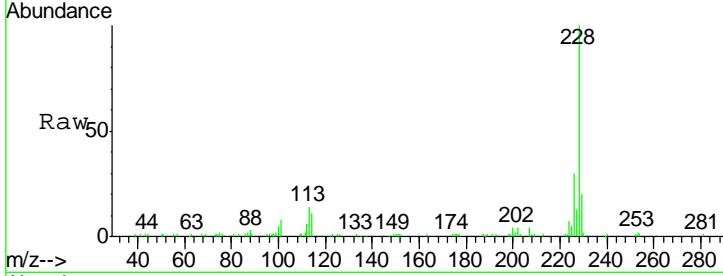


#84
 Chrysene
 Concen: 6.924 ng/ul
 RT: 21.43 min Scan# 3135
 Delta R.T. -0.01 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07

Instrument :
 BNA_N
 ClientSampled :
 A41W8

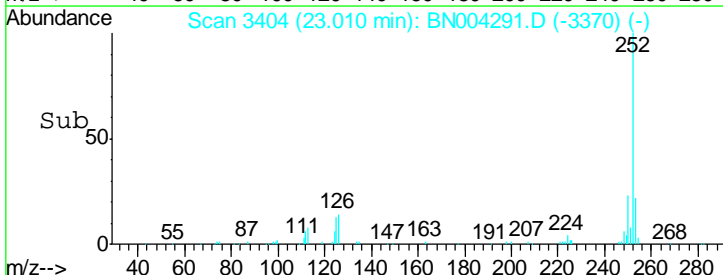
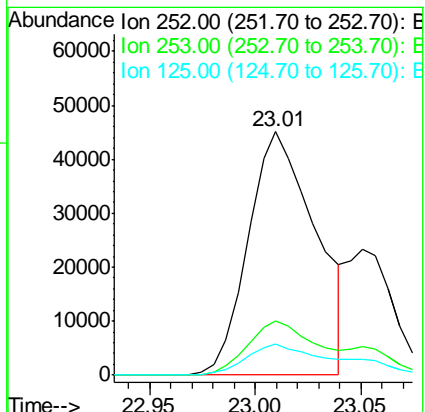
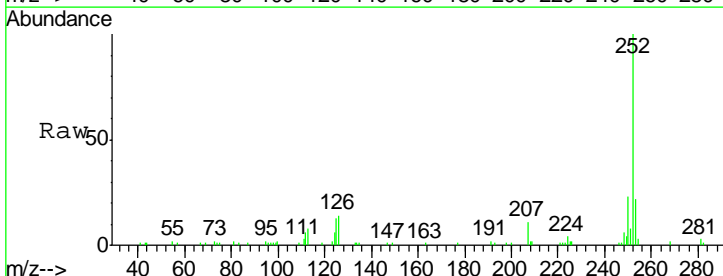
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 100617 | | |
| 226 | 29.6 | 23.8 | 35.8 |
| 229 | 20.0 | 15.8 | 23.6 |

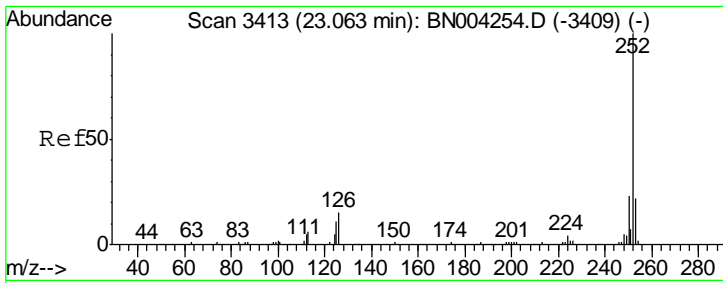
Manual Integrations
APPROVED
 Sohil
 1/2/2019 3:41:59 PM



#87
 Benzo(b)fluoranthene
 Concen: 6.858 ng/ul
 RT: 23.01 min Scan# 3404
 Delta R.T. 0.00 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07

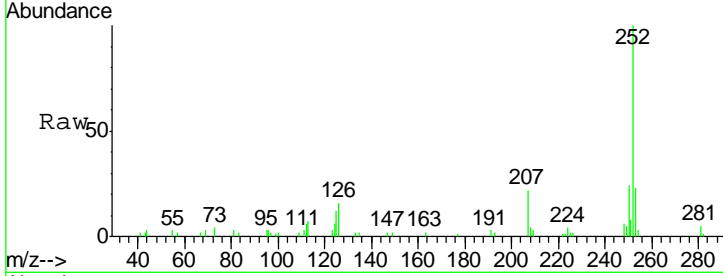
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 252 | 100203 | | |
| 253 | 22.3 | 17.3 | 25.9 |
| 125 | 12.7 | 8.2 | 12.4# |





#88
 Benzo(k)fluoranthene
 Concen: 2.564 ng/ul m
 RT: 23.05 min Scan# 3411
 Delta R.T. -0.01 min
 Lab File: BN004291.D
 Acq: 29 Dec 2018 09:07

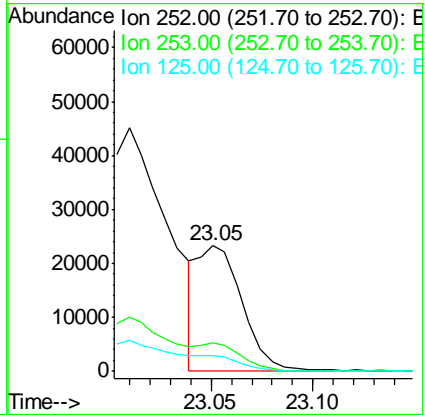
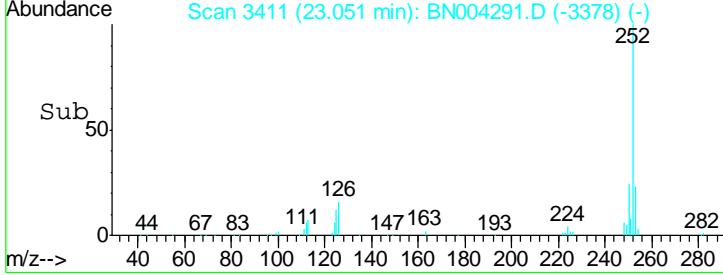
Instrument :
 BNA_N
ClientSampled :
 A41W8



Tgt Ion: 252 Resp: 35082

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100 | | |
| 253 | 22.6 | 17.1 | 25.7 |
| 125 | 12.2 | 7.9 | 11.9 |

Manual Integrations
APPROVED
 Sohil
 1/2/2019 3:41:59 PM



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W8

Manual Integrations
 APPROVED

Sohil
 1/2/2019 3:41:59 PM

Quant Time: Dec 30 23:17:18 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 31349 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.61 | 136 | 136148 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 88786 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 225053 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.39 | 240 | 248781 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 243928 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|--------------------------|-------|-----|--------|--------------|--------|
| 58) Fluorene | 15.51 | 166 | 8438 | 1.119 ng/ul | 97 |
| 69) Phenanthrene | 17.25 | 178 | 168125 | 12.929 ng/ul | 100 |
| 71) Anthracene | 17.34 | 178 | 13938 | 1.046 ng/ul | 99 |
| 76) Fluoranthene | 19.26 | 202 | 246336 | 15.455 ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 159736 | 11.493 ng/ul | 99 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 92127 | 5.939 ng/ul | 99 |
| 84) Chrysene | 21.43 | 228 | 100617 | 6.924 ng/ul | 100 |
| 87) Benzo(b)fluoranthene | 23.01 | 252 | 100203 | 6.858 ng/ul# | 97 |
| 88) Benzo(k)fluoranthene | 23.05 | 252 | 35082m | 2.564 ng/ul | |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W8

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.193 | 31 | 35 | 41 | rVB | 91906 | 97347 | 9.31% | 1.331% |
| 2 | 5.322 | 392 | 397 | 402 | rBB | 20749 | 26024 | 2.49% | 0.356% |
| 3 | 7.816 | 815 | 821 | 830 | rBB | 109912 | 165877 | 15.86% | 2.267% |
| 4 | 10.610 | 1290 | 1296 | 1302 | rBV | 150259 | 253360 | 24.22% | 3.463% |
| 5 | 14.457 | 1944 | 1950 | 1958 | rBV2 | 262141 | 394403 | 37.71% | 5.391% |
| 6 | 14.522 | 1958 | 1961 | 1966 | rVB | 11802 | 15878 | 1.52% | 0.217% |
| 7 | 14.857 | 2014 | 2018 | 2025 | rBB | 7347 | 11436 | 1.09% | 0.156% |
| 8 | 15.510 | 2124 | 2129 | 2135 | rBB | 15640 | 22276 | 2.13% | 0.305% |
| 9 | 16.198 | 2242 | 2246 | 2250 | rBB | 9688 | 11354 | 1.09% | 0.155% |
| 10 | 16.798 | 2340 | 2348 | 2354 | rVB | 33168 | 44564 | 4.26% | 0.609% |
| 11 | 17.028 | 2383 | 2387 | 2392 | rVB | 8149 | 10612 | 1.01% | 0.145% |
| 12 | 17.204 | 2411 | 2417 | 2421 | rBV2 | 374676 | 536832 | 51.33% | 7.338% |
| 13 | 17.245 | 2421 | 2424 | 2436 | rVV | 270732 | 383422 | 36.66% | 5.241% |
| 14 | 17.339 | 2436 | 2440 | 2445 | rVB | 15734 | 20143 | 1.93% | 0.275% |
| 15 | 18.075 | 2561 | 2565 | 2570 | rBV | 25813 | 35257 | 3.37% | 0.482% |
| 16 | 18.128 | 2570 | 2574 | 2580 | rVB | 33614 | 46786 | 4.47% | 0.640% |
| 17 | 18.275 | 2593 | 2599 | 2603 | rBV2 | 33906 | 62294 | 5.96% | 0.852% |
| 18 | 18.310 | 2603 | 2605 | 2610 | rVB | 18646 | 21710 | 2.08% | 0.297% |
| 19 | 18.580 | 2647 | 2651 | 2657 | rVB | 18813 | 24798 | 2.37% | 0.339% |
| 20 | 18.992 | 2716 | 2721 | 2726 | rBV2 | 11971 | 17112 | 1.64% | 0.234% |
| 21 | 19.110 | 2739 | 2741 | 2748 | rVB2 | 10086 | 13059 | 1.25% | 0.179% |
| 22 | 19.263 | 2761 | 2767 | 2774 | rBV | 434895 | 557226 | 53.28% | 7.617% |
| 23 | 19.392 | 2786 | 2789 | 2795 | rVB | 19029 | 20041 | 1.92% | 0.274% |
| 24 | 19.510 | 2804 | 2809 | 2816 | rBV2 | 7168 | 11911 | 1.14% | 0.163% |
| 25 | 19.592 | 2816 | 2823 | 2825 | rVV2 | 57068 | 79975 | 7.65% | 1.093% |
| 26 | 19.627 | 2825 | 2829 | 2836 | rVV | 273809 | 360878 | 34.50% | 4.933% |
| 27 | 19.698 | 2836 | 2841 | 2845 | rVB | 16334 | 21673 | 2.07% | 0.296% |
| 28 | 19.810 | 2854 | 2860 | 2863 | rBV | 18552 | 27880 | 2.67% | 0.381% |
| 29 | 19.957 | 2880 | 2885 | 2891 | rBV | 31226 | 46433 | 4.44% | 0.635% |
| 30 | 20.098 | 2901 | 2909 | 2917 | rBV3 | 69521 | 145911 | 13.95% | 1.995% |
| 31 | 20.222 | 2925 | 2930 | 2934 | rBV | 23534 | 31811 | 3.04% | 0.435% |
| 32 | 20.275 | 2934 | 2939 | 2943 | rVV2 | 13637 | 32435 | 3.10% | 0.443% |
| 33 | 20.316 | 2944 | 2946 | 2950 | rVV | 11147 | 12033 | 1.15% | 0.164% |
| 34 | 20.375 | 2950 | 2956 | 2961 | rVV2 | 66061 | 80174 | 7.67% | 1.096% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W8

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 20.433 | 2961 | 2966 | 2969 | rBV2 | 14669 | 23943 | 2.29% | 0.327% |
| 36 | 20.469 | 2969 | 2972 | 2975 | rVB2 | 10481 | 12015 | 1.15% | 0.164% |
| 37 | 20.533 | 2980 | 2983 | 2989 | rBV3 | 15635 | 20679 | 1.98% | 0.283% |
| 38 | 20.674 | 3003 | 3007 | 3008 | rBV2 | 19194 | 18902 | 1.81% | 0.258% |
| 39 | 20.698 | 3008 | 3011 | 3016 | rVV3 | 46248 | 58710 | 5.61% | 0.803% |
| 40 | 20.745 | 3016 | 3019 | 3028 | rVB5 | 7582 | 12034 | 1.15% | 0.164% |
| 41 | 20.839 | 3030 | 3035 | 3038 | rBV3 | 23909 | 28762 | 2.75% | 0.393% |
| 42 | 21.039 | 3065 | 3069 | 3072 | rBV | 25968 | 33727 | 3.22% | 0.461% |
| 43 | 21.074 | 3072 | 3075 | 3079 | rVV2 | 46265 | 58499 | 5.59% | 0.800% |
| 44 | 21.116 | 3079 | 3082 | 3086 | rVV | 46159 | 50732 | 4.85% | 0.693% |
| 45 | 21.169 | 3086 | 3091 | 3095 | rVB3 | 9491 | 14425 | 1.38% | 0.197% |
| 46 | 21.280 | 3104 | 3110 | 3115 | rBV2 | 7534 | 12054 | 1.15% | 0.165% |
| 47 | 21.392 | 3120 | 3129 | 3133 | rBV2 | 628939 | 1045881 | 100.00% | 14.297% |
| 48 | 21.427 | 3133 | 3135 | 3144 | rVV | 188930 | 266600 | 25.49% | 3.644% |
| 49 | 21.510 | 3145 | 3149 | 3152 | rVV2 | 55327 | 68325 | 6.53% | 0.934% |
| 50 | 21.545 | 3152 | 3155 | 3159 | rVV | 201662 | 227992 | 21.80% | 3.117% |
| 51 | 21.598 | 3159 | 3164 | 3168 | rVV | 270532 | 318046 | 30.41% | 4.348% |
| 52 | 21.645 | 3168 | 3172 | 3174 | rVV | 83333 | 109967 | 10.51% | 1.503% |
| 53 | 21.669 | 3174 | 3176 | 3181 | rVB | 91504 | 105798 | 10.12% | 1.446% |
| 54 | 21.721 | 3181 | 3185 | 3189 | rBV2 | 21180 | 25132 | 2.40% | 0.344% |
| 55 | 21.951 | 3218 | 3224 | 3228 | rVV | 25306 | 41807 | 4.00% | 0.571% |
| 56 | 22.004 | 3230 | 3233 | 3239 | rVB | 15215 | 20615 | 1.97% | 0.282% |
| 57 | 22.074 | 3241 | 3245 | 3248 | rBV2 | 9937 | 15578 | 1.49% | 0.213% |
| 58 | 22.116 | 3248 | 3252 | 3256 | rVB | 30742 | 37602 | 3.60% | 0.514% |
| 59 | 22.157 | 3256 | 3259 | 3263 | rBV2 | 12263 | 19356 | 1.85% | 0.265% |
| 60 | 23.010 | 3398 | 3404 | 3409 | rBV | 110583 | 244602 | 23.39% | 3.344% |
| 61 | 23.186 | 3431 | 3434 | 3440 | rVB | 7686 | 11628 | 1.11% | 0.159% |
| 62 | 23.510 | 3483 | 3489 | 3496 | rVB | 52194 | 98230 | 9.39% | 1.343% |
| 63 | 23.715 | 3516 | 3524 | 3533 | rBV2 | 325848 | 629888 | 60.23% | 8.610% |
| 64 | 26.074 | 3919 | 3925 | 3935 | rVB | 15538 | 41055 | 3.93% | 0.561% |

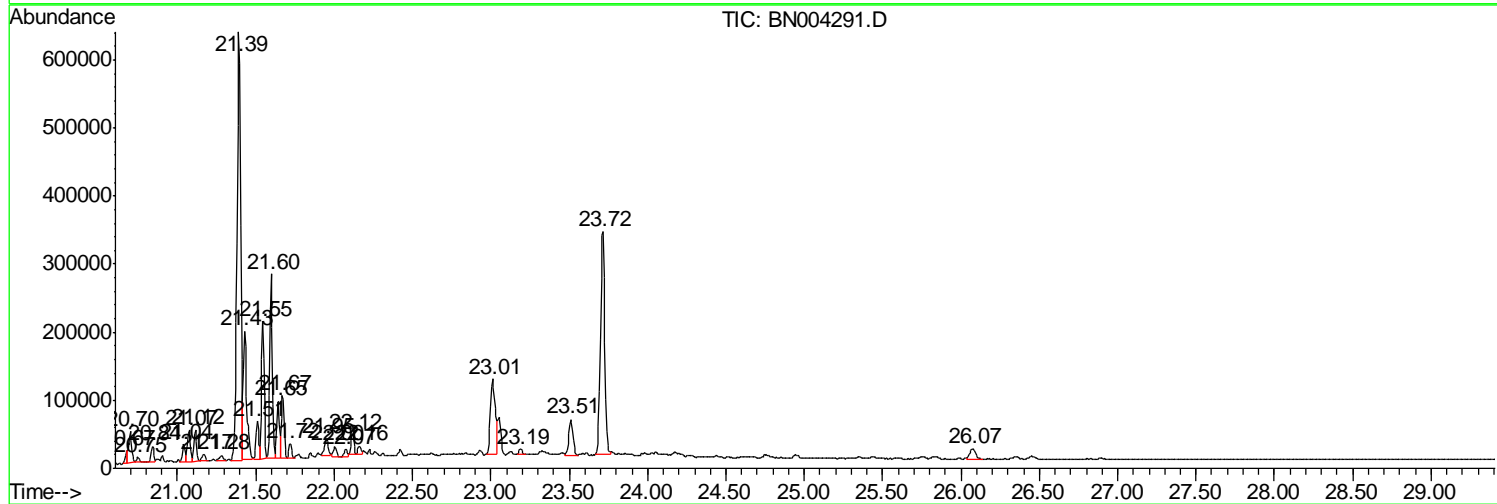
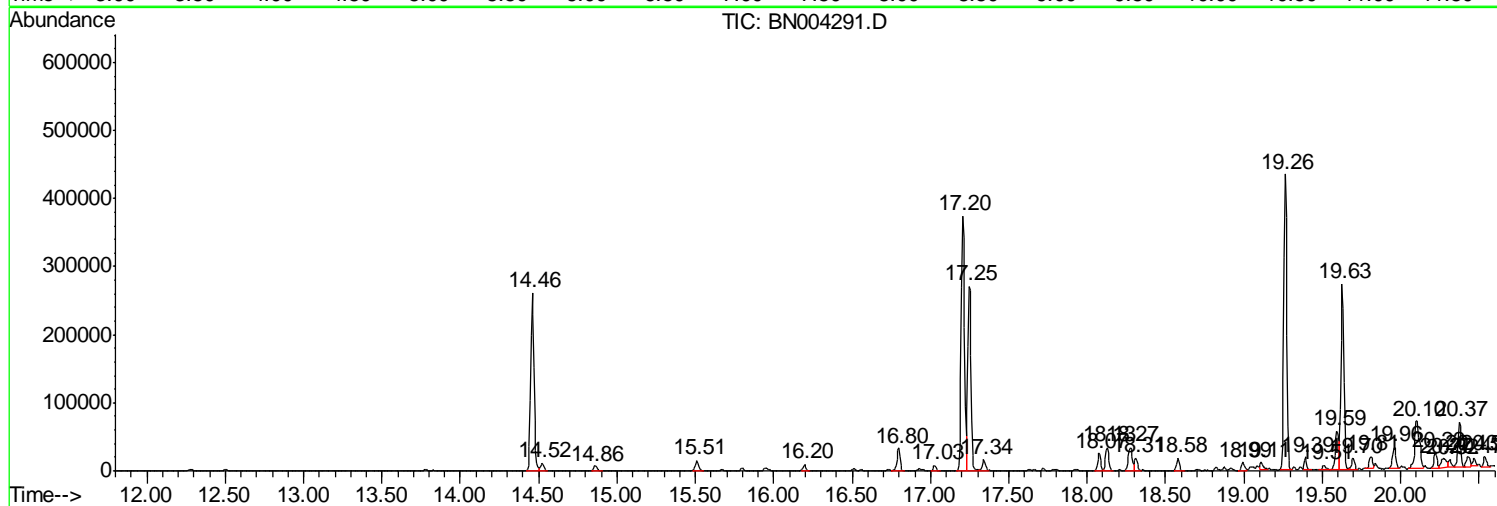
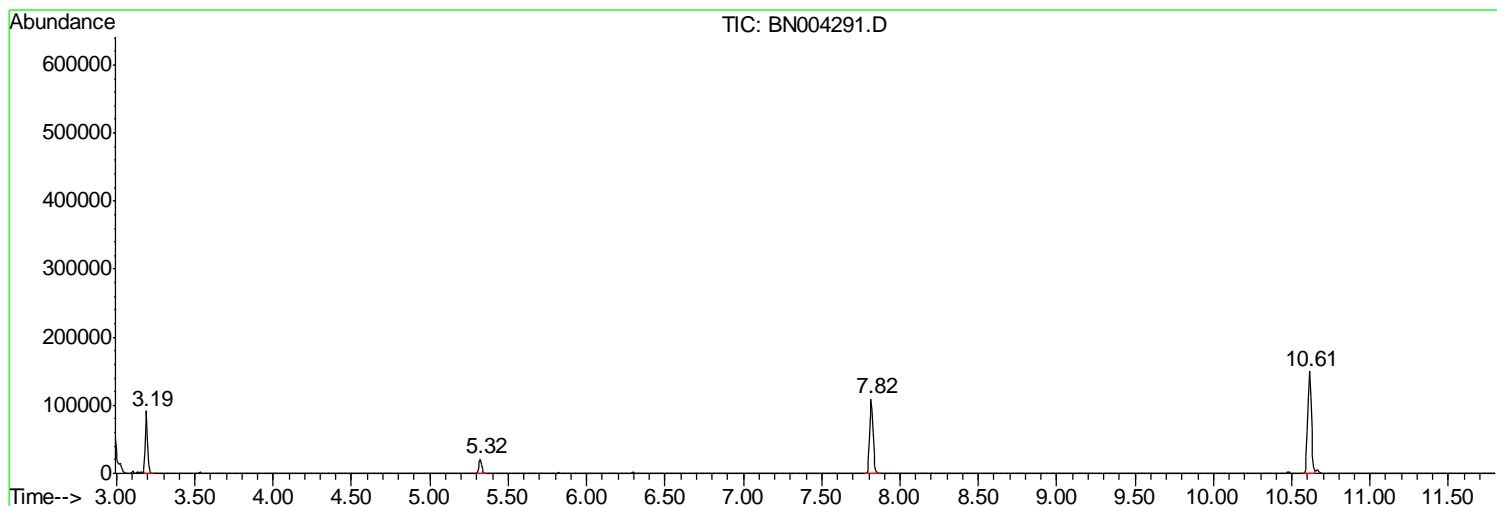
Sum of corrected areas: 7315509

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W8

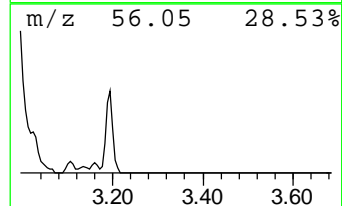
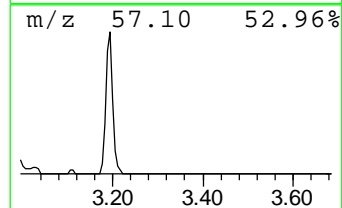
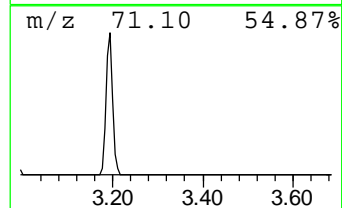
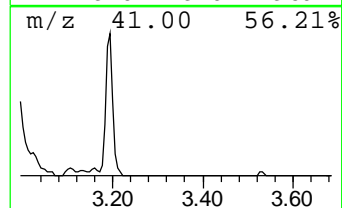
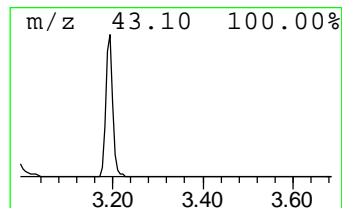
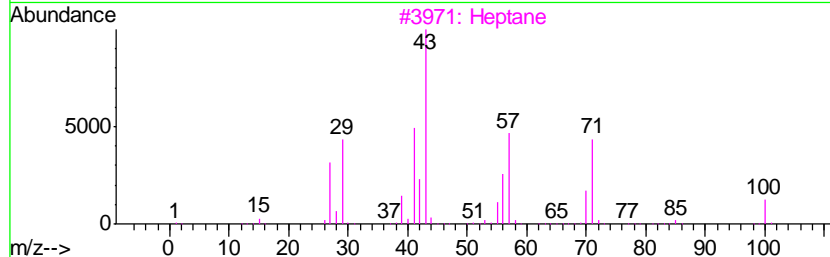
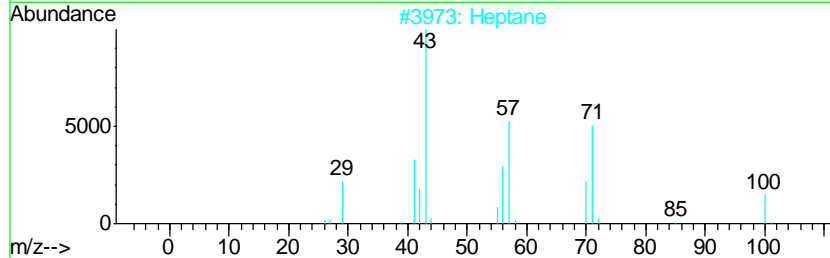
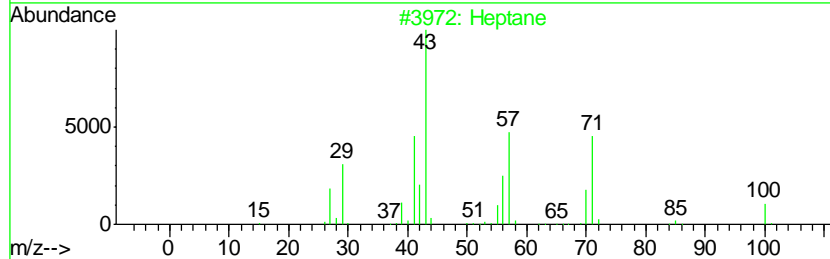
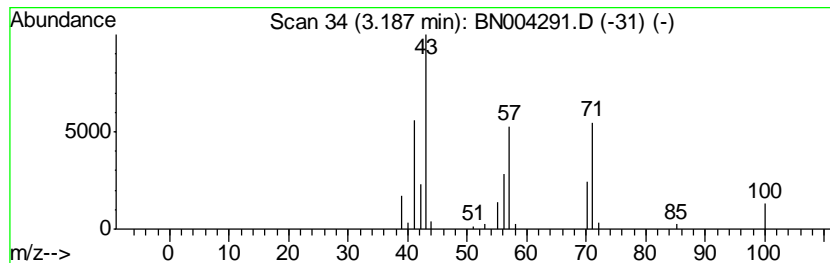
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 11.74 ng/ul | 97347 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 90 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W8

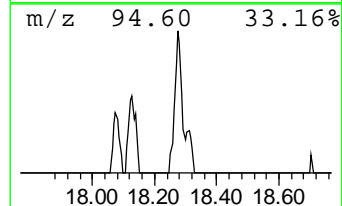
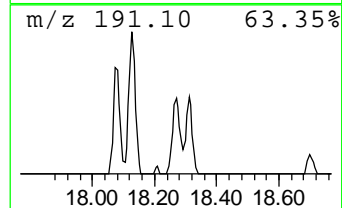
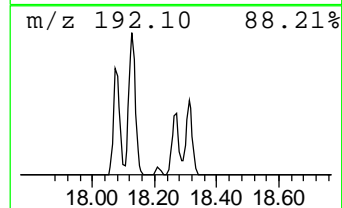
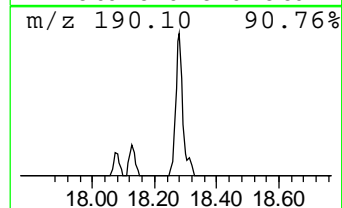
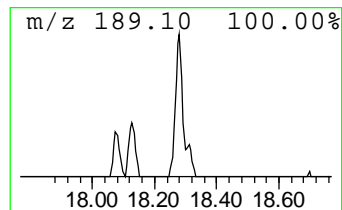
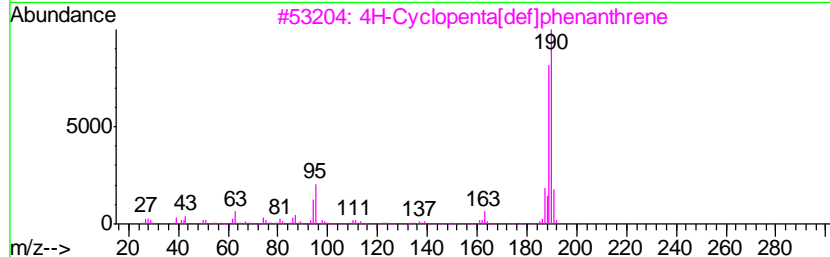
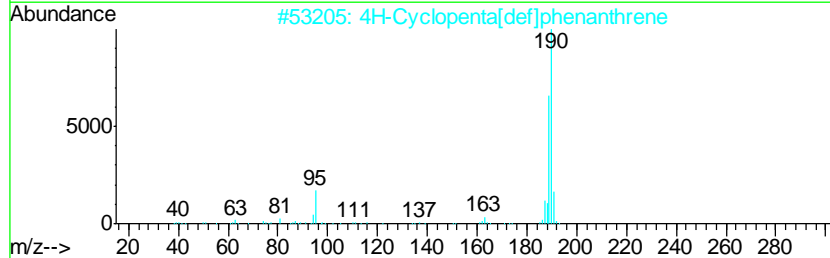
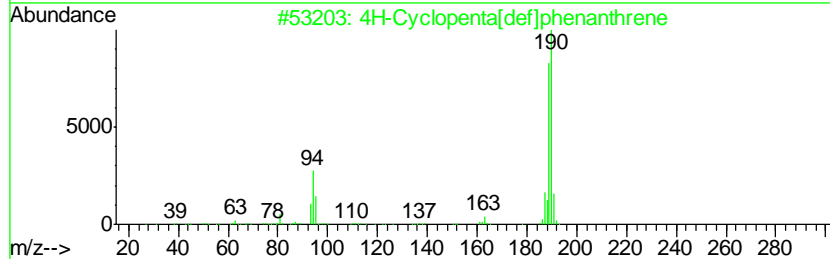
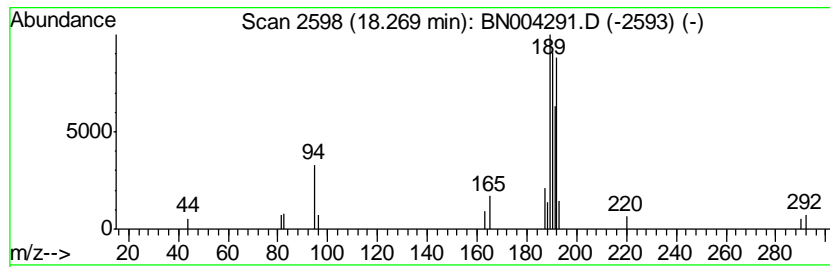
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.27 | 2.32 ng/ul | 62294 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 58 |
| 2 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 3 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 49 |
| 4 | | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 43 |
| 5 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 40 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W8

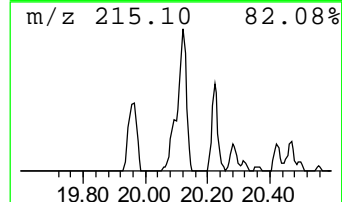
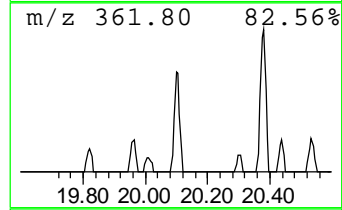
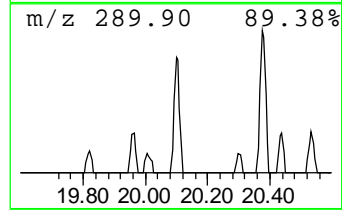
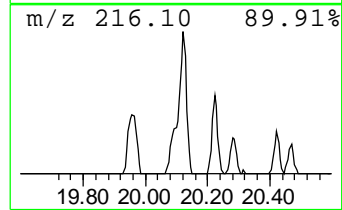
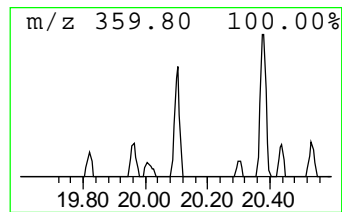
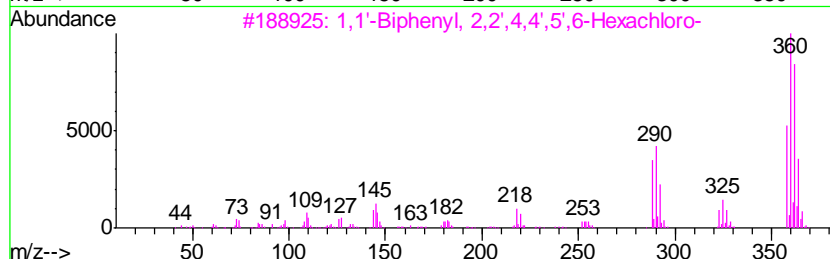
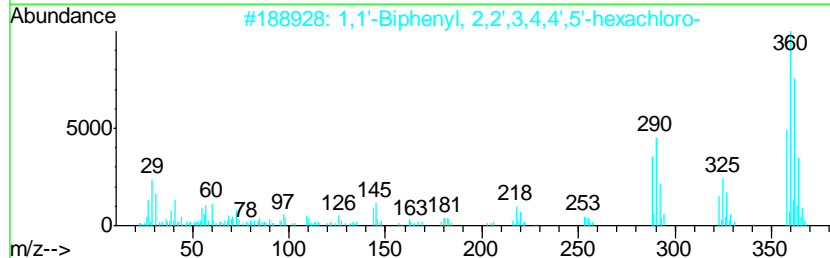
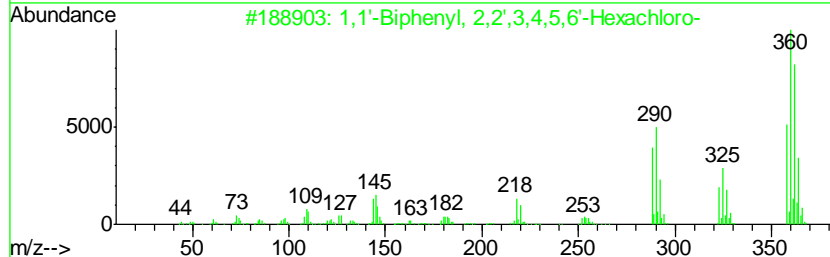
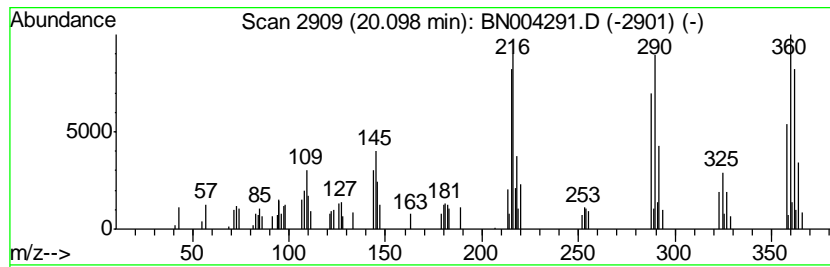
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 1,1'-Biphenyl, 2,2',3,4,5,6... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.10 | 2.79 ng/ul | 145911 | Chrysene-d12 | 21.39 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,2',3,4,5,6'-Hex... | 358 | C12H4Cl6 | 068194-15-0 | 99 |
| 2 | | 1,1'-Biphenyl, 2,2',3,4,4',5'-he... | 358 | C12H4Cl6 | 035065-28-2 | 99 |
| 3 | | 1,1'-Biphenyl, 2,2',4,4',5',6'-He... | 358 | C12H4Cl6 | 060145-22-4 | 99 |
| 4 | | 1,1'-Biphenyl, 2,3',4,4',5,5'-he... | 358 | C12H4Cl6 | 052663-72-6 | 99 |
| 5 | | 2,2',3,5,6,6'-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 068194-09-2 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41W8

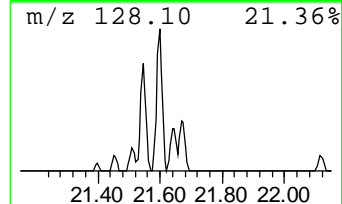
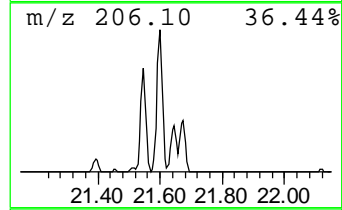
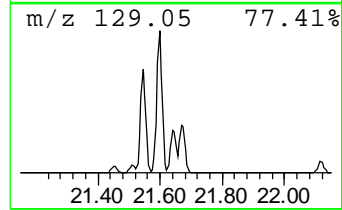
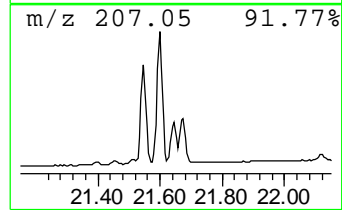
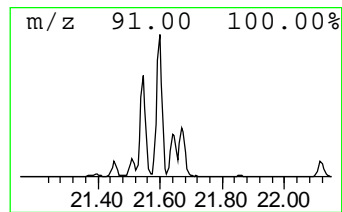
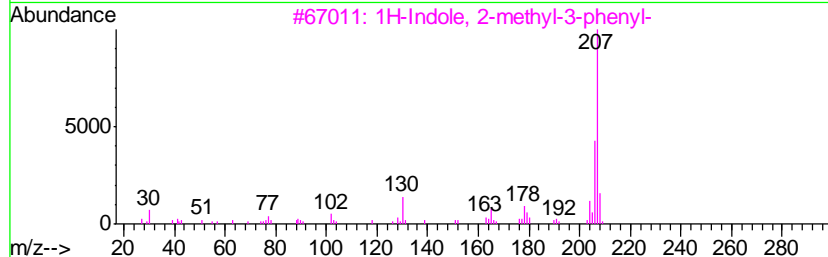
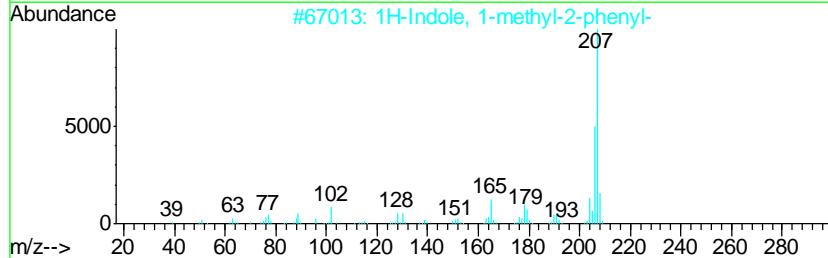
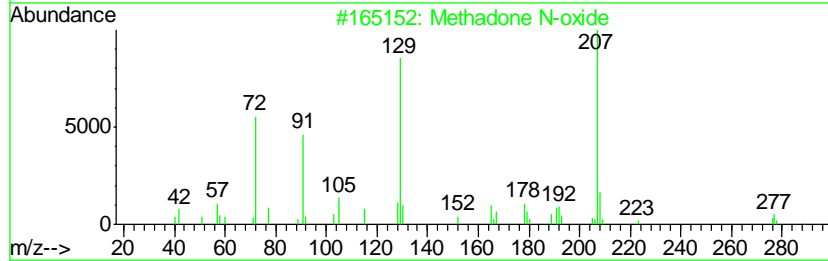
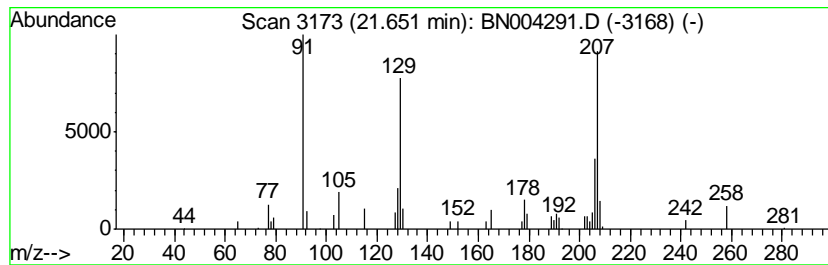
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 7 Methadone N-oxide Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.65 | 2.10 ng/ul | 109967 | Chrysene-d12 | 21.39 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1 | 5 | Methadone N-oxide | 325 | C21H27NO2 | 1000120-80-7 | 72 |
| 2 | | 1H-Indole, 1-methyl-2-phenyl- | 207 | C15H13N | 003558-24-5 | 50 |
| 3 | | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 50 |
| 4 | | 1H-Indole, 1-methyl-2-phenyl- | 207 | C15H13N | 003558-24-5 | 46 |
| 5 | | Benzo[h]quinoline, 2,4-dimethyl- | 207 | C15H13N | 000605-67-4 | 42 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41W8

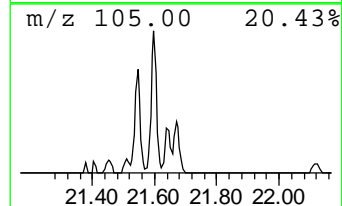
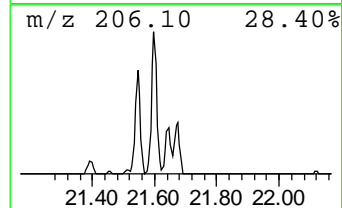
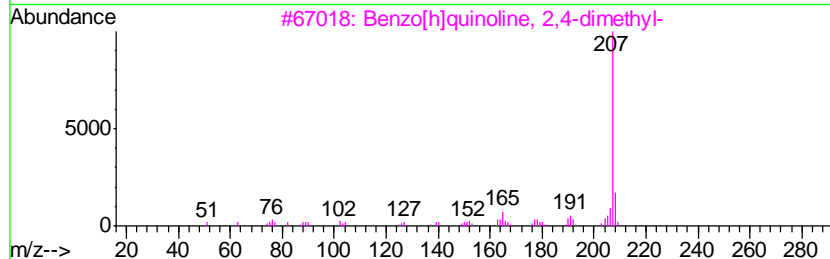
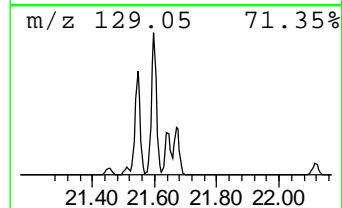
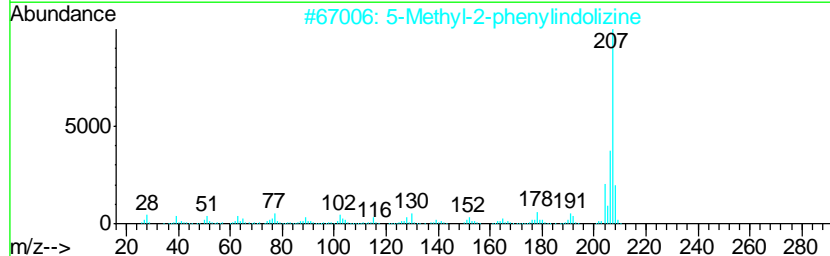
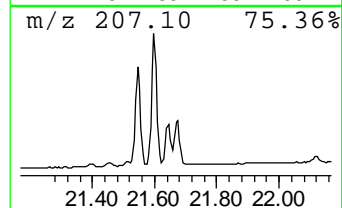
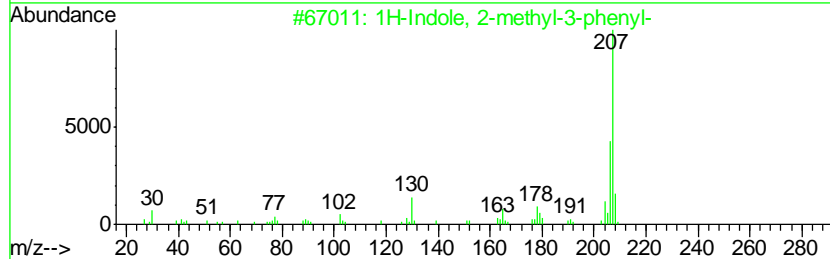
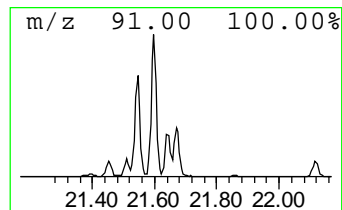
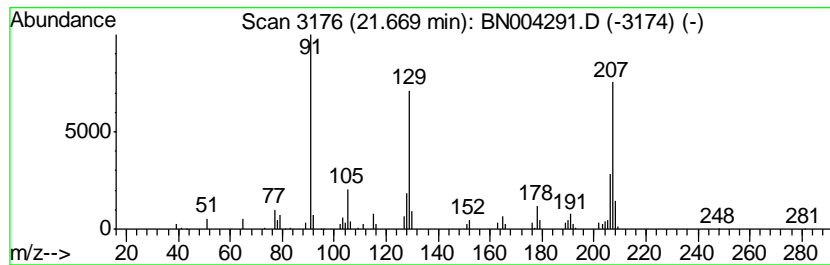
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 8 1H-Indole, 2-methyl-3-phenyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 21.67 | 2.02 ng/ul | 105798 | Chrysene-d12 | 21.39 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1 | 5 | 1H-Indole, 2-methyl-3-phenyl- | 207 | C15H13N | 004757-69-1 | 60 |
| 2 | | 5-Methyl-2-phenylindolizine | 207 | C15H13N | 036944-99-7 | 49 |
| 3 | | Benzo[h]quinoline, 2,4-dimethyl- | 207 | C15H13N | 000605-67-4 | 46 |
| 4 | | 2-Ethylacridine | 207 | C15H13N | 055751-83-2 | 41 |
| 5 | | Benzo[h]quinoline, 2,4-dimethyl- | 207 | C15H13N | 000605-67-4 | 41 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004291.D
 Acq On : 29 Dec 2018 09:07
 Operator : JU/SJ
 Sample : J6428-15
 Misc : GCMS Confirmation
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41W8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 11.7 | ng/ul | 97347 | 1 | 7.82 | 165877 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 2.3 | ng/ul | 62294 | 4 | 17.20 | 536832 | 20.0 |
| 1,1'-Biphenyl, 2,... | 20.10 | 2.8 | ng/ul | 145911 | 5 | 21.39 | 1045880 | 20.0 |
| Methadone N-oxide | 21.65 | 2.1 | ng/ul | 109967 | 5 | 21.39 | 1045880 | 20.0 |
| 1H-Indole, 2-meth... | 21.67 | 2.0 | ng/ul | 105798 | 5 | 21.39 | 1045880 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W8DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-15DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035120.D
 % Solids : 75.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 10.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 440 | U |
| 11104-28-2 | Aroclor-1221 | 440 | U |
| 11141-16-5 | Aroclor-1232 | 440 | U |
| 53469-21-9 | Aroclor-1242 | 440 | U |
| 12672-29-6 | Aroclor-1248 | 1300 | D |
| 11097-69-1 | Aroclor-1254 | 440 | U |
| 11096-82-5 | Aroclor-1260 | 21000 | ED |
| 37324-23-5 | Aroclor-1262 | 440 | U |
| 11100-14-4 | Aroclor-1268 | 440 | U |

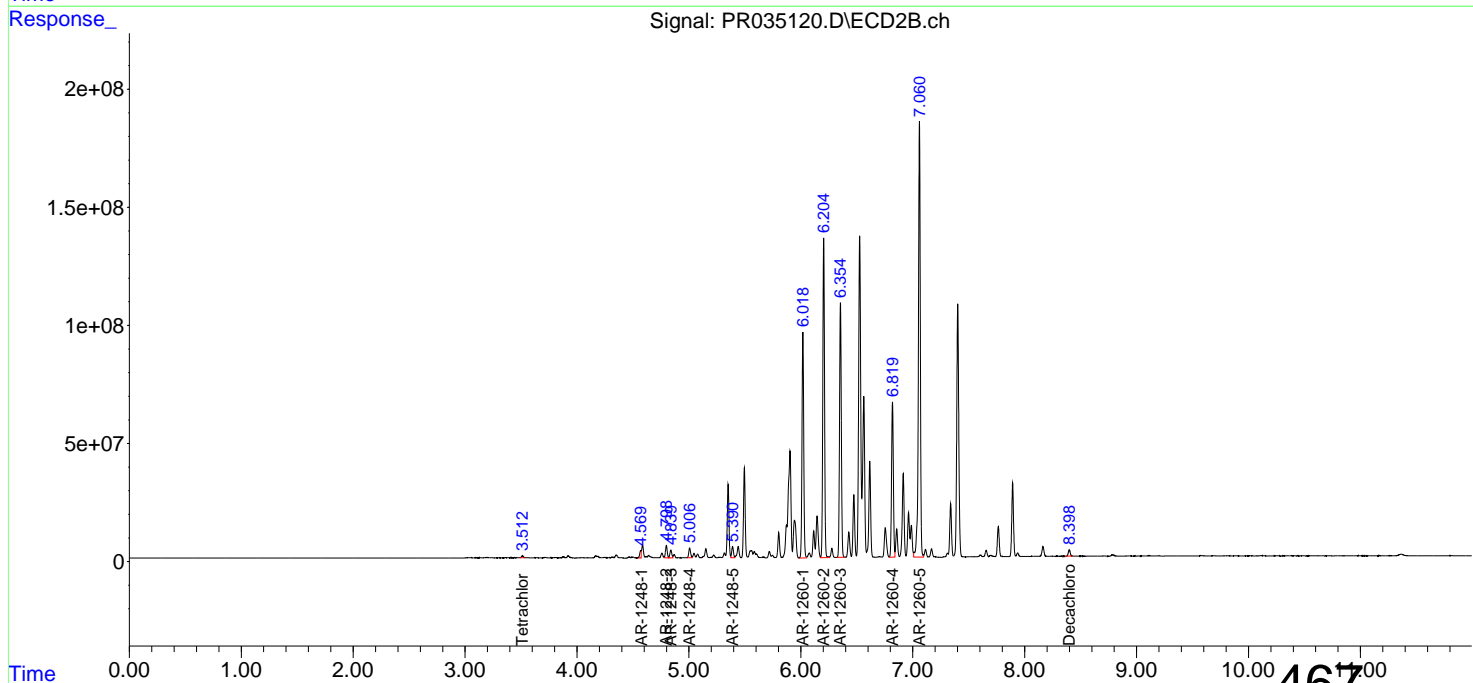
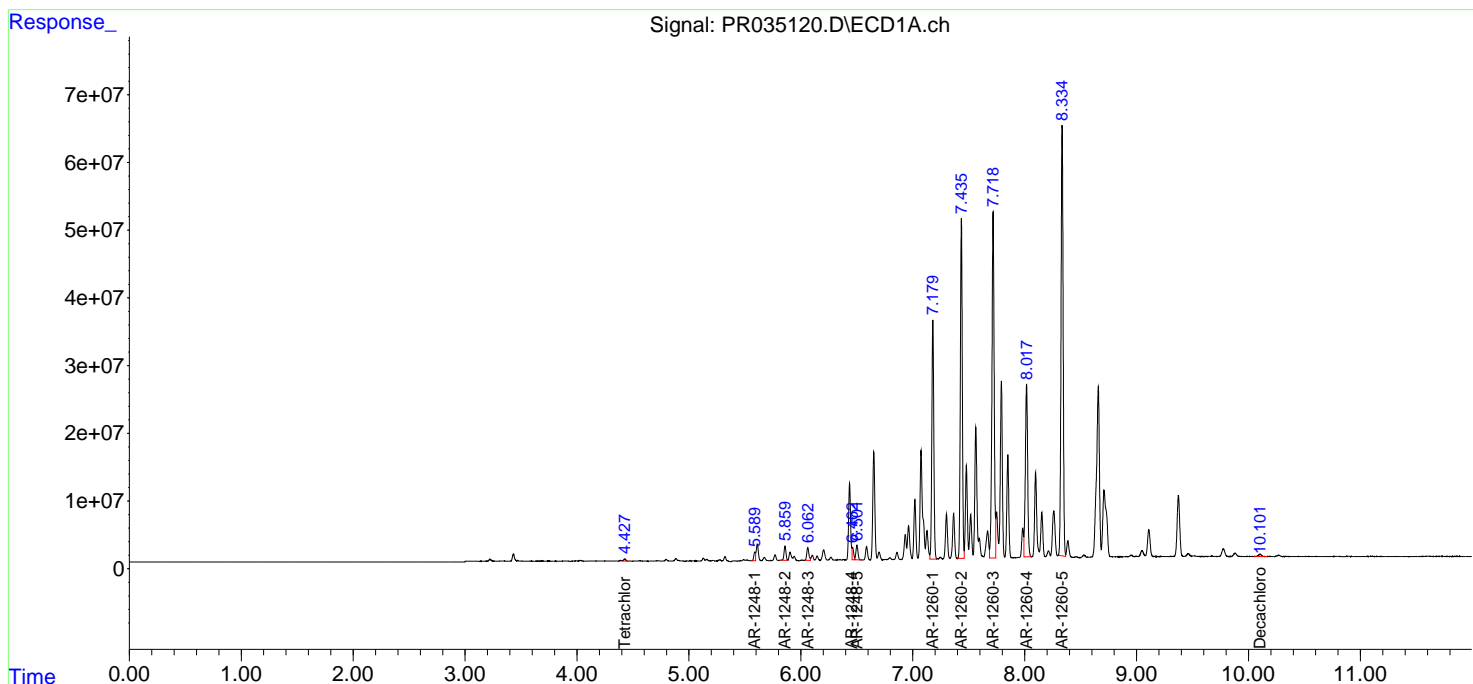
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 Data File : PR035120.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:42
 Operator : SM\SJ
 Sample : J6428-15DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W8DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:08 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035120.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:42
 Operator : SM\SJ
 Sample : J6428-15DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleID :
 A41W8DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:08 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 3915014 | 8606632 | 2.013 | 2.469m |
| 2) SA Decachlor... | 10.102 | 8.399 | 6399778 | 32272815 | 3.255 | 7.340 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.569 | 12998137 | 29008749 | 267.878 | 297.520m |
| 22) L5 AR-1248-2 | 5.859 | 4.798 | 25776653 | 56275928 | 390.121 | 439.304 |
| 23) L5 AR-1248-3 | 6.062 | 4.839 | 24644927 | 38368396 | 329.853 | 290.720 |
| 24) L5 AR-1248-4 | 6.462 | 5.006 | 18073874 | 47751167 | 202.291 | 290.227 # |
| 25) L5 AR-1248-5 | 6.502 | 5.390 | 27768792 | 51017523 | 331.892 | 304.845 |
| 31) L7 AR-1260-1 | 7.180 | 6.018 | 433.4E6 | 1027.9E6 | 4610.734 | 4781.769 |
| 32) L7 AR-1260-2 | 7.435 | 6.204 | 604.6E6 | 1458.0E6 | 5207.639 | 5358.079 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 710.9E6 | 1190.0E6 | 5094.116 | 4793.713 |
| 34) L7 AR-1260-4 | 8.017 | 6.819 | 363.3E6 | 734.9E6 | 4206.363 | 4297.738 |
| 35) L7 AR-1260-5 | 8.335 | 7.060 | 836.3E6 | 2205.9E6 | 4631.898 | 4560.998 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035120.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:42
 Operator : SM\SJ
 Sample : J6428-15DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

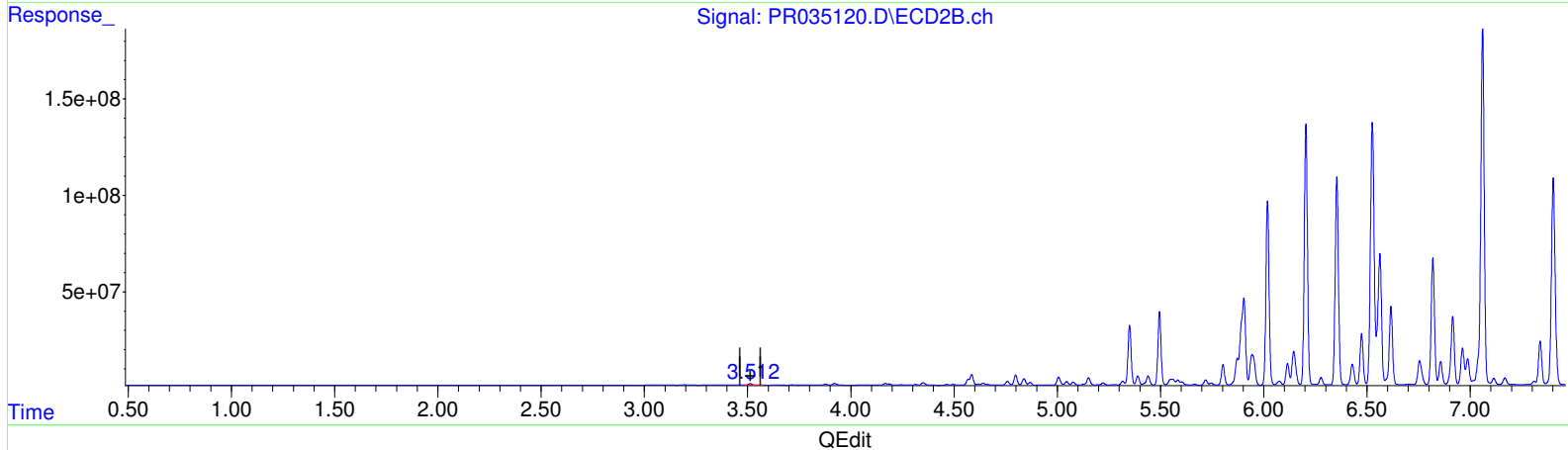
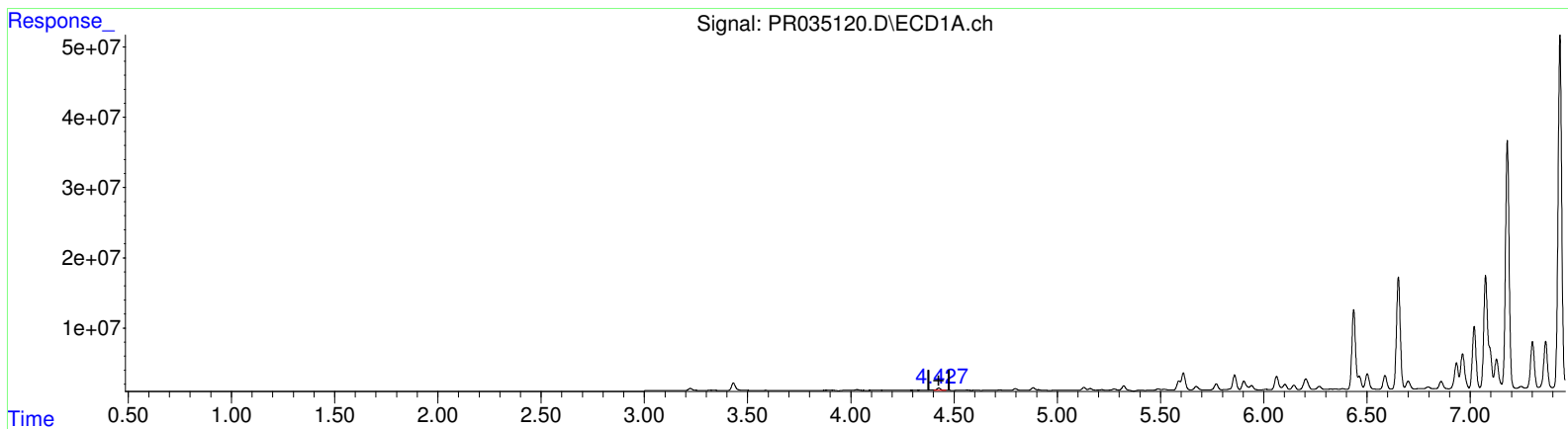
Instrument :
 ECD_R
 ClientSampleID :
 A41W8DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:19:08 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 2.013 ng/ml
 response 3915014

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 2.920 ng/ml
 response 10177746

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035120.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:42
 Operator : SM\SJ
 Sample : J6428-15DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

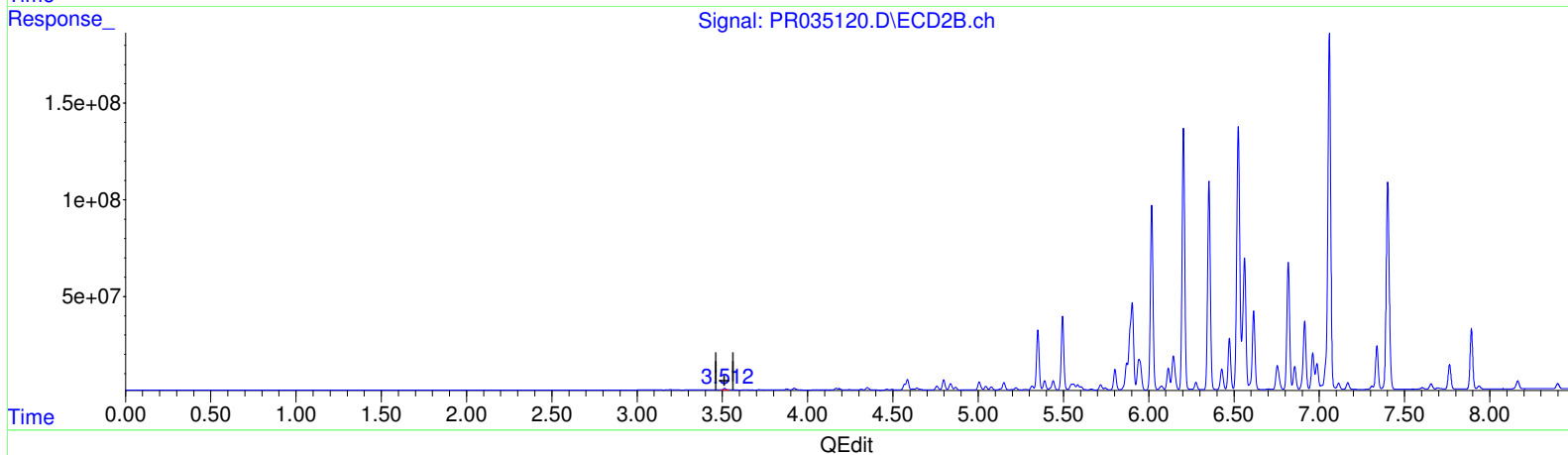
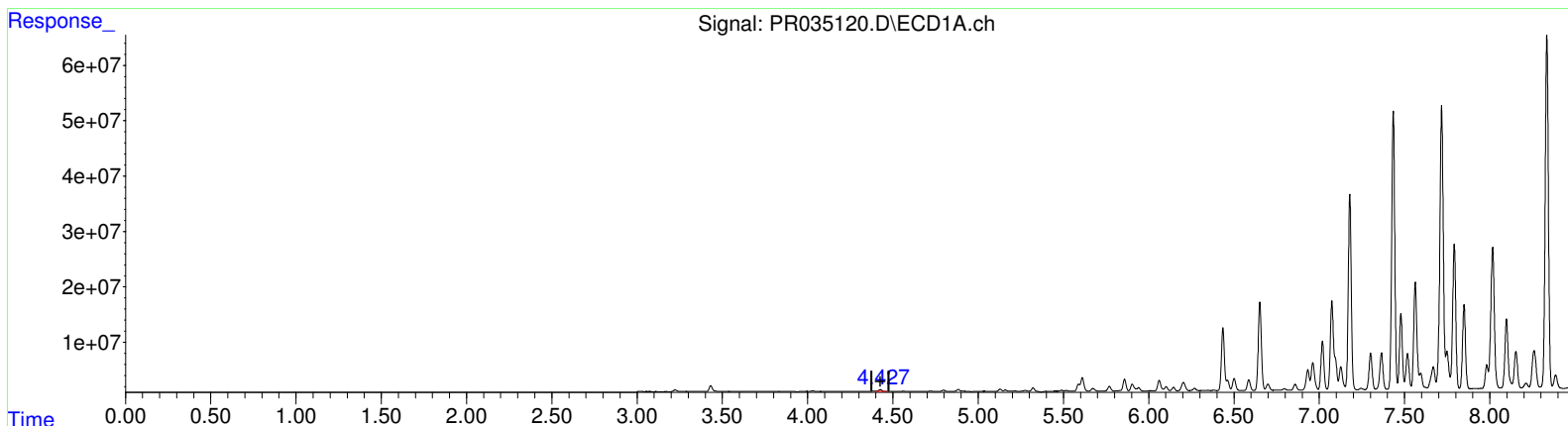
Instrument :
 ECD_R
 Client Sampled :
 A41W8DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:19:08 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 2.013 ng/ml
 response 3915014

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 2.469 ng/ml m
 response 8606632

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035120.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:42
 Operator : SM\SJ
 Sample : J6428-15DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

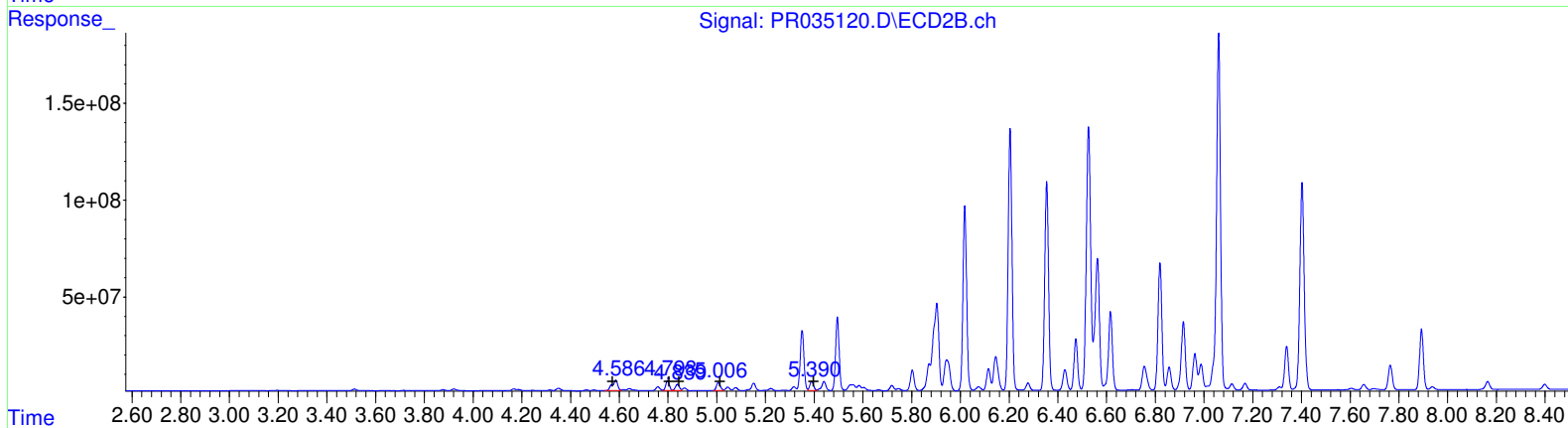
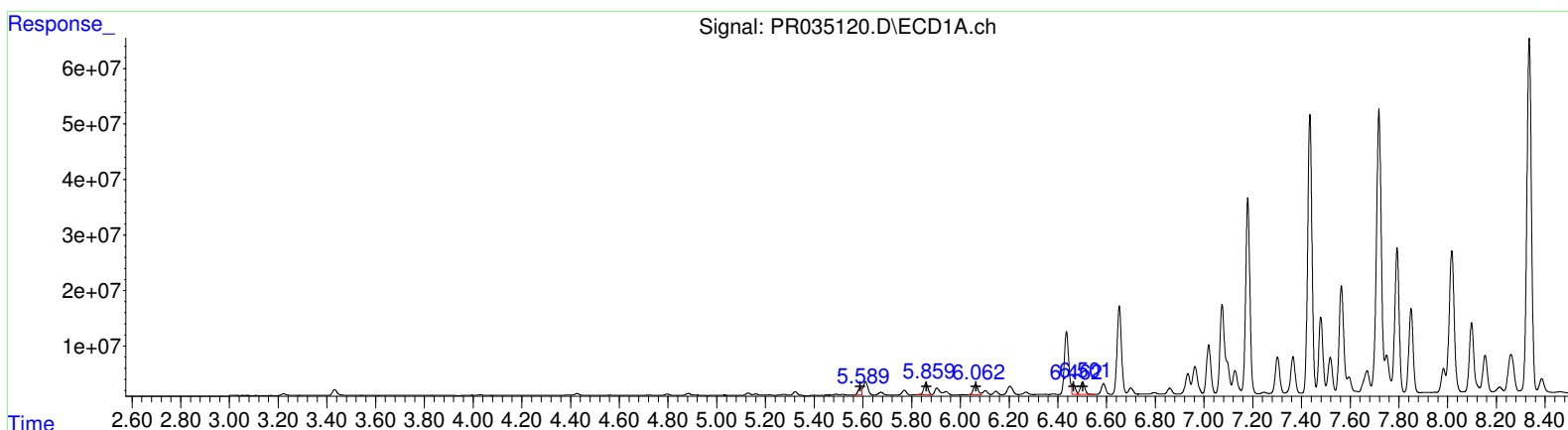
Instrument :
 ECD_R
 ClientSampled :
 A41W8DL

Manual Integrations
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Integration File signal 1: autoint1.e
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 Quant Time: Dec 29 03:20:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
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 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 5.59 | 12998137 | 267.88 |
| 5.86 | 25776653 | 390.12 |
| 6.06 | 24644927 | 329.85 |
| 6.46 | 18073874 | 202.29 |
| 6.50 | 27768792 | 331.89 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 86194299 | 884.03 |
| 4.80 | 56275928 | 439.30 |
| 4.84 | 38368396 | 290.72 |
| 5.01 | 47751167 | 290.23 |
| 5.39 | 51017523 | 304.84 |

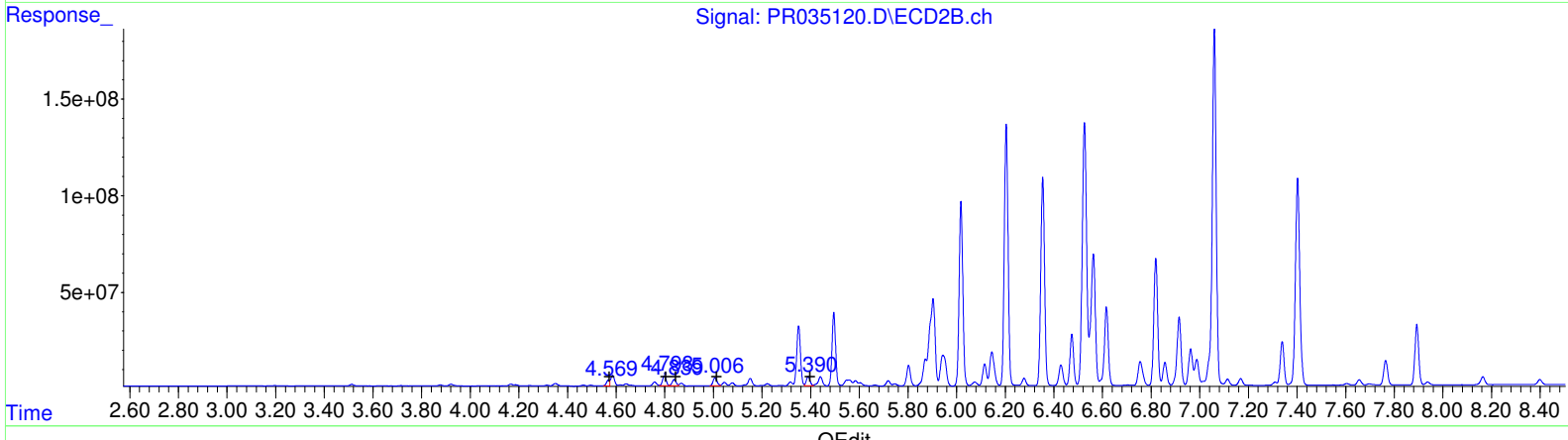
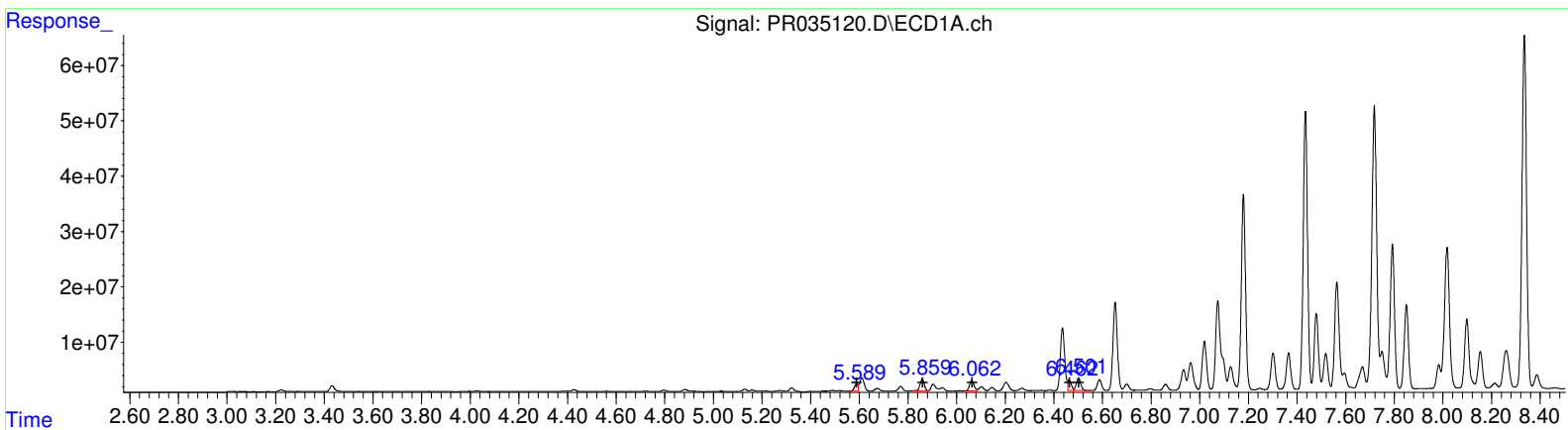
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035120.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:42
 Operator : SM\SJ
 Sample : J6428-15DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W8DL

Manual Integrations
APPROVED
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Integration File signal 1: autoint1.e
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 Quant Time: Dec 29 03:20:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 12998137 | 267.88 |
| 5.86 | 25776653 | 390.12 |
| 6.06 | 24644927 | 329.85 |
| 6.46 | 18073874 | 202.29 |
| 6.50 | 27768792 | 331.89 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 29008749 | 297.52 |
| 4.80 | 56275928 | 439.30 |
| 4.84 | 38368396 | 290.72 |
| 5.01 | 47751167 | 290.23 |
| 5.39 | 51017523 | 304.84 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035120.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:42
 Operator : SM\SJ
 Sample : J6428-15DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W8DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:19:08 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 3915014 | 8606632 | 2.013 | 2.469m |
| 2) SA Decachlor... | 10.102 | 8.399 | 6399778 | 32272815 | 3.255 | 7.340 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.569 | 12998137 | 29008749 | 267.878 | 297.520m |
| 22) L5 AR-1248-2 | 5.859 | 4.798 | 25776653 | 56275928 | 390.121 | 439.304 |
| 23) L5 AR-1248-3 | 6.062 | 4.839 | 24644927 | 38368396 | 329.853 | 290.720 |
| 24) L5 AR-1248-4 | 6.462 | 5.006 | 18073874 | 47751167 | 202.291 | 290.227 # |
| 25) L5 AR-1248-5 | 6.502 | 5.390 | 27768792 | 51017523 | 331.892 | 304.845 |
| 31) L7 AR-1260-1 | 7.180 | 6.018 | 433.4E6 | 1027.9E6 | 4610.734 | 4781.769 |
| 32) L7 AR-1260-2 | 7.435 | 6.204 | 604.6E6 | 1458.0E6 | 5207.639 | 5358.079 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 710.9E6 | 1190.0E6 | 5094.116 | 4793.713 |
| 34) L7 AR-1260-4 | 8.017 | 6.819 | 363.3E6 | 734.9E6 | 4206.363 | 4297.738 |
| 35) L7 AR-1260-5 | 8.335 | 7.060 | 836.3E6 | 2205.9E6 | 4631.898 | 4560.998 |

} SS
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W8DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-15DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035121.D
 % Solids : 75.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 50.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 2200 | U |
| 11104-28-2 | Aroclor-1221 | 2200 | U |
| 11141-16-5 | Aroclor-1232 | 2200 | U |
| 53469-21-9 | Aroclor-1242 | 2200 | U |
| 12672-29-6 | Aroclor-1248 | 2100 | JD |
| 11097-69-1 | Aroclor-1254 | 2200 | U |
| 11096-82-5 | Aroclor-1260 | 31000 | D |
| 37324-23-5 | Aroclor-1262 | 2200 | U |
| 11100-14-4 | Aroclor-1268 | 2200 | U |

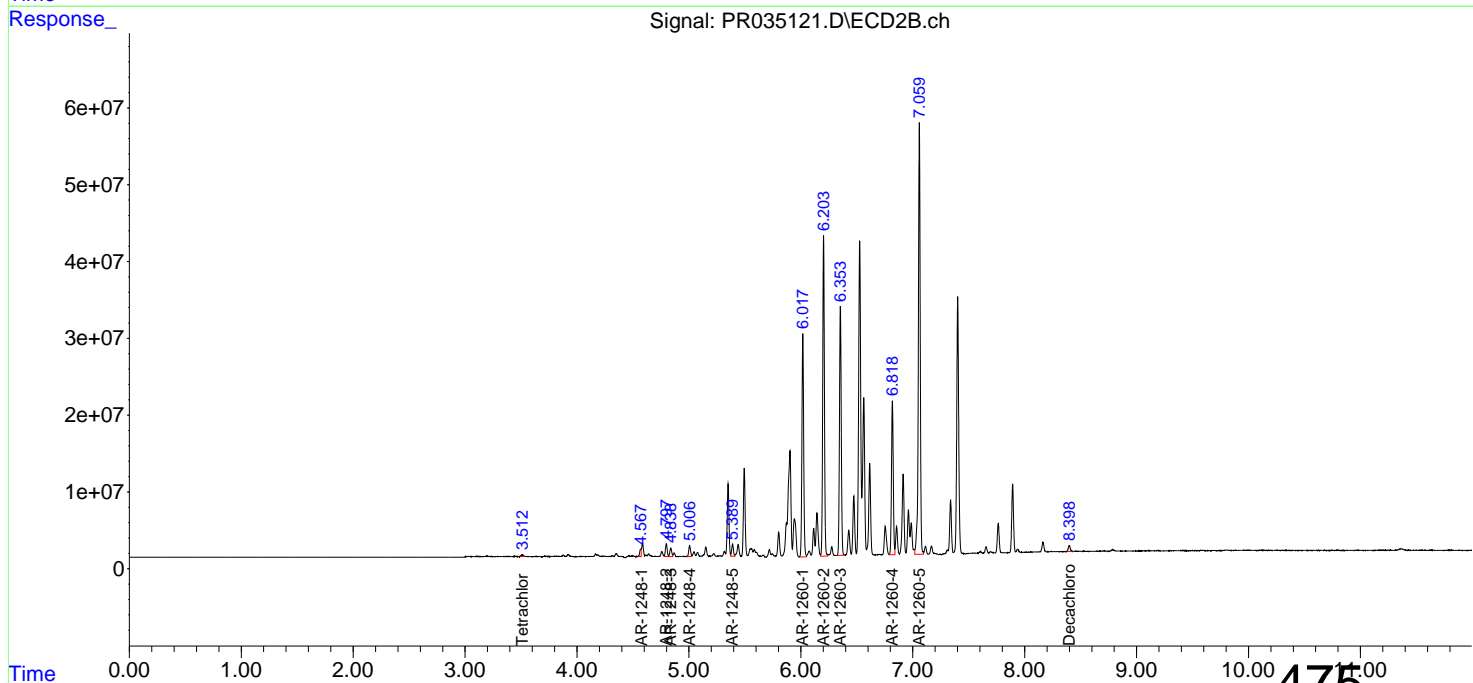
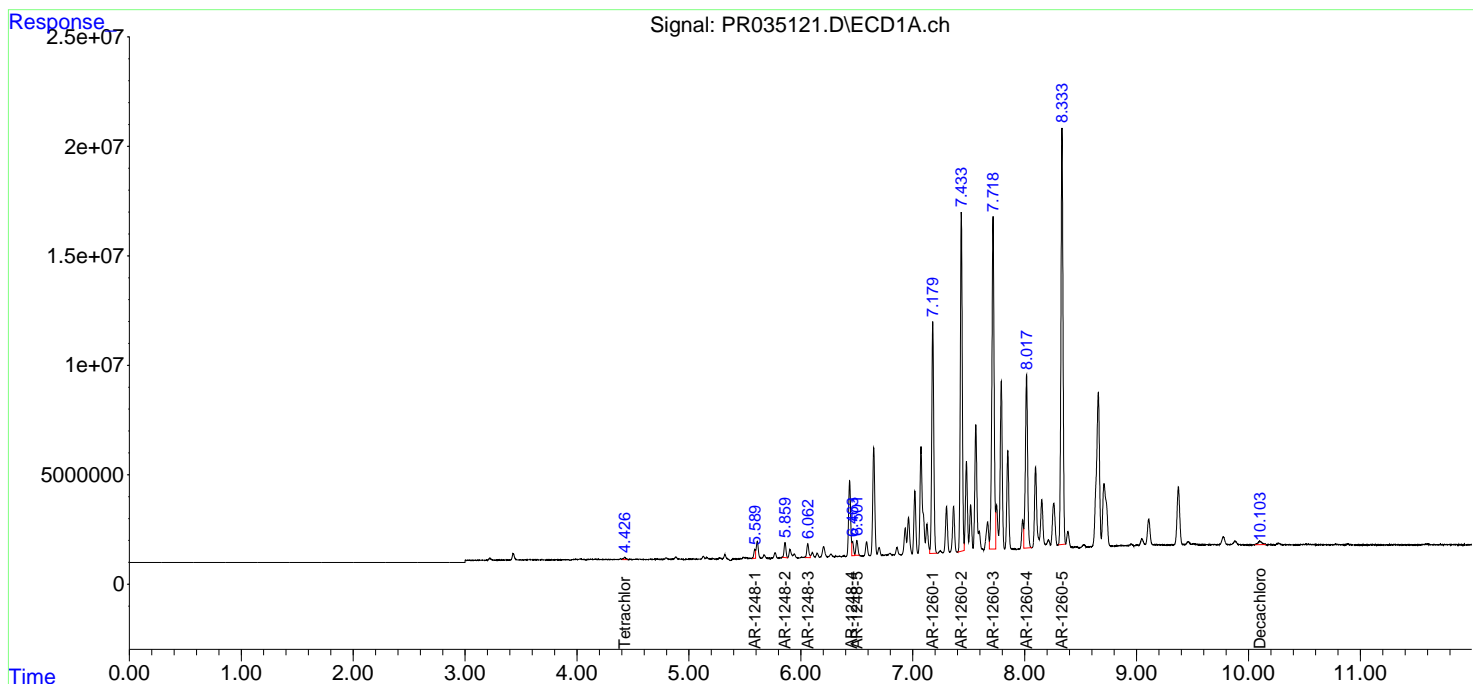
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 Data File : PR035121.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:57
 Operator : SM\SJ
 Sample : J6428-15DL2 50X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W8DL2

Manual Integrations
APPROVED
 Sohil
 1/3/2019 11:11:56 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 03 10:50:20 2019
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035121.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:57
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Manual Integrations
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Integration File signal 1: autoint1.e
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 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|---------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 1303697 | 2672614 | 0.670m | 0.767m |
| 2) SA Decachlor... | 10.103 | 8.398 | 3715025 | 9502158 | 1.890m | 2.161m |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.567 | 4031934 | 8525919 | 83.094m | 87.444m |
| 22) L5 AR-1248-2 | 5.859 | 4.798 | 7940386 | 18404923 | 120.175m | 143.674 |
| 23) L5 AR-1248-3 | 6.062 | 4.838 | 7925730 | 13152094 | 106.080m | 99.654 |
| 24) L5 AR-1248-4 | 6.463 | 5.006 | 6458518 | 16291365 | 72.287m | 99.017m# |
| 25) L5 AR-1248-5 | 6.501 | 5.390 | 8144731 | 17362046 | 97.346m | 103.743 |
| 31) L7 AR-1260-1 | 7.179 | 6.018 | 132.4E6 | 316.6E6 | 1408.145 | 1472.570 |
| 32) L7 AR-1260-2 | 7.434 | 6.203 | 185.7E6 | 441.2E6 | 1599.309 | 1621.404 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 212.4E6 | 358.0E6 | 1521.685 | 1442.087 |
| 34) L7 AR-1260-4 | 8.017 | 6.818 | 109.2E6 | 219.4E6 | 1264.273 | 1282.827 |
| 35) L7 AR-1260-5 | 8.334 | 7.059 | 243.9E6 | 654.2E6 | 1350.679 | 1352.734 |

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

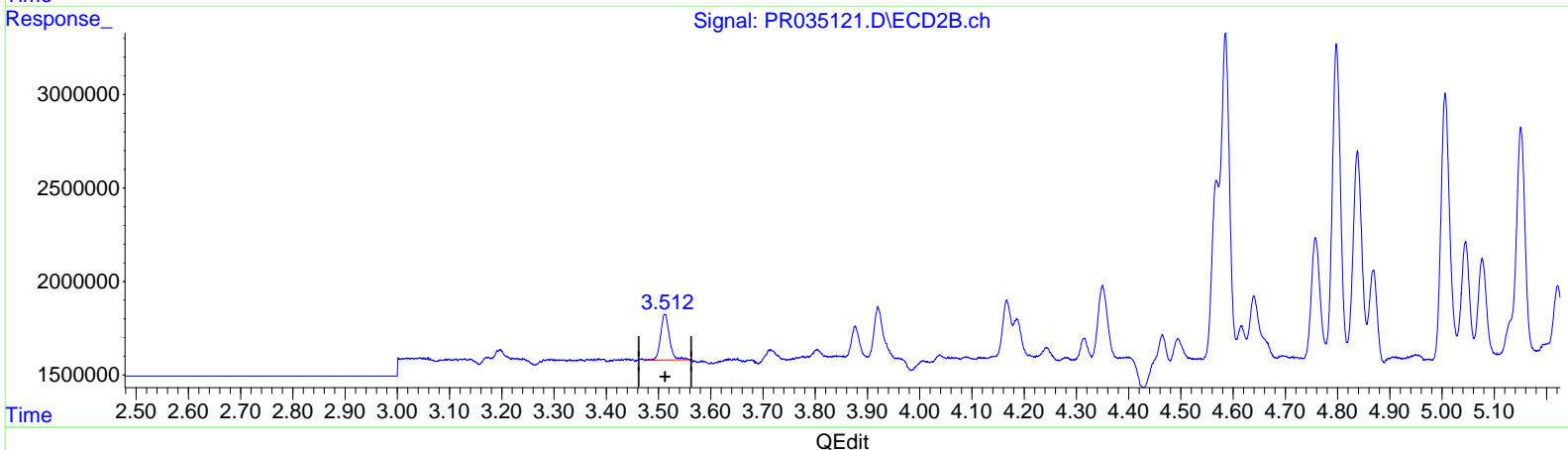
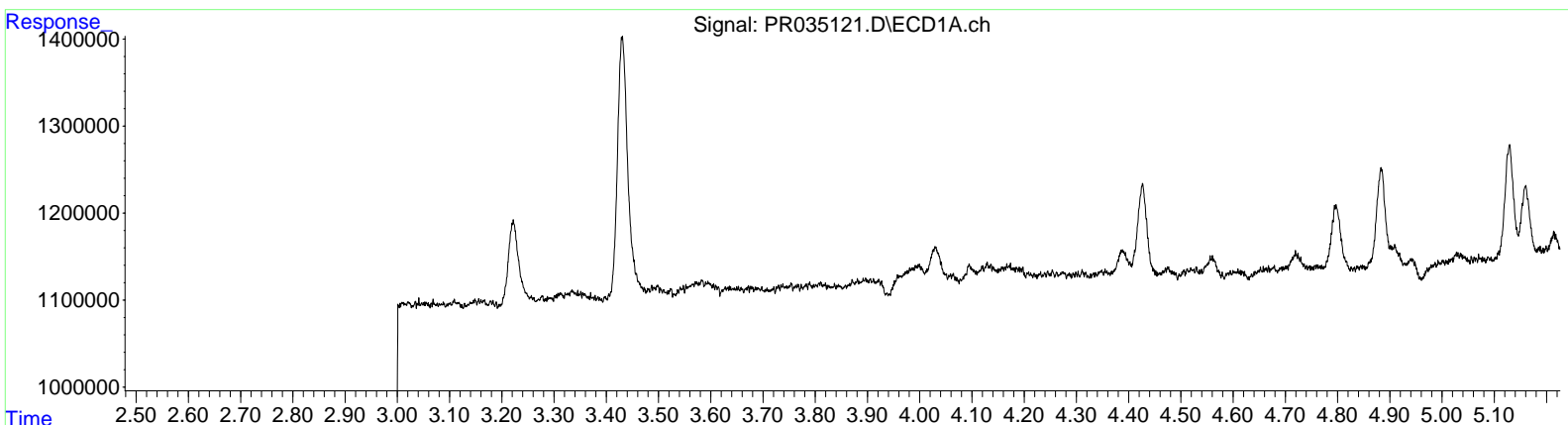
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
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 Acq On : 28 Dec 2018 22:57
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 Sample : J6428-15DL2 50X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W8DL2

Manual Integrations
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 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 0.000min 0.000 ng/ml
 response 0

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 0.829 ng/ml
 response 2891193

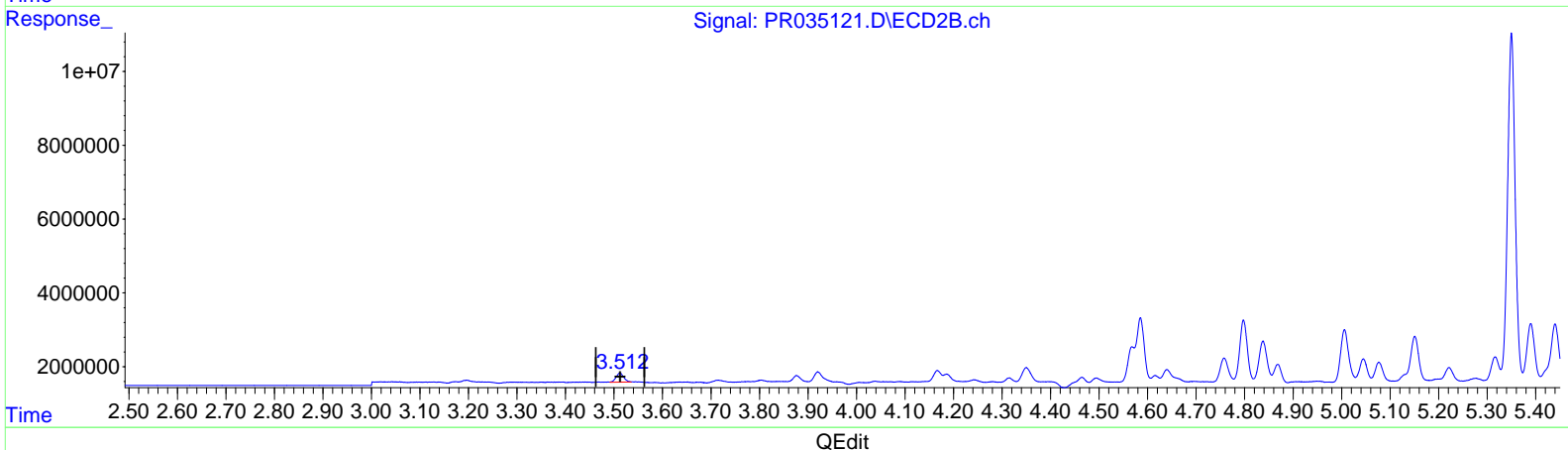
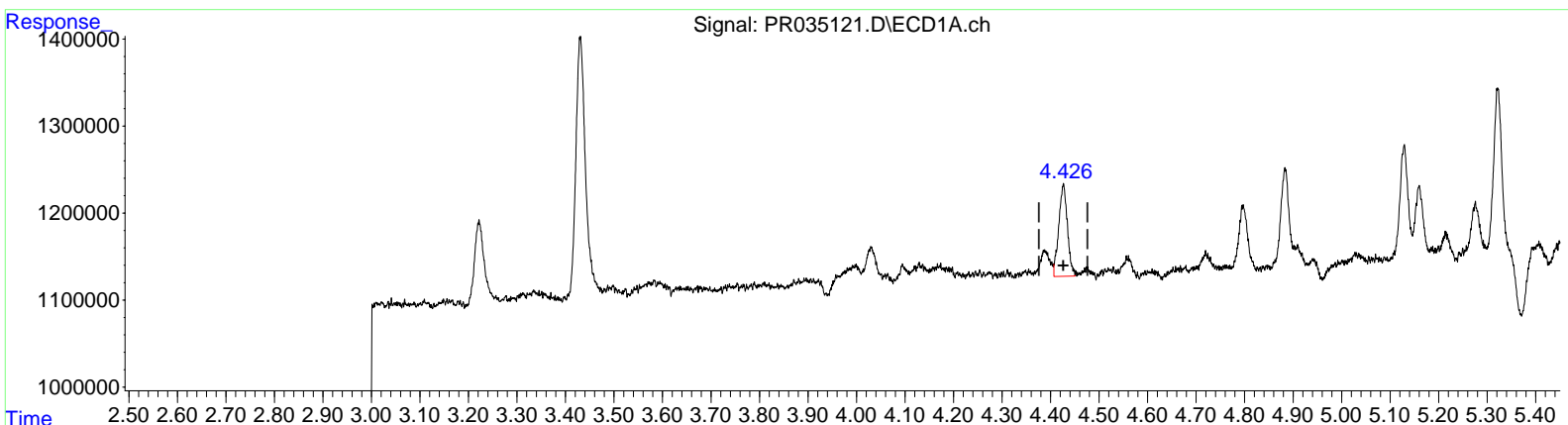
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Instrument :
 ECD_R
ClientSampled :
 A41W8DL2

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 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 0.670 ng/ml m
 response 1303697

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 0.767 ng/ml m
 response 2672614

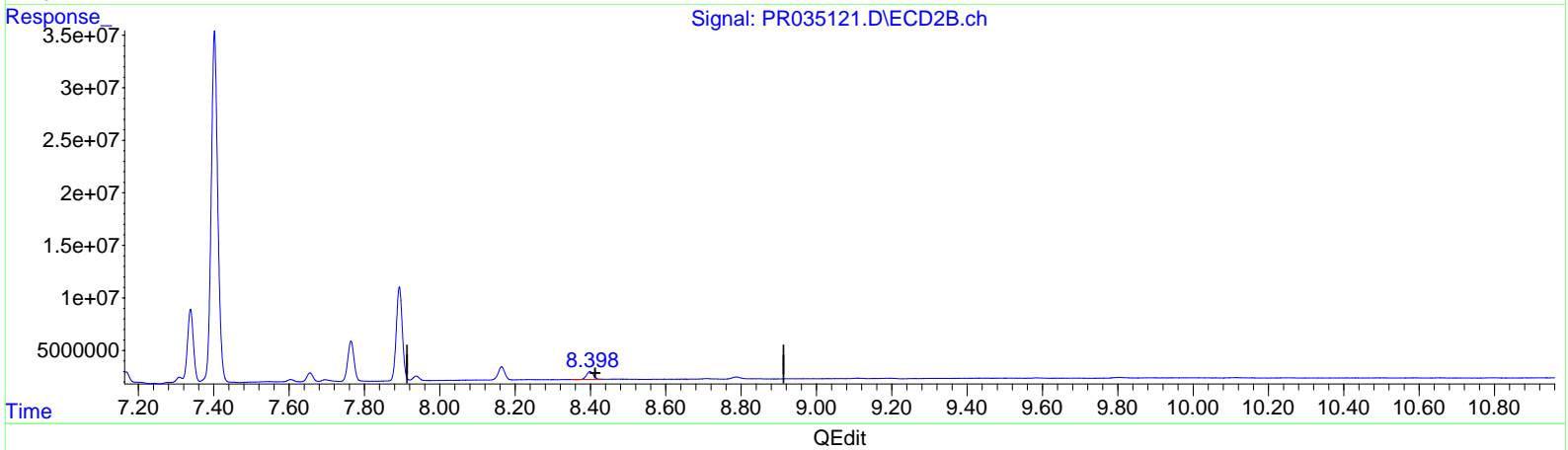
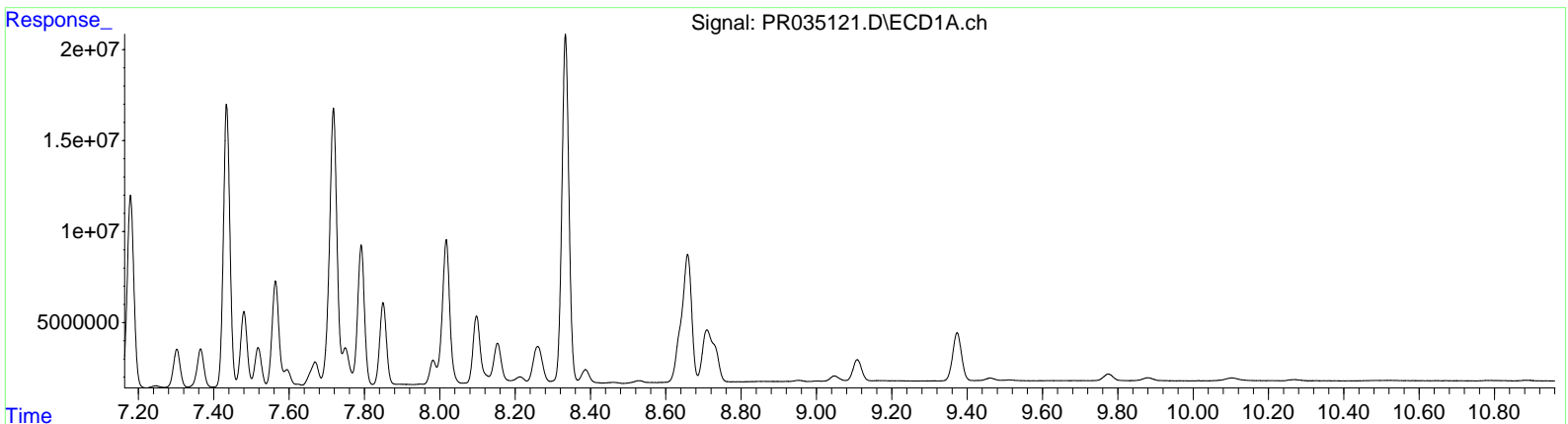
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 Data File : PR035121.D
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 Acq On : 28 Dec 2018 22:57
 Operator : SM\SJ
 Sample : J6428-15DL2 50X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W8DL2

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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
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 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 0.000min 0.000 ng/ml
 response 0

(2) Decachlorobiphenyl #2 (SA)
 8.399min 2.135 ng/ml
 response 9387205

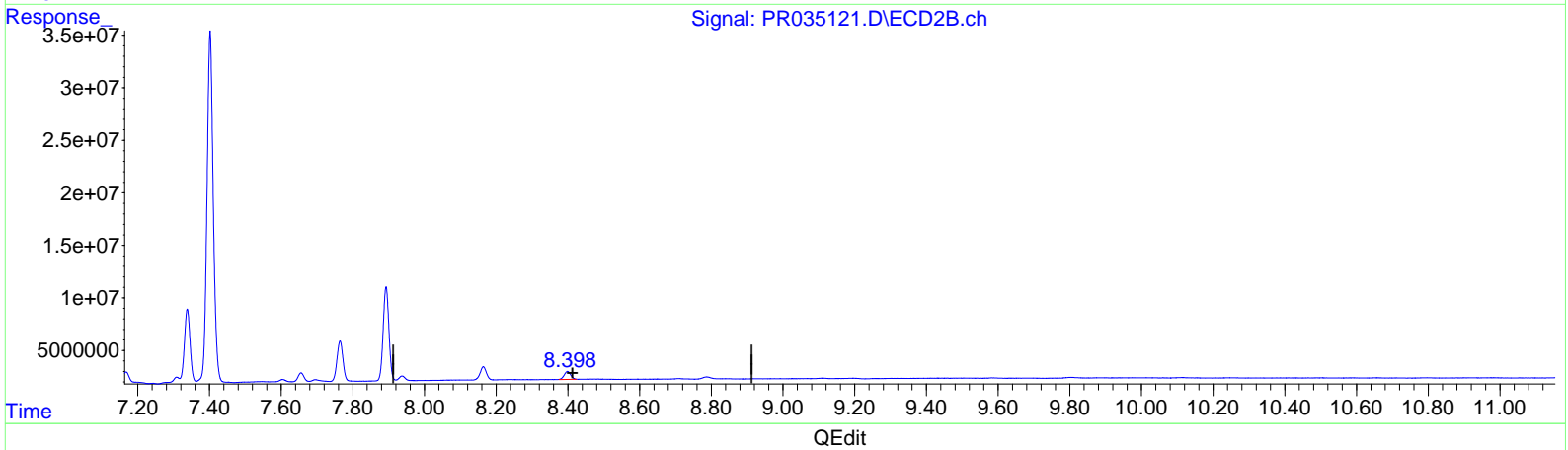
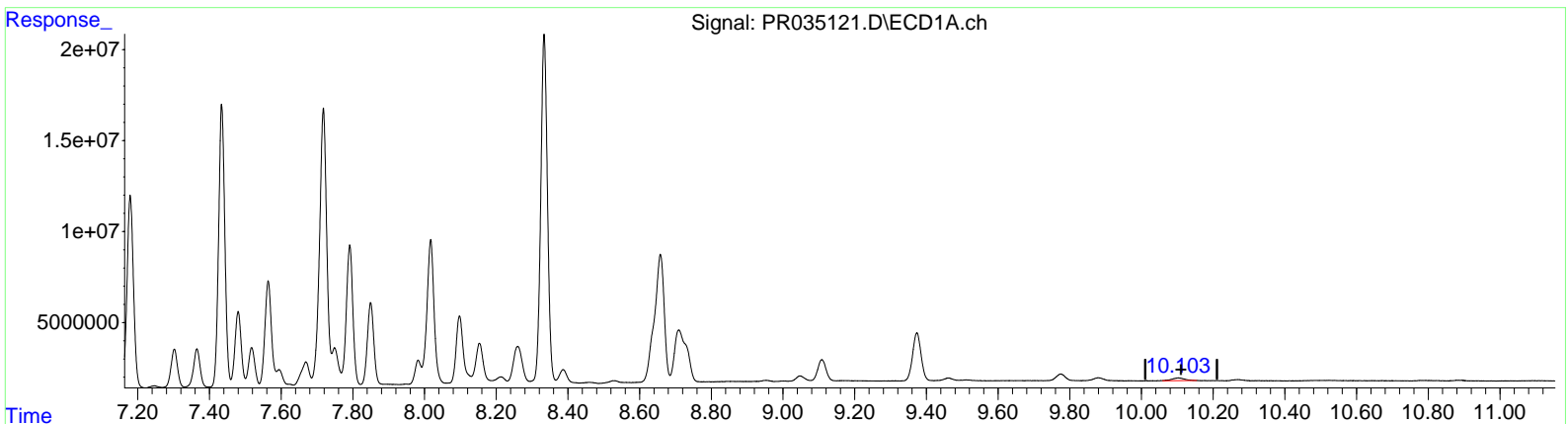
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035121.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:57
 Operator : SM\SJ
 Sample : J6428-15DL2 50X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W8DL2

Manual Integrations
APPROVED
 Sohil
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.103min 1.890 ng/ml m
 response 3715025

(2) Decachlorobiphenyl #2 (SA)
 8.398min 2.161 ng/ml m
 response 9502158

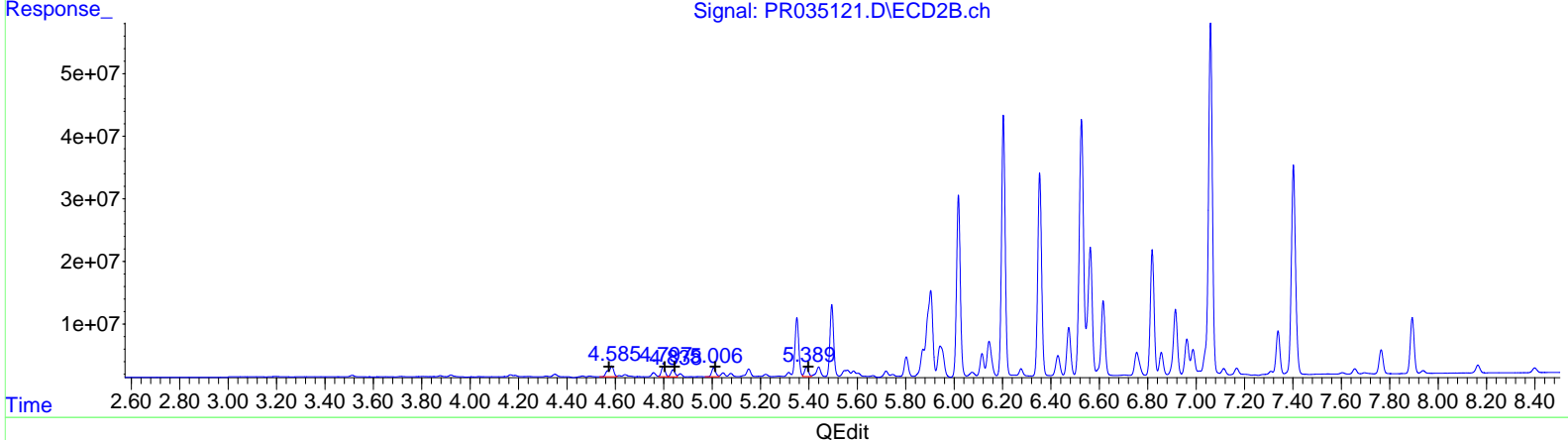
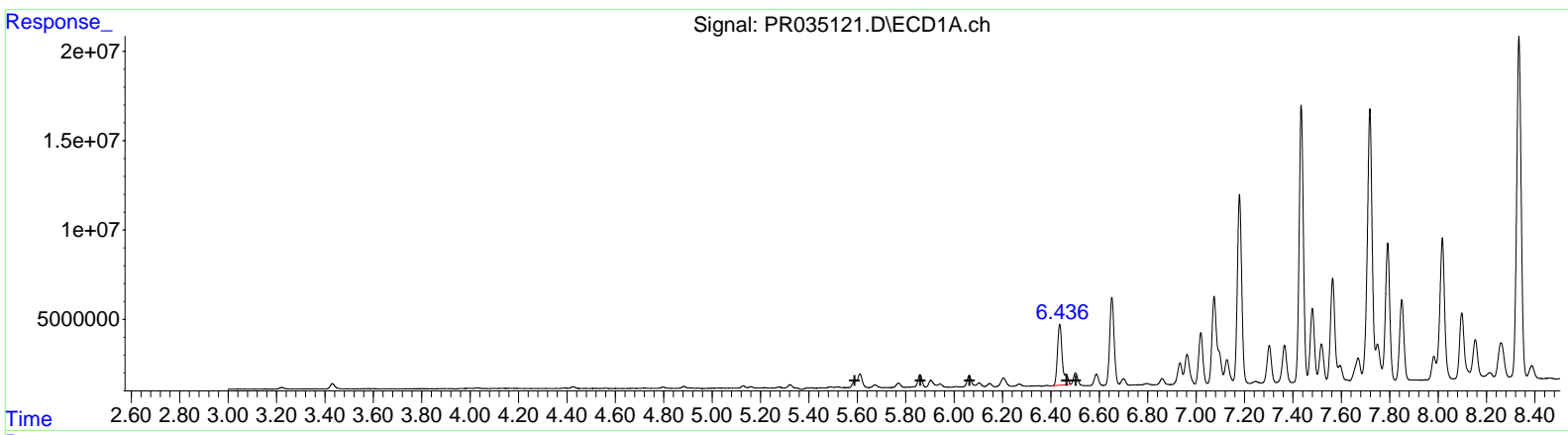
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035121.D
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 Acq On : 28 Dec 2018 22:57
 Operator : SM\SJ
 Sample : J6428-15DL2 50X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W8DL2

Manual Integrations
APPROVED
 Sohil
 1/3/2019 11:11:56 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 03 10:50:20 2019
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 0.00 | 0 | 0.00 |
| 0.00 | 0 | 0.00 |
| 0.00 | 0 | 0.00 |
| 6.44 | 48887466 | 547.17 |
| 6.44 | 48887466 | 584.30 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 27724687 | 284.35 |
| 4.80 | 18404923 | 143.67 |
| 4.84 | 13152094 | 99.65 |
| 5.01 | 16397449 | 99.66 |
| 5.39 | 17362046 | 103.74 |

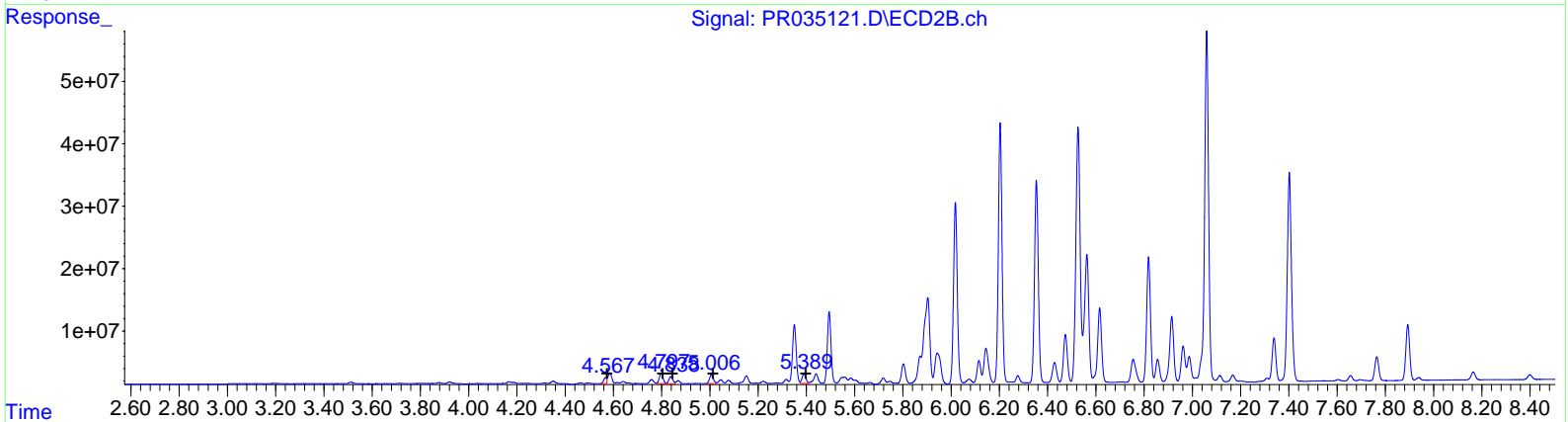
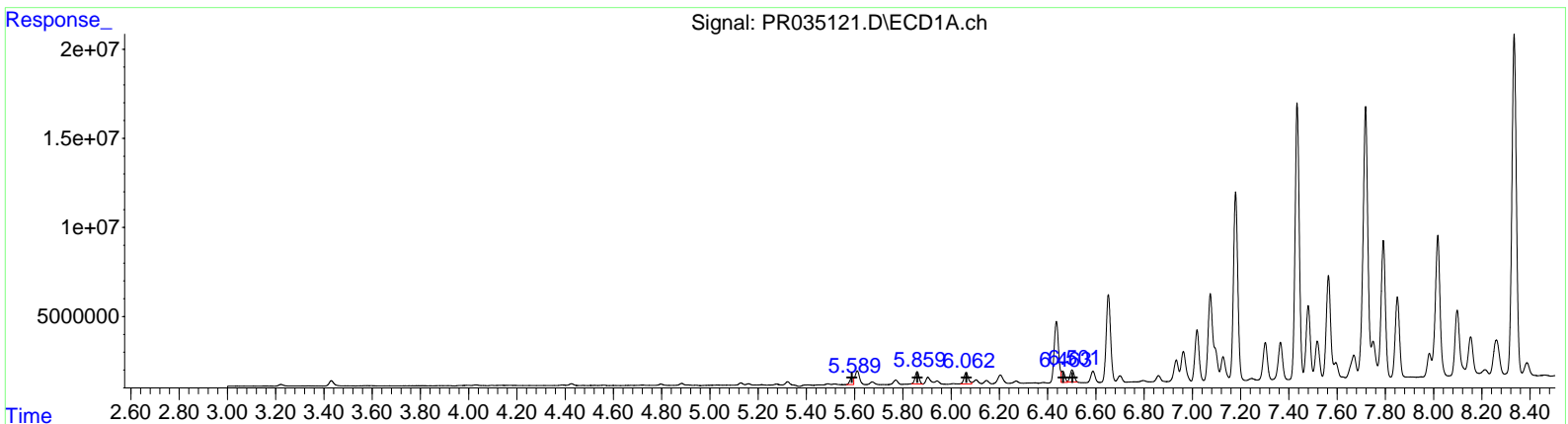
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035121.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:57
 Operator : SM\SJ
 Sample : J6428-15DL2 50X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W8DL2

Manual Integrations
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 Sohil
 1/3/2019 11:11:56 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 03 10:50:20 2019
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 5.59 | 4031934 | 83.09 |
| 5.86 | 7940386 | 120.18 |
| 6.06 | 7925730 | 106.08 |
| 6.46 | 6458518 | 72.29 |
| 6.50 | 8144731 | 97.35 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.57 | 8525919 | 87.44 |
| 4.80 | 18404923 | 143.67 |
| 4.84 | 13152094 | 99.65 |
| 5.01 | 16291365 | 99.02 |
| 5.39 | 17362046 | 103.74 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035121.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 22:57
 Operator : SM\SJ
 Sample : J6428-15DL2 50X
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W8DL2

Manual Integrations
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Sohil
 1/3/2019 11:11:56 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Jan 03 10:50:20 2019
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|---------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 1303697 | 2672614 | 0.670m | 0.767m |
| 2) SA Decachlor... | 10.103 | 8.398 | 3715025 | 9502158 | 1.890m | 2.161m |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.567 | 4031934 | 8525919 | 83.094m | 87.444m |
| 22) L5 AR-1248-2 | 5.859 | 4.798 | 7940386 | 18404923 | 120.175m | 143.674 |
| 23) L5 AR-1248-3 | 6.062 | 4.838 | 7925730 | 13152094 | 106.080m | 99.654 |
| 24) L5 AR-1248-4 | 6.463 | 5.006 | 6458518 | 16291365 | 72.287m | 99.017m# |
| 25) L5 AR-1248-5 | 6.501 | 5.390 | 8144731 | 17362046 | 97.346m | 103.743 |
| 31) L7 AR-1260-1 | 7.179 | 6.018 | 132.4E6 | 316.6E6 | 1408.145 | 1472.570 |
| 32) L7 AR-1260-2 | 7.434 | 6.203 | 185.7E6 | 441.2E6 | 1599.309 | 1621.404 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 212.4E6 | 358.0E6 | 1521.685 | 1442.087 |
| 34) L7 AR-1260-4 | 8.017 | 6.818 | 109.2E6 | 219.4E6 | 1264.273 | 1282.827 |
| 35) L7 AR-1260-5 | 8.334 | 7.059 | 243.9E6 | 654.2E6 | 1350.679 | 1352.734 |

SJ
 1/3/19

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W9

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-16
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035062.D
 % Solids : 88 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 37 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 260 | |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 1800 | E |
| 37324-23-5 | Aroclor-1262 | 37 | U |
| 11100-14-4 | Aroclor-1268 | 37 | U |

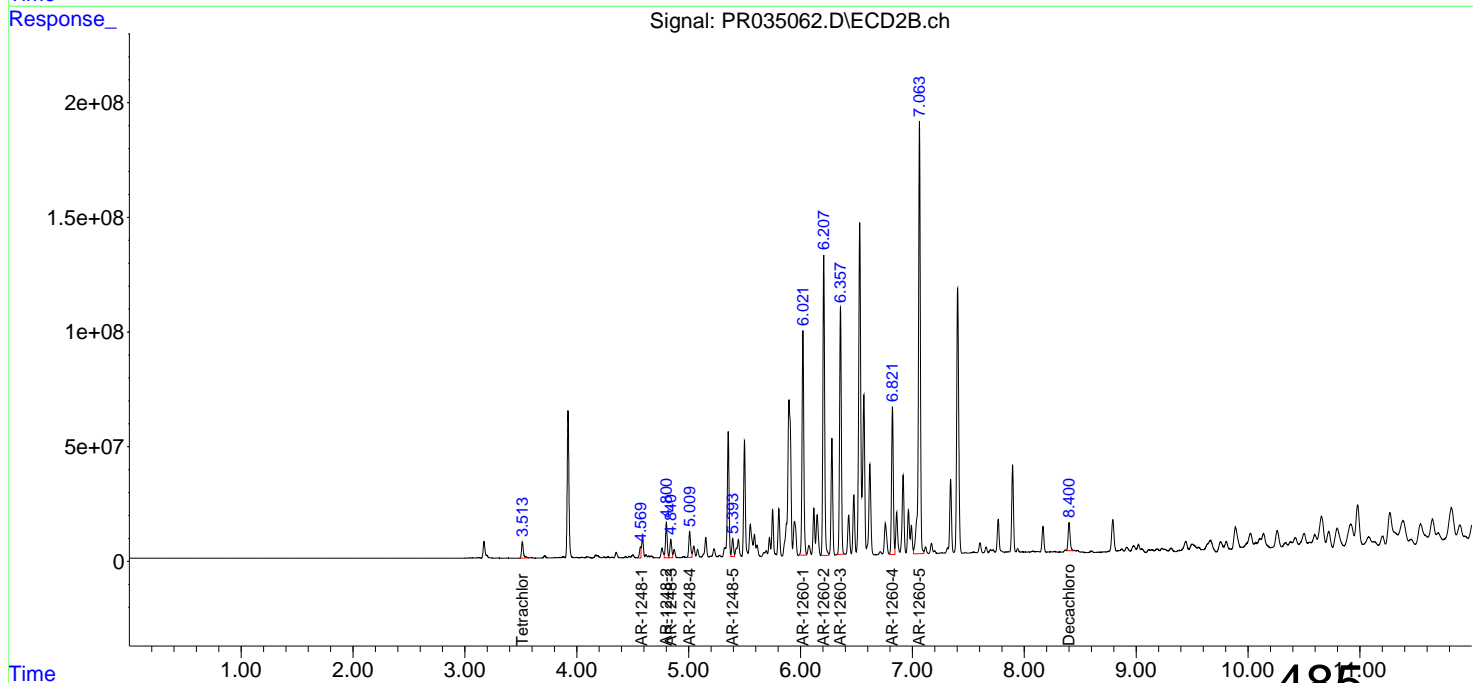
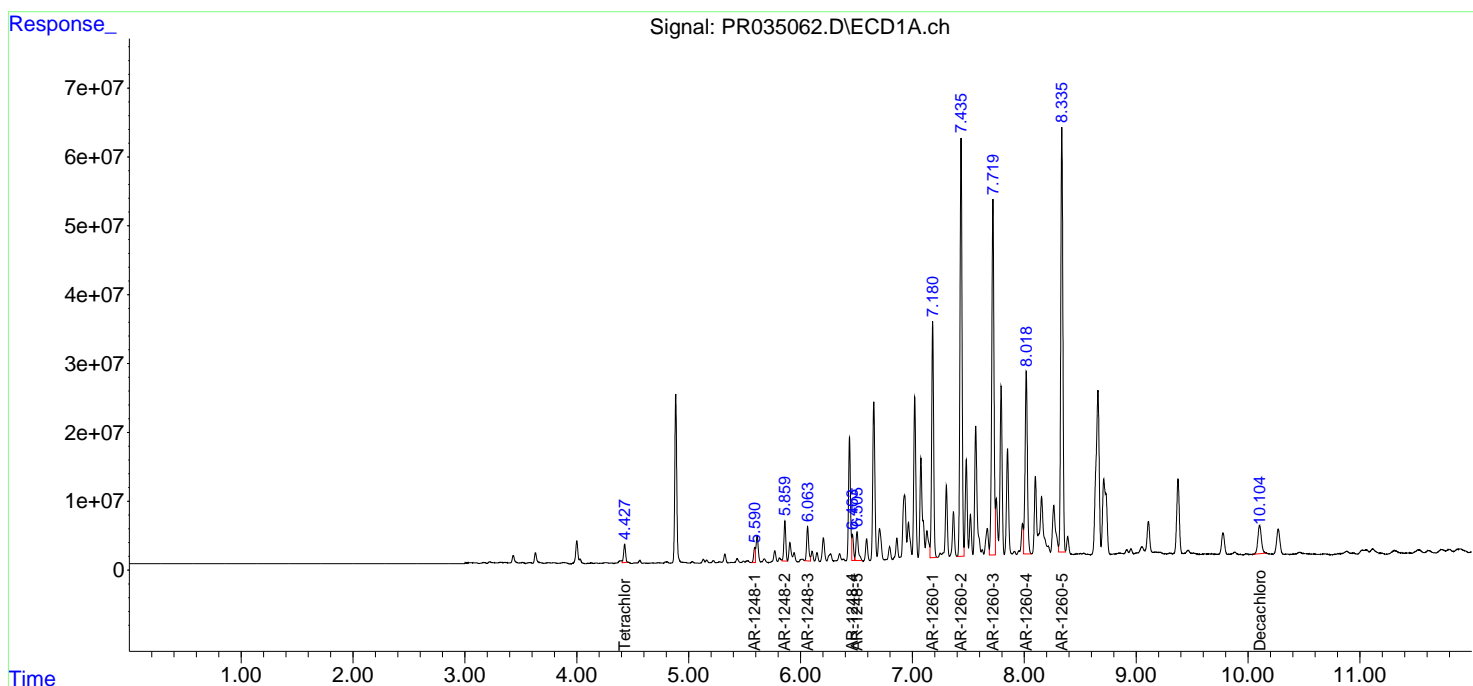
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W9

Manual Integrations
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 Sohil
 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 32187512 | 83931639 | 16.549 | 24.077 # |
| 2) SA Decachlor... | 10.103 | 8.400 | 90533696 | 149.2E6 | 46.052 | 33.943m# |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 21918337 | 46854842 | 451.714 | 480.554m |
| 22) L5 AR-1248-2 | 5.859 | 4.801 | 67107935 | 162.8E6 | 1015.656m | 1270.839 # |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 63163978 | 91852009 | 845.400 | 695.969 |
| 24) L5 AR-1248-4 | 6.464 | 5.009 | 38710658 | 128.7E6 | 433.267 | 782.407 # |
| 25) L5 AR-1248-5 | 6.505 | 5.393 | 61479652 | 84952503 | 734.803 | 507.616 # |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 422.5E6 | 1081.6E6 | 4494.708 | 5031.495 |
| 32) L7 AR-1260-2 | 7.435 | 6.207 | 781.3E6 | 1431.7E6 | 6729.372 | 5261.347 |
| 33) L7 AR-1260-3 | 7.720 | 6.357 | 717.9E6 | 1174.0E6 | 5144.199 | 4729.528 |
| 34) L7 AR-1260-4 | 8.018 | 6.822 | 381.6E6 | 702.3E6 | 4418.493m | 4107.063 |
| 35) L7 AR-1260-5 | 8.335 | 7.063 | 818.7E6 | 2257.7E6 | 4534.225m | 4668.052 |

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

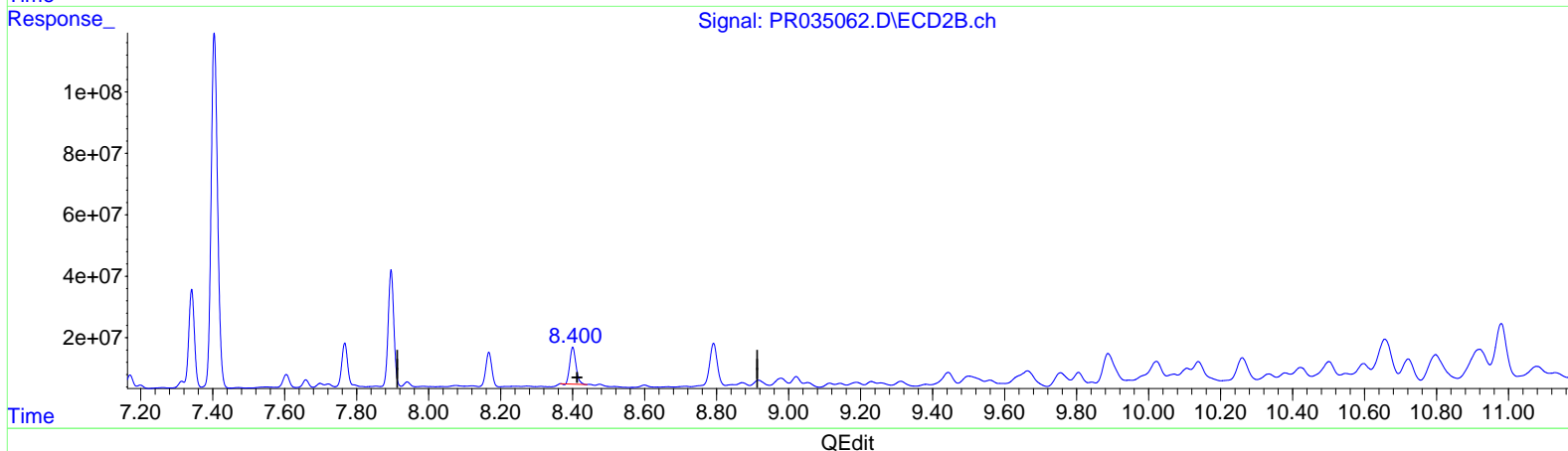
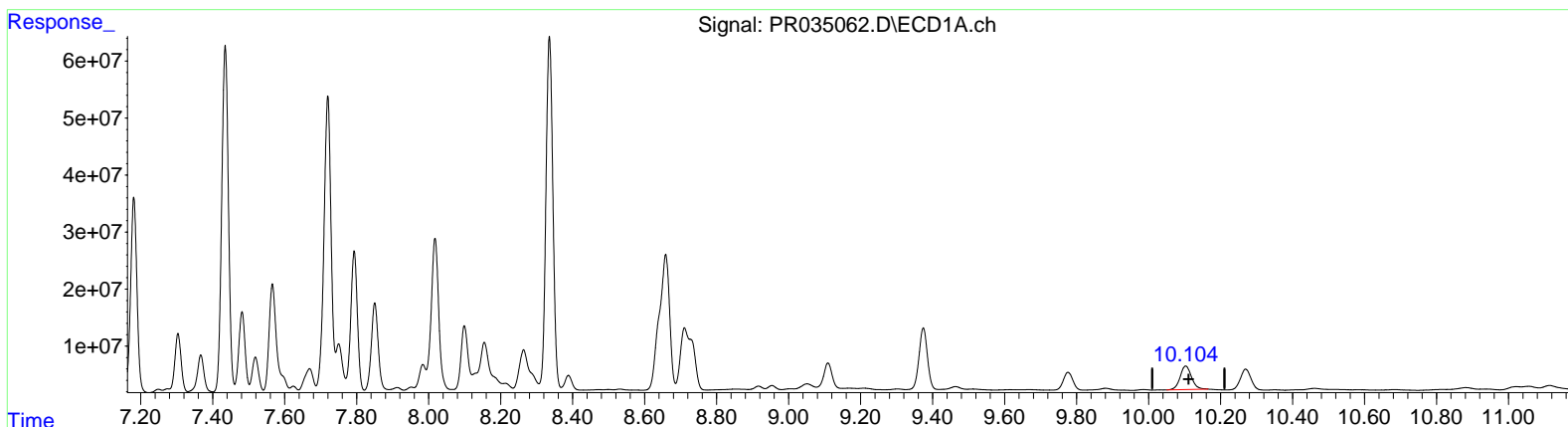
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W9

Manual Integrations
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 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.103min 46.052 ng/ml
 response 90533696

(2) Decachlorobiphenyl #2 (SA)
 8.400min 32.232 ng/ml
 response 141714018

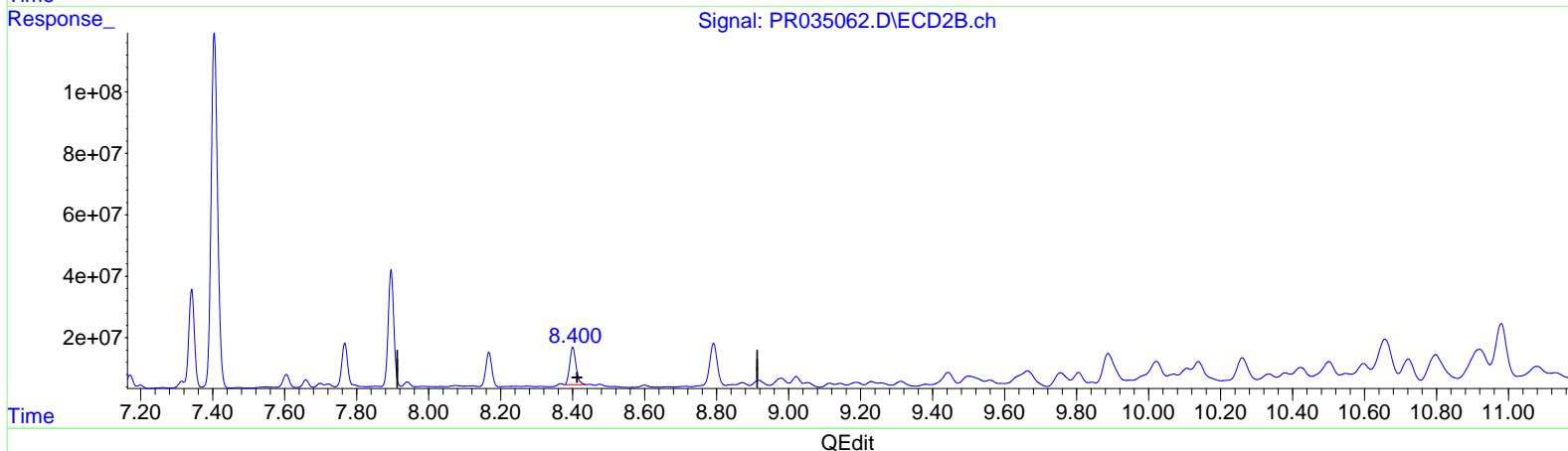
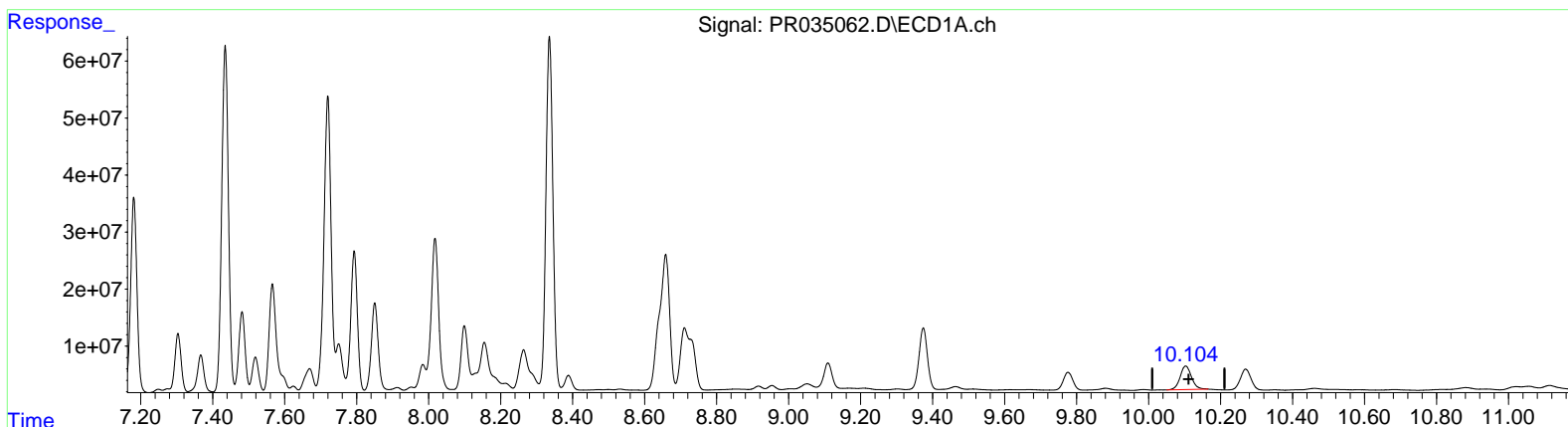
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 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.103min 46.052 ng/ml
 response 90533696

(2) Decachlorobiphenyl #2 (SA)
 8.400min 33.943 ng/ml m
 response 149234865

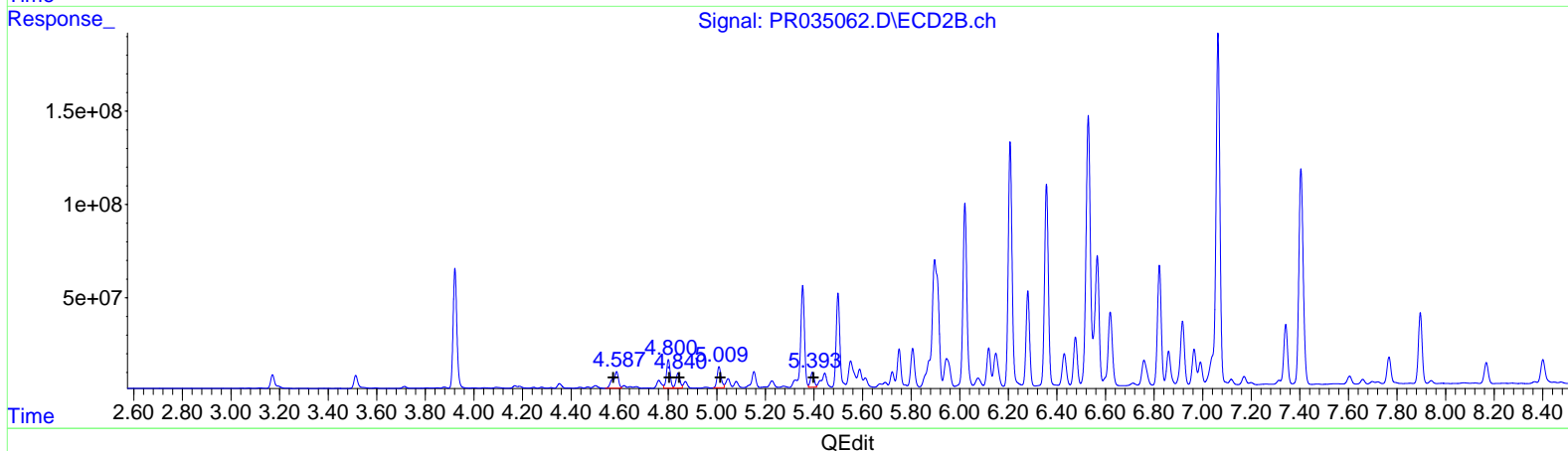
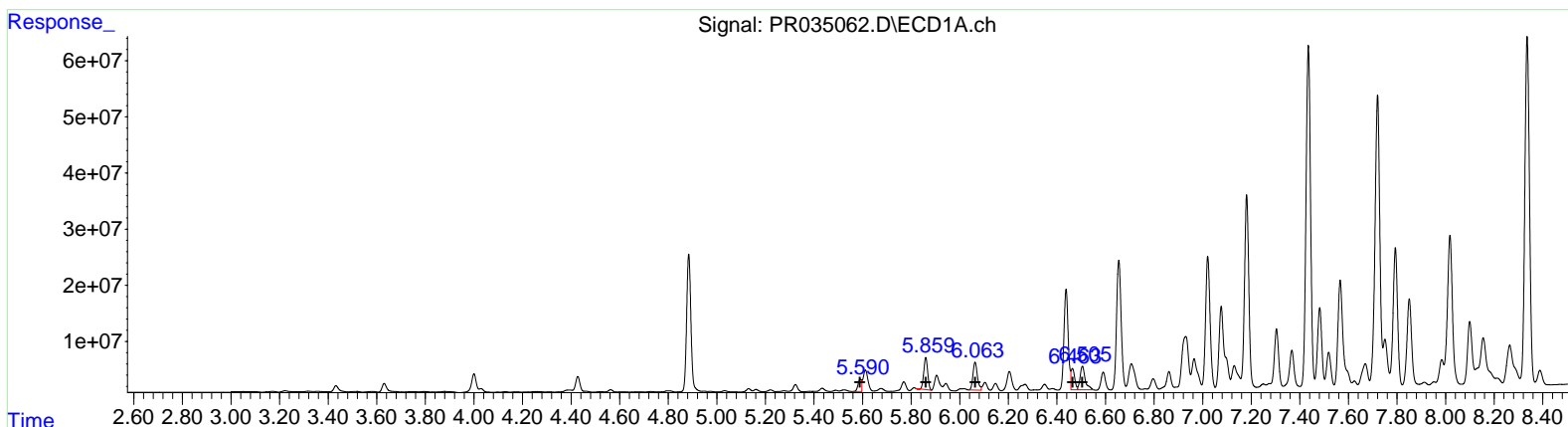
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | | |
|------------------------|-----------|---------|--|
| R.T. | Response | Conc | |
| 5.59 | 21918337 | 451.71 | |
| 5.86 | 62758620 | 949.83 | |
| 6.06 | 63163978 | 845.40 | |
| 6.46 | 38710658 | 433.27 | |
| 6.51 | 61479652 | 734.80 | |
| (21) AR-1248-1 #2 (L5) | | | |
| R.T. | Response | Conc | |
| 4.59 | 143655428 | 1473.36 | |
| 4.80 | 162797576 | 1270.84 | |
| 4.84 | 91852009 | 695.97 | |
| 5.01 | 128729717 | 782.41 | |
| 5.39 | 84952503 | 507.62 | |

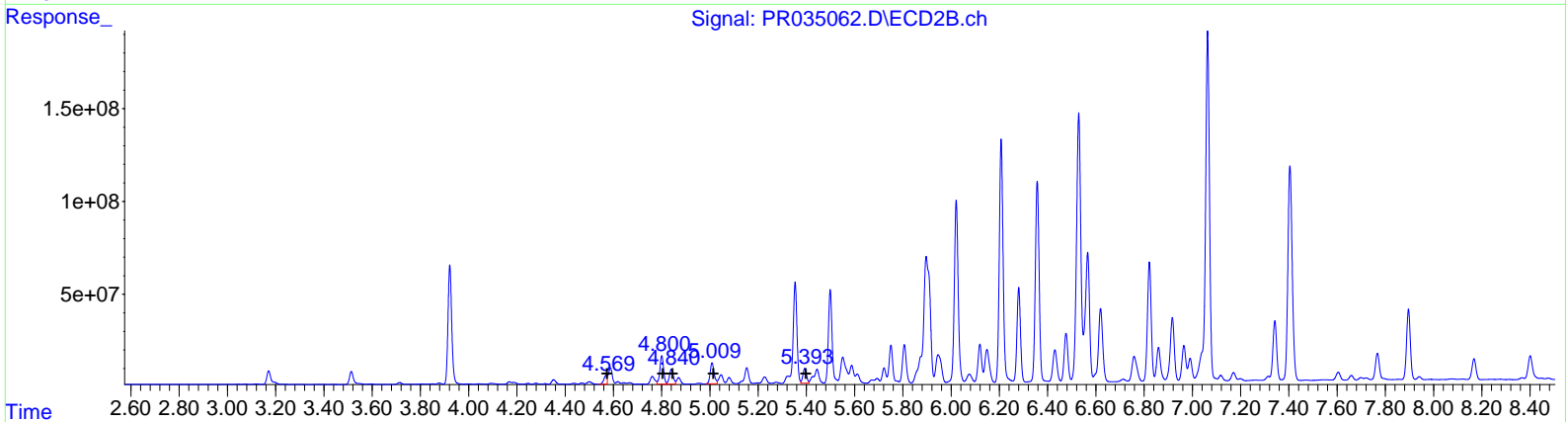
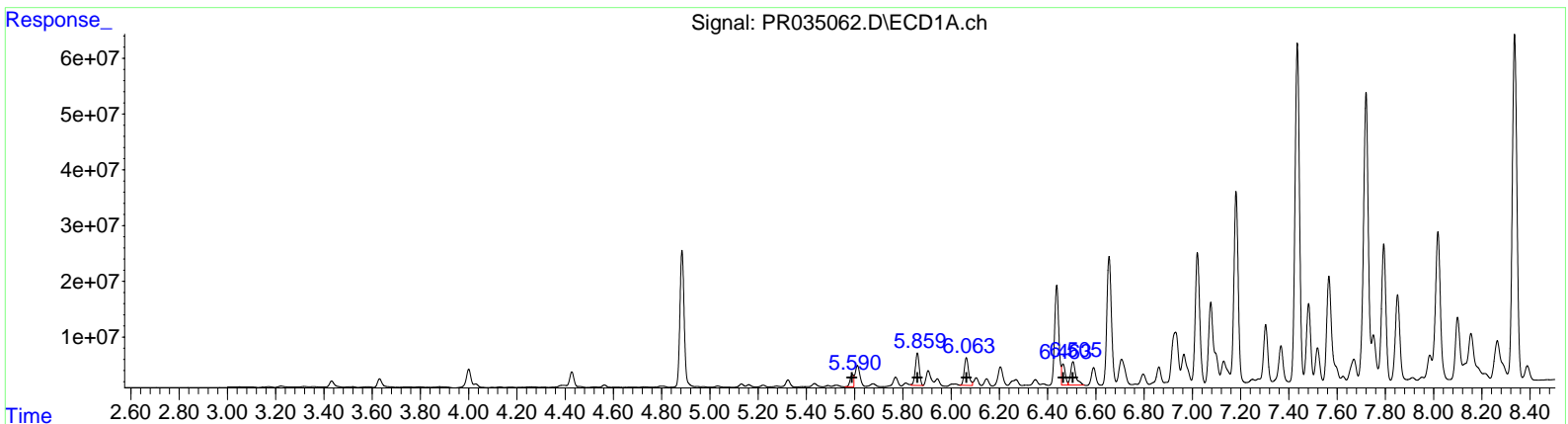
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 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|----------|---------|
| 5.59 | 21918337 | 451.71 |
| 5.86 | 67107935 | 1015.66 |
| 6.06 | 63163978 | 845.40 |
| 6.46 | 38710658 | 433.27 |
| 6.51 | 61479652 | 734.80 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 46854842 | 480.55 |
| 4.80 | 162797576 | 1270.84 |
| 4.84 | 91852009 | 695.97 |
| 5.01 | 128729717 | 782.41 |
| 5.39 | 84952503 | 507.62 |

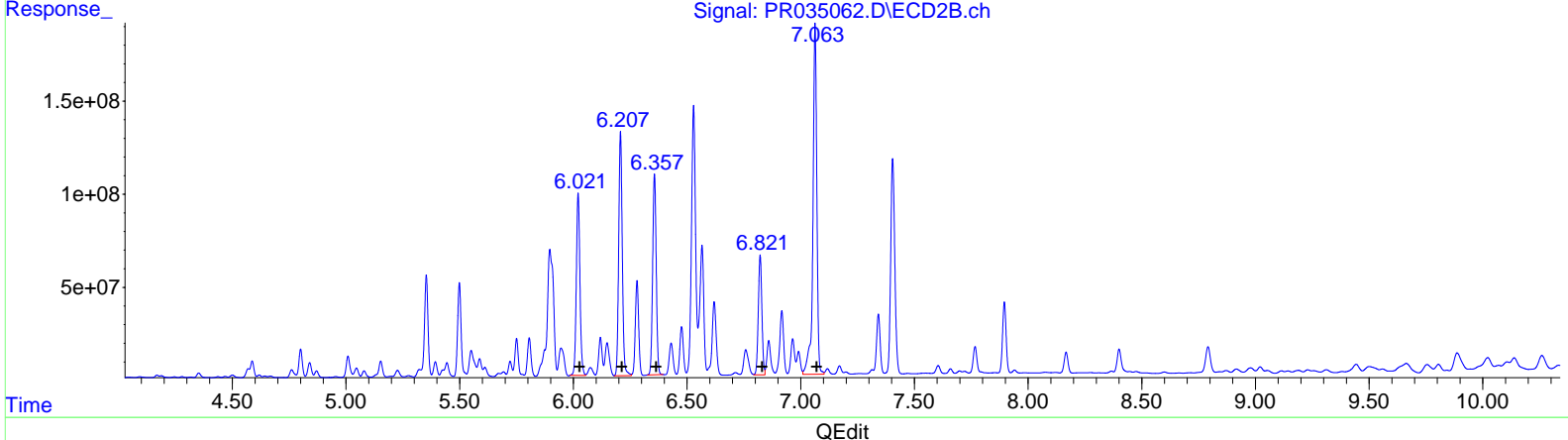
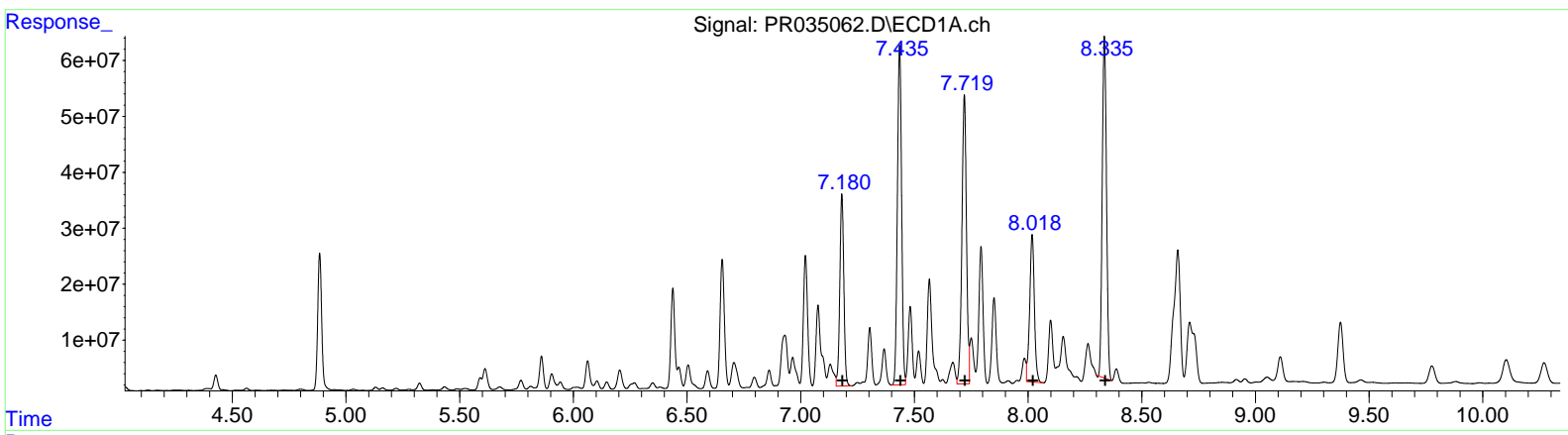
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 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 422538572 | 4494.71 |
| 7.44 | 781287929 | 6729.37 |
| 7.72 | 717905885 | 5144.20 |
| 8.02 | 378734301 | 4385.35 |
| 8.34 | 796517258 | 4411.52 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|------------|---------|
| 6.02 | 1081631476 | 5031.49 |
| 6.21 | 1431726033 | 5261.35 |
| 6.36 | 1174038391 | 4729.53 |
| 6.82 | 702268075 | 4107.06 |
| 7.06 | 2257681538 | 4668.05 |

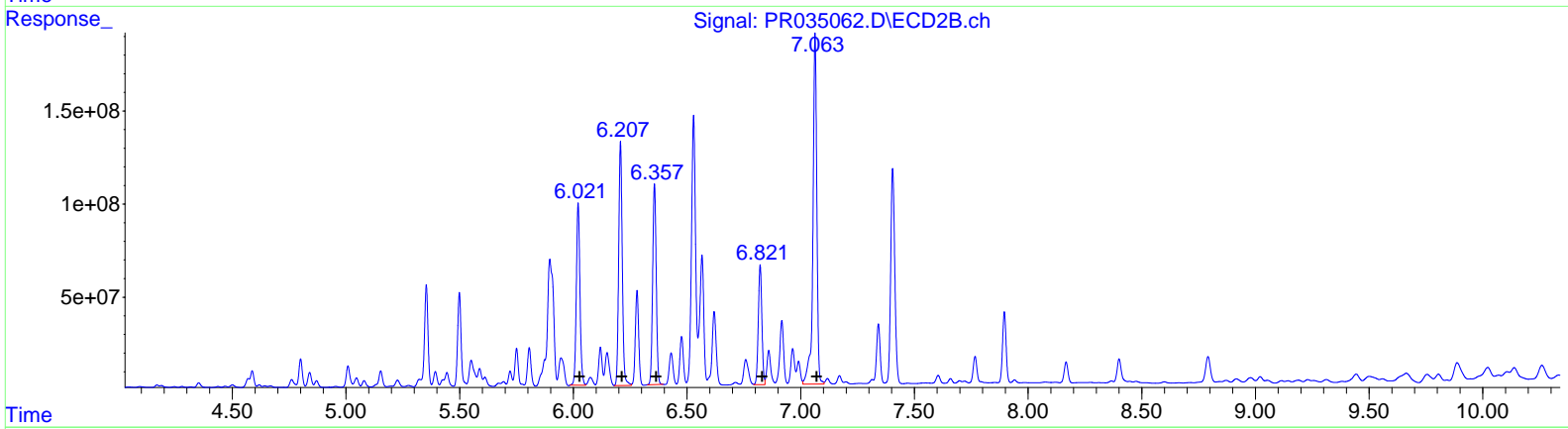
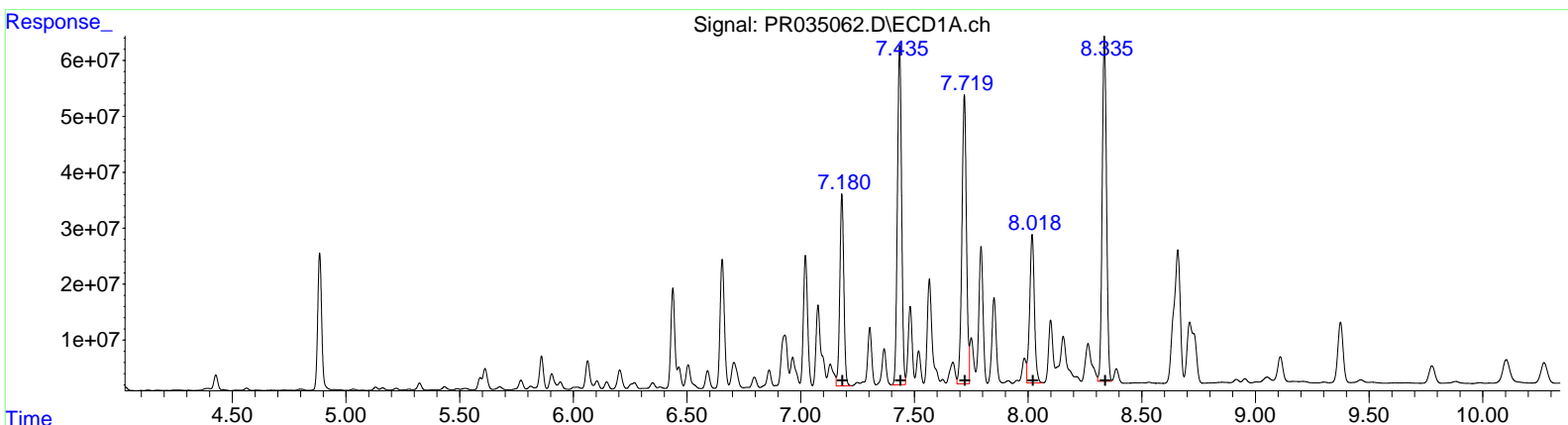
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 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W9

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 422538572 | 4494.71 |
| 7.44 | 781287929 | 6729.37 |
| 7.72 | 717905885 | 5144.20 |
| 8.02 | 381596865 | 4418.49 |
| 8.34 | 818671195 | 4534.22 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|------------|---------|
| 6.02 | 1081631476 | 5031.49 |
| 6.21 | 1431726033 | 5261.35 |
| 6.36 | 1174038391 | 4729.53 |
| 6.82 | 702268075 | 4107.06 |
| 7.06 | 2257681538 | 4668.05 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035062.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 06:13
 Operator : SM\SJ
 Sample : J6428-16
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W9

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:34 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 00:23:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|----------|
| 1) SA Tetrachlo... | 4.428 | 3.514 | 32187512 | 83931639 | 16.549 | 24.077 # |
| 2) SA Decachlor... | 10.103 | 8.400 | 90533696 | 149.2E6 | 46.052 | 33.943m# |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|-----------|------------|
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 21918337 | 46854842 | 451.714 | 480.554m |
| 22) L5 AR-1248-2 | 5.859 | 4.801 | 67107935 | 162.8E6 | 1015.656m | 1270.839 # |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 63163978 | 91852009 | 845.400 | 695.969 |
| 24) L5 AR-1248-4 | 6.464 | 5.009 | 38710658 | 128.7E6 | 433.267 | 782.407 # |
| 25) L5 AR-1248-5 | 6.505 | 5.393 | 61479652 | 84952503 | 734.803 | 507.616 # |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 422.5E6 | 1081.6E6 | 4494.708 | 5031.495 |
| 32) L7 AR-1260-2 | 7.435 | 6.207 | 781.3E6 | 1431.7E6 | 6729.372 | 5261.347 |
| 33) L7 AR-1260-3 | 7.720 | 6.357 | 717.9E6 | 1174.0E6 | 5144.199 | 4729.528 |
| 34) L7 AR-1260-4 | 8.018 | 6.822 | 381.6E6 | 702.3E6 | 4418.493m | 4107.063 |
| 35) L7 AR-1260-5 | 8.335 | 7.063 | 818.7E6 | 2257.7E6 | 4534.225m | 4668.052 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W9DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-16DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035123.D
 % Solids : 88 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 10.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 370 | U |
| 11104-28-2 | Aroclor-1221 | 370 | U |
| 11141-16-5 | Aroclor-1232 | 370 | U |
| 53469-21-9 | Aroclor-1242 | 370 | U |
| 12672-29-6 | Aroclor-1248 | 360 | JD |
| 11097-69-1 | Aroclor-1254 | 370 | U |
| 11096-82-5 | Aroclor-1260 | 1900 | D |
| 37324-23-5 | Aroclor-1262 | 370 | U |
| 11100-14-4 | Aroclor-1268 | 370 | U |

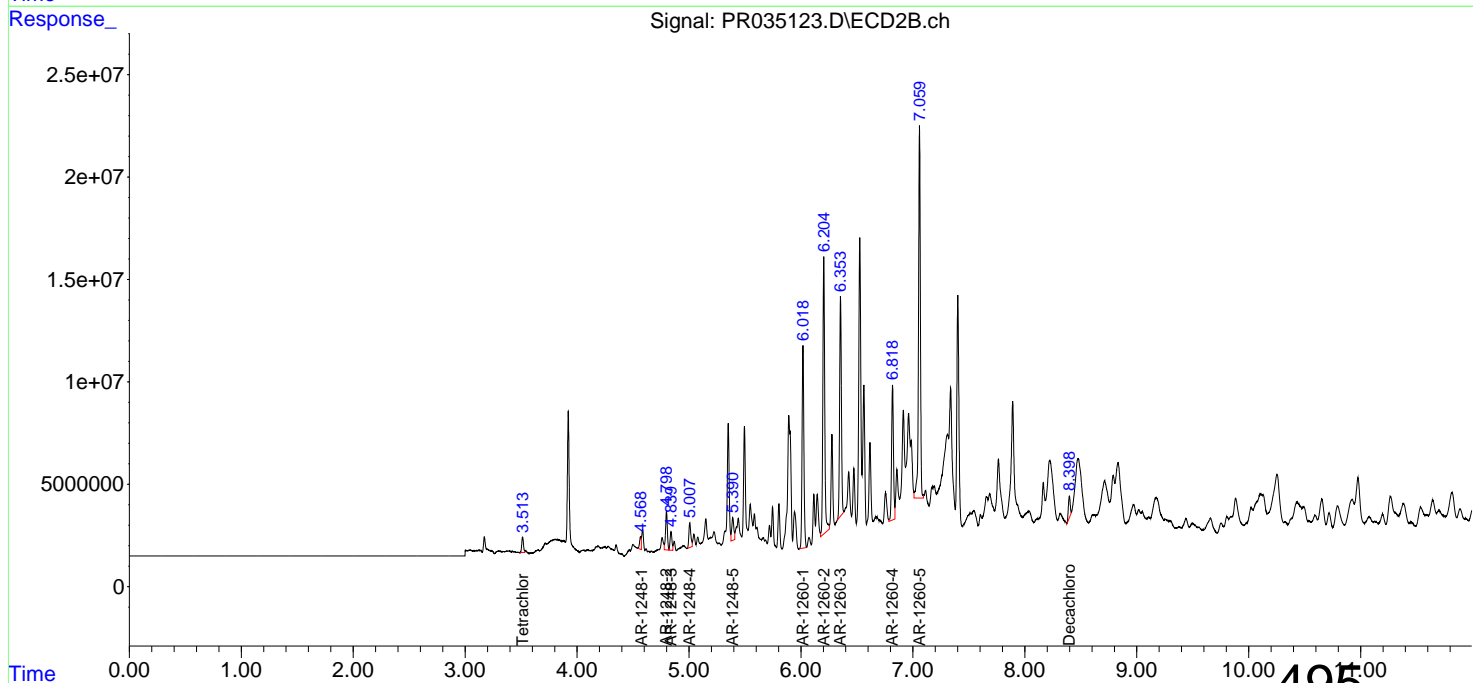
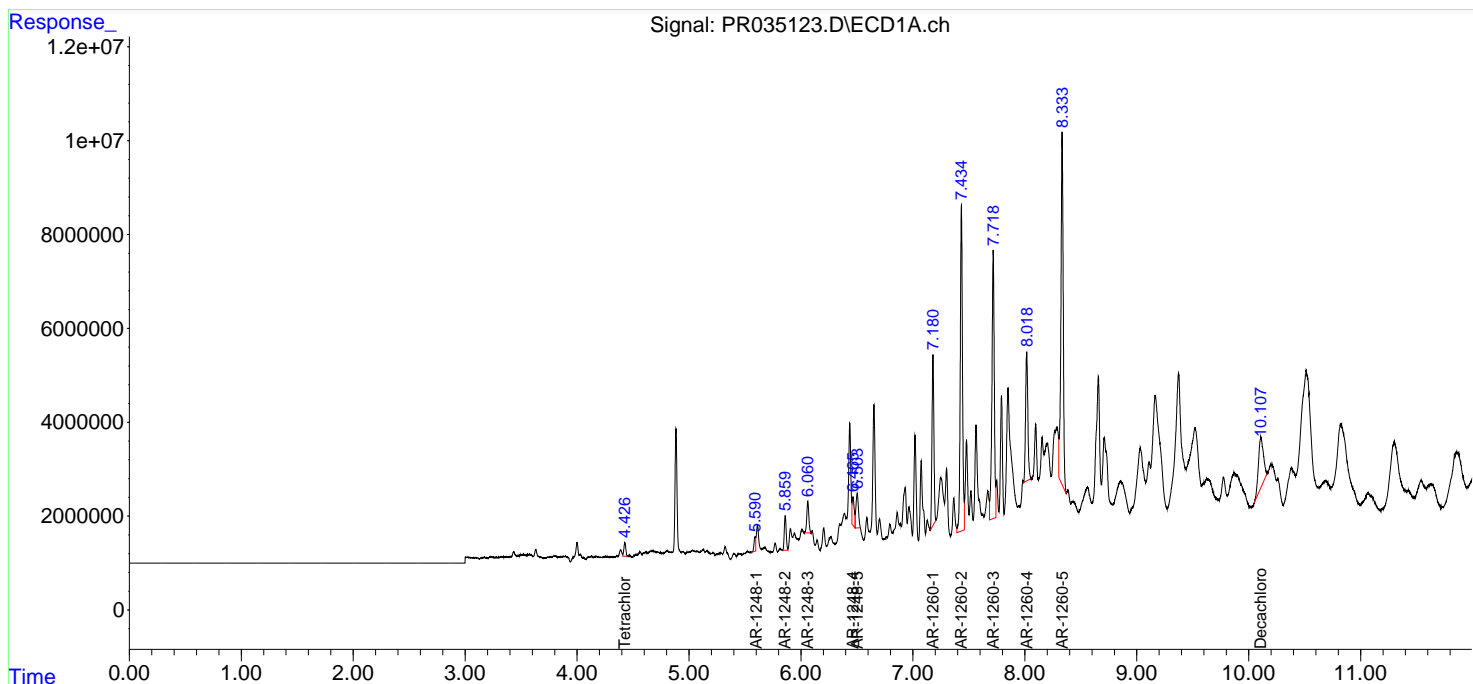
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 Data File : PR035123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 3489166 | 8188508 | 1.794 | 2.349m# |
| 2) SA Decachlor... | 10.109 | 8.398 | 33479034 | 11960992 | 17.030 | 2.720m# |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.568 | 3025239 | 5922418 | 62.347 | 60.742 |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 8717695 | 21285095 | 131.939m | 166.157 # |
| 23) L5 AR-1248-3 | 6.060 | 4.839 | 8695506 | 10436228 | 116.382m | 79.076 # |
| 24) L5 AR-1248-4 | 6.465 | 5.007 | 7785493 | 14844976 | 87.139 | 90.226 |
| 25) L5 AR-1248-5 | 6.503 | 5.391 | 11471224 | 14288064 | 137.104m | 85.375 # |
| 31) L7 AR-1260-1 | 7.180 | 6.018 | 43078403 | 111.7E6 | 458.242 | 519.537 |
| 32) L7 AR-1260-2 | 7.434 | 6.204 | 96101626 | 158.3E6 | 827.740 | 581.773 # |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 83456655 | 118.4E6 | 598.014 | 477.150 |
| 34) L7 AR-1260-4 | 8.018 | 6.819 | 38560123 | 76825621 | 446.486m | 449.298 |
| 35) L7 AR-1260-5 | 8.333 | 7.059 | 107.9E6 | 210.6E6 | 597.385m | 435.472m# |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL2 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

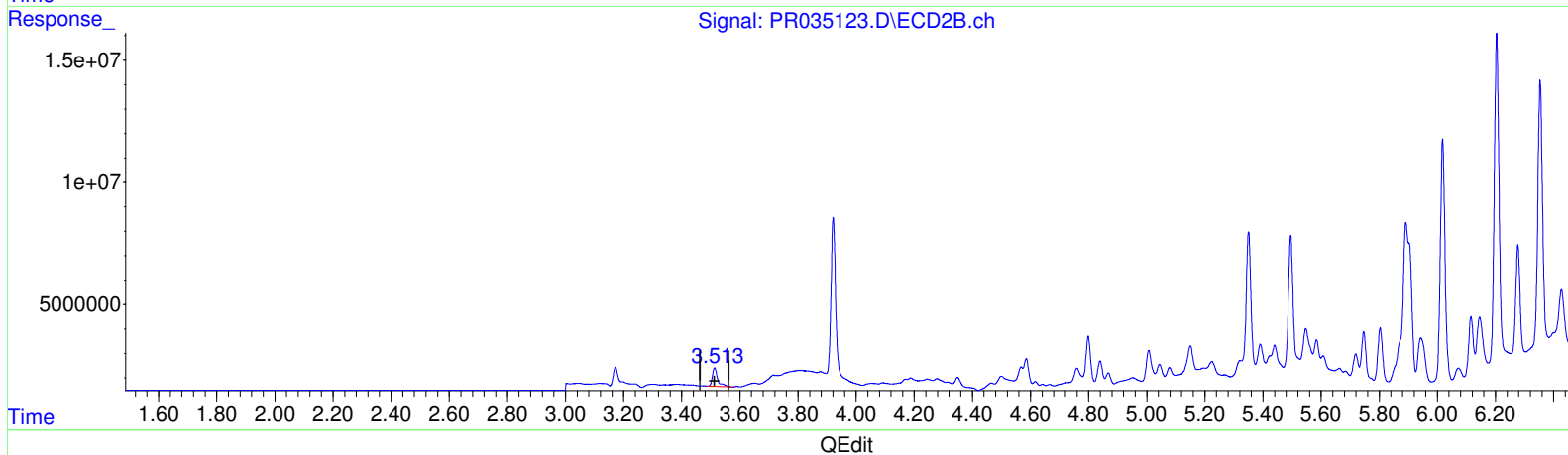
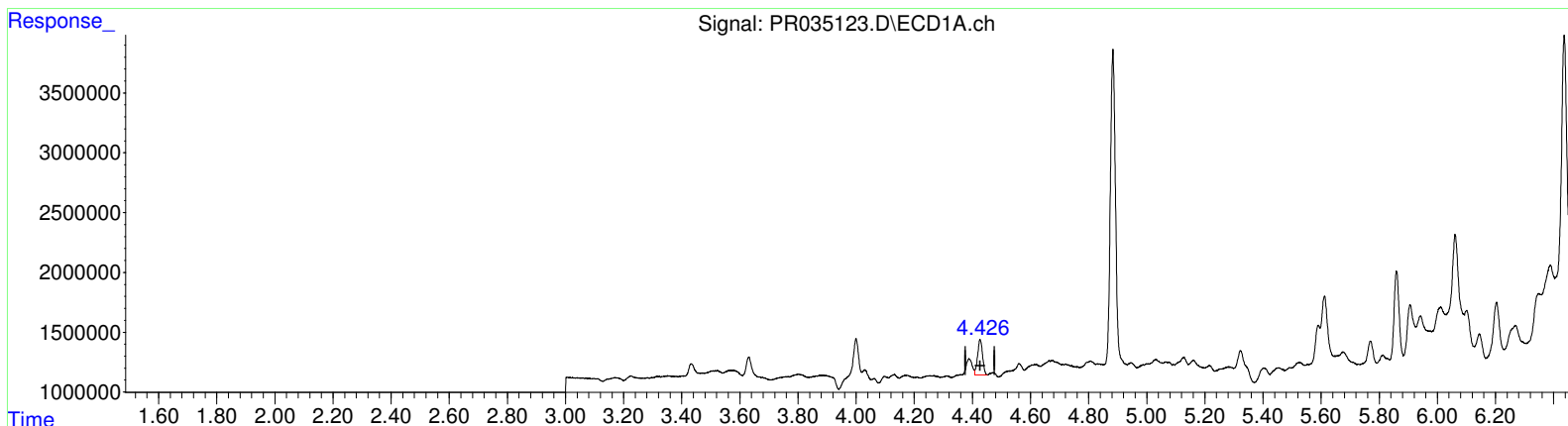
Instrument :
 ECD_R
 ClientSampled :
 A41W9DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.427min 1.794 ng/ml
 response 3489166

(1) Tetrachloro-m-xylene #2 (SA)

3.513min 2.738 ng/ml
 response 9543798

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL2 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

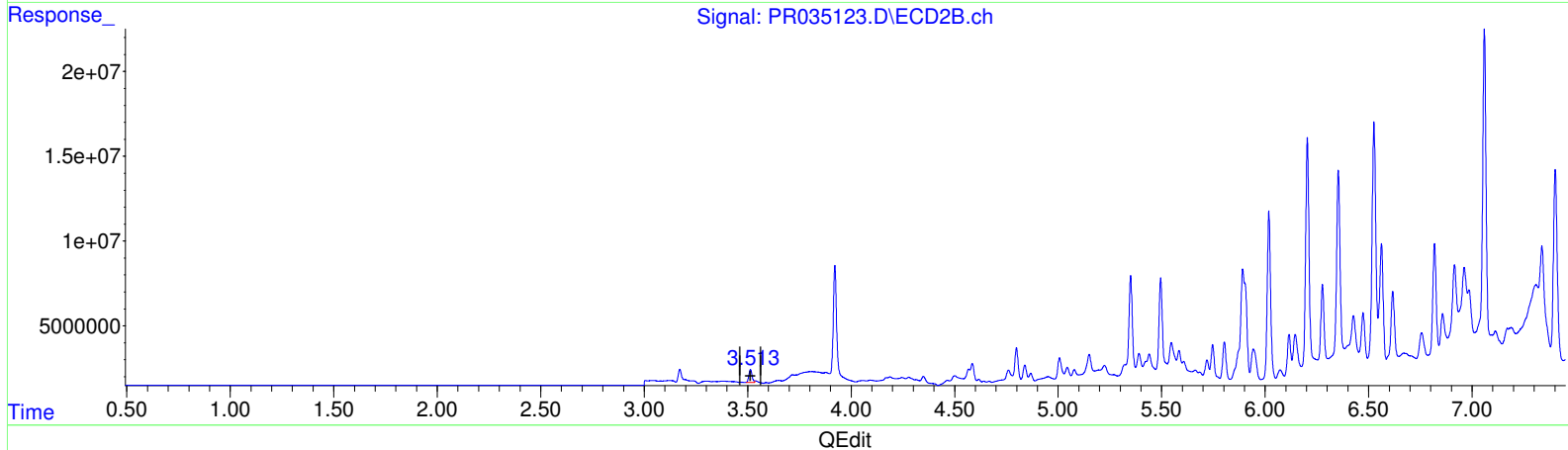
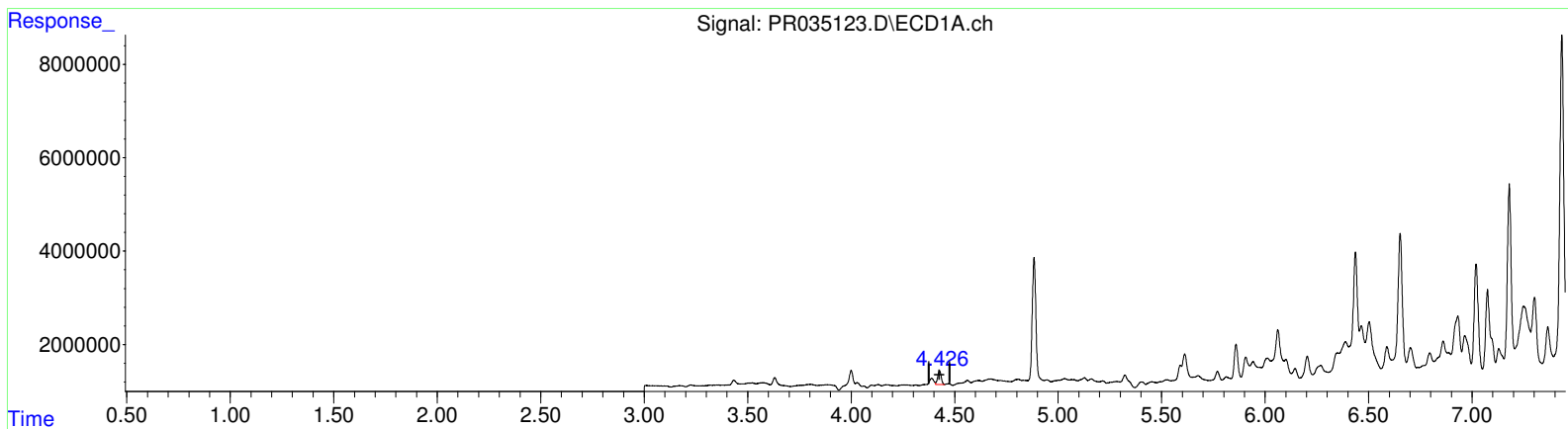
Instrument :
 ECD_R
 ClientSampled :
 A41W9DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 1.794 ng/ml
 response 3489166

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 2.349 ng/ml m
 response 8188508

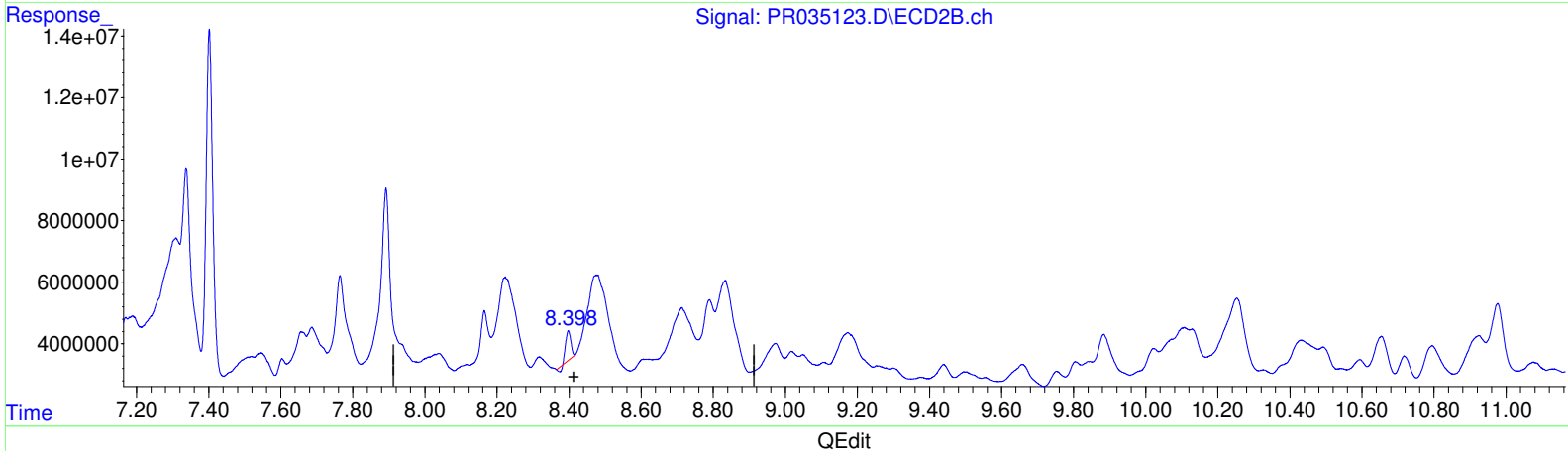
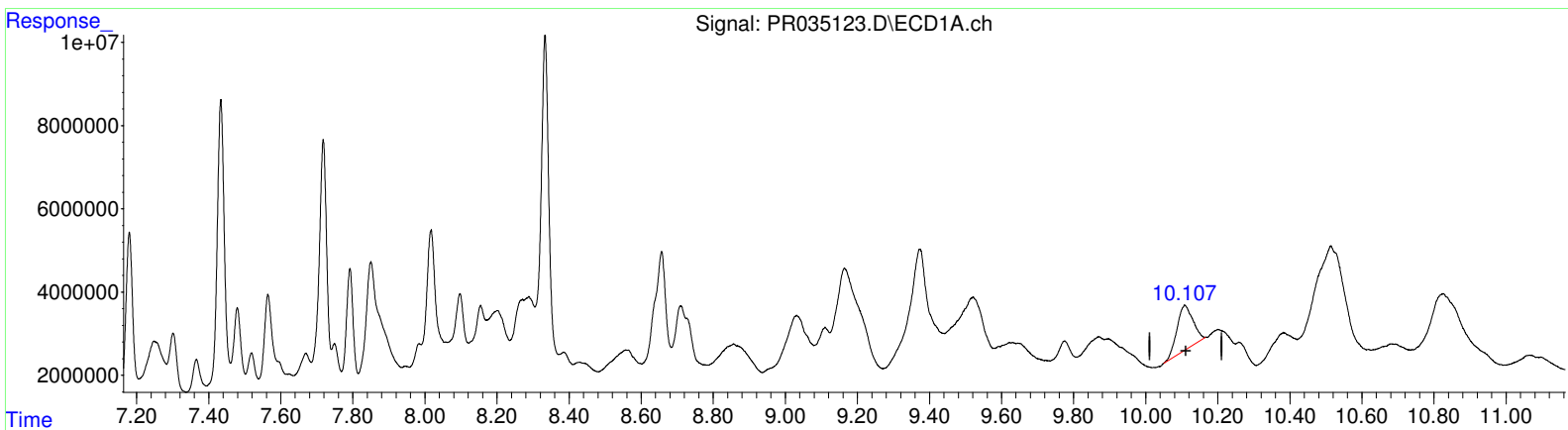
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL2 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.109min 17.030 ng/ml
 response 33479034

(2) Decachlorobiphenyl #2 (SA)
 8.398min 1.993 ng/ml
 response 8764451

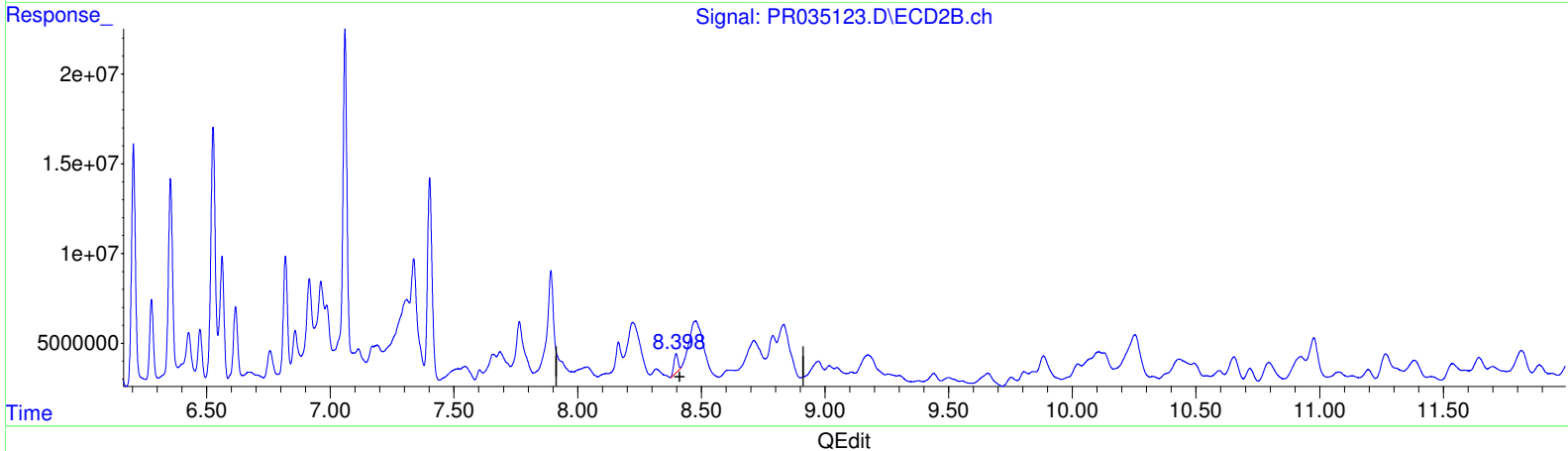
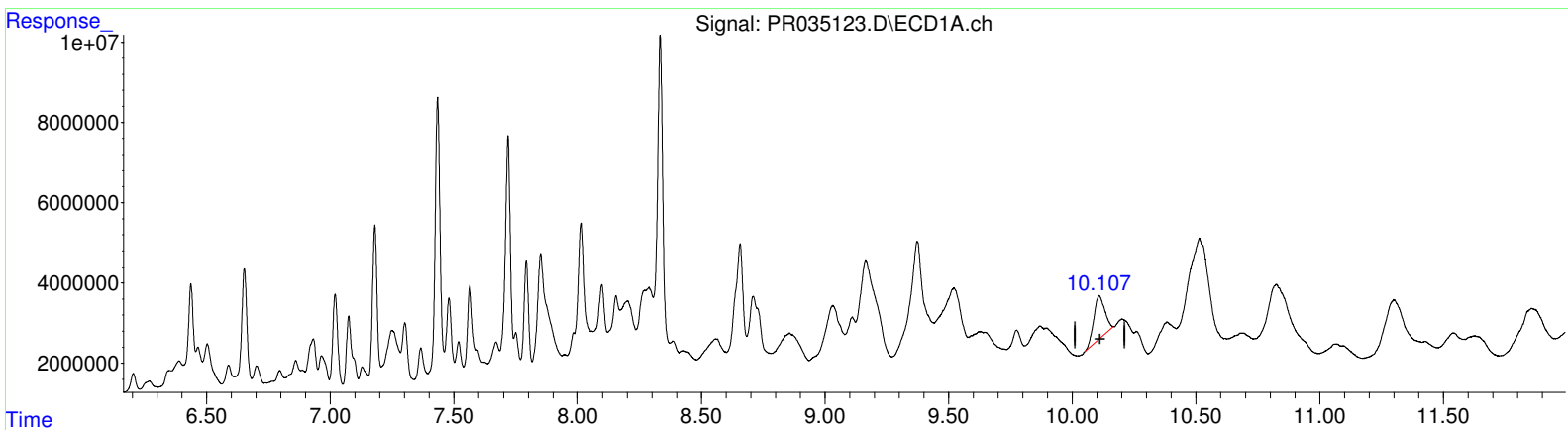
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL2 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.109min 17.030 ng/ml
 response 33479034

(2) Decachlorobiphenyl #2 (SA)
 8.398min 2.720 ng/ml m
 response 11960992

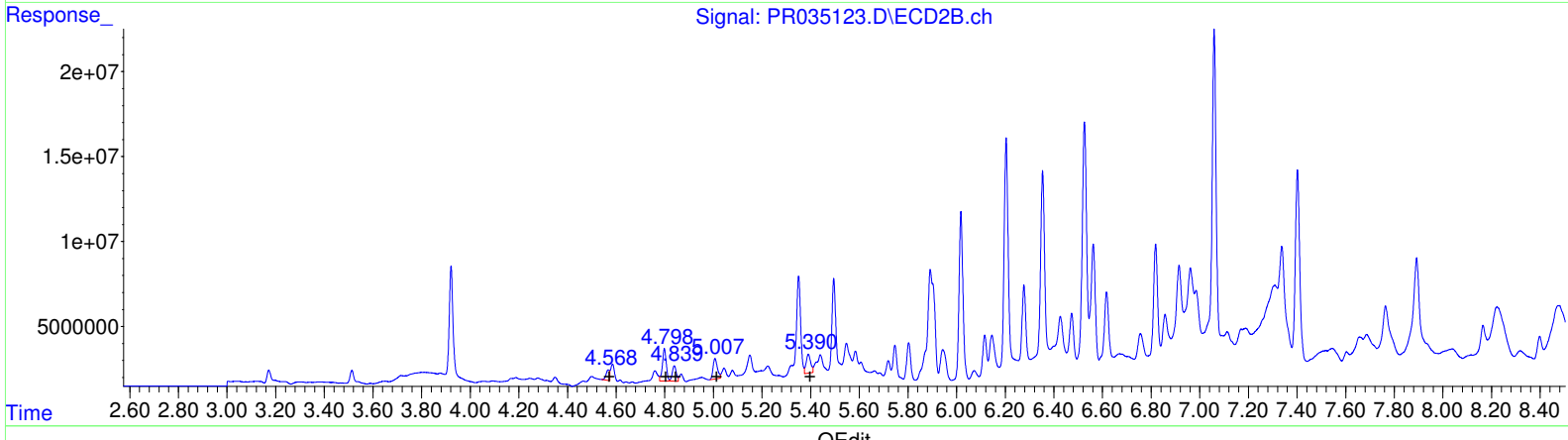
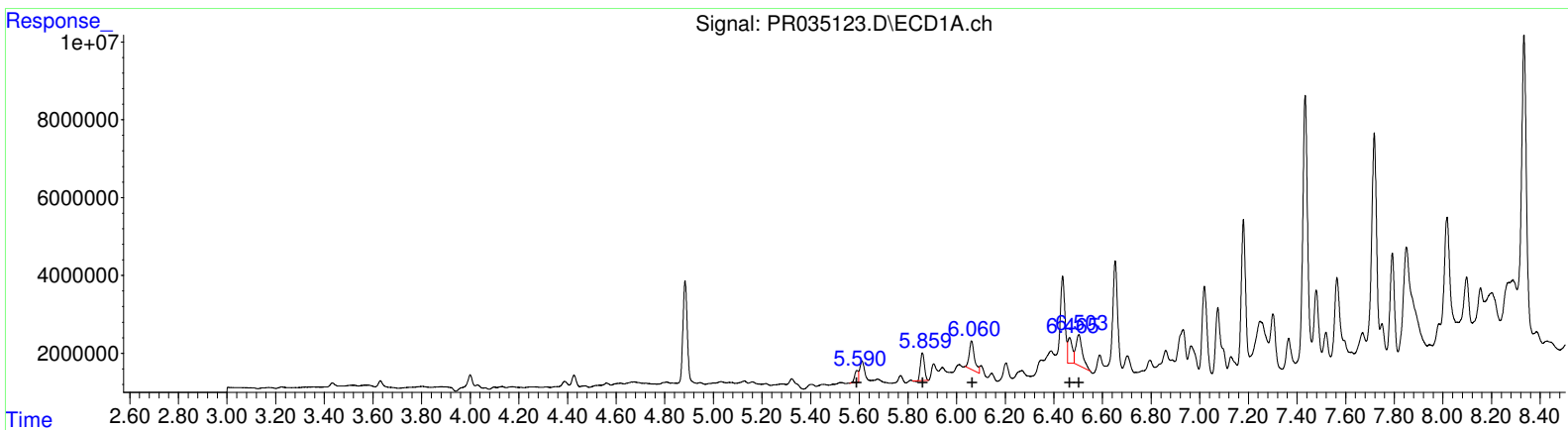
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 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL2 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W9DL

Manual Integrations
APPROVED
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 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (21) AR-1248-1 (L5) | | | |
|------------------------|----------|--------|--|
| R.T. | Response | Conc | |
| 5.59 | 3025239 | 62.35 | |
| 5.86 | 7839375 | 118.65 | |
| 6.06 | 11087667 | 148.40 | |
| 6.46 | 7785493 | 87.14 | |
| 6.50 | 14364369 | 171.68 | |
| (21) AR-1248-1 #2 (L5) | | | |
| R.T. | Response | Conc | |
| 4.57 | 5922418 | 60.74 | |
| 4.80 | 21285095 | 166.16 | |
| 4.84 | 10436228 | 79.08 | |
| 5.01 | 14844976 | 90.23 | |
| 5.39 | 14288064 | 85.38 | |

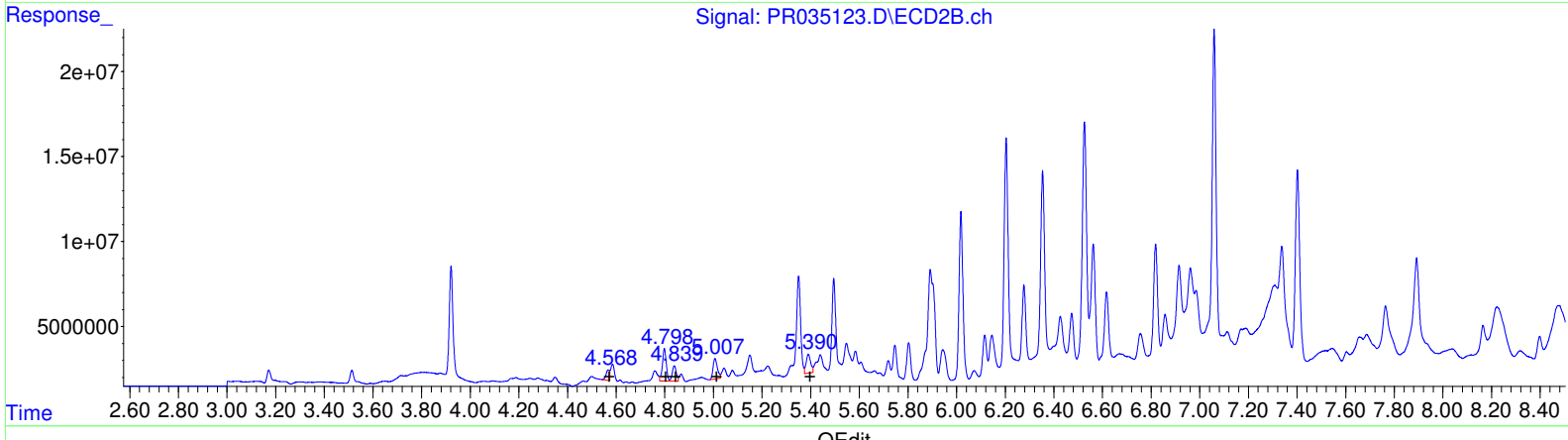
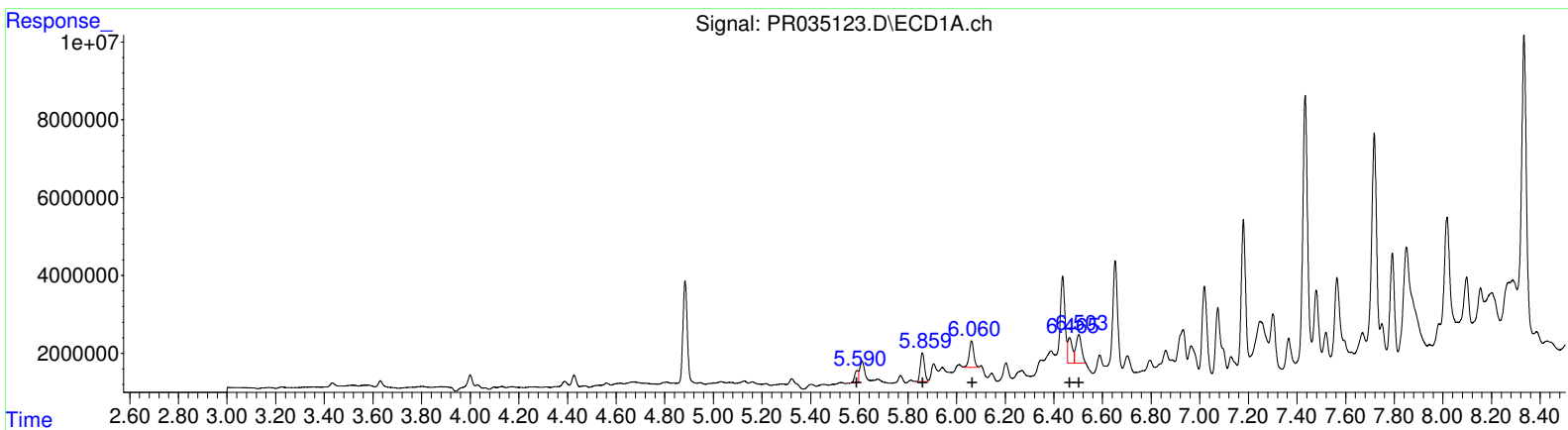
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 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL2 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 3025239 | 62.35 |
| 5.86 | 8717695 | 131.94 |
| 6.06 | 8695506 | 116.38 |
| 6.46 | 7785493 | 87.14 |
| 6.50 | 11471224 | 137.10 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 5922418 | 60.74 |
| 4.80 | 21285095 | 166.16 |
| 4.84 | 10436228 | 79.08 |
| 5.01 | 14844976 | 90.23 |
| 5.39 | 14288064 | 85.38 |

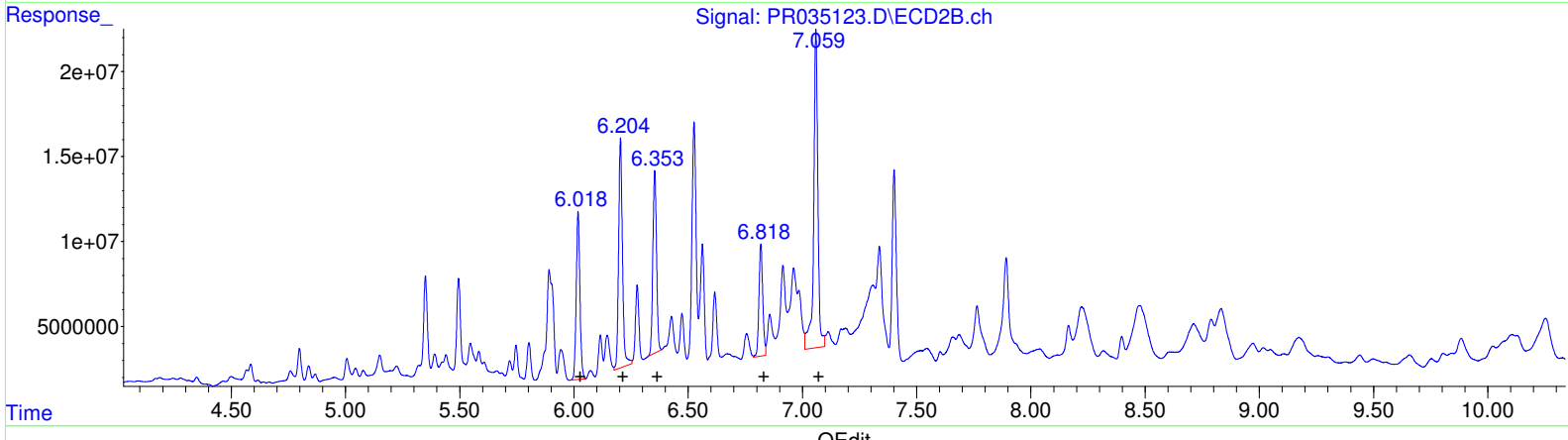
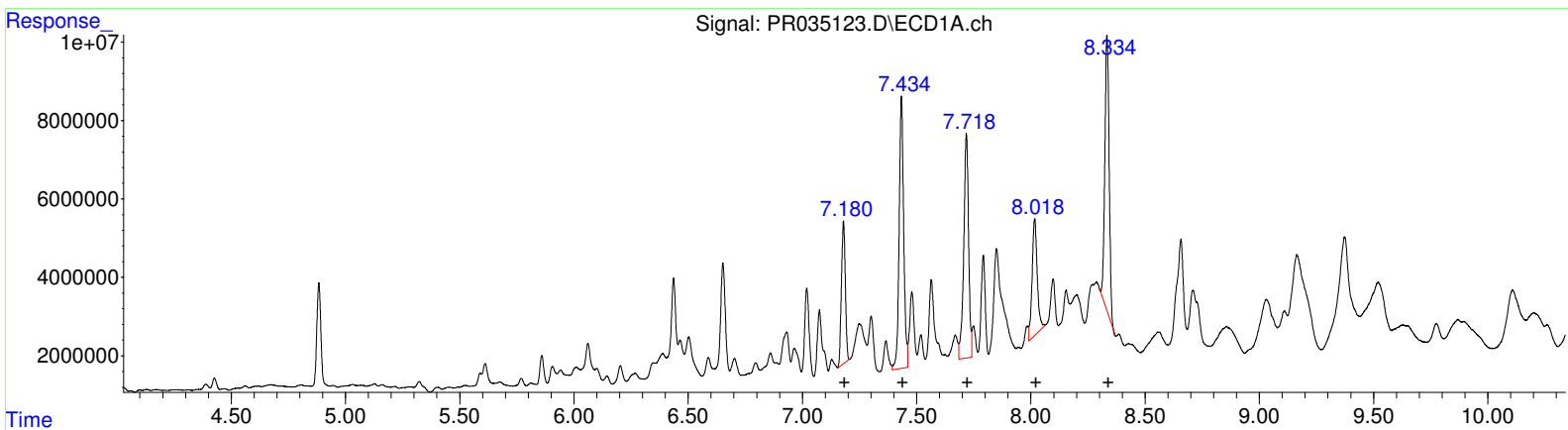
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 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL2 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 43078403 | 458.24 |
| 7.43 | 96101626 | 827.74 |
| 7.72 | 83456655 | 598.01 |
| 8.02 | 46895263 | 543.00 |
| 8.33 | 90380915 | 500.58 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 111685920 | 519.54 |
| 6.20 | 158312921 | 581.77 |
| 6.35 | 118445805 | 477.15 |
| 6.82 | 76825621 | 449.30 |
| 7.06 | 241111202 | 498.53 |

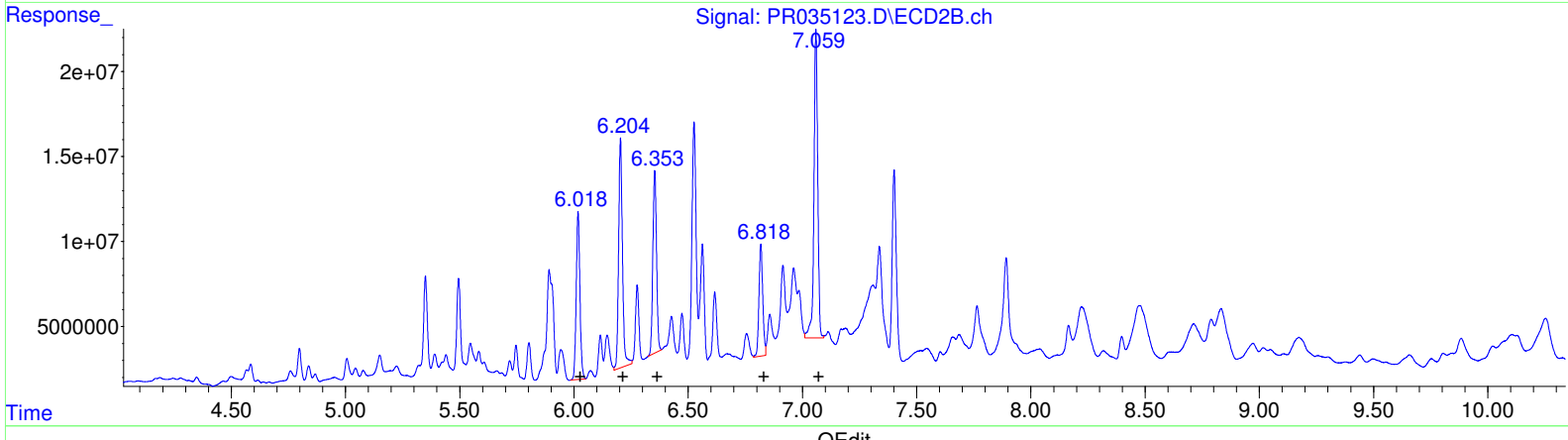
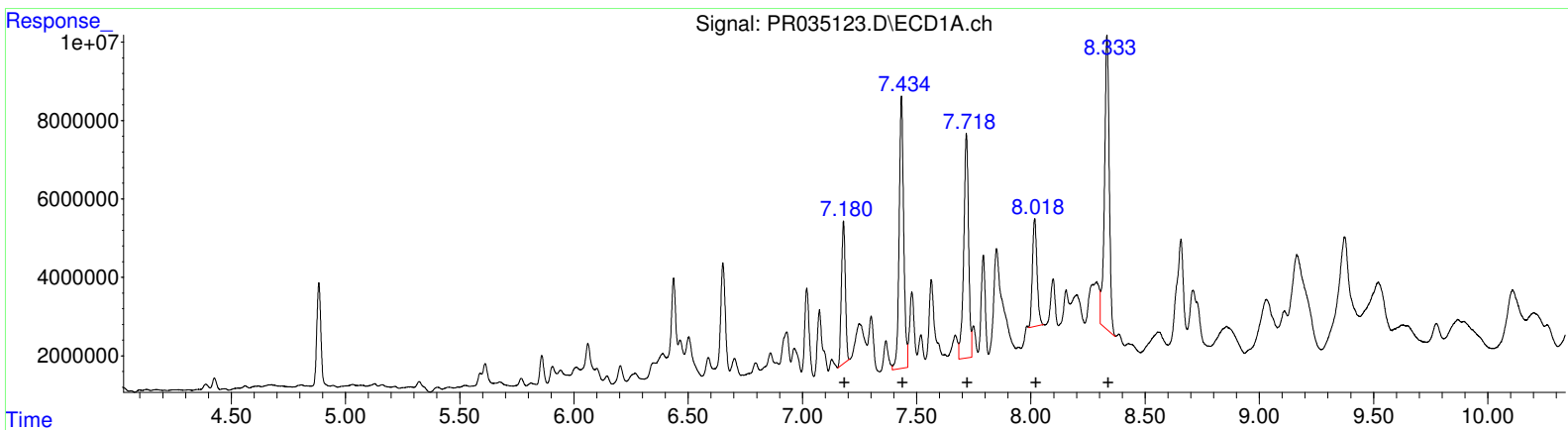
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 Data File : PR035123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26
 Operator : SM\SJ
 Sample : J6428-16DL2 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W9DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:13 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 7.18 | 43078403 | 458.24 |
| 7.43 | 96101626 | 827.74 |
| 7.72 | 83456655 | 598.01 |
| 8.02 | 38560123 | 446.49 |
| 8.33 | 107860024 | 597.38 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 111685920 | 519.54 |
| 6.20 | 158312921 | 581.77 |
| 6.35 | 118445805 | 477.15 |
| 6.82 | 76825621 | 449.30 |
| 7.06 | 210613861 | 435.47 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035123.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 23:26

Operator : SM\SJ
 Sample : J6428-16DL 10X
 Misc :
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41W9DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:20:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:19:13 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|---------|
| 1) SA Tetrachlo... | 4.427 | 3.513 | 3489166 | 8188508 | 1.794 | 2.349m# |
| 2) SA Decachlor... | 10.109 | 8.398 | 33479034 | 11960992 | 17.030 | 2.720m# |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|----------|-----------|
| 21) L5 AR-1248-1 | 5.590 | 4.568 | 3025239 | 5922418 | 62.347 | 60.742 |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 8717695 | 21285095 | 131.939m | 166.157 # |
| 23) L5 AR-1248-3 | 6.060 | 4.839 | 8695506 | 10436228 | 116.382m | 79.076 # |
| 24) L5 AR-1248-4 | 6.465 | 5.007 | 7785493 | 14844976 | 87.139 | 90.226 |
| 25) L5 AR-1248-5 | 6.503 | 5.391 | 11471224 | 14288064 | 137.104m | 85.375 # |
| 31) L7 AR-1260-1 | 7.180 | 6.018 | 43078403 | 111.7E6 | 458.242 | 519.537 |
| 32) L7 AR-1260-2 | 7.434 | 6.204 | 96101626 | 158.3E6 | 827.740 | 581.773 # |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 83456655 | 118.4E6 | 598.014 | 477.150 |
| 34) L7 AR-1260-4 | 8.018 | 6.819 | 38560123 | 76825621 | 446.486m | 449.298 |
| 35) L7 AR-1260-5 | 8.333 | 7.059 | 107.9E6 | 210.6E6 | 597.385m | 435.472m# |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z3

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-17
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035073.D
 % Solids : 100 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 8000 | EC |
| 11096-82-5 | Aroclor-1260 | 3700 | E |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

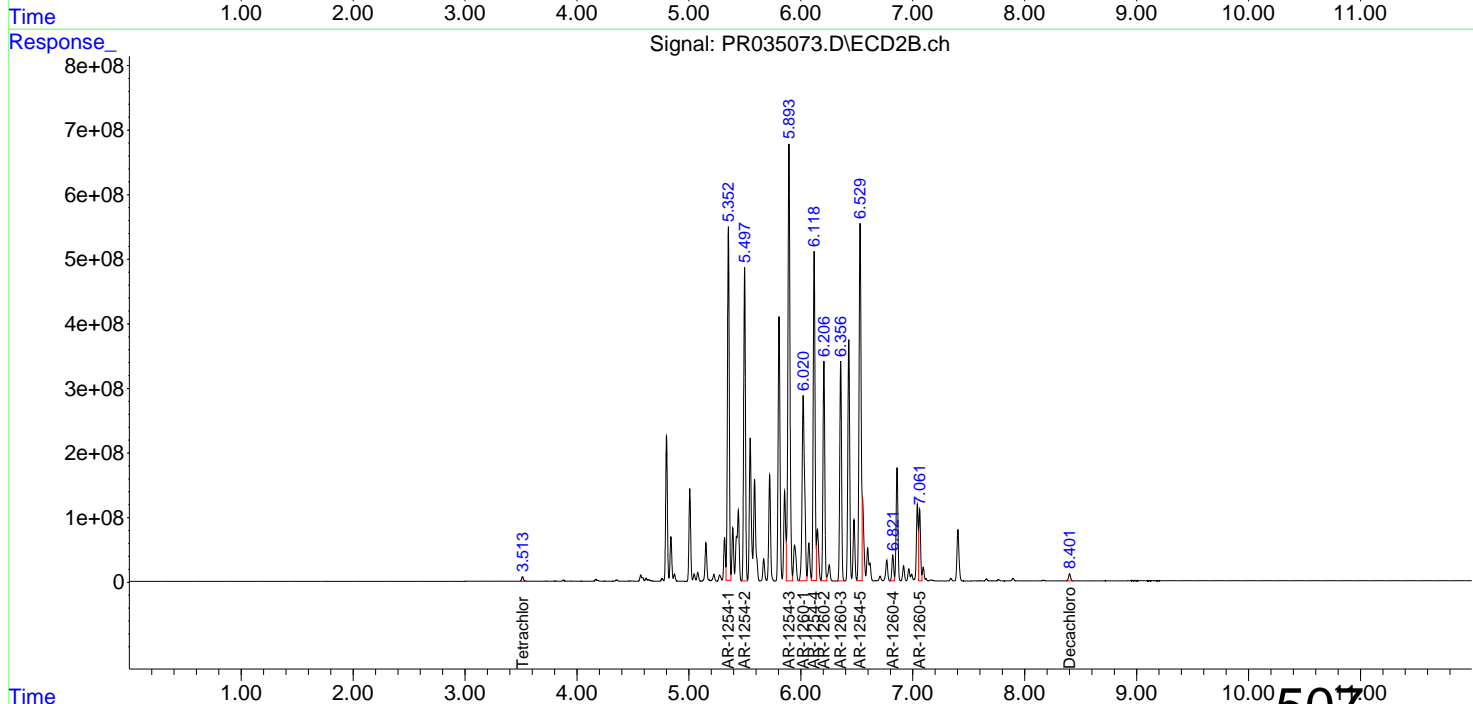
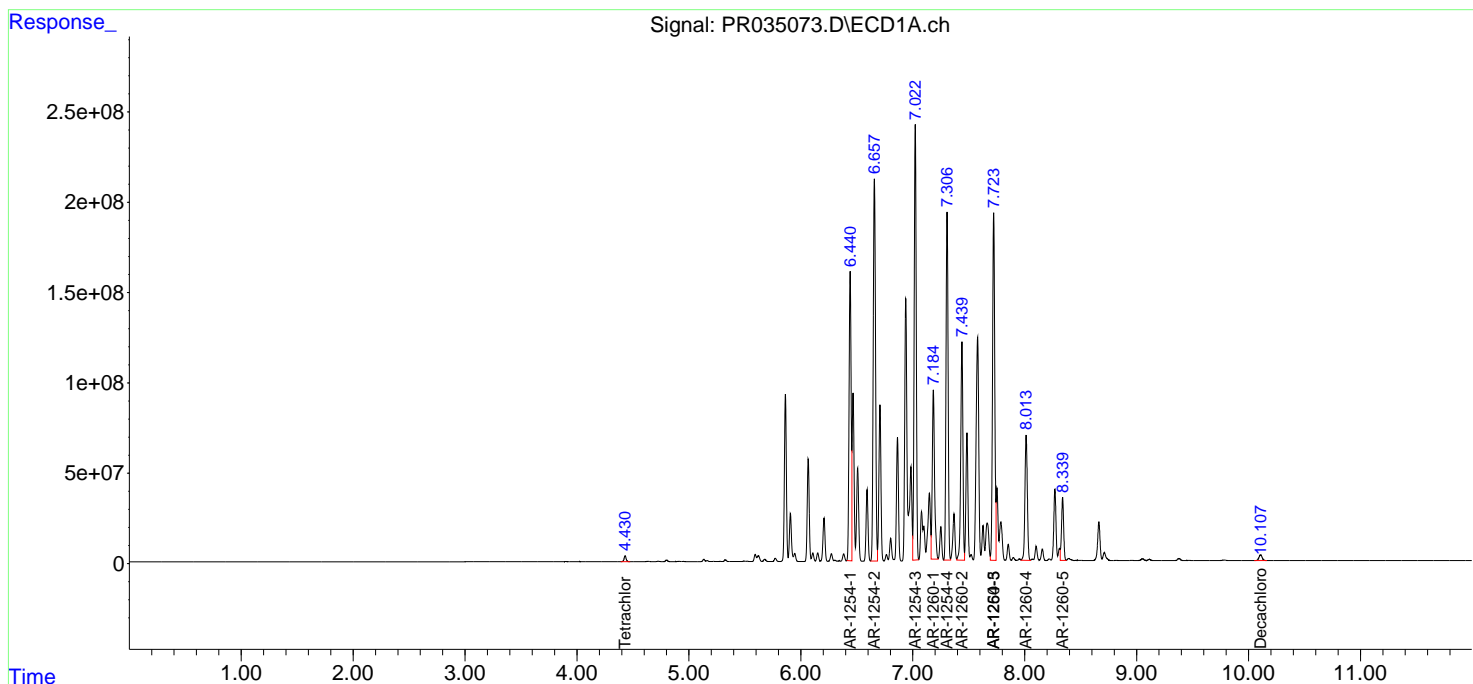
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035073.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:02
 Operator : SM\SJ
 Sample : J6428-17
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Z3

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035073.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:02
 Operator : SM\SJ
 Sample : J6428-17
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Z3

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.430 | 3.514 | 39667472 | 78307913 | 20.394 | 22.463 |
| 2) SA Decachlor... | 10.107 | 8.401 | 61947755 | 135.4E6 | 31.511 | 30.794 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.441 | 5.353 | 2065.1E6 | 6158.5E6 | 25275.525 | 25168.213 |
| 27) L6 AR-1254-2 | 6.657 | 5.497 | 3029.8E6 | 5315.1E6 | 23711.462 | 24989.727m |
| 28) L6 AR-1254-3 | 7.022 | 5.894 | 3125.4E6 | 8802.7E6 | 23155.642 | 24635.395 |
| 29) L6 AR-1254-4 | 7.307 | 6.119 | 2510.4E6 | 5861.1E6 | 23665.775 | 24815.214 |
| 30) L6 AR-1254-5 | 7.723 | 6.529 | 2656.2E6 | 7149.9E6 | 24790.855 | 22417.634m |
| 31) L7 AR-1260-1 | 7.184 | 6.020 | 1338.6E6 | 4493.7E6 | 14239.426m | 20903.841m# |
| 32) L7 AR-1260-2 | 7.440 | 6.206 | 1621.0E6 | 3815.3E6 | 13961.841 | 14020.709 |
| 33) L7 AR-1260-3 | 7.723 | 6.356 | 2656.2E6 | 3838.9E6 | 19032.988 | 15464.658 |
| 34) L7 AR-1260-4 | 8.013 | 6.822 | 1025.8E6 | 438.6E6 | 11878.044m | 2564.772 # |
| 35) L7 AR-1260-5 | 8.339 | 7.062 | 465.9E6 | 1188.5E6 | 2580.213m | 2457.430 |
| ----- | | | | | | |

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

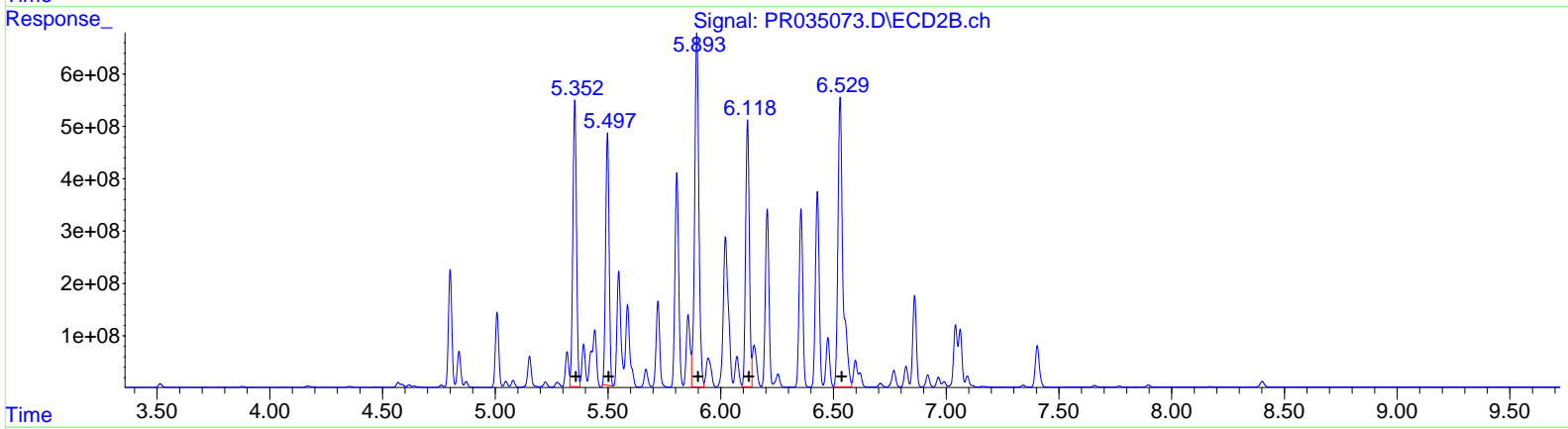
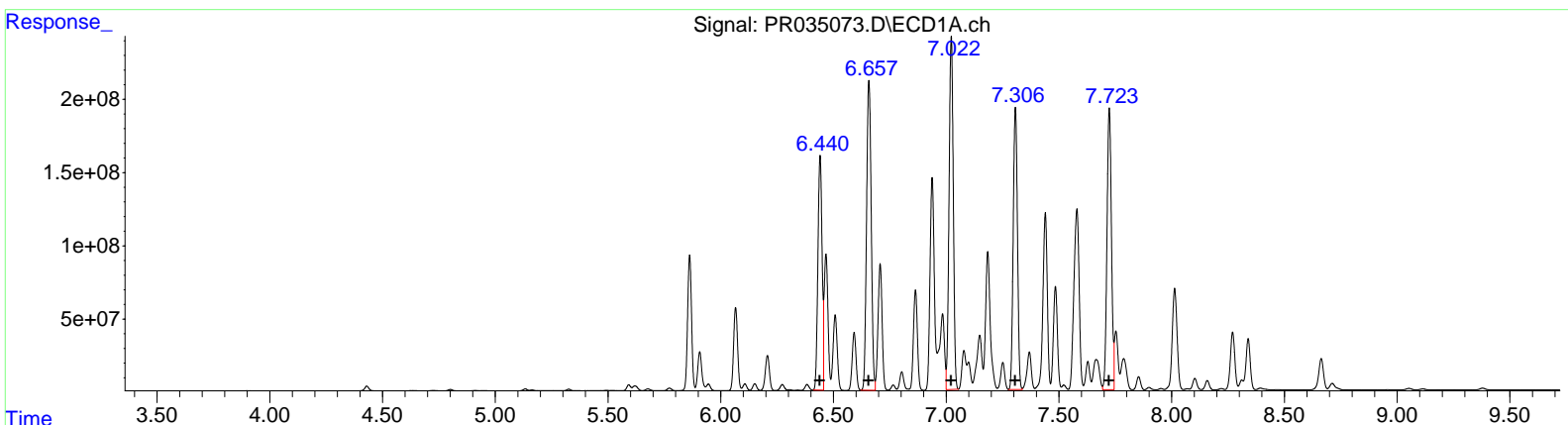
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035073.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:02
 Operator : SM\SJ
 Sample : J6428-17
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z3

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 6.44 | 2065137444 | 25275.53 |
| 6.66 | 3029770664 | 23711.46 |
| 7.02 | 3125364536 | 23155.64 |
| 7.31 | 2510414966 | 23665.77 |
| 7.72 | 2656175419 | 24790.86 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.35 | 6158502612 | 25168.21 |
| 5.50 | 5214915875 | 24518.91 |
| 5.89 | 8802677256 | 24635.40 |
| 6.12 | 5861114353 | 24815.21 |
| 6.53 | 8408976500 | 26365.24 |

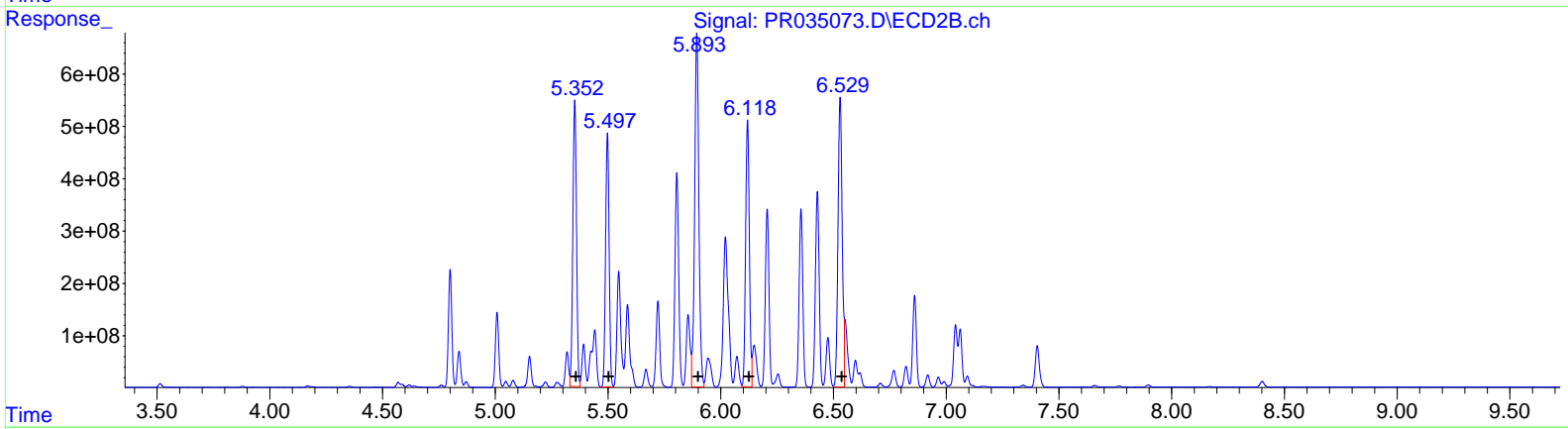
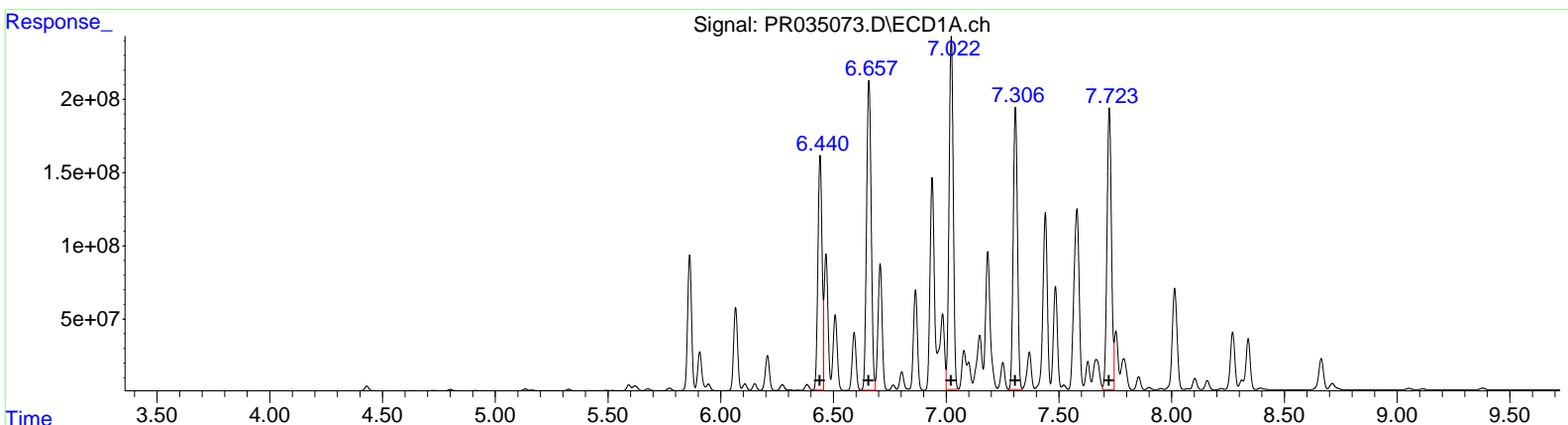
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035073.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:02
 Operator : SM\SJ
 Sample : J6428-17
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z3

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 6.44 | 2065137444 | 25275.53 |
| 6.66 | 3029770664 | 23711.46 |
| 7.02 | 3125364536 | 23155.64 |
| 7.31 | 2510414966 | 23665.77 |
| 7.72 | 2656175419 | 24790.86 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.35 | 6158502612 | 25168.21 |
| 5.50 | 5315052974 | 24989.73 |
| 5.89 | 8802677256 | 24635.40 |
| 6.12 | 5861114353 | 24815.21 |
| 6.53 | 7149920105 | 22417.63 |

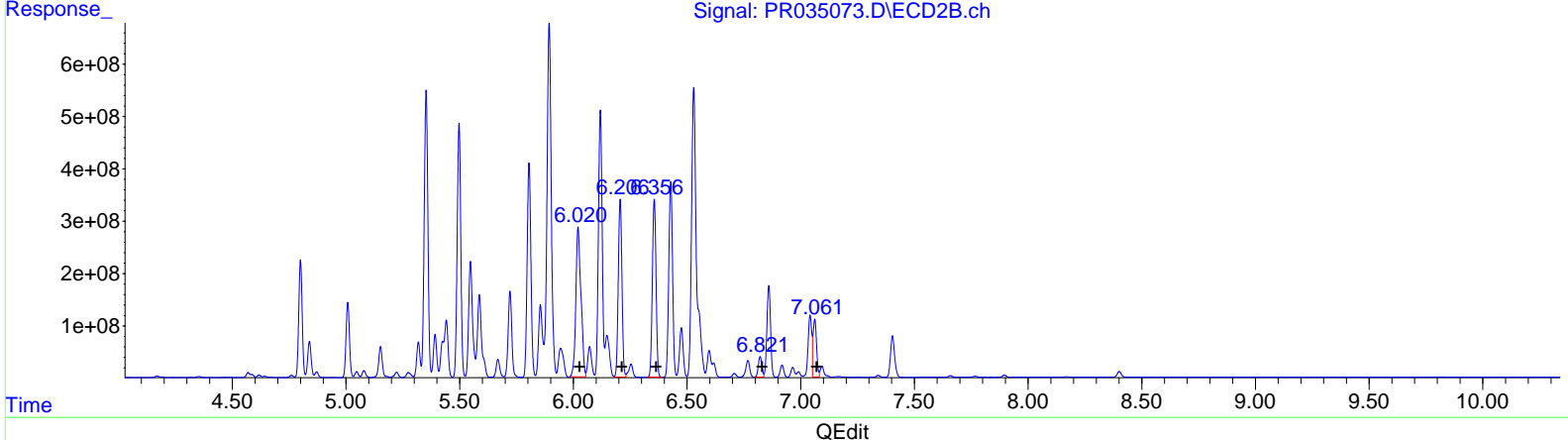
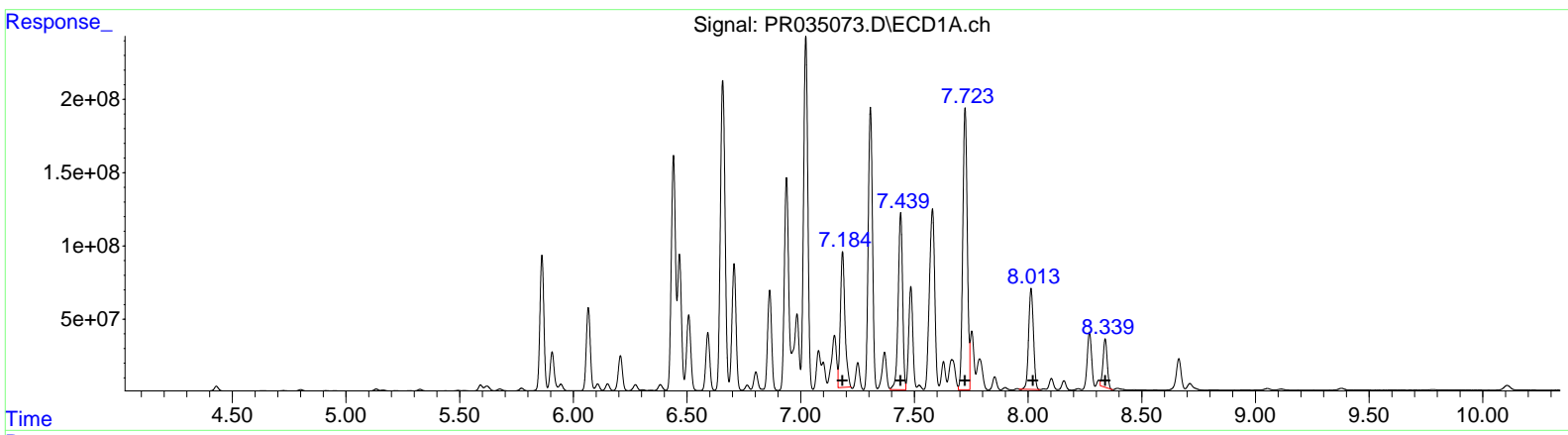
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035073.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:02
 Operator : SM\SJ
 Sample : J6428-17
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z3

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 7.18 | 1298839813 | 13816.27 |
| 7.44 | 1620986097 | 13961.84 |
| 7.72 | 2656175419 | 19032.99 |
| 8.01 | 1012043757 | 11718.41 |
| 8.34 | 416221903 | 2305.25 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 6.02 | 4457398837 | 20734.77 |
| 6.21 | 3815337278 | 14020.71 |
| 6.36 | 3838882554 | 15464.66 |
| 6.82 | 438551248 | 2564.77 |
| 7.06 | 1188524861 | 2457.43 |

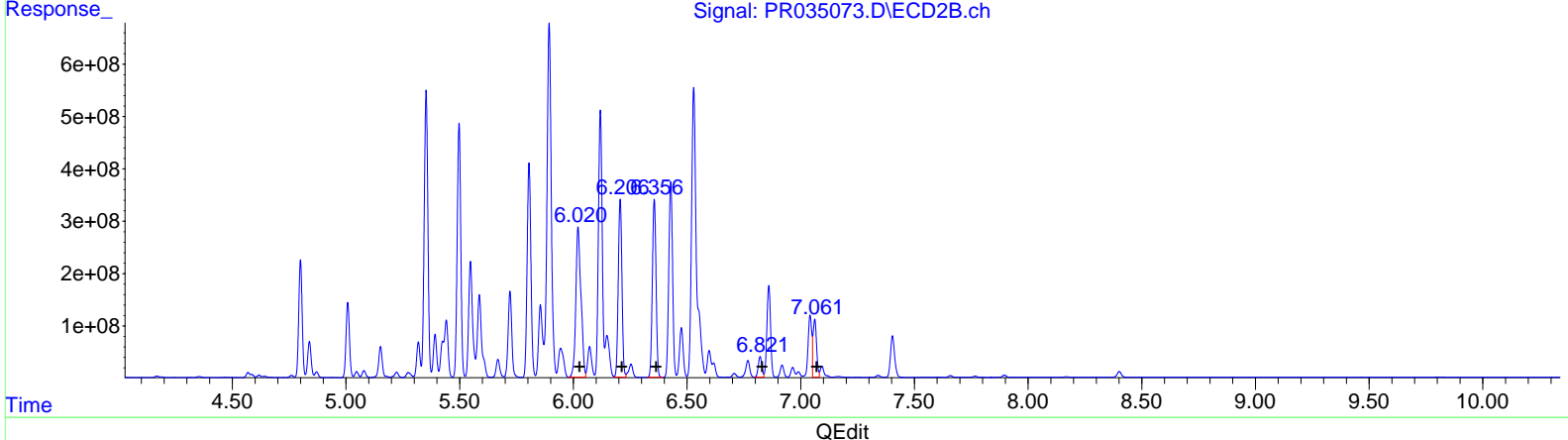
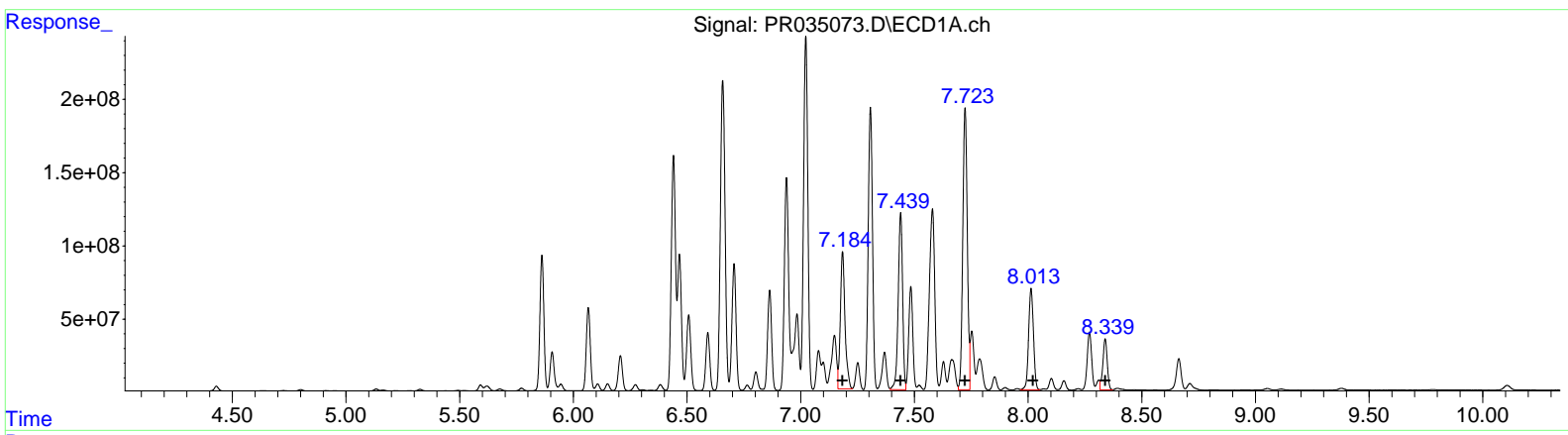
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035073.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:02
 Operator : SM\SJ
 Sample : J6428-17
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z3

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|------------|----------|
| 7.18 | 1338620027 | 14239.43 |
| 7.44 | 1620986097 | 13961.84 |
| 7.72 | 2656175419 | 19032.99 |
| 8.01 | 1025830470 | 11878.04 |
| 8.34 | 465867151 | 2580.21 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|------------|----------|
| 6.02 | 4493744587 | 20903.84 |
| 6.21 | 3815337278 | 14020.71 |
| 6.36 | 3838882554 | 15464.66 |
| 6.82 | 438551248 | 2564.77 |
| 7.06 | 1188524861 | 2457.43 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035073.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:02
 Operator : SM\SJ
 Sample : J6428-17
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z3

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

Sohil
 12/29/2018 12:17:42 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.430 | 3.514 | 39667472 | 78307913 | 20.394 | 22.463 |
| 2) SA Decachlor... | 10.107 | 8.401 | 61947755 | 135.4E6 | 31.511 | 30.794 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|------------|-------------|
| 26) L6 AR-1254-1 | 6.441 | 5.353 | 2065.1E6 | 6158.5E6 | 25275.525 | 25168.213 |
| 27) L6 AR-1254-2 | 6.657 | 5.497 | 3029.8E6 | 5315.1E6 | 23711.462 | 24989.727m |
| 28) L6 AR-1254-3 | 7.022 | 5.894 | 3125.4E6 | 8802.7E6 | 23155.642 | 24635.395 |
| 29) L6 AR-1254-4 | 7.307 | 6.119 | 2510.4E6 | 5861.1E6 | 23665.775 | 24815.214 |
| 30) L6 AR-1254-5 | 7.723 | 6.529 | 2656.2E6 | 7149.9E6 | 24790.855 | 22417.634m |
| 31) L7 AR-1260-1 | 7.184 | 6.020 | 1338.6E6 | 4493.7E6 | 14239.426m | 20903.841m# |
| 32) L7 AR-1260-2 | 7.440 | 6.206 | 1621.0E6 | 3815.3E6 | 13961.841 | 14020.709 |
| 33) L7 AR-1260-3 | 7.723 | 6.356 | 2656.2E6 | 3838.9E6 | 19032.988 | 15464.658 |
| 34) L7 AR-1260-4 | 8.013 | 6.822 | 1025.8E6 | 438.6E6 | 11878.044m | 2564.772 # |
| 35) L7 AR-1260-5 | 8.339 | 7.062 | 465.9E6 | 1188.5E6 | 2580.213m | 2457.430 |

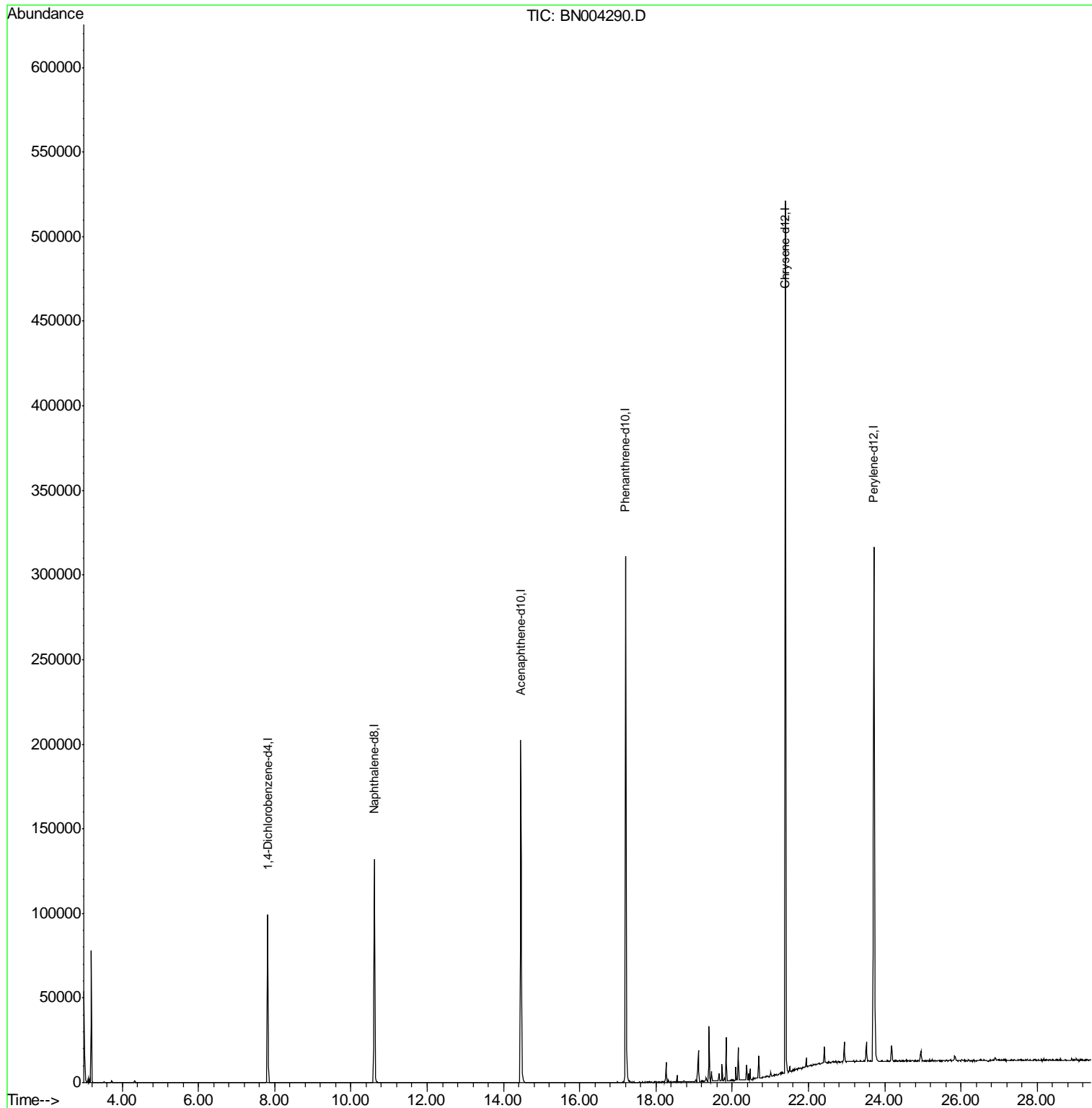
SJ
 12/28/18

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004290.D
Acq On : 29 Dec 2018 08:32
Operator : JU/SJ
Sample : J6428-17
Misc : GCMS Confirmation
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41Z3

Quant Time: Dec 30 23:14:27 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 28 03:12:04 2018
Response via : Initial Calibration



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004290.D
 Acq On : 29 Dec 2018 08:32
 Operator : JU/SJ
 Sample : J6428-17
 Misc : GCMS Confirmation
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Z3

Quant Time: Dec 30 23:14:27 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 29042 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 121850 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 75723 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 204622 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.39 | 240 | 240794 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 243797 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0 | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds Qvalue

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004290.D
 Acq On : 29 Dec 2018 08:32
 Operator : JU/SJ
 Sample : J6428-17
 Misc : GCMS Confirmation
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Z3

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 41 | rBB | 77913 | 87077 | 13.46% | 3.145% |
| 2 | 7.816 | 815 | 821 | 829 | rBB | 99239 | 151781 | 23.47% | 5.481% |
| 3 | 10.616 | 1290 | 1297 | 1313 | rBB | 132224 | 225599 | 34.88% | 8.147% |
| 4 | 14.457 | 1944 | 1950 | 1967 | rBB2 | 202292 | 330427 | 51.08% | 11.933% |
| 5 | 17.204 | 2411 | 2417 | 2430 | rBV2 | 311175 | 477266 | 73.79% | 17.236% |
| 6 | 18.263 | 2593 | 2597 | 2602 | rBV | 11521 | 13169 | 2.04% | 0.476% |
| 7 | 19.110 | 2733 | 2741 | 2746 | rBV2 | 18200 | 29817 | 4.61% | 1.077% |
| 8 | 19.392 | 2785 | 2789 | 2794 | rVB | 32304 | 35282 | 5.45% | 1.274% |
| 9 | 19.733 | 2843 | 2847 | 2850 | rVB | 9851 | 9593 | 1.48% | 0.346% |
| 10 | 19.839 | 2861 | 2865 | 2869 | rBV | 25407 | 27616 | 4.27% | 0.997% |
| 11 | 20.098 | 2906 | 2909 | 2913 | rBV | 8195 | 8314 | 1.29% | 0.300% |
| 12 | 20.157 | 2915 | 2919 | 2923 | rBV | 19350 | 20039 | 3.10% | 0.724% |
| 13 | 20.375 | 2953 | 2956 | 2960 | rBV | 8777 | 9200 | 1.42% | 0.332% |
| 14 | 20.698 | 3005 | 3011 | 3016 | rBV | 13368 | 17474 | 2.70% | 0.631% |
| 15 | 21.392 | 3124 | 3129 | 3142 | rBV | 515525 | 646819 | 100.00% | 23.359% |
| 16 | 22.416 | 3300 | 3303 | 3307 | rBV | 9602 | 11227 | 1.74% | 0.405% |
| 17 | 22.933 | 3387 | 3391 | 3395 | rVB | 11432 | 14839 | 2.29% | 0.536% |
| 18 | 23.516 | 3486 | 3490 | 3495 | rVB | 11498 | 16796 | 2.60% | 0.607% |
| 19 | 23.716 | 3516 | 3524 | 3542 | rVB | 303833 | 620409 | 95.92% | 22.405% |
| 20 | 24.174 | 3599 | 3602 | 3609 | rVB | 9433 | 16298 | 2.52% | 0.589% |

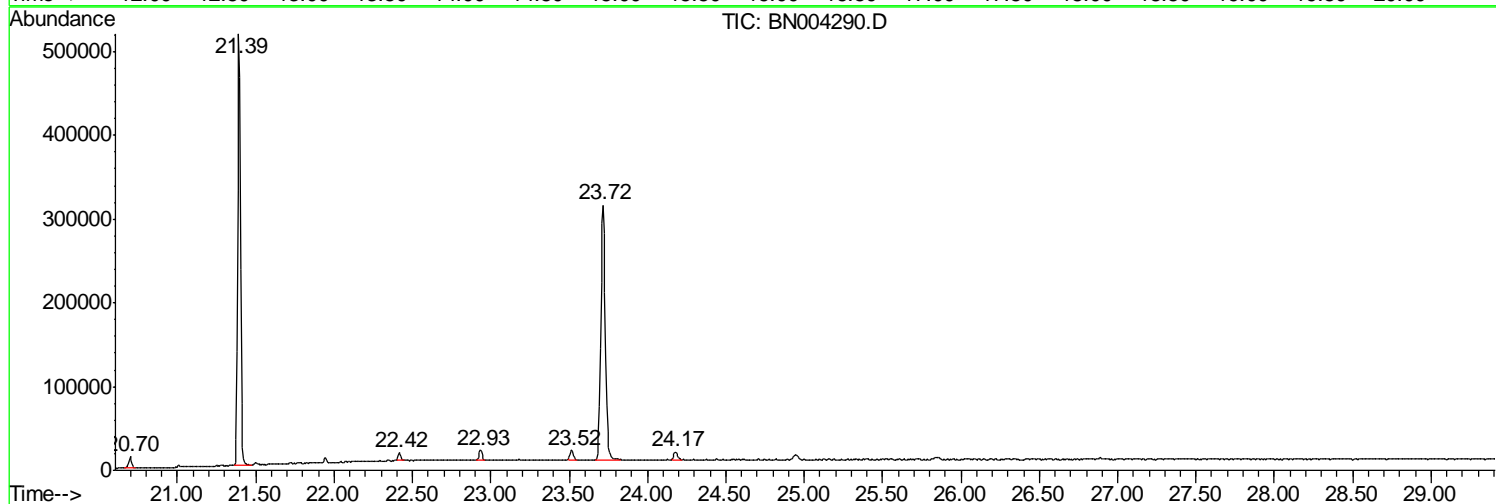
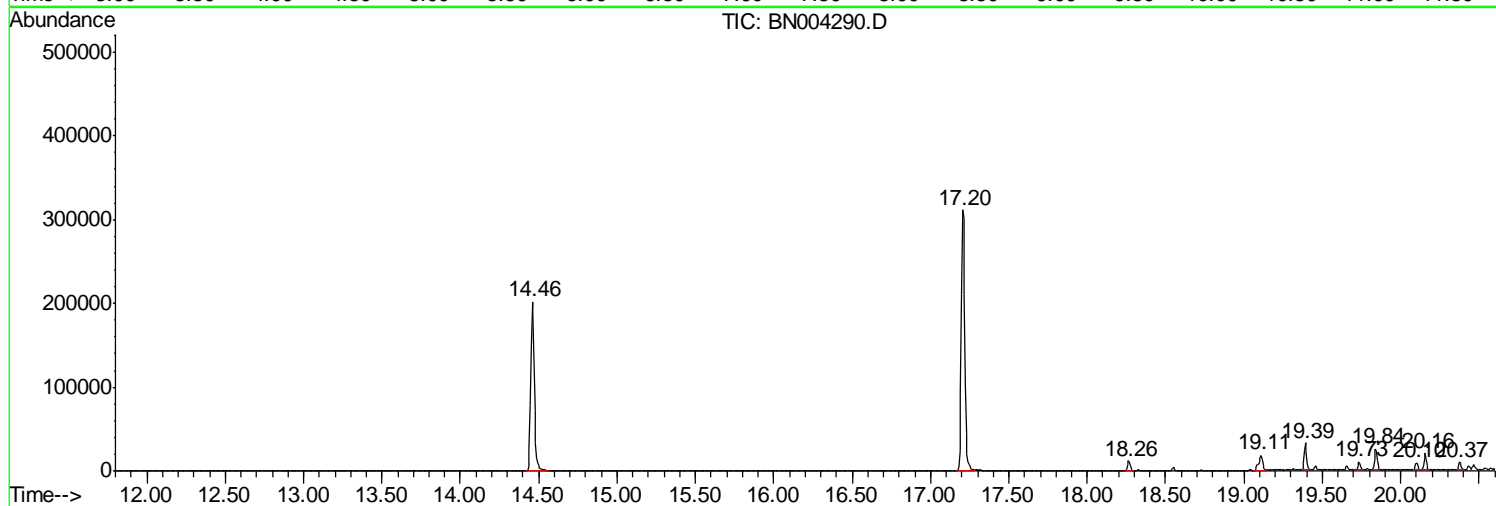
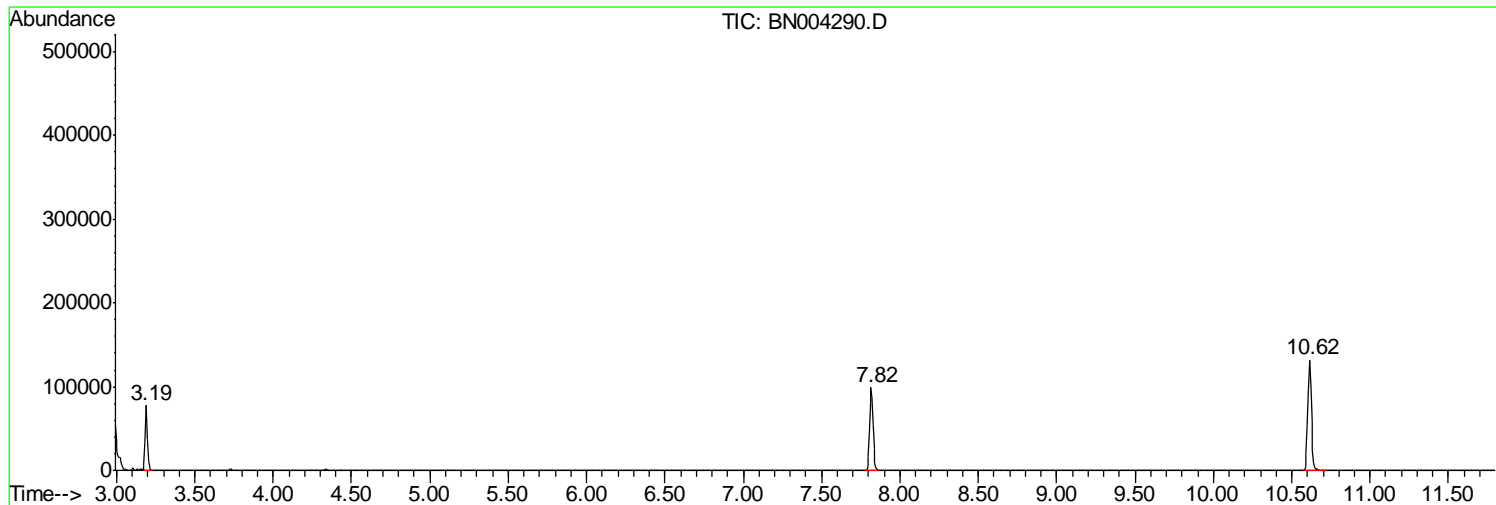
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Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004290.D
Acq On : 29 Dec 2018 08:32
Operator : JU/SJ
Sample : J6428-17
Misc : GCMS Confirmation
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41Z3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004290.D
 Acq On : 29 Dec 2018 08:32
 Operator : JU/SJ
 Sample : J6428-17
 Misc : GCMS Confirmation
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41Z3

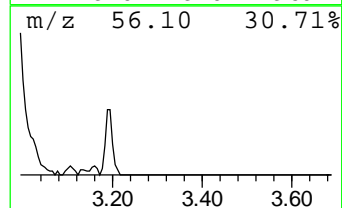
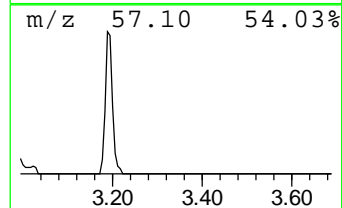
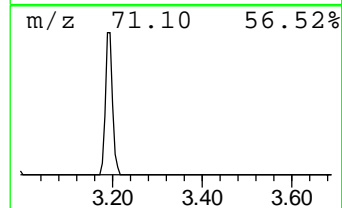
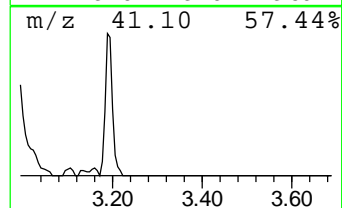
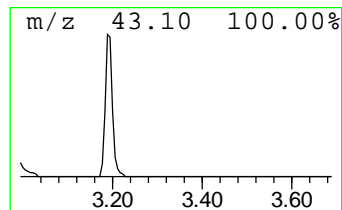
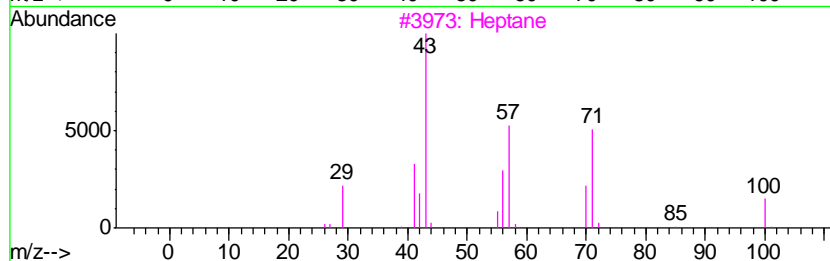
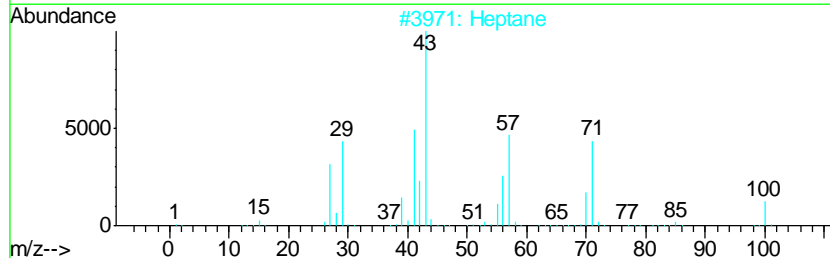
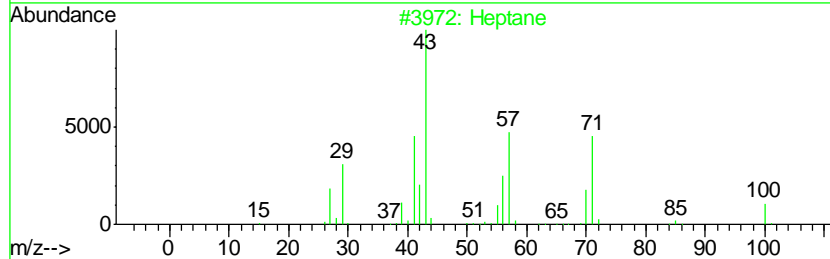
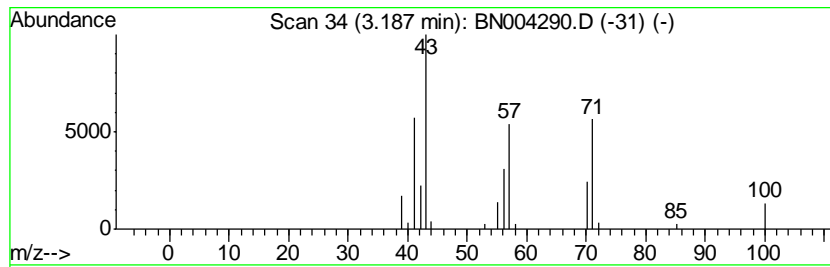
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 11.47 ng/ul | 87077 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004290.D
Acq On : 29 Dec 2018 08:32
Operator : JU/SJ
Sample : J6428-17
Misc : GCMS Confirmation
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41Z3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|------|---------|-------|----------|-----------------------|------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 11.5 | ng/ul | 87077 | 1 | 7.82 | 151781 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z3DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-17DL
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035076.D
 % Solids : 100 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 2.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 66 | U |
| 11104-28-2 | Aroclor-1221 | 66 | U |
| 11141-16-5 | Aroclor-1232 | 66 | U |
| 53469-21-9 | Aroclor-1242 | 66 | U |
| 12672-29-6 | Aroclor-1248 | 66 | U |
| 11097-69-1 | Aroclor-1254 | 8800 | ED |
| 11096-82-5 | Aroclor-1260 | 3800 | ED |
| 37324-23-5 | Aroclor-1262 | 66 | U |
| 11100-14-4 | Aroclor-1268 | 66 | U |

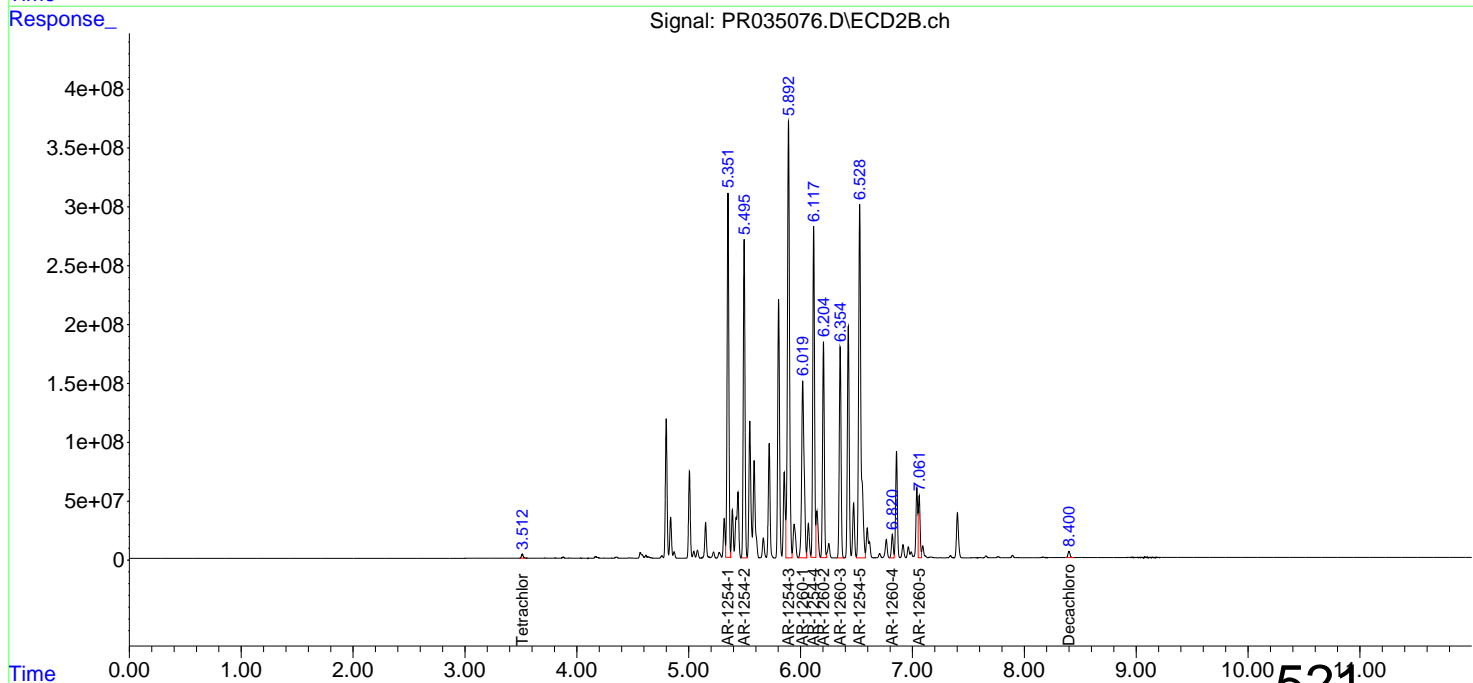
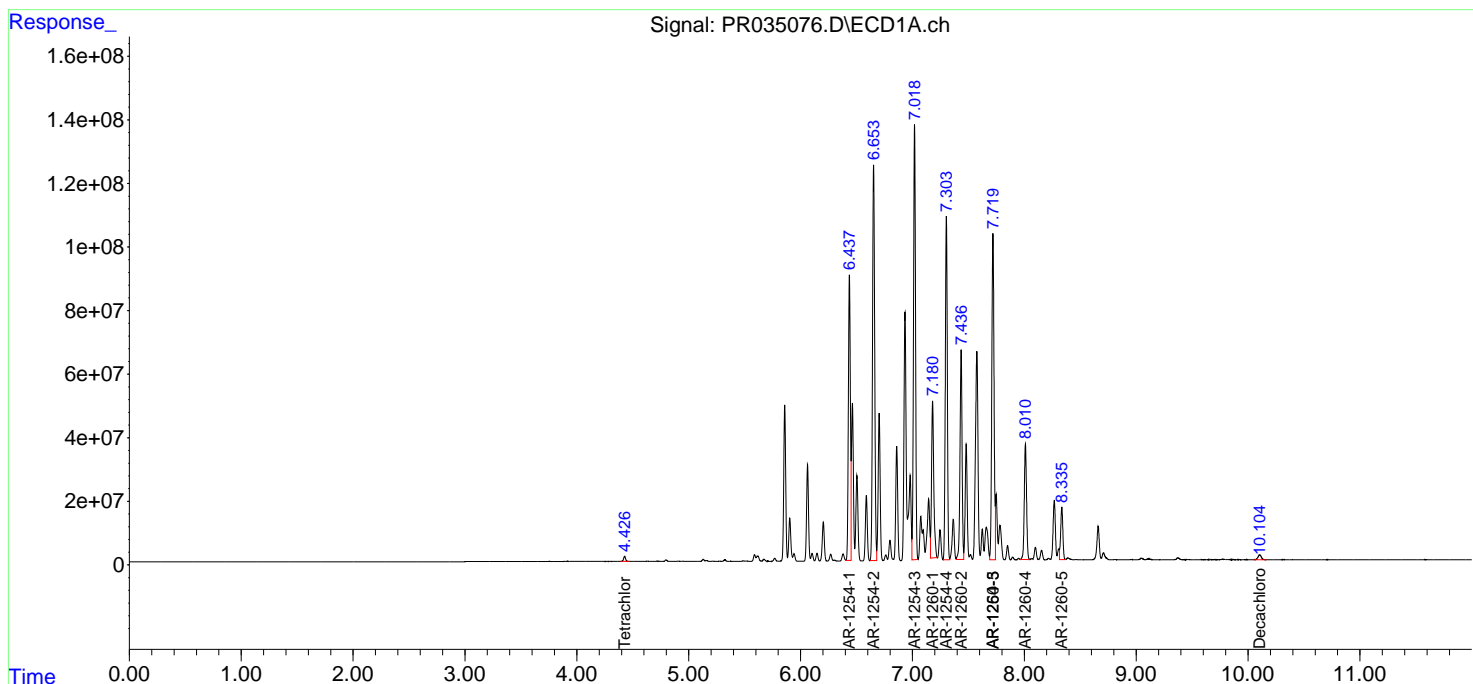
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:46
 Operator : SM\SJ
 Sample : J6428-17DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Z3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:46
 Operator : SM\SJ
 Sample : J6428-17DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z3DL

Manual Integrations
APPROVED

Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 20047211 | 39292058 | 10.307 | 11.271 |
| 2) SA Decachlor... | 10.104 | 8.400 | 31079784 | 67296669 | 15.809 | 15.306 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.437 | 5.351 | 1120.7E6 | 3350.9E6 | 13716.941m | 13694.457 |
| 27) L6 AR-1254-2 | 6.653 | 5.495 | 1673.4E6 | 2875.6E6 | 13096.487 | 13519.979m |
| 28) L6 AR-1254-3 | 7.019 | 5.892 | 1726.5E6 | 4809.2E6 | 12791.220 | 13459.127 |
| 29) L6 AR-1254-4 | 7.303 | 6.117 | 1356.2E6 | 3142.0E6 | 12784.868m | 13302.776 |
| 30) L6 AR-1254-5 | 7.720 | 6.529 | 1419.3E6 | 4415.4E6 | 13246.501 | 13844.052 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 682.3E6 | 2321.7E6 | 7258.296 | 10799.796m# |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 841.5E6 | 1992.8E6 | 7247.947 | 7323.082 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 1419.3E6 | 1988.7E6 | 10169.899 | 8011.392 |
| 34) L7 AR-1260-4 | 8.010 | 6.821 | 510.5E6 | 215.6E6 | 5911.233 | 1260.599 # |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 225.7E6 | 578.0E6 | 1249.956m | 1195.097 |

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

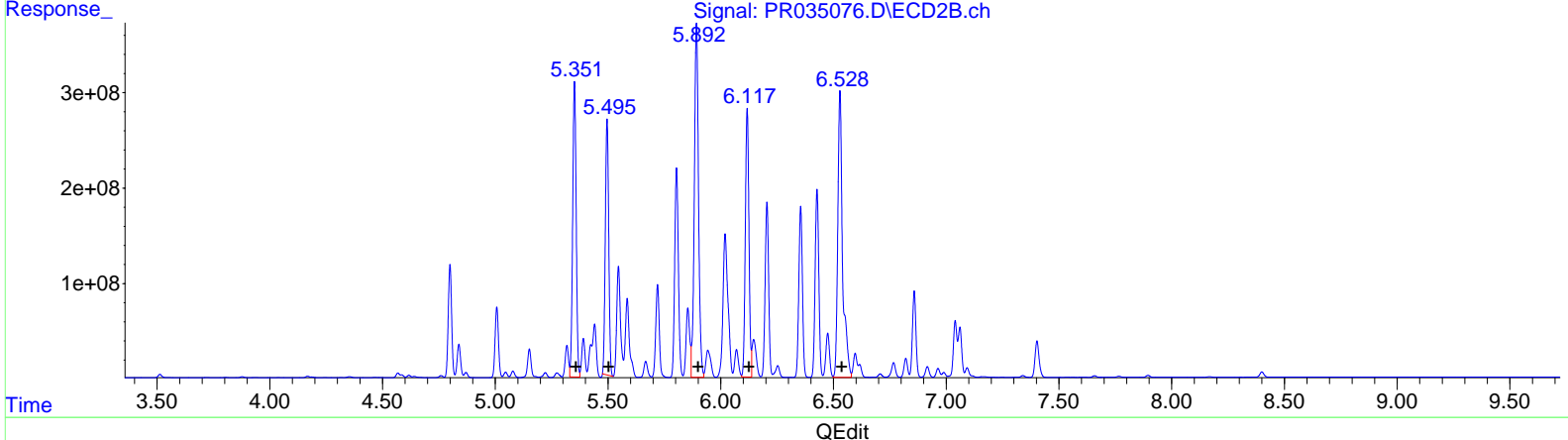
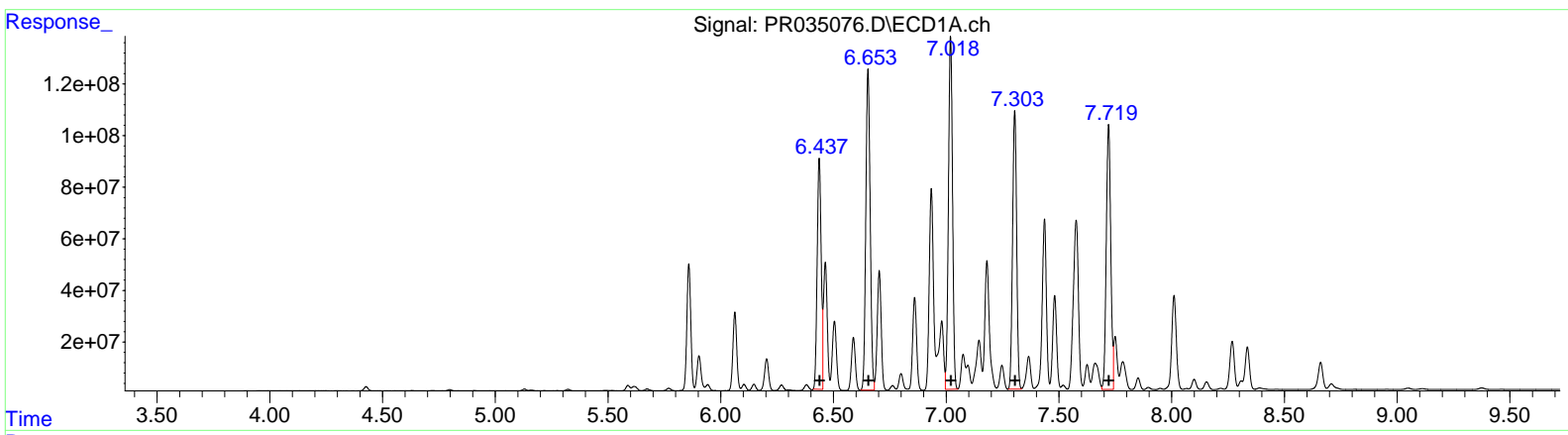
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:46
 Operator : SM\SJ
 Sample : J6428-17DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z3DL

Manual Integrations
APPROVED
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 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 6.44 | 1113568824 | 13629.14 |
| 6.65 | 1673424930 | 13096.49 |
| 7.02 | 1726457143 | 12791.22 |
| 7.30 | 1350769450 | 12733.75 |
| 7.72 | 1419274540 | 13246.50 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.35 | 3350946967 | 13694.46 |
| 5.50 | 2806200854 | 13193.88 |
| 5.89 | 4809192223 | 13459.13 |
| 6.12 | 3141987452 | 13302.78 |
| 6.53 | 4415446656 | 13844.05 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:46
 Operator : SM\SJ
 Sample : J6428-17DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

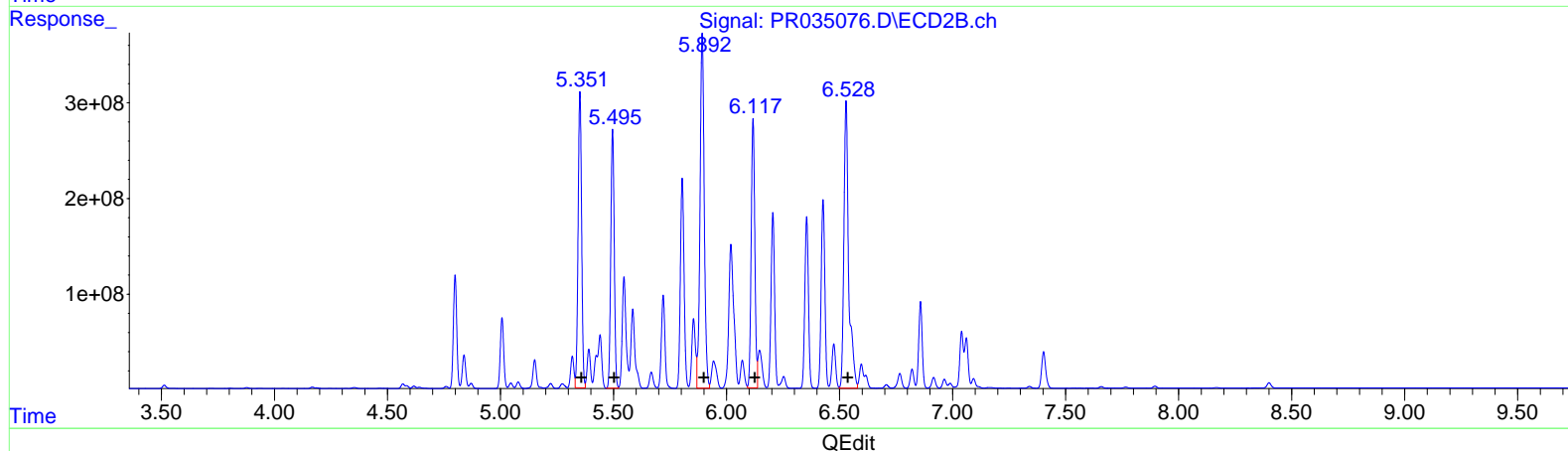
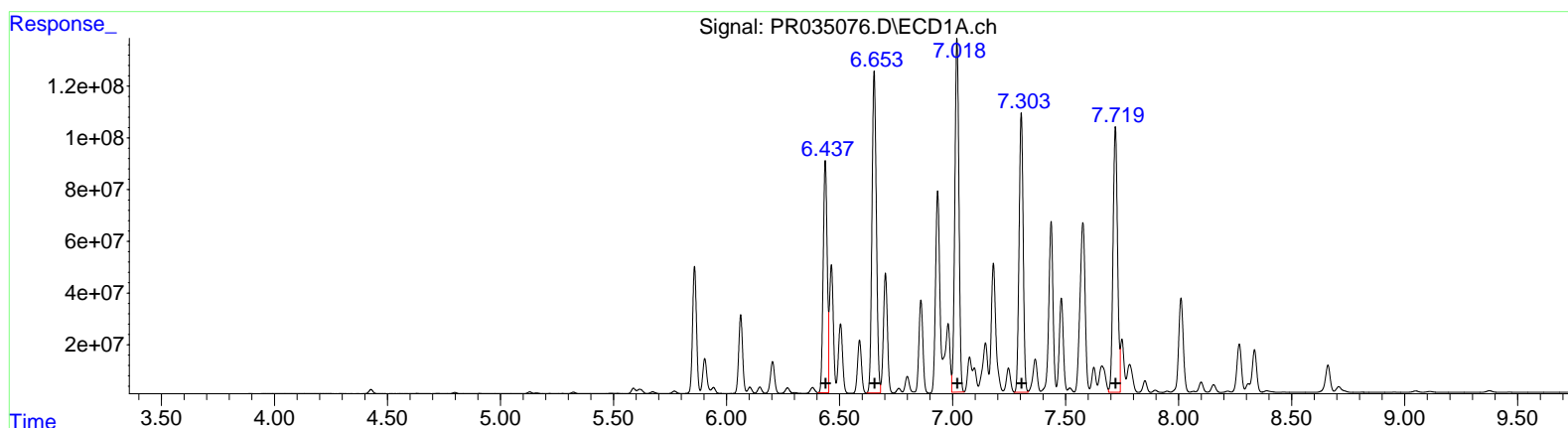
Instrument :
 ECD_R
 ClientSampled :
 A41Z3DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 6.44 | 1120743047 | 13716.94 |
| 6.65 | 1673424930 | 13096.49 |
| 7.02 | 1726457143 | 12791.22 |
| 7.30 | 1356191587 | 12784.87 |
| 7.72 | 1419274540 | 13246.50 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.35 | 3350946967 | 13694.46 |
| 5.50 | 2875557842 | 13519.98 |
| 5.89 | 4809192223 | 13459.13 |
| 6.12 | 3141987452 | 13302.78 |
| 6.53 | 4415446656 | 13844.05 |

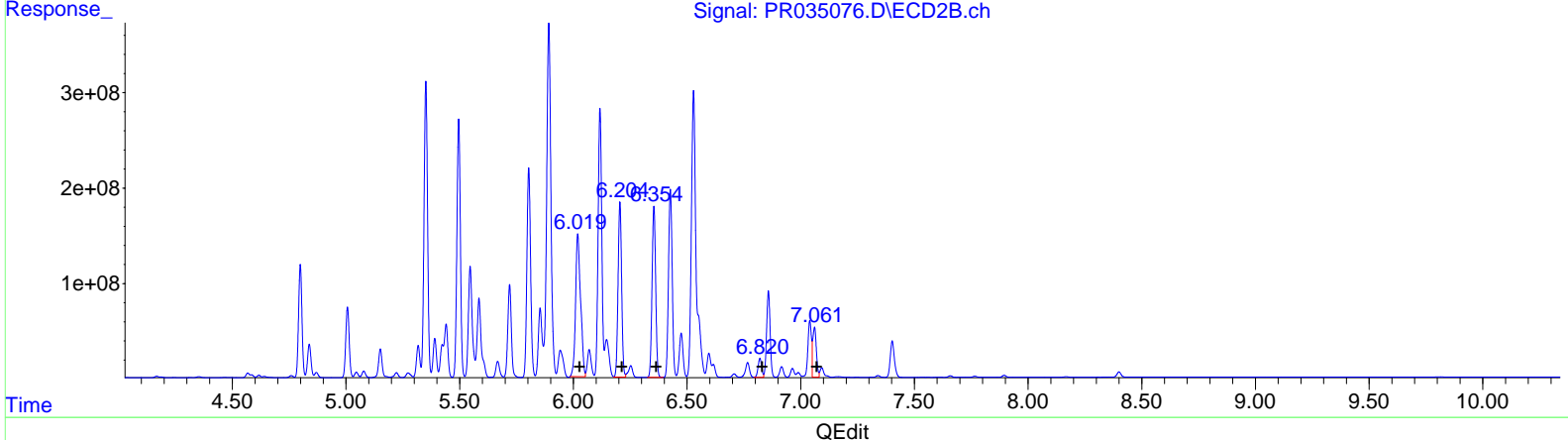
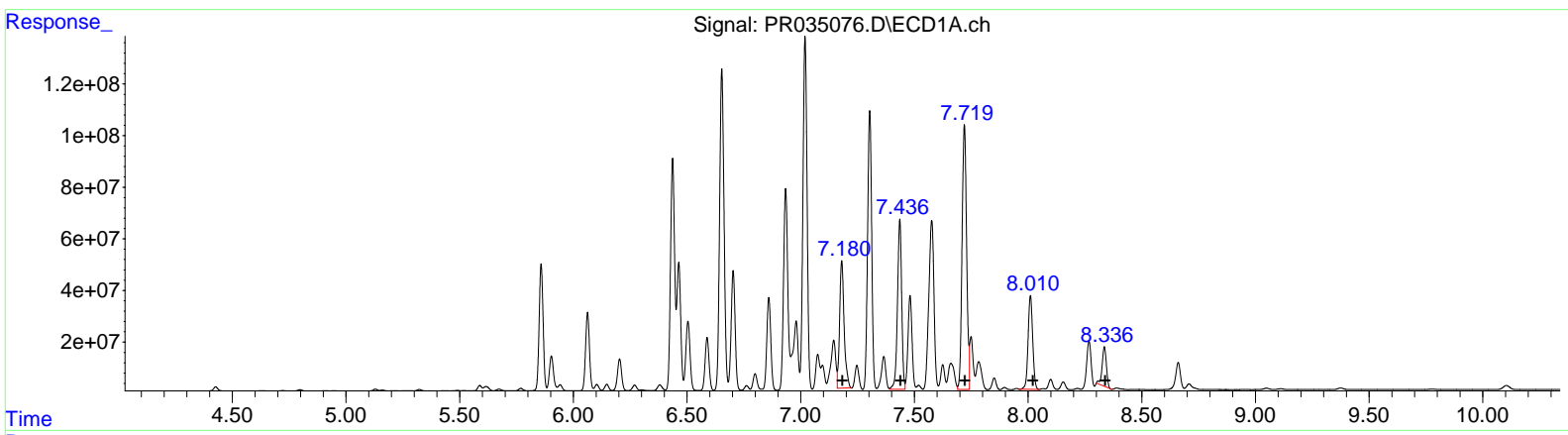
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 Data File : PR035076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:46
 Operator : SM\SJ
 Sample : J6428-17DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 7.18 | 682337913 | 7258.30 |
| 7.44 | 841495083 | 7247.95 |
| 7.72 | 1419274540 | 10169.90 |
| 8.01 | 510515234 | 5911.23 |
| 8.34 | 199109809 | 1102.77 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 6.02 | 2293089648 | 10666.91 |
| 6.21 | 1992768725 | 7323.08 |
| 6.35 | 1988714650 | 8011.39 |
| 6.82 | 215550238 | 1260.60 |
| 7.06 | 578003070 | 1195.10 |

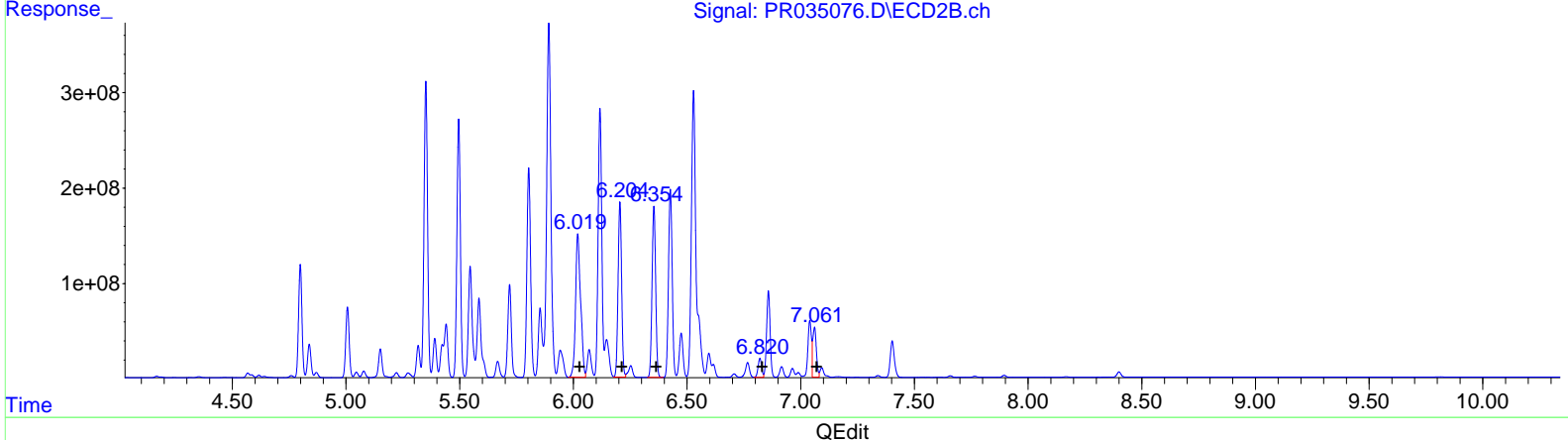
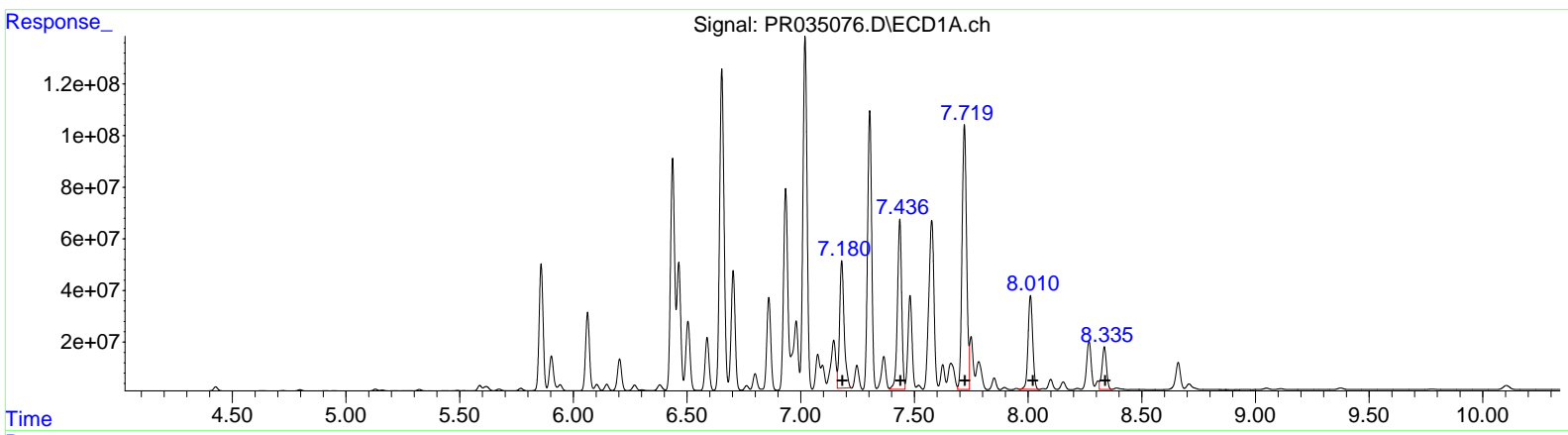
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:46
 Operator : SM\SJ
 Sample : J6428-17DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 7.18 | 682337913 | 7258.30 |
| 7.44 | 841495083 | 7247.95 |
| 7.72 | 1419274540 | 10169.90 |
| 8.01 | 510515234 | 5911.23 |
| 8.34 | 225684301 | 1249.96 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 6.02 | 2321655848 | 10799.80 |
| 6.21 | 1992768725 | 7323.08 |
| 6.35 | 1988714650 | 8011.39 |
| 6.82 | 215550238 | 1260.60 |
| 7.06 | 578003070 | 1195.10 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035076.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:46
 Operator : SM\SJ

Sample : J6428-17DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Z3DL

Manual Integrations
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 12/29/2018 12:17:42 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.427 | 3.513 | 20047211 | 39292058 | 10.307 | 11.271 |
| 2) SA Decachlor... | 10.104 | 8.400 | 31079784 | 67296669 | 15.809 | 15.306 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|------------|-------------|
| 26) L6 AR-1254-1 | 6.437 | 5.351 | 1120.7E6 | 3350.9E6 | 13716.941m | 13694.457 |
| 27) L6 AR-1254-2 | 6.653 | 5.495 | 1673.4E6 | 2875.6E6 | 13096.487 | 13519.979m |
| 28) L6 AR-1254-3 | 7.019 | 5.892 | 1726.5E6 | 4809.2E6 | 12791.220 | 13459.127 |
| 29) L6 AR-1254-4 | 7.303 | 6.117 | 1356.2E6 | 3142.0E6 | 12784.868m | 13302.776 |
| 30) L6 AR-1254-5 | 7.720 | 6.529 | 1419.3E6 | 4415.4E6 | 13246.501 | 13844.052 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 682.3E6 | 2321.7E6 | 7258.296 | 10799.796m# |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 841.5E6 | 1992.8E6 | 7247.947 | 7323.082 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 1419.3E6 | 1988.7E6 | 10169.899 | 8011.392 |
| 34) L7 AR-1260-4 | 8.010 | 6.821 | 510.5E6 | 215.6E6 | 5911.233 | 1260.599 # |
| 35) L7 AR-1260-5 | 8.335 | 7.061 | 225.7E6 | 578.0E6 | 1249.956m | 1195.097 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z3DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-17DL2
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035077.D
 % Solids : 100 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 25.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 830 | U |
| 11104-28-2 | Aroclor-1221 | 830 | U |
| 11141-16-5 | Aroclor-1232 | 830 | U |
| 53469-21-9 | Aroclor-1242 | 830 | U |
| 12672-29-6 | Aroclor-1248 | 830 | U |
| 11097-69-1 | Aroclor-1254 | 11000 | D |
| 11096-82-5 | Aroclor-1260 | 4500 | D |
| 37324-23-5 | Aroclor-1262 | 830 | U |
| 11100-14-4 | Aroclor-1268 | 830 | U |

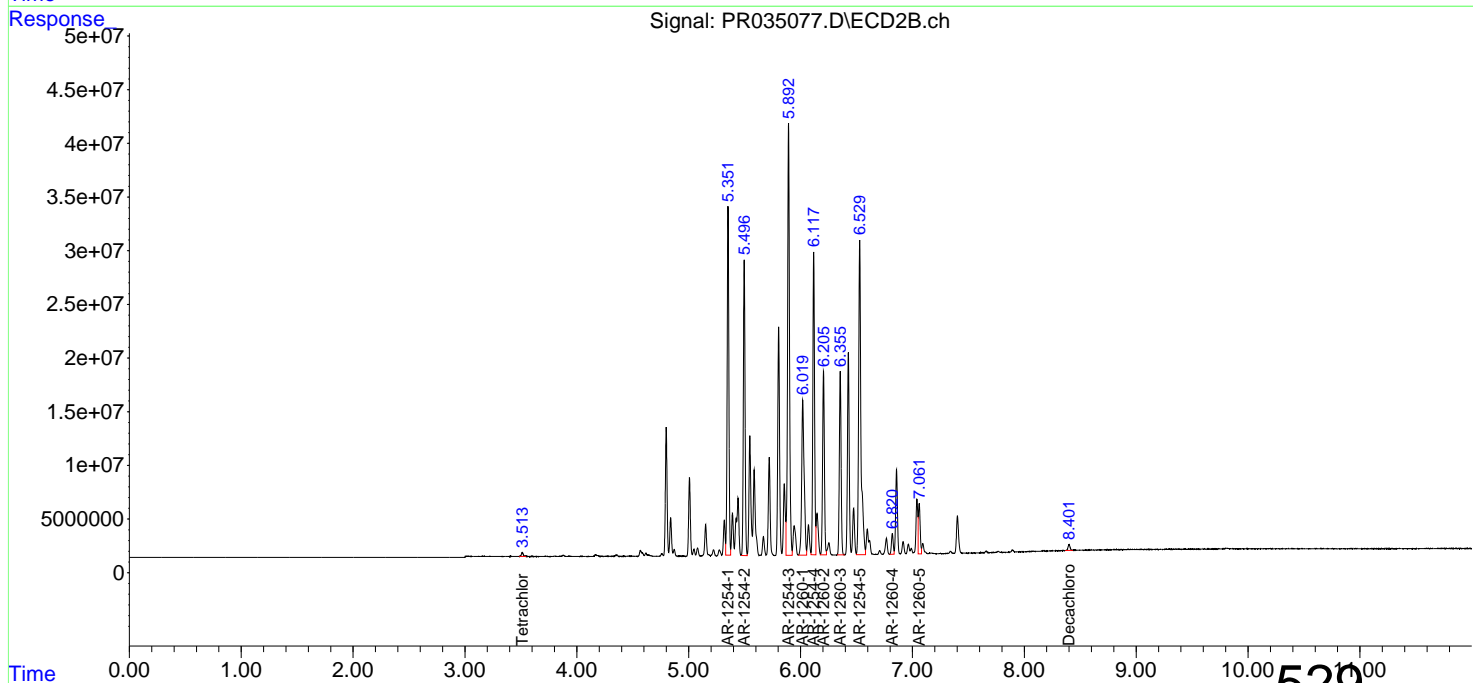
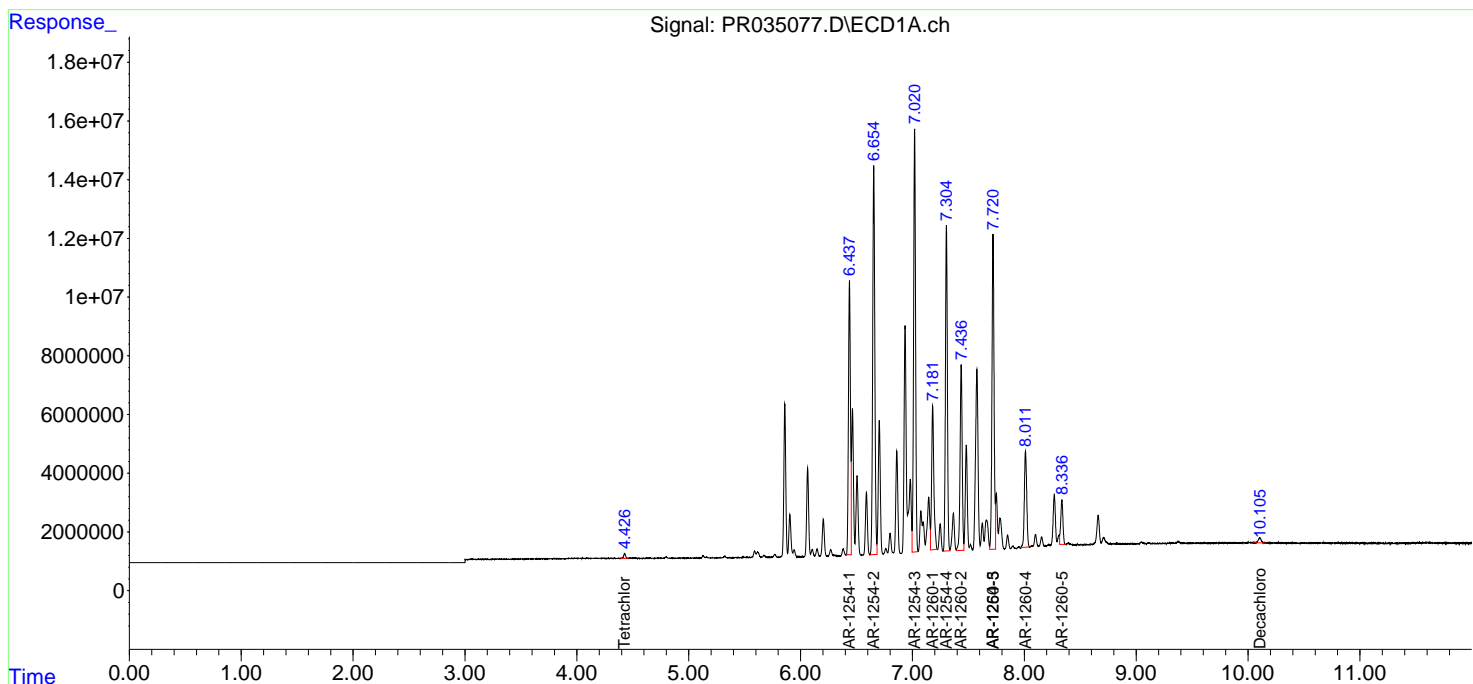
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:00
 Operator : SM\SJ
 Sample : J6428-17DL2 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Z3DL2

Manual Integrations
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 Sohil
 12/29/2018 12:17:44 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:27 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:00
 Operator : SM\SJ
 Sample : J6428-17DL2 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41Z3DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:44 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:27 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 2009849 | 4449361 | 1.033 | 1.276 |
| 2) SA Decachlor... | 10.105 | 8.400 | 3091514 | 6838340 | 1.573 | 1.555 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.437 | 5.352 | 114.7E6 | 342.3E6 | 1403.851 | 1398.751 |
| 27) L6 AR-1254-2 | 6.654 | 5.496 | 175.0E6 | 288.9E6 | 1369.524 | 1358.376m |
| 28) L6 AR-1254-3 | 7.020 | 5.893 | 175.9E6 | 480.4E6 | 1303.348 | 1344.559 |
| 29) L6 AR-1254-4 | 7.304 | 6.117 | 135.2E6 | 305.6E6 | 1274.190 | 1293.681 |
| 30) L6 AR-1254-5 | 7.721 | 6.529 | 138.0E6 | 417.9E6 | 1288.184 | 1310.349 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 67900073 | 221.1E6 | 722.280 | 1028.339m# |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 82794808 | 191.0E6 | 713.126 | 702.009 |
| 33) L7 AR-1260-3 | 7.721 | 6.355 | 138.0E6 | 186.3E6 | 988.993 | 750.649 |
| 34) L7 AR-1260-4 | 8.011 | 6.821 | 48037102 | 21300870 | 556.219 | 124.574 # |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 20736302 | 52213297 | 114.848m | 107.958 |

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

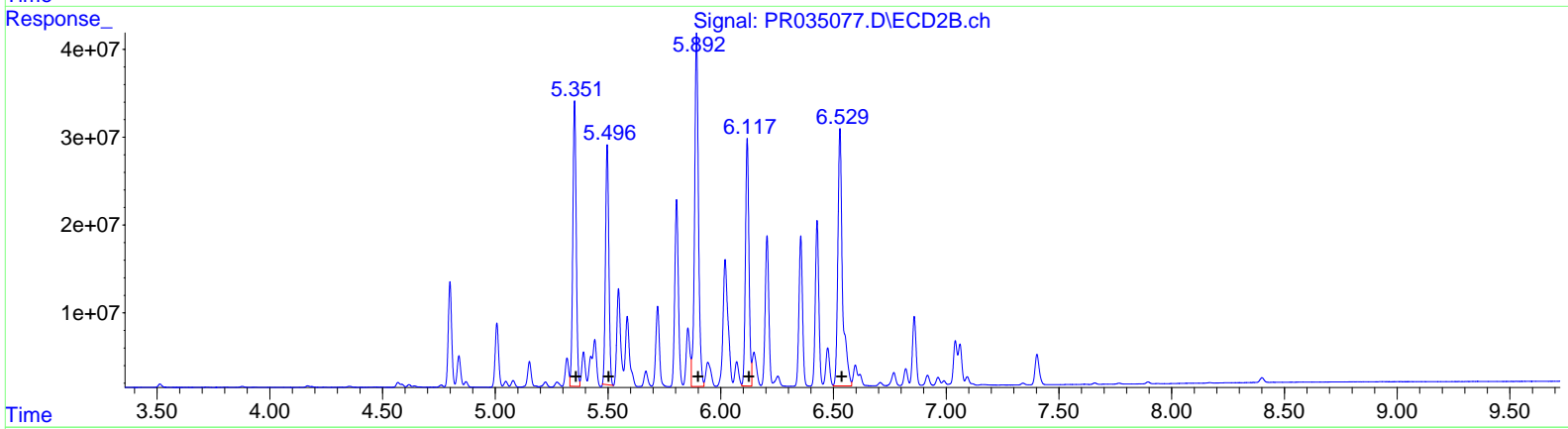
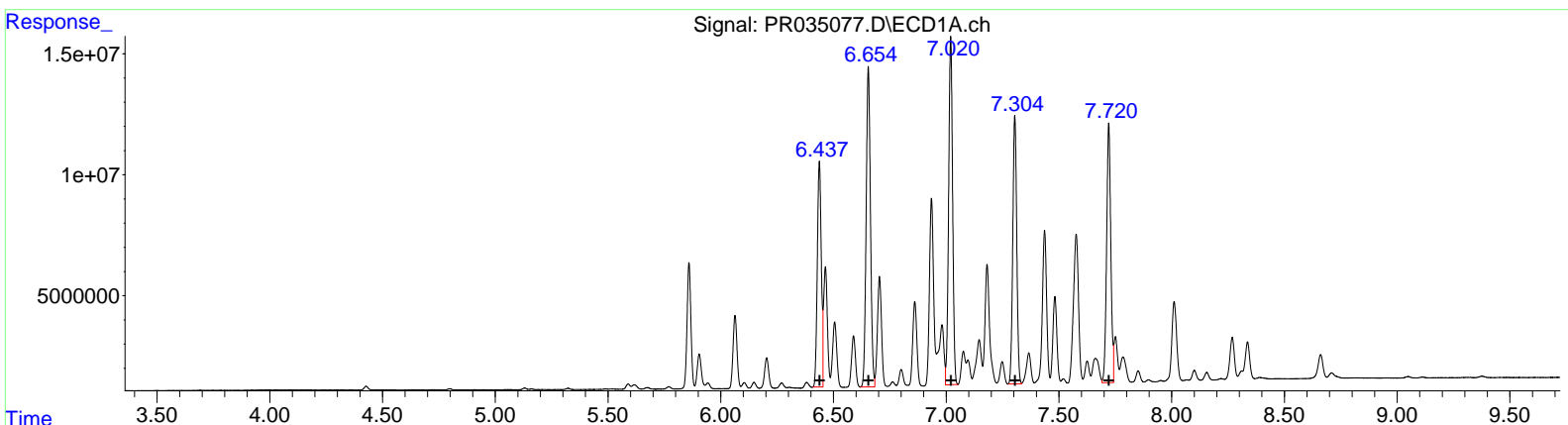
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:00
 Operator : SM\SJ
 Sample : J6428-17DL2 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z3DL2

Manual Integrations
APPROVED
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 12/29/2018 12:17:44 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:27 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.44 | 114701713 | 1403.85 |
| 6.65 | 174993117 | 1369.52 |
| 7.02 | 175915567 | 1303.35 |
| 7.30 | 135163349 | 1274.19 |
| 7.72 | 138020375 | 1288.18 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.35 | 342265458 | 1398.75 |
| 5.50 | 282577397 | 1328.59 |
| 5.89 | 480435380 | 1344.56 |
| 6.12 | 305555051 | 1293.68 |
| 6.53 | 417925187 | 1310.35 |

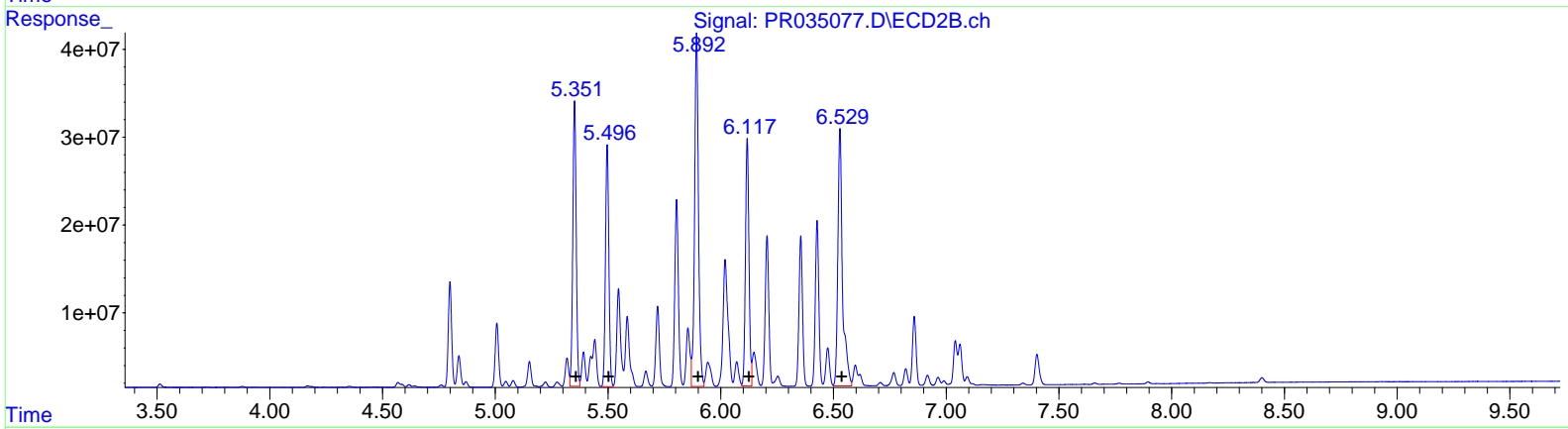
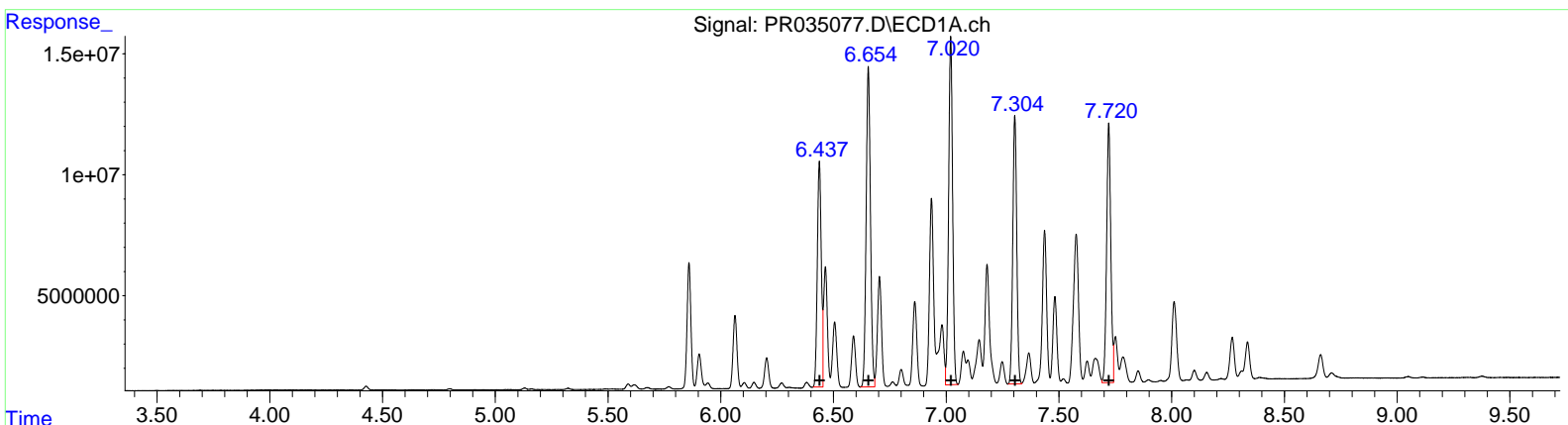
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:00
 Operator : SM\SJ
 Sample : J6428-17DL2 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z3DL2

Manual Integrations
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 12/29/2018 12:17:44 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:27 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.44 | 114701713 | 1403.85 |
| 6.65 | 174993117 | 1369.52 |
| 7.02 | 175915567 | 1303.35 |
| 7.30 | 135163349 | 1274.19 |
| 7.72 | 138020375 | 1288.18 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.35 | 342265458 | 1398.75 |
| 5.50 | 288912329 | 1358.38 |
| 5.89 | 480435380 | 1344.56 |
| 6.12 | 305555051 | 1293.68 |
| 6.53 | 417925187 | 1310.35 |

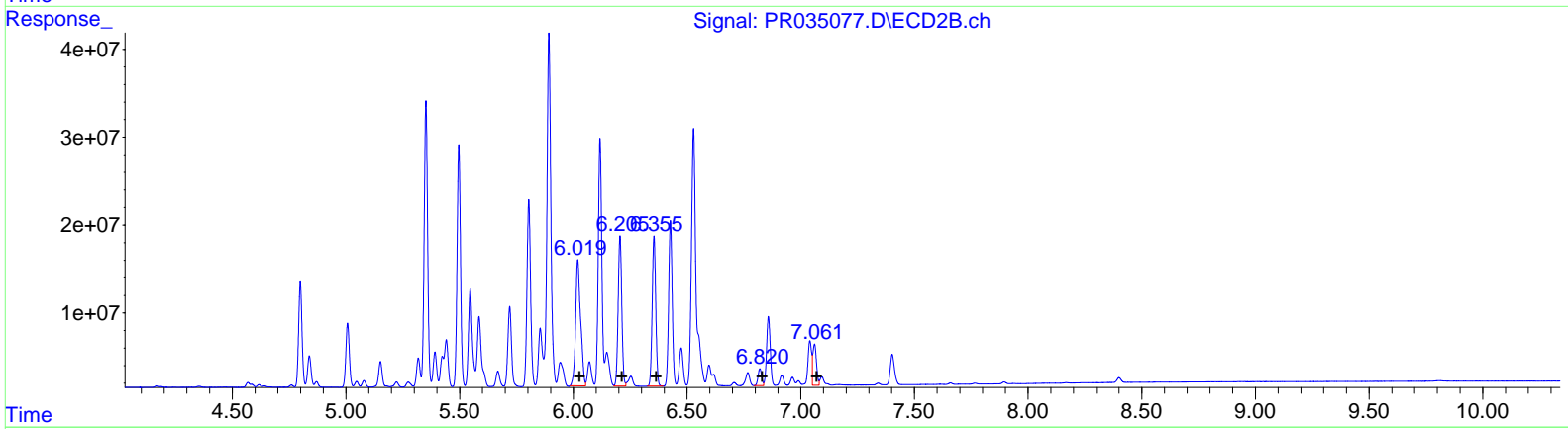
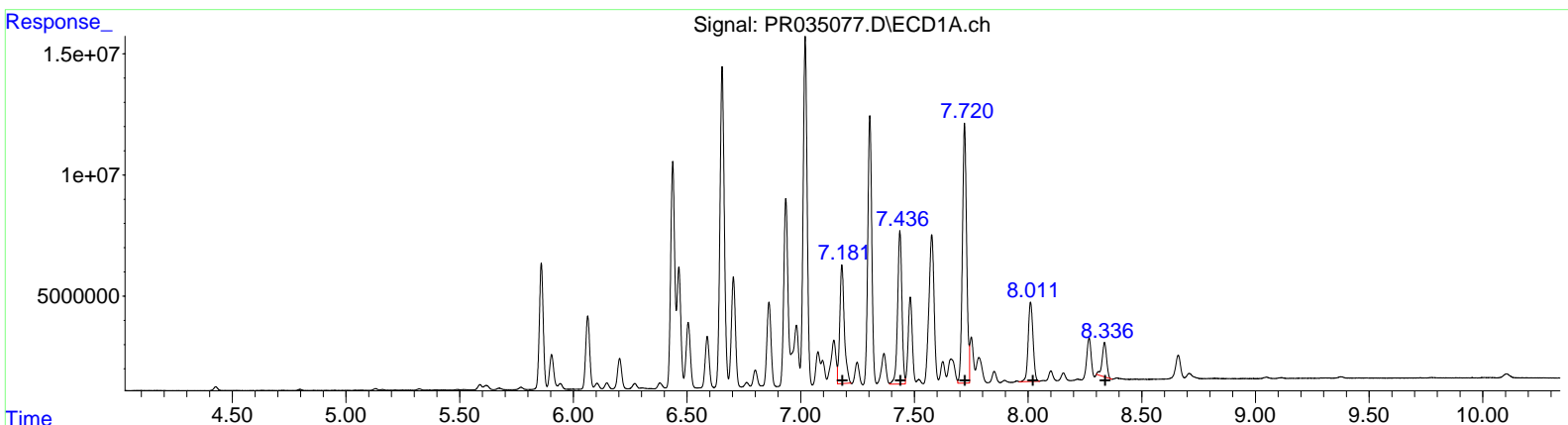
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:00
 Operator : SM\SJ
 Sample : J6428-17DL2 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z3DL2

Manual Integrations
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 12/29/2018 12:17:44 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:27 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|-----------|--------|
| R.T. | Response | Conc |
| 7.18 | 67900073 | 722.28 |
| 7.44 | 82794808 | 713.13 |
| 7.72 | 138020375 | 988.99 |
| 8.01 | 48037102 | 556.22 |
| 8.34 | 19325340 | 107.03 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.02 | 218504895 | 1016.43 |
| 6.21 | 191031702 | 702.01 |
| 6.35 | 186338094 | 750.65 |
| 6.82 | 21300870 | 124.57 |
| 7.06 | 52213297 | 107.96 |

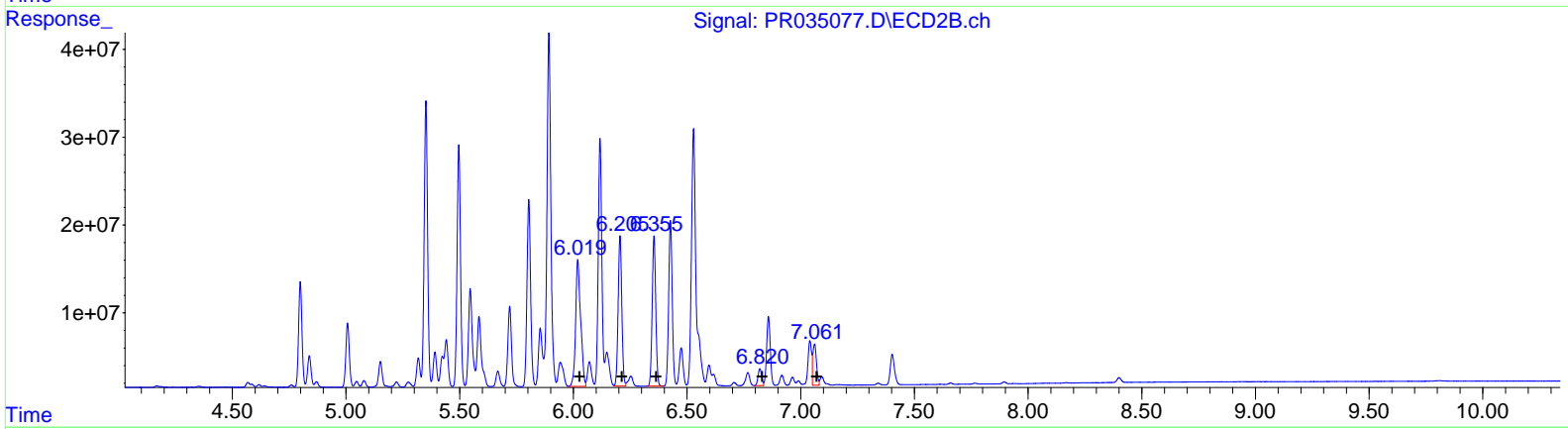
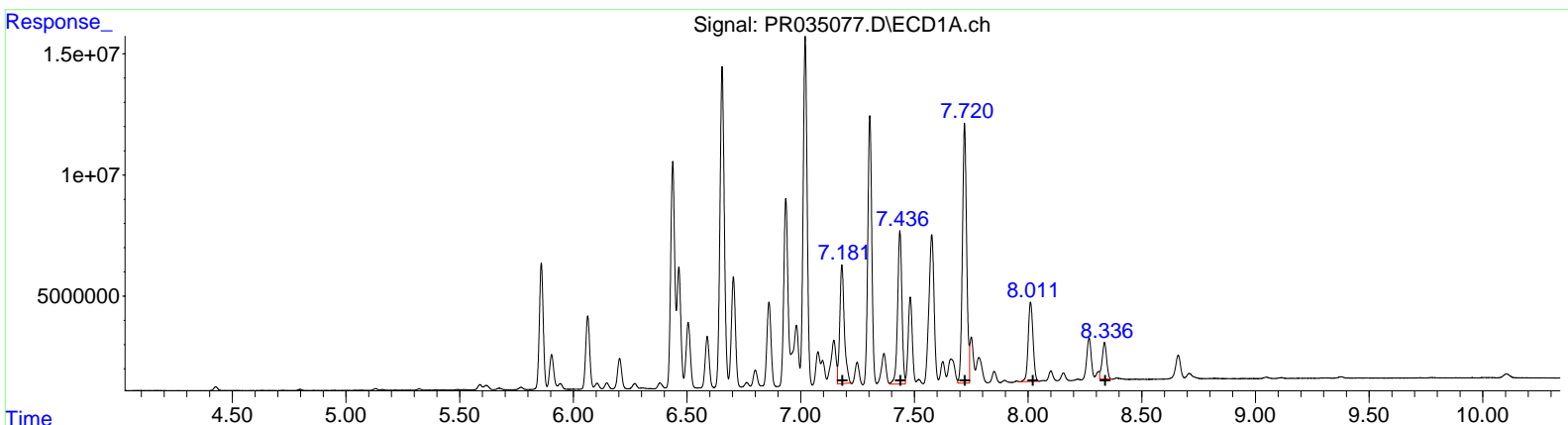
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:00
 Operator : SM\SJ
 Sample : J6428-17DL2 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z3DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:44 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:27 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 7.18 | 67900073 | 722.28 |
| 7.44 | 82794808 | 713.13 |
| 7.72 | 138020375 | 988.99 |
| 8.01 | 48037102 | 556.22 |
| 8.34 | 20736302 | 114.85 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 221064219 | 1028.34 |
| 6.21 | 191031702 | 702.01 |
| 6.35 | 186338094 | 750.65 |
| 6.82 | 21300870 | 124.57 |
| 7.06 | 52213297 | 107.96 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035077.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:00
 Operator : SM\SJ

Sample : J6428-17DL2 25X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Z3DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:10:27 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:44 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 2009849 | 4449361 | 1.033 | 1.276 |
| 2) SA Decachlor... | 10.105 | 8.400 | 3091514 | 6838340 | 1.573 | 1.555 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.437 | 5.352 | 114.7E6 | 342.3E6 | 1403.851 | 1398.751 |
| 27) L6 AR-1254-2 | 6.654 | 5.496 | 175.0E6 | 288.9E6 | 1369.524 | 1358.376m |
| 28) L6 AR-1254-3 | 7.020 | 5.893 | 175.9E6 | 480.4E6 | 1303.348 | 1344.559 |
| 29) L6 AR-1254-4 | 7.304 | 6.117 | 135.2E6 | 305.6E6 | 1274.190 | 1293.681 |
| 30) L6 AR-1254-5 | 7.721 | 6.529 | 138.0E6 | 417.9E6 | 1288.184 | 1310.349 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 67900073 | 221.1E6 | 722.280 | 1028.339m# |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 82794808 | 191.0E6 | 713.126 | 702.009 |
| 33) L7 AR-1260-3 | 7.721 | 6.355 | 138.0E6 | 186.3E6 | 988.993 | 750.649 |
| 34) L7 AR-1260-4 | 8.011 | 6.821 | 48037102 | 21300870 | 556.219 | 124.574 # |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 20736302 | 52213297 | 114.848m | 107.958 |

SJ
 12/28/18

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

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|-------|-------|-------|-------|-------|-----------|-------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1016 | 1 | 5.60 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1016 | 2 | 5.62 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.54 | 5.68 |
| Aroclor-1016 | 3 | 5.68 | 5.68 | 5.68 | 5.67 | 5.67 | 5.68 | 5.61 | 5.75 |
| Aroclor-1016 | 4 | 5.78 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.70 | 5.84 |
| Aroclor-1016 | 5 | 6.07 | 6.07 | 6.07 | 6.07 | 6.06 | 6.07 | 6.00 | 6.14 |
| Aroclor-1260 | 1 | 7.19 | 7.18 | 7.18 | 7.18 | 7.18 | 7.19 | 7.12 | 7.26 |
| Aroclor-1260 | 2 | 7.45 | 7.44 | 7.44 | 7.44 | 7.44 | 7.44 | 7.37 | 7.51 |
| Aroclor-1260 | 3 | 7.73 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.65 | 7.79 |
| Aroclor-1260 | 4 | 8.03 | 8.02 | 8.02 | 8.02 | 8.02 | 8.02 | 7.95 | 8.09 |
| Aroclor-1260 | 5 | 8.35 | 8.34 | 8.34 | 8.34 | 8.34 | 8.34 | 8.27 | 8.41 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.13 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1242 | 1 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1242 | 2 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.54 | 5.68 |
| Aroclor-1242 | 3 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.60 | 5.74 |
| Aroclor-1242 | 4 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.70 | 5.84 |
| Aroclor-1242 | 5 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.43 | 6.57 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1248 | 1 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1248 | 2 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.79 | 5.93 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|-------|-------|-------|-------|-------|-----------|-------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1248 | 3 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 5.99 | 6.13 |
| Aroclor-1248 | 4 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.40 | 6.54 |
| Aroclor-1248 | 5 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.43 | 6.57 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1254 | 1 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.37 | 6.51 |
| Aroclor-1254 | 2 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.59 | 6.73 |
| Aroclor-1254 | 3 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.95 | 7.09 |
| Aroclor-1254 | 4 | 7.31 | 7.31 | 7.31 | 7.31 | 7.31 | 7.30 | 7.23 | 7.37 |
| Aroclor-1254 | 5 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.65 | 7.79 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|------|------|------|------|------|-----------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1016 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1016 | 2 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.52 | 4.66 |
| Aroclor-1016 | 3 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.69 | 4.83 |
| Aroclor-1016 | 4 | 4.81 | 4.81 | 4.81 | 4.81 | 4.81 | 4.80 | 4.73 | 4.87 |
| Aroclor-1016 | 5 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.94 | 5.08 |
| Aroclor-1260 | 1 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 5.96 | 6.10 |
| Aroclor-1260 | 2 | 6.22 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.14 | 6.28 |
| Aroclor-1260 | 3 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.30 | 6.44 |
| Aroclor-1260 | 4 | 6.83 | 6.83 | 6.83 | 6.83 | 6.83 | 6.83 | 6.76 | 6.90 |
| Aroclor-1260 | 5 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.00 | 7.14 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.42 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1242 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1242 | 2 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.52 | 4.66 |
| Aroclor-1242 | 3 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.69 | 4.83 |
| Aroclor-1242 | 4 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.84 | 4.77 | 4.91 |
| Aroclor-1242 | 5 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.29 | 5.43 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.42 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1248 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1248 | 2 | 4.80 | 4.80 | 4.81 | 4.81 | 4.80 | 4.80 | 4.73 | 4.87 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|------|------|------|------|------|-----------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1248 | 3 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.84 | 4.77 | 4.91 |
| Aroclor-1248 | 4 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.94 | 5.08 |
| Aroclor-1248 | 5 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.33 | 5.47 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1254 | 1 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.29 | 5.43 |
| Aroclor-1254 | 2 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.43 | 5.57 |
| Aroclor-1254 | 3 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.83 | 5.97 |
| Aroclor-1254 | 4 | 6.12 | 6.12 | 6.13 | 6.12 | 6.12 | 6.12 | 6.05 | 6.19 |
| Aroclor-1254 | 5 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.47 | 6.61 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4Analytical Method: AROInstrument ID: ECD_RLevel (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | CF | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1016 | 1 | 85496790 | 67391880 | 61120593 | 65173403 | 58333319 | 67503197 | 15.8 |
| Aroclor-1016 | 2 | 121198880 | 98315265 | 90585548 | 96852955 | 88181963 | 99026922 | 13.2 |
| Aroclor-1016 | 3 | 71272310 | 60687515 | 54189475 | 57025470 | 51103869 | 58855728 | 13.2 |
| Aroclor-1016 | 4 | 58247010 | 46212995 | 43465063 | 46938168 | 42321286 | 47436904 | 13.4 |
| Aroclor-1016 | 5 | 59138380 | 46227095 | 44167588 | 46864665 | 41740051 | 47627556 | 14.2 |
| Aroclor-1260 | 1 | 116211160 | 94822230 | 87790395 | 87821795 | 83394446 | 94008005 | 13.9 |
| Aroclor-1260 | 2 | 136268590 | 117692900 | 110776323 | 108674915 | 107093126 | 116101171 | 10.3 |
| Aroclor-1260 | 3 | 149970600 | 144422430 | 136454755 | 133014001 | 133920246 | 139556407 | 5.3 |
| Aroclor-1260 | 4 | 99037500 | 89528380 | 82993353 | 79578783 | 80679901 | 86363583 | 9.3 |
| Aroclor-1260 | 5 | 199787780 | 185931315 | 174704768 | 166706504 | 175638296 | 180553733 | 7.1 |
| TCX | | 2315065600 | 1821388000 | 1801669700 | 1966341425 | 1820690275 | 1945031000 | 11.2 |
| DCB | | 2253143000 | 2070602500 | 1905299975 | 1759567075 | 1841000256 | 1965922561 | 10.0 |
| Aroclor-1242 | 1 | 73434920 | 59234540 | 56752480 | 51612086 | 48984377 | 58003681 | 16.4 |
| Aroclor-1242 | 2 | 107284840 | 84459955 | 83467020 | 75928881 | 72075621 | 84643264 | 16.2 |
| Aroclor-1242 | 3 | 63402990 | 50756345 | 49480828 | 44905008 | 42008516 | 50110737 | 16.4 |
| Aroclor-1242 | 4 | 50455360 | 40723785 | 40716393 | 37261200 | 35165084 | 40864364 | 14.4 |
| Aroclor-1242 | 5 | 56608810 | 47261120 | 45390703 | 41863173 | 39170793 | 46058920 | 14.5 |
| TCX | | 2532855800 | 2067425400 | 2135748100 | 1952182600 | 1906279725 | 2118898325 | 11.7 |
| DCB | | 2523157100 | 2270970250 | 2117249300 | 1998509113 | 1912162075 | 2164409568 | 11.2 |
| Aroclor-1248 | 1 | 56446150 | 50668385 | 47893945 | 44288589 | 43316076 | 48522629 | 10.9 |
| Aroclor-1248 | 2 | 78551880 | 68784645 | 64666478 | 60080586 | 58283929 | 66073504 | 12.2 |
| Aroclor-1248 | 3 | 86628030 | 77695080 | 73424098 | 68721280 | 67106099 | 74714917 | 10.5 |
| Aroclor-1248 | 4 | 107588580 | 92661375 | 86666585 | 81118309 | 78694835 | 89345937 | 12.9 |
| Aroclor-1248 | 5 | 99982150 | 85728530 | 81640875 | 76624205 | 74365419 | 83668236 | 12.1 |
| TCX | | 2119301800 | 1931145800 | 1894169450 | 1829214000 | 1870424638 | 1928851138 | 5.8 |
| DCB | | 2426017300 | 2156027800 | 1998708200 | 1877127413 | 1845799963 | 2060736135 | 11.5 |
| Aroclor-1254 | 1 | 95947180 | 87934265 | 80881718 | 73353954 | 70408014 | 81705026 | 12.8 |
| Aroclor-1254 | 2 | 150975500 | 136739780 | 124792905 | 115012931 | 111362033 | 127776630 | 12.7 |
| Aroclor-1254 | 3 | 157134160 | 143459175 | 130546753 | 122456906 | 121263259 | 134972051 | 11.3 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | \overline{CF} | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|-----------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1254 | 4 | 124749530 | 113413365 | 102506298 | 95696304 | 94023850 | 106077869 | 12.2 |
| Aroclor-1254 | 5 | 120773060 | 111491880 | 104908598 | 99416665 | 99126570 | 107143355 | 8.5 |
| TCX | | 1983569800 | 1929948300 | 1982881200 | 1868043500 | 1746908775 | 1902270315 | 5.2 |
| DCB | | 2377497600 | 2168056400 | 1958465425 | 1845521300 | 1828161931 | 2035540531 | 11.5 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030

Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4

Analytical Method: ARO

Instrument ID: ECD_R

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18

Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | CF | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1016 | 1 | 157117160 | 127028410 | 119146060 | 128645489 | 118685290 | 130124482 | 12.1 |
| Aroclor-1016 | 2 | 232414680 | 189037150 | 182058538 | 199857899 | 184883003 | 197650254 | 10.4 |
| Aroclor-1016 | 3 | 113573320 | 92047760 | 88926370 | 96564743 | 89467639 | 96115966 | 10.6 |
| Aroclor-1016 | 4 | 91010360 | 74229715 | 70253605 | 74532966 | 67718408 | 75549011 | 12.0 |
| Aroclor-1016 | 5 | 125099600 | 100573425 | 95000830 | 100803125 | 92652112 | 102825818 | 12.6 |
| Aroclor-1260 | 1 | 255381590 | 211874845 | 201181418 | 204229259 | 202193869 | 214972196 | 10.7 |
| Aroclor-1260 | 2 | 314486160 | 268605460 | 257464270 | 257754575 | 262297405 | 272121574 | 8.9 |
| Aroclor-1260 | 3 | 284780880 | 242578275 | 234240683 | 237008906 | 242570535 | 248235856 | 8.4 |
| Aroclor-1260 | 4 | 191773850 | 171225865 | 164201450 | 159643493 | 168106943 | 170990320 | 7.3 |
| Aroclor-1260 | 5 | 539882330 | 489288430 | 458191698 | 447259764 | 483604640 | 483645372 | 7.4 |
| TCX | | 4031338000 | 3299133900 | 3194921700 | 3553827150 | 3350929650 | 3486030080 | 9.5 |
| DCB | | 4808872200 | 4521520750 | 4239536000 | 4047548875 | 4365854869 | 4396666539 | 6.6 |
| Aroclor-1242 | 1 | 142359350 | 113228610 | 110551130 | 102524343 | 98904065 | 113513500 | 15.1 |
| Aroclor-1242 | 2 | 209373620 | 166559435 | 168793028 | 157202891 | 151710909 | 170727977 | 13.3 |
| Aroclor-1242 | 3 | 103521700 | 84110860 | 83411880 | 77954895 | 74657106 | 84731288 | 13.2 |
| Aroclor-1242 | 4 | 105626630 | 82959070 | 80620505 | 74195453 | 69984393 | 82677210 | 16.7 |
| Aroclor-1242 | 5 | 138269220 | 107619185 | 108833723 | 103115814 | 98289064 | 111225401 | 14.1 |
| TCX | | 4532430400 | 3719463500 | 3921157250 | 3646815475 | 3608610813 | 3885695488 | 9.8 |
| DCB | | 5549508500 | 5035108650 | 4786424650 | 4685774675 | 4585200031 | 4928403301 | 7.8 |
| Aroclor-1248 | 1 | 113959240 | 99457945 | 95561473 | 89848276 | 88681523 | 97501691 | 10.4 |
| Aroclor-1248 | 2 | 150379560 | 131285520 | 125359555 | 117592488 | 115894935 | 128102412 | 10.9 |
| Aroclor-1248 | 3 | 154831880 | 135077550 | 129110145 | 121291318 | 119575024 | 131977183 | 10.8 |
| Aroclor-1248 | 4 | 192259690 | 166553390 | 160485315 | 152238820 | 151114278 | 164530299 | 10.2 |
| Aroclor-1248 | 5 | 191977840 | 168997935 | 163767980 | 156372539 | 155662157 | 167355690 | 8.9 |
| TCX | | 4111601600 | 3775626600 | 3742002750 | 3611638450 | 3738220563 | 3795817993 | 4.9 |
| DCB | | 5349726300 | 4793425200 | 4565132225 | 4416972063 | 4435183488 | 4712087855 | 8.2 |
| Aroclor-1254 | 1 | 281480250 | 258431750 | 241837580 | 223585224 | 218133568 | 244693674 | 10.6 |
| Aroclor-1254 | 2 | 246735360 | 224872385 | 207186038 | 194074703 | 190579085 | 212689514 | 11.0 |
| Aroclor-1254 | 3 | 402913790 | 374137370 | 345484603 | 331728594 | 332327092 | 357318290 | 8.6 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | $\overline{\text{CF}}$ | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|------------------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1254 | 4 | 271819590 | 248194315 | 225145143 | 217542819 | 218249933 | 236190360 | 9.9 |
| Aroclor-1254 | 5 | 361503220 | 335875350 | 303818353 | 294825795 | 298686214 | 318941786 | 9.0 |
| TCX | | 4024984000 | 3819388600 | 3917264450 | 3731199000 | 3508785813 | 3800324373 | 5.2 |
| DCB | | 5319766400 | 4887795050 | 4504330775 | 4367435300 | 4429745281 | 4701814561 | 8.5 |

FORM 6F-OR

INITIAL CALIBRATION (SINGLE POINT) OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Instrument ID: ECD_R
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | AMOUNT (ng) | PEAK | RT | RT WINDOW | | CALIBRATION FACTOR |
|--------------|----------------|------|------|-----------|------|-----------------------|
| | | | | FROM | TO | |
| Aroclor-1221 | 100 | 1 | 4.64 | 4.56 | 4.71 | 22012600 |
| | | 2 | 4.72 | 4.65 | 4.79 | 15330800 |
| | | 3 | 4.80 | 4.73 | 4.87 | 54089100 |
| | | 4 | 0.00 | | | |
| | | 5 | 0.00 | | | |
| Aroclor-1232 | 100 | 1 | 4.80 | 4.73 | 4.87 | 44835200 |
| | | 2 | 5.32 | 5.25 | 5.39 | 23143800 |
| | | 3 | 5.61 | 5.54 | 5.68 | 51315200 |
| | | 4 | 5.77 | 5.70 | 5.84 | 23313700 |
| | | 5 | 5.86 | 5.79 | 5.93 | 15810600 |
| Aroclor-1262 | 100 | 1 | 7.80 | 7.72 | 7.87 | 162403000 |
| | | 2 | 8.34 | 8.27 | 8.41 | 282800000 |
| | | 3 | 8.64 | 8.57 | 8.71 | 194325000 |
| | | 4 | 8.73 | 8.66 | 8.80 | 147575000 |
| | | 5 | 9.38 | 9.31 | 9.45 | 106070000 |
| Aroclor-1268 | 100 | 1 | 8.64 | 8.57 | 8.71 | 379935000 |
| | | 2 | 8.73 | 8.66 | 8.80 | 341435000 |
| | | 3 | 8.96 | 8.89 | 9.03 | 303208000 |
| | | 4 | 9.38 | 9.31 | 9.45 | 124505000 |
| | | 5 | 9.78 | 9.71 | 9.85 | 925832000 |
| | | | | | | |

FORM 6F-OR

INITIAL CALIBRATION (SINGLE POINT) OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO
 Instrument ID: ECD_R
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | AMOUNT (ng) | PEAK | RT | RT WINDOW | | CALIBRATION FACTOR |
|--------------|----------------|------|------|-----------|------|-----------------------|
| | | | | FROM | TO | |
| Aroclor-1221 | 100 | 1 | 3.72 | 3.65 | 3.79 | 42248700 |
| | | 2 | 3.81 | 3.74 | 3.88 | 30735800 |
| | | 3 | 3.88 | 3.81 | 3.95 | 110938000 |
| | | 4 | 0.00 | | | |
| | | 5 | 0.00 | | | |
| Aroclor-1232 | 100 | 1 | 3.88 | 3.81 | 3.95 | 91385300 |
| | | 2 | 4.59 | 4.52 | 4.66 | 103290000 |
| | | 3 | 4.76 | 4.69 | 4.83 | 48300900 |
| | | 4 | 4.85 | 4.77 | 4.92 | 44778300 |
| | | 5 | 5.01 | 4.94 | 5.08 | 49702800 |
| Aroclor-1262 | 100 | 1 | 6.57 | 6.50 | 6.64 | 388537000 |
| | | 2 | 7.07 | 7.00 | 7.14 | 711808000 |
| | | 3 | 7.35 | 7.28 | 7.42 | 305574000 |
| | | 4 | 7.41 | 7.34 | 7.48 | 523551000 |
| | | 5 | 7.90 | 7.83 | 7.97 | 244501000 |
| Aroclor-1268 | 100 | 1 | 7.35 | 7.28 | 7.42 | 910284000 |
| | | 2 | 7.41 | 7.34 | 7.48 | 839937000 |
| | | 3 | 7.62 | 7.55 | 7.69 | 732198000 |
| | | 4 | 7.90 | 7.83 | 7.97 | 290430000 |
| | | 5 | 8.18 | 8.11 | 8.25 | 2251790000 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK51 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK51 Time Analyzed: 02:43
 EPA Sample No.: AR1660334 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 03:03
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.60 | 5.52 | 5.66 | 67503200 | 80588600 | 19 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 115079000 | 16 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 68091600 | 16 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 57084200 | 20 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 56560300 | 19 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 107422000 | 14 |
| Aroclor-1260 | 2 | 7.45 | 7.37 | 7.51 | 116101168 | 139536000 | 20 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 162326000 | 16 |
| Aroclor-1260 | 4 | 8.03 | 7.95 | 8.09 | 86363584 | 94283296 | 9.2 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 200791008 | 11 |
| TCX | | 4.44 | 4.38 | 4.48 | 1945031040 | 2195010048 | 13 |
| DCB | | 10.12 | 10.01 | 10.21 | 1965922560 | 1780630016 | -9.4 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK51 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK51 Time Analyzed: 02:43
 EPA Sample No.: AR1660334 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 03:03
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 156792992 | 21 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 228066000 | 15 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 116153000 | 21 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 89891904 | 19 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 124887000 | 22 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 251399008 | 17 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 335112992 | 23 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 290591008 | 17 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 198620000 | 16 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 545518016 | 13 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4284400128 | 23 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3885159936 | -12 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK51 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK51 Time Analyzed: 02:43
 EPA Sample No.: AR1248334 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 03:17
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 58716900 | 21 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 77488400 | 17 |
| Aroclor-1248 | 3 | 6.06 | 5.99 | 6.13 | 74714920 | 88153800 | 18 |
| Aroclor-1248 | 4 | 6.47 | 6.40 | 6.54 | 89345936 | 104580000 | 17 |
| Aroclor-1248 | 5 | 6.50 | 6.43 | 6.57 | 83668240 | 97890896 | 17 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2231419904 | 15 |
| DCB | | 10.10 | 10.01 | 10.21 | 2060736128 | 1729570048 | -12 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK51 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK51 Time Analyzed: 02:43
 EPA Sample No.: AR1248334 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 03:17
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 117791000 | 21 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 148835008 | 16 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 152870000 | 16 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 187428000 | 14 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 194964000 | 17 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4520970240 | 30 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3789110016 | -14 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1660335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 08:11
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.60 | 5.52 | 5.66 | 67503200 | 72781600 | 7.8 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 105012000 | 6.0 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 61702800 | 4.8 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 51880300 | 9.4 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 50437300 | 5.9 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 98198200 | 4.5 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 126915000 | 9.3 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 146912992 | 5.3 |
| Aroclor-1260 | 4 | 8.03 | 7.95 | 8.09 | 86363584 | 85981696 | -0.44 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 185851008 | 2.9 |
| TCX | | 4.44 | 4.38 | 4.48 | 1945031040 | 1993980032 | 2.5 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 1728809984 | -12 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1660335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 08:11
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 145231008 | 12 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 215146000 | 8.9 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 109367000 | 14 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 84403296 | 12 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 117820000 | 15 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 233238000 | 8.5 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 319756992 | 18 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 267723008 | 7.9 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 181816000 | 6.3 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 505232992 | 4.5 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 3980150016 | 14 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3788260096 | -14 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1248335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 09:16
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 55218000 | 14 |
| Aroclor-1248 | 2 | 5.87 | 5.79 | 5.93 | 66073504 | 73625400 | 11 |
| Aroclor-1248 | 3 | 6.07 | 5.99 | 6.13 | 74714920 | 82439000 | 10 |
| Aroclor-1248 | 4 | 6.47 | 6.40 | 6.54 | 89345936 | 95760400 | 7.2 |
| Aroclor-1248 | 5 | 6.51 | 6.43 | 6.57 | 83668240 | 88825800 | 6.2 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2149779968 | 11 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1634690048 | -17 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1248335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 09:16
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 110467000 | 13 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 140156000 | 9.4 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 144052992 | 9.2 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 175920992 | 6.9 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 181280000 | 8.3 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4343969792 | 25 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3563610112 | -19 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1254335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 09:47
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.45 | 6.37 | 6.51 | 81705024 | 94229104 | 15 |
| Aroclor-1254 | 2 | 6.66 | 6.59 | 6.73 | 127776632 | 133750000 | 4.7 |
| Aroclor-1254 | 3 | 7.03 | 6.95 | 7.09 | 134972048 | 137859008 | 2.1 |
| Aroclor-1254 | 4 | 7.31 | 7.23 | 7.37 | 106077872 | 108736000 | 2.5 |
| Aroclor-1254 | 5 | 7.73 | 7.65 | 7.79 | 107143352 | 106527000 | -0.57 |
| TCX | | 4.44 | 4.38 | 4.48 | 1902270336 | 2087890048 | 7.4 |
| DCB | | 10.11 | 10.01 | 10.21 | 2035540480 | 1589529984 | -19 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1254335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 09:47
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.35 | 5.29 | 5.43 | 244693680 | 259867008 | 6.2 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 218208992 | 2.6 |
| Aroclor-1254 | 3 | 5.89 | 5.83 | 5.97 | 357318304 | 367036992 | 2.7 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 243367008 | 3.0 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 315920000 | -0.95 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 4217629952 | 21 |
| DCB | | 8.40 | 8.31 | 8.51 | 4701814784 | 3499879936 | -20 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1660336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 16:09
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.60 | 5.52 | 5.66 | 67503200 | 77309800 | 15 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 110016000 | 11 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 65214400 | 11 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 54350800 | 15 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 53755200 | 13 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 99888496 | 6.3 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 126156000 | 8.7 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 143086000 | 2.5 |
| Aroclor-1260 | 4 | 8.03 | 7.95 | 8.09 | 86363584 | 82751104 | -4.2 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 171240992 | -5.2 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 2210500096 | 14 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 1503020032 | -24 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1660336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 16:09
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 150402000 | 16 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 221156992 | 12 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 109893000 | 14 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 85353104 | 13 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 116706000 | 14 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 222523008 | 3.5 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 301385984 | 11 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 251848000 | 1.5 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 167995008 | -1.8 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 448768000 | -7.2 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4327269888 | 24 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3262670080 | -26 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1248336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 16:40
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 54717000 | 13 |
| Aroclor-1248 | 2 | 5.87 | 5.79 | 5.93 | 66073504 | 72227104 | 9.3 |
| Aroclor-1248 | 3 | 6.07 | 5.99 | 6.13 | 74714920 | 80880704 | 8.3 |
| Aroclor-1248 | 4 | 6.47 | 6.40 | 6.54 | 89345936 | 93285000 | 4.4 |
| Aroclor-1248 | 5 | 6.51 | 6.43 | 6.57 | 83668240 | 86658000 | 3.6 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2173289984 | 12 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1467430016 | -25 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1248336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 16:40
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 108911000 | 12 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 136155008 | 6.3 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 139252000 | 5.5 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 170426000 | 3.6 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 173268000 | 3.5 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4385019904 | 26 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3169339904 | -28 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1254336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 17:10
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 81705024 | 98306600 | 20 |
| Aroclor-1254 | 2 | 6.66 | 6.59 | 6.73 | 127776632 | 136947008 | 7.2 |
| Aroclor-1254 | 3 | 7.02 | 6.95 | 7.09 | 134972048 | 141044000 | 4.5 |
| Aroclor-1254 | 4 | 7.31 | 7.23 | 7.37 | 106077872 | 108336000 | 2.1 |
| Aroclor-1254 | 5 | 7.73 | 7.65 | 7.79 | 107143352 | 104469000 | -2.5 |
| TCX | | 4.43 | 4.38 | 4.48 | 1902270336 | 2216509952 | 14 |
| DCB | | 10.11 | 10.01 | 10.21 | 2035540480 | 1500269952 | -24 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1254336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 17:10
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.35 | 5.29 | 5.43 | 244693680 | 274982016 | 12 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 225144000 | 5.9 |
| Aroclor-1254 | 3 | 5.89 | 5.83 | 5.97 | 357318304 | 358953984 | 0.46 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 231380000 | -2 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 295832992 | -7.2 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 4424589824 | 27 |
| DCB | | 8.40 | 8.31 | 8.51 | 4701814784 | 3257449984 | -26 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK54 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK54 Time Analyzed: 00:09
 EPA Sample No.: AR1660337 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 00:23
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 79169600 | 17 |
| Aroclor-1016 | 2 | 5.61 | 5.54 | 5.68 | 99026920 | 112929000 | 14 |
| Aroclor-1016 | 3 | 5.67 | 5.61 | 5.75 | 58855728 | 66766500 | 13 |
| Aroclor-1016 | 4 | 5.77 | 5.70 | 5.84 | 47436904 | 55383400 | 17 |
| Aroclor-1016 | 5 | 6.06 | 6.00 | 6.14 | 47627556 | 54129700 | 14 |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 94008008 | 97805296 | 4.0 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 124602000 | 7.3 |
| Aroclor-1260 | 3 | 7.72 | 7.65 | 7.79 | 139556400 | 141824992 | 1.6 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 81388896 | -5.8 |
| Aroclor-1260 | 5 | 8.33 | 8.27 | 8.41 | 180553728 | 168678000 | -6.6 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 2257159936 | 16 |
| DCB | | 10.10 | 10.01 | 10.21 | 1965922560 | 1468569984 | -25 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK54 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK54 Time Analyzed: 00:09
 EPA Sample No.: AR1660337 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 00:23
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 155116000 | 19 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 229447008 | 16 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 117266000 | 22 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 90702600 | 20 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 116929000 | 14 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 225844992 | 5.1 |
| Aroclor-1260 | 2 | 6.20 | 6.14 | 6.28 | 272121568 | 304016000 | 12 |
| Aroclor-1260 | 3 | 6.35 | 6.30 | 6.44 | 248235856 | 253575008 | 2.2 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 167623008 | -2 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 448656992 | -7.2 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4524029952 | 30 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3217779968 | -27 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK54 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK54 Time Analyzed: 00:09
 EPA Sample No.: AR1248337 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 00:38
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 55462200 | 14 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 72616400 | 9.9 |
| Aroclor-1248 | 3 | 6.06 | 5.99 | 6.13 | 74714920 | 82481200 | 10 |
| Aroclor-1248 | 4 | 6.46 | 6.40 | 6.54 | 89345936 | 94574200 | 5.9 |
| Aroclor-1248 | 5 | 6.50 | 6.43 | 6.57 | 83668240 | 88360400 | 5.6 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2237619968 | 15 |
| DCB | | 10.10 | 10.01 | 10.21 | 2060736128 | 1452860032 | -26 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK54 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK54 Time Analyzed: 00:09
 EPA Sample No.: AR1248337 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 00:38
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 112996000 | 16 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 141374000 | 10 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 144574000 | 9.5 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 179024000 | 8.8 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 176410000 | 5.4 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4616759808 | 33 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3173260032 | -28 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK54 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK54 Time Analyzed: 00:09
 EPA Sample No.: AR1254337 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 00:52
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 81705024 | 96066704 | 18 |
| Aroclor-1254 | 2 | 6.65 | 6.59 | 6.73 | 127776632 | 136590000 | 6.9 |
| Aroclor-1254 | 3 | 7.02 | 6.95 | 7.09 | 134972048 | 144255008 | 6.9 |
| Aroclor-1254 | 4 | 7.30 | 7.23 | 7.37 | 106077872 | 105831000 | -0.23 |
| Aroclor-1254 | 5 | 7.72 | 7.65 | 7.79 | 107143352 | 102233000 | -4.6 |
| TCX | | 4.43 | 4.38 | 4.48 | 1902270336 | 2187249920 | 13 |
| DCB | | 10.10 | 10.01 | 10.21 | 2035540480 | 1486979968 | -24 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK54 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK54 Time Analyzed: 00:09
 EPA Sample No.: AR1254337 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 00:52
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.35 | 5.29 | 5.43 | 244693680 | 263315008 | 7.6 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 221606000 | 4.2 |
| Aroclor-1254 | 3 | 5.89 | 5.83 | 5.97 | 357318304 | 357963008 | 0.18 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 230947008 | -2.2 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 296095008 | -7.2 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 4519099904 | 30 |
| DCB | | 8.40 | 8.31 | 8.51 | 4701814784 | 3246609920 | -26 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK55 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK55 Time Analyzed: 01:11
 EPA Sample No.: AR1660338 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 01:26
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 79895696 | 18 |
| Aroclor-1016 | 2 | 5.61 | 5.54 | 5.68 | 99026920 | 114969000 | 16 |
| Aroclor-1016 | 3 | 5.67 | 5.61 | 5.75 | 58855728 | 67525104 | 15 |
| Aroclor-1016 | 4 | 5.77 | 5.70 | 5.84 | 47436904 | 56240700 | 19 |
| Aroclor-1016 | 5 | 6.06 | 6.00 | 6.14 | 47627556 | 54957800 | 15 |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 94008008 | 112250000 | 19 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 127491000 | 9.8 |
| Aroclor-1260 | 3 | 7.72 | 7.65 | 7.79 | 139556400 | 144196992 | 3.3 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 83951800 | -2.8 |
| Aroclor-1260 | 5 | 8.33 | 8.27 | 8.41 | 180553728 | 170226000 | -5.7 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 2294729984 | 18 |
| DCB | | 10.10 | 10.01 | 10.21 | 1965922560 | 1494569984 | -24 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK55 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK55 Time Analyzed: 01:11
 EPA Sample No.: AR1660338 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 01:26
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 153603008 | 18 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 229180992 | 16 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 117250000 | 22 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 90574400 | 20 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 124387000 | 21 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 226292992 | 5.3 |
| Aroclor-1260 | 2 | 6.20 | 6.14 | 6.28 | 272121568 | 305056992 | 12 |
| Aroclor-1260 | 3 | 6.35 | 6.30 | 6.44 | 248235856 | 255330000 | 2.9 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 169944992 | -0.61 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 451790016 | -6.6 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4514370048 | 30 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3264809984 | -26 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK56 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK56 Time Analyzed: 12:19
 EPA Sample No.: AR1660339 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 12:34
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 50975900 | -25 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 72412800 | -27 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 43901300 | -25 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 38669700 | -19 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 36656700 | -23 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 54356000 | -42 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 111559000 | -3.9 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 115058000 | -18 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 74331000 | -14 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 164212000 | -9.1 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 1325840000 | -32 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 1440809984 | -27 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK56 Date Analyzed: 12/29/2018
 Instrument Blank Lab ID: AIBLK56 Time Analyzed: 12:19
 EPA Sample No.: AR1660339 Date Analyzed: 12/29/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 12:34
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.56 | 4.50 | 4.64 | 130124480 | 111636000 | -14 |
| Aroclor-1016 | 2 | 4.58 | 4.52 | 4.66 | 197650256 | 152616992 | -23 |
| Aroclor-1016 | 3 | 4.75 | 4.69 | 4.83 | 96115968 | 76162704 | -21 |
| Aroclor-1016 | 4 | 4.79 | 4.73 | 4.87 | 75549008 | 60803100 | -20 |
| Aroclor-1016 | 5 | 5.00 | 4.94 | 5.08 | 102825816 | 83066200 | -19 |
| Aroclor-1260 | 1 | 6.01 | 5.96 | 6.10 | 214972192 | 183704000 | -15 |
| Aroclor-1260 | 2 | 6.20 | 6.14 | 6.28 | 272121568 | 255832992 | -6 |
| Aroclor-1260 | 3 | 6.35 | 6.30 | 6.44 | 248235856 | 212716000 | -14 |
| Aroclor-1260 | 4 | 6.81 | 6.76 | 6.90 | 170990320 | 150995008 | -12 |
| Aroclor-1260 | 5 | 7.05 | 7.00 | 7.14 | 483645376 | 436408000 | -9.8 |
| TCX | | 3.50 | 3.46 | 3.56 | 3486030080 | 2727640064 | -22 |
| DCB | | 8.39 | 8.31 | 8.51 | 4396666368 | 3276480000 | -26 |

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AIBLK82 | PR034706.D | 12/17/2018 | 14:52 | 4.43 | 10.12 |
| AR1660101 | PR034707.D | 12/17/2018 | 15:11 | 4.43 | 10.13 |
| AR1660201 | PR034708.D | 12/17/2018 | 15:25 | 4.43 | 10.11 |
| AR1660301 | PR034709.D | 12/17/2018 | 15:40 | 4.43 | 10.11 |
| AR1660401 | PR034710.D | 12/17/2018 | 15:54 | 4.43 | 10.11 |
| AR1660501 | PR034711.D | 12/17/2018 | 16:09 | 4.43 | 10.11 |
| AR1221101 | PR034712.D | 12/17/2018 | 16:23 | 4.43 | 10.11 |
| AR1232201 | PR034713.D | 12/17/2018 | 16:37 | 4.43 | 10.11 |
| AR1242101 | PR034714.D | 12/17/2018 | 16:52 | 4.43 | 10.11 |
| AR1242201 | PR034715.D | 12/17/2018 | 17:06 | 4.43 | 10.11 |
| AR1242301 | PR034716.D | 12/17/2018 | 17:21 | 4.43 | 10.11 |
| AR1242401 | PR034717.D | 12/17/2018 | 17:35 | 4.43 | 10.11 |
| AR1242501 | PR034718.D | 12/17/2018 | 17:50 | 4.43 | 10.11 |
| AR1248101 | PR034719.D | 12/17/2018 | 18:04 | 4.43 | 10.11 |
| AR1248201 | PR034720.D | 12/17/2018 | 18:19 | 4.43 | 10.11 |
| AR1248301 | PR034721.D | 12/17/2018 | 18:33 | 4.43 | 10.11 |
| AR1248401 | PR034722.D | 12/17/2018 | 18:48 | 4.43 | 10.11 |
| AR1248501 | PR034723.D | 12/17/2018 | 19:02 | 4.43 | 10.11 |
| AR1254101 | PR034724.D | 12/17/2018 | 19:16 | 4.43 | 10.11 |
| AR1254201 | PR034725.D | 12/17/2018 | 19:31 | 4.43 | 10.11 |
| AR1254301 | PR034726.D | 12/17/2018 | 19:45 | 4.43 | 10.11 |
| AR1254401 | PR034727.D | 12/17/2018 | 20:00 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1254501 | PR034728.D | 12/17/2018 | 20:14 | 4.43 | 10.11 |
| AR1262101 | PR034729.D | 12/17/2018 | 20:29 | 4.43 | 10.11 |
| AR1268101 | PR034730.D | 12/17/2018 | 20:43 | 4.43 | 10.11 |
| AIBLK83 | PR034731.D | 12/17/2018 | 20:58 | 4.43 | 10.11 |
| AR1660316 | PR034732.D | 12/17/2018 | 21:12 | 4.43 | 10.11 |
| AR1242316 | PR034733.D | 12/17/2018 | 21:27 | 4.43 | 10.11 |
| AR1248316 | PR034734.D | 12/17/2018 | 21:41 | 4.43 | 10.11 |
| AR1254316 | PR034735.D | 12/17/2018 | 21:56 | 4.43 | 10.11 |
| AIBLK84 | PR034760.D | 12/18/2018 | 03:57 | 4.43 | 10.11 |
| AR1660317 | PR034761.D | 12/18/2018 | 04:11 | 4.43 | 10.11 |
| AR1242317 | PR034762.D | 12/18/2018 | 04:26 | 4.43 | 10.11 |
| AR1248317 | PR034763.D | 12/18/2018 | 04:40 | 4.43 | 10.11 |
| AR1254317 | PR034764.D | 12/18/2018 | 04:55 | 4.43 | 10.11 |
| AIBLK51 | PR035050.D | 12/28/2018 | 02:43 | 4.43 | 10.11 |
| AR1660334 | PR035051.D | 12/28/2018 | 03:03 | 4.44 | 10.11 |
| AR1248334 | PR035052.D | 12/28/2018 | 03:17 | 4.43 | 10.10 |
| AR1254334 | PR035053.D | 12/28/2018 | 03:31 | 4.43 | 10.10 |
| A41T9 | PR035054.D | 12/28/2018 | 04:18 | 4.43 | 10.11 |
| A41W0 | PR035055.D | 12/28/2018 | 04:32 | 4.43 | 10.11 |
| A41W1 | PR035056.D | 12/28/2018 | 04:46 | 4.43 | 10.10 |
| ZZZZZZ | PR035057.D | 12/28/2018 | 05:01 | 4.43 | 10.10 |
| A41W3 | PR035058.D | 12/28/2018 | 05:15 | 4.43 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41W5 | PR035059.D | 12/28/2018 | 05:30 | 4.43 | 10.10 |
| A41W6 | PR035060.D | 12/28/2018 | 05:44 | 4.43 | 10.10 |
| A41W8 | PR035061.D | 12/28/2018 | 05:58 | 4.43 | 10.10 |
| A41W9 | PR035062.D | 12/28/2018 | 06:13 | 4.43 | 10.10 |
| ZZZZZZ | PR035063.D | 12/28/2018 | 06:27 | 4.43 | 10.11 |
| A41T5DL | PR035064.D | 12/28/2018 | 06:42 | 4.43 | 10.10 |
| A41T5DL2 | PR035065.D | 12/28/2018 | 06:56 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035066.D | 12/28/2018 | 07:11 | 4.43 | 10.10 |
| A41T8DL | PR035067.D | 12/28/2018 | 07:25 | 4.43 | 10.10 |
| ZZZZZZ | PR035068.D | 12/28/2018 | 07:40 | * 0.00 | * 0.00 |
| AIBLK52 | PR035069.D | 12/28/2018 | 07:54 | 4.43 | 10.10 |
| AR1660335 | PR035070.D | 12/28/2018 | 08:11 | 4.43 | 10.11 |
| AR1248335 | PR035071.D | 12/28/2018 | 09:16 | 4.43 | 10.11 |
| AR1254335 | PR035072.D | 12/28/2018 | 09:47 | 4.43 | 10.11 |
| A41Z3 | PR035073.D | 12/28/2018 | 10:02 | 4.43 | 10.11 |
| ABLK40 | PR035074.D | 12/28/2018 | 10:17 | 4.43 | 10.10 |
| ZZZZZZ | PR035075.D | 12/28/2018 | 10:31 | 4.43 | 10.10 |
| A41Z3DL | PR035076.D | 12/28/2018 | 10:46 | 4.43 | 10.10 |
| A41Z3DL2 | PR035077.D | 12/28/2018 | 11:00 | 4.43 | 10.10 |
| A41T4 | PR035078.D | 12/28/2018 | 11:14 | 4.43 | 10.11 |
| A41W2 | PR035079.D | 12/28/2018 | 11:29 | 4.43 | 10.10 |
| A41W2MS | PR035080.D | 12/28/2018 | 11:43 | 4.43 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41W2MSD | PR035081.D | 12/28/2018 | 11:58 | 4.43 | 10.10 |
| ZZZZZZ | PR035082.D | 12/28/2018 | 12:12 | 4.43 | 10.10 |
| ZZZZZZ | PR035083.D | 12/28/2018 | 12:27 | 4.43 | 10.10 |
| ZZZZZZ | PR035084.D | 12/28/2018 | 12:41 | 4.43 | 10.10 |
| ZZZZZZ | PR035085.D | 12/28/2018 | 12:56 | 4.43 | 10.10 |
| ZZZZZZ | PR035086.D | 12/28/2018 | 13:10 | 4.43 | 10.10 |
| ZZZZZZ | PR035087.D | 12/28/2018 | 13:24 | 4.43 | 10.10 |
| ZZZZZZ | PR035088.D | 12/28/2018 | 13:39 | 4.43 | 10.11 |
| ZZZZZZ | PR035089.D | 12/28/2018 | 13:53 | 4.43 | 10.10 |
| ZZZZZZ | PR035090.D | 12/28/2018 | 14:08 | 4.43 | 10.11 |
| ZZZZZZ | PR035091.D | 12/28/2018 | 14:22 | 4.43 | 10.11 |
| ZZZZZZ | PR035092.D | 12/28/2018 | 14:37 | 4.43 | 10.10 |
| ZZZZZZ | PR035093.D | 12/28/2018 | 14:51 | * 0.00 | * 0.00 |
| AIBLK53 | PR035094.D | 12/28/2018 | 15:22 | 4.43 | 10.11 |
| AR1660336 | PR035095.D | 12/28/2018 | 16:09 | 4.43 | 10.11 |
| AR1248336 | PR035096.D | 12/28/2018 | 16:40 | 4.43 | 10.11 |
| AR1254336 | PR035097.D | 12/28/2018 | 17:10 | 4.43 | 10.11 |
| A41W7 | PR035098.D | 12/28/2018 | 17:25 | 4.43 | 10.11 |
| A41T7 | PR035099.D | 12/28/2018 | 17:39 | 4.43 | 10.11 |
| ZZZZZZ | PR035100.D | 12/28/2018 | 17:54 | 4.43 | 10.11 |
| A41T5 | PR035101.D | 12/28/2018 | 18:08 | 4.43 | 10.10 |
| A41T8 | PR035102.D | 12/28/2018 | 18:22 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41T8DL2 | PR035103.D | 12/28/2018 | 18:37 | * 0.00 | 10.11 |
| A41T9DL | PR035104.D | 12/28/2018 | 18:51 | 4.43 | 10.11 |
| A41T9DL2 | PR035105.D | 12/28/2018 | 19:06 | 4.43 | 10.11 |
| ZZZZZZ | PR035106.D | 12/28/2018 | 19:20 | 4.43 | 10.11 |
| A41W1DL | PR035107.D | 12/28/2018 | 19:35 | 4.43 | 10.10 |
| ZZZZZZ | PR035108.D | 12/28/2018 | 19:49 | 4.43 | 10.10 |
| A41W2DL | PR035109.D | 12/28/2018 | 20:04 | 4.43 | 10.10 |
| A41W2DL2 | PR035110.D | 12/28/2018 | 20:18 | 4.43 | 10.11 |
| A41W3DL | PR035111.D | 12/28/2018 | 20:32 | 4.43 | 10.10 |
| A41W3DL2 | PR035112.D | 12/28/2018 | 20:47 | 4.43 | 10.10 |
| ZZZZZZ | PR035113.D | 12/28/2018 | 21:01 | 4.43 | 10.10 |
| ZZZZZZ | PR035114.D | 12/28/2018 | 21:16 | 4.43 | 10.10 |
| ZZZZZZ | PR035115.D | 12/28/2018 | 21:30 | 4.43 | 10.10 |
| ZZZZZZ | PR035116.D | 12/28/2018 | 21:45 | 4.43 | 10.10 |
| A41W6DL | PR035117.D | 12/28/2018 | 21:59 | 4.43 | 10.10 |
| A41W7DL | PR035118.D | 12/28/2018 | 22:13 | 4.43 | 10.10 |
| A41W7DL2 | PR035119.D | 12/28/2018 | 22:28 | 4.43 | 10.10 |
| A41W8DL | PR035120.D | 12/28/2018 | 22:42 | 4.43 | 10.10 |
| A41W8DL2 | PR035121.D | 12/28/2018 | 22:57 | 4.43 | 10.10 |
| ZZZZZZ | PR035122.D | 12/28/2018 | 23:11 | 4.43 | 10.10 |
| A41W9DL | PR035123.D | 12/28/2018 | 23:26 | 4.43 | 10.11 |
| AIBLK54 | PR035124.D | 12/29/2018 | 00:09 | 4.43 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1660337 | PR035125.D | 12/29/2018 | 00:23 | 4.43 | 10.10 |
| AR1248337 | PR035126.D | 12/29/2018 | 00:38 | 4.43 | 10.10 |
| AR1254337 | PR035127.D | 12/29/2018 | 00:52 | 4.43 | 10.10 |
| AIBLK55 | PR035128.D | 12/29/2018 | 01:11 | 4.43 | 10.11 |
| AR1660338 | PR035129.D | 12/29/2018 | 01:26 | 4.43 | 10.10 |
| ZZZZZZ | PR035130.D | 12/29/2018 | 02:41 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035131.D | 12/29/2018 | 02:55 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035132.D | 12/29/2018 | 03:10 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035133.D | 12/29/2018 | 03:24 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035134.D | 12/29/2018 | 03:39 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035135.D | 12/29/2018 | 03:53 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035136.D | 12/29/2018 | 04:08 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035137.D | 12/29/2018 | 04:22 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035138.D | 12/29/2018 | 04:37 | 4.43 | 10.10 |
| ZZZZZZ | PR035139.D | 12/29/2018 | 04:51 | 4.43 | 10.10 |
| ZZZZZZ | PR035140.D | 12/29/2018 | 05:05 | 4.43 | 10.10 |
| ZZZZZZ | PR035141.D | 12/29/2018 | 05:20 | 4.43 | 10.10 |
| ZZZZZZ | PR035142.D | 12/29/2018 | 05:34 | 4.43 | 10.10 |
| ZZZZZZ | PR035143.D | 12/29/2018 | 05:49 | 4.43 | 10.10 |
| ALCS40 | PR035144.D | 12/29/2018 | 06:03 | 4.43 | 10.10 |
| ZZZZZZ | PR035145.D | 12/29/2018 | 06:18 | 4.43 | 10.10 |
| ZZZZZZ | PR035146.D | 12/29/2018 | 06:47 | 4.43 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035147.D | 12/29/2018 | 07:01 | 4.43 | 10.10 |
| ZZZZZZ | PR035148.D | 12/29/2018 | 07:15 | 4.43 | 10.10 |
| ZZZZZZ | PR035149.D | 12/29/2018 | 07:44 | 4.43 | 10.10 |
| ZZZZZZ | PR035150.D | 12/29/2018 | 07:59 | 4.43 | 10.10 |
| ZZZZZZ | PR035151.D | 12/29/2018 | 08:13 | 4.43 | 10.10 |
| ZZZZZZ | PR035152.D | 12/29/2018 | 08:28 | 4.43 | 10.10 |
| ZZZZZZ | PR035153.D | 12/29/2018 | 08:42 | 4.43 | 10.10 |
| ZZZZZZ | PR035154.D | 12/29/2018 | 08:57 | 4.43 | 10.10 |
| A41W0DL | PR035155.D | 12/29/2018 | 09:12 | 4.43 | 10.10 |
| A41W5DL | PR035156.D | 12/29/2018 | 09:27 | 4.43 | 10.10 |
| A41W5DL2 | PR035157.D | 12/29/2018 | 09:42 | * 0.00 | * 0.00 |
| AIBLK56 | PR035158.D | 12/29/2018 | 12:19 | 4.44 | 10.13 |
| AR1660339 | PR035159.D | 12/29/2018 | 12:34 | 4.43 | 10.11 |
| AR1248339 | PR035160.D | 12/29/2018 | 13:10 | 4.43 | 10.11 |
| AR1254339 | PR035161.D | 12/29/2018 | 13:24 | 4.42 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AIBLK82 | PR034706.D-2 | 12/17/2018 | 14:52 | 3.51 | 8.42 |
| AR1660101 | PR034707.D-2 | 12/17/2018 | 15:11 | 3.51 | 8.42 |
| AR1660201 | PR034708.D-2 | 12/17/2018 | 15:25 | 3.51 | 8.41 |
| AR1660301 | PR034709.D-2 | 12/17/2018 | 15:40 | 3.51 | 8.41 |
| AR1660401 | PR034710.D-2 | 12/17/2018 | 15:54 | 3.51 | 8.41 |
| AR1660501 | PR034711.D-2 | 12/17/2018 | 16:09 | 3.51 | 8.41 |
| AR1221101 | PR034712.D-2 | 12/17/2018 | 16:23 | 3.51 | 8.41 |
| AR1232201 | PR034713.D-2 | 12/17/2018 | 16:37 | 3.51 | 8.41 |
| AR1242101 | PR034714.D-2 | 12/17/2018 | 16:52 | 3.51 | 8.41 |
| AR1242201 | PR034715.D-2 | 12/17/2018 | 17:06 | 3.51 | 8.41 |
| AR1242301 | PR034716.D-2 | 12/17/2018 | 17:21 | 3.51 | 8.41 |
| AR1242401 | PR034717.D-2 | 12/17/2018 | 17:35 | 3.51 | 8.41 |
| AR1242501 | PR034718.D-2 | 12/17/2018 | 17:50 | 3.51 | 8.41 |
| AR1248101 | PR034719.D-2 | 12/17/2018 | 18:04 | 3.51 | 8.41 |
| AR1248201 | PR034720.D-2 | 12/17/2018 | 18:19 | 3.51 | 8.41 |
| AR1248301 | PR034721.D-2 | 12/17/2018 | 18:33 | 3.51 | 8.41 |
| AR1248401 | PR034722.D-2 | 12/17/2018 | 18:48 | 3.51 | 8.41 |
| AR1248501 | PR034723.D-2 | 12/17/2018 | 19:02 | 3.51 | 8.41 |
| AR1254101 | PR034724.D-2 | 12/17/2018 | 19:16 | 3.51 | 8.41 |
| AR1254201 | PR034725.D-2 | 12/17/2018 | 19:31 | 3.51 | 8.41 |
| AR1254301 | PR034726.D-2 | 12/17/2018 | 19:45 | 3.51 | 8.41 |
| AR1254401 | PR034727.D-2 | 12/17/2018 | 20:00 | 3.51 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1254501 | PR034728.D-2 | 12/17/2018 | 20:14 | 3.51 | 8.41 |
| AR1262101 | PR034729.D-2 | 12/17/2018 | 20:29 | 3.51 | 8.41 |
| AR1268101 | PR034730.D-2 | 12/17/2018 | 20:43 | 3.51 | 8.41 |
| AIBLK83 | PR034731.D-2 | 12/17/2018 | 20:58 | 3.51 | 8.41 |
| AR1660316 | PR034732.D-2 | 12/17/2018 | 21:12 | 3.51 | 8.41 |
| AR1242316 | PR034733.D-2 | 12/17/2018 | 21:27 | 3.51 | 8.41 |
| AR1248316 | PR034734.D-2 | 12/17/2018 | 21:41 | 3.51 | 8.41 |
| AR1254316 | PR034735.D-2 | 12/17/2018 | 21:56 | 3.51 | 8.41 |
| AIBLK84 | PR034760.D-2 | 12/18/2018 | 03:57 | 3.51 | 8.41 |
| AR1660317 | PR034761.D-2 | 12/18/2018 | 04:11 | 3.51 | 8.41 |
| AR1242317 | PR034762.D-2 | 12/18/2018 | 04:26 | 3.51 | 8.41 |
| AR1248317 | PR034763.D-2 | 12/18/2018 | 04:40 | 3.51 | 8.41 |
| AR1254317 | PR034764.D-2 | 12/18/2018 | 04:55 | 3.51 | 8.41 |
| AIBLK51 | PR035050.D-2 | 12/28/2018 | 02:43 | 3.51 | 8.40 |
| AR1660334 | PR035051.D-2 | 12/28/2018 | 03:03 | 3.51 | 8.40 |
| AR1248334 | PR035052.D-2 | 12/28/2018 | 03:17 | 3.51 | 8.40 |
| AR1254334 | PR035053.D-2 | 12/28/2018 | 03:31 | 3.51 | 8.40 |
| A41T9 | PR035054.D-2 | 12/28/2018 | 04:18 | 3.52 | 8.40 |
| A41W0 | PR035055.D-2 | 12/28/2018 | 04:32 | 3.51 | 8.40 |
| A41W1 | PR035056.D-2 | 12/28/2018 | 04:46 | 3.51 | 8.40 |
| ZZZZZZ | PR035057.D-2 | 12/28/2018 | 05:01 | 3.51 | 8.40 |
| A41W3 | PR035058.D-2 | 12/28/2018 | 05:15 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
 IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41W5 | PR035059.D-2 | 12/28/2018 | 05:30 | 3.51 | 8.40 |
| A41W6 | PR035060.D-2 | 12/28/2018 | 05:44 | 3.52 | 8.40 |
| A41W8 | PR035061.D-2 | 12/28/2018 | 05:58 | 3.51 | 8.40 |
| A41W9 | PR035062.D-2 | 12/28/2018 | 06:13 | 3.51 | 8.40 |
| ZZZZZZ | PR035063.D-2 | 12/28/2018 | 06:27 | 3.52 | 8.40 |
| A41T5DL | PR035064.D-2 | 12/28/2018 | 06:42 | 3.51 | 8.40 |
| A41T5DL2 | PR035065.D-2 | 12/28/2018 | 06:56 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035066.D-2 | 12/28/2018 | 07:11 | 3.51 | 8.40 |
| A41T8DL | PR035067.D-2 | 12/28/2018 | 07:25 | 3.51 | 8.40 |
| ZZZZZZ | PR035068.D-2 | 12/28/2018 | 07:40 | * 0.00 | * 0.00 |
| AIBLK52 | PR035069.D-2 | 12/28/2018 | 07:54 | 3.51 | 8.40 |
| AR1660335 | PR035070.D-2 | 12/28/2018 | 08:11 | 3.51 | 8.40 |
| AR1248335 | PR035071.D-2 | 12/28/2018 | 09:16 | 3.51 | 8.40 |
| AR1254335 | PR035072.D-2 | 12/28/2018 | 09:47 | 3.51 | 8.40 |
| A41Z3 | PR035073.D-2 | 12/28/2018 | 10:02 | 3.51 | 8.40 |
| ABLK40 | PR035074.D-2 | 12/28/2018 | 10:17 | 3.51 | 8.40 |
| ZZZZZZ | PR035075.D-2 | 12/28/2018 | 10:31 | 3.51 | 8.40 |
| A41Z3DL | PR035076.D-2 | 12/28/2018 | 10:46 | 3.51 | 8.40 |
| A41Z3DL2 | PR035077.D-2 | 12/28/2018 | 11:00 | 3.51 | 8.40 |
| A41T4 | PR035078.D-2 | 12/28/2018 | 11:14 | 3.51 | 8.40 |
| A41W2 | PR035079.D-2 | 12/28/2018 | 11:29 | 3.51 | 8.40 |
| A41W2MS | PR035080.D-2 | 12/28/2018 | 11:43 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41W2MSD | PR035081.D-2 | 12/28/2018 | 11:58 | 3.51 | 8.40 |
| ZZZZZZ | PR035082.D-2 | 12/28/2018 | 12:12 | 3.51 | 8.40 |
| ZZZZZZ | PR035083.D-2 | 12/28/2018 | 12:27 | 3.51 | 8.40 |
| ZZZZZZ | PR035084.D-2 | 12/28/2018 | 12:41 | 3.51 | 8.40 |
| ZZZZZZ | PR035085.D-2 | 12/28/2018 | 12:56 | 3.51 | 8.40 |
| ZZZZZZ | PR035086.D-2 | 12/28/2018 | 13:10 | 3.51 | 8.40 |
| ZZZZZZ | PR035087.D-2 | 12/28/2018 | 13:24 | 3.51 | 8.40 |
| ZZZZZZ | PR035088.D-2 | 12/28/2018 | 13:39 | 3.51 | 8.40 |
| ZZZZZZ | PR035089.D-2 | 12/28/2018 | 13:53 | 3.51 | 8.40 |
| ZZZZZZ | PR035090.D-2 | 12/28/2018 | 14:08 | 3.51 | 8.40 |
| ZZZZZZ | PR035091.D-2 | 12/28/2018 | 14:22 | 3.51 | 8.40 |
| ZZZZZZ | PR035092.D-2 | 12/28/2018 | 14:37 | 3.51 | 8.40 |
| ZZZZZZ | PR035093.D-2 | 12/28/2018 | 14:51 | * 0.00 | * 0.00 |
| AIBLK53 | PR035094.D-2 | 12/28/2018 | 15:22 | 3.51 | 8.40 |
| AR1660336 | PR035095.D-2 | 12/28/2018 | 16:09 | 3.51 | 8.40 |
| AR1248336 | PR035096.D-2 | 12/28/2018 | 16:40 | 3.51 | 8.40 |
| AR1254336 | PR035097.D-2 | 12/28/2018 | 17:10 | 3.51 | 8.40 |
| A41W7 | PR035098.D-2 | 12/28/2018 | 17:25 | 3.51 | 8.40 |
| A41T7 | PR035099.D-2 | 12/28/2018 | 17:39 | 3.51 | 8.40 |
| ZZZZZZ | PR035100.D-2 | 12/28/2018 | 17:54 | 3.51 | 8.40 |
| A41T5 | PR035101.D-2 | 12/28/2018 | 18:08 | 3.51 | 8.40 |
| A41T8 | PR035102.D-2 | 12/28/2018 | 18:22 | 3.52 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41T8DL2 | PR035103.D-2 | 12/28/2018 | 18:37 | 3.52 | 8.40 |
| A41T9DL | PR035104.D-2 | 12/28/2018 | 18:51 | 3.51 | 8.40 |
| A41T9DL2 | PR035105.D-2 | 12/28/2018 | 19:06 | 3.51 | 8.40 |
| ZZZZZZ | PR035106.D-2 | 12/28/2018 | 19:20 | 3.51 | 8.40 |
| A41W1DL | PR035107.D-2 | 12/28/2018 | 19:35 | 3.51 | 8.40 |
| ZZZZZZ | PR035108.D-2 | 12/28/2018 | 19:49 | 3.51 | 8.40 |
| A41W2DL | PR035109.D-2 | 12/28/2018 | 20:04 | 3.51 | 8.40 |
| A41W2DL2 | PR035110.D-2 | 12/28/2018 | 20:18 | 3.51 | 8.40 |
| A41W3DL | PR035111.D-2 | 12/28/2018 | 20:32 | 3.51 | 8.40 |
| A41W3DL2 | PR035112.D-2 | 12/28/2018 | 20:47 | 3.51 | 8.40 |
| ZZZZZZ | PR035113.D-2 | 12/28/2018 | 21:01 | 3.51 | 8.40 |
| ZZZZZZ | PR035114.D-2 | 12/28/2018 | 21:16 | 3.51 | 8.40 |
| ZZZZZZ | PR035115.D-2 | 12/28/2018 | 21:30 | 3.51 | 8.40 |
| ZZZZZZ | PR035116.D-2 | 12/28/2018 | 21:45 | 3.51 | 8.40 |
| A41W6DL | PR035117.D-2 | 12/28/2018 | 21:59 | 3.51 | 8.40 |
| A41W7DL | PR035118.D-2 | 12/28/2018 | 22:13 | 3.51 | 8.40 |
| A41W7DL2 | PR035119.D-2 | 12/28/2018 | 22:28 | 3.51 | 8.40 |
| A41W8DL | PR035120.D-2 | 12/28/2018 | 22:42 | 3.51 | 8.40 |
| A41W8DL2 | PR035121.D-2 | 12/28/2018 | 22:57 | 3.51 | 8.40 |
| ZZZZZZ | PR035122.D-2 | 12/28/2018 | 23:11 | 3.51 | 8.40 |
| A41W9DL | PR035123.D-2 | 12/28/2018 | 23:26 | 3.51 | 8.40 |
| AIBLK54 | PR035124.D-2 | 12/29/2018 | 00:09 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1660337 | PR035125.D-2 | 12/29/2018 | 00:23 | 3.51 | 8.40 |
| AR1248337 | PR035126.D-2 | 12/29/2018 | 00:38 | 3.51 | 8.40 |
| AR1254337 | PR035127.D-2 | 12/29/2018 | 00:52 | 3.51 | 8.40 |
| AIBLK55 | PR035128.D-2 | 12/29/2018 | 01:11 | 3.51 | 8.40 |
| AR1660338 | PR035129.D-2 | 12/29/2018 | 01:26 | 3.51 | 8.40 |
| ZZZZZZ | PR035130.D-2 | 12/29/2018 | 02:41 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035131.D-2 | 12/29/2018 | 02:55 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035132.D-2 | 12/29/2018 | 03:10 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035133.D-2 | 12/29/2018 | 03:24 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035134.D-2 | 12/29/2018 | 03:39 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035135.D-2 | 12/29/2018 | 03:53 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035136.D-2 | 12/29/2018 | 04:08 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035137.D-2 | 12/29/2018 | 04:22 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035138.D-2 | 12/29/2018 | 04:37 | 3.51 | 8.40 |
| ZZZZZZ | PR035139.D-2 | 12/29/2018 | 04:51 | 3.51 | 8.40 |
| ZZZZZZ | PR035140.D-2 | 12/29/2018 | 05:05 | 3.52 | 8.39 |
| ZZZZZZ | PR035141.D-2 | 12/29/2018 | 05:20 | 3.52 | 8.40 |
| ZZZZZZ | PR035142.D-2 | 12/29/2018 | 05:34 | 3.51 | 8.40 |
| ZZZZZZ | PR035143.D-2 | 12/29/2018 | 05:49 | 3.51 | 8.40 |
| ALCS40 | PR035144.D-2 | 12/29/2018 | 06:03 | 3.51 | 8.39 |
| ZZZZZZ | PR035145.D-2 | 12/29/2018 | 06:18 | 3.52 | 8.40 |
| ZZZZZZ | PR035146.D-2 | 12/29/2018 | 06:47 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035147.D-2 | 12/29/2018 | 07:01 | 3.51 | 8.40 |
| ZZZZZZ | PR035148.D-2 | 12/29/2018 | 07:15 | 3.51 | 8.40 |
| ZZZZZZ | PR035149.D-2 | 12/29/2018 | 07:44 | 3.51 | 8.40 |
| ZZZZZZ | PR035150.D-2 | 12/29/2018 | 07:59 | 3.51 | 8.40 |
| ZZZZZZ | PR035151.D-2 | 12/29/2018 | 08:13 | 3.51 | 8.40 |
| ZZZZZZ | PR035152.D-2 | 12/29/2018 | 08:28 | 3.51 | 8.40 |
| ZZZZZZ | PR035153.D-2 | 12/29/2018 | 08:42 | 3.51 | 8.40 |
| ZZZZZZ | PR035154.D-2 | 12/29/2018 | 08:57 | 3.51 | 8.40 |
| A41W0DL | PR035155.D-2 | 12/29/2018 | 09:12 | 3.51 | 8.40 |
| A41W5DL | PR035156.D-2 | 12/29/2018 | 09:27 | 3.51 | 8.40 |
| A41W5DL2 | PR035157.D-2 | 12/29/2018 | 09:42 | * 0.00 | * 0.00 |
| AIBLK56 | PR035158.D-2 | 12/29/2018 | 12:19 | 3.50 | 8.40 |
| AR1660339 | PR035159.D-2 | 12/29/2018 | 12:34 | 3.50 | 8.39 |
| AR1248339 | PR035160.D-2 | 12/29/2018 | 13:10 | 3.50 | 8.39 |
| AR1254339 | PR035161.D-2 | 12/29/2018 | 13:24 | 3.50 | 8.39 |

Column used to flag RT values with an asterisk.

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T5

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-02
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 3501.7900 | 3400 | 14.30 |
| | 2 | 5.86 | 5.79 | 5.93 | 3530.3301 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 3482.8501 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 2783.6101 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 3821.2600 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 3886.4500 | 3900 | |
| | 2 | 4.80 | 4.73 | 4.87 | 4065.0500 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 3866.7300 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 3627.9299 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 4125.7402 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 11103.5996 | 12000 | 3.50 |
| | 2 | 7.44 | 7.37 | 7.51 | 11726.5000 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 12259.5996 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 11723.7002 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 10858.7002 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 13109.7002 | 12000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 12321.2002 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 12015.0996 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 11448.0996 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 10810.4004 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T5DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-02DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 3129.5400 | 3000 | 7.90 |
| | 2 | 5.86 | 5.79 | 5.93 | 2853.8101 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 3021.2800 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 2531.7100 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 3506.7100 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 3040.6101 | 3200 | |
| | 2 | 4.80 | 4.73 | 4.87 | 3488.3101 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 3211.6399 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 2985.0400 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 3510.3899 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 11464.2002 | 12000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 12421.2998 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 13620.7998 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 11799.2002 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 12212.2002 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 12659.5000 | 12000 | 1.00 |
| | 2 | 6.21 | 6.14 | 6.28 | 13414.7998 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 12157.2002 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 11502.0000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 12411.7998 | | |
| COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 11464.2002 | 12000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 12421.2998 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 13620.7998 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 11799.2002 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 12212.2002 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 12659.5000 | 12000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 13414.7998 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 12157.2002 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 11502.0000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 12411.7998 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T5DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-02DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 5747.3501 | 5600 | 8.30 |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 5686.6299 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 5586.9199 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 4691.1201 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 6326.7900 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 5565.7598 | 6100 | |
| | 2 | 4.80 | 4.73 | 4.87 | 6502.8901 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 6052.5400 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 5606.5098 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 6650.9800 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 19740.0000 | 20000 | 1.10 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 21151.8008 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 21622.5000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 19524.3008 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 17988.0000 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 21153.6992 | 20000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 22073.4004 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 19374.6992 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 17531.5996 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 18757.4004 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T7

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-03
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|---------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.56 | 5.52 | 5.66 | 838.1740 | 370 | 32.00 * |
| | 2 | 5.86 | 5.79 | 5.93 | 320.8790 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 355.9600 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 92.6254 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 224.2930 | | |
| COLUMN 1 | 1 | 4.59 | 4.50 | 4.64 | 660.9260 | 480 | |
| | 2 | 4.80 | 4.73 | 4.87 | 362.3800 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 245.7670 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 305.9780 | | |
| | 5 | 5.40 | 5.33 | 5.47 | 842.2790 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 618.2450 | 630 | |
| | 2 | 7.44 | 7.37 | 7.51 | 666.1320 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 649.0930 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 543.1360 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 684.3050 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 748.2020 | 610 | |
| | 2 | 6.21 | 6.14 | 6.28 | 673.9910 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 572.5420 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 521.8780 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 533.5380 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T8

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-04
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): $\mu\text{g/Kg}$

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D | |
|--------------|----------|------|-----------|------|---------------|-------|---------|------------|
| | | | FROM | TO | PEAK | MEAN | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 8982.0703 | 11000 | 29.60 * | |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 12694.9004 | | | |
| | 3 | 6.06 | 5.99 | 6.13 | 11715.5996 | | | |
| | 4 | 6.47 | 6.40 | 6.54 | 8096.5098 | | | |
| | 5 | 6.51 | 6.43 | 6.57 | 11812.7002 | | | |
| | COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | | | 10111.2998 |
| COLUMN 2 | 2 | 4.80 | 4.73 | 4.87 | 15408.4004 | | | 14000 |
| | 3 | 4.84 | 4.77 | 4.91 | 14348.9004 | | | |
| | 4 | 5.01 | 4.94 | 5.08 | 13845.2002 | | | |
| | 5 | 5.39 | 5.33 | 5.47 | 15392.4004 | | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 26787.5000 | 27000 | 6.20 | |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 26138.9004 | | | |
| | 3 | 7.72 | 7.65 | 7.79 | 27324.1992 | | | |
| | 4 | 8.02 | 7.95 | 8.09 | 33522.1992 | | | |
| | 5 | 8.34 | 8.27 | 8.41 | 23235.1992 | | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | | | 34112.5000 |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 28415.6992 | | | |
| | 3 | 6.36 | 6.30 | 6.44 | 29474.8008 | | | |
| | 4 | 6.82 | 6.76 | 6.90 | 29388.3008 | | | |
| | 5 | 7.07 | 7.00 | 7.14 | 24080.3008 | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T8DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-04DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 11049.9004 | 13000 | 14.10 |
| | 2 | 5.86 | 5.79 | 5.93 | 15653.5996 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 14910.2998 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 10056.0000 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 14737.7998 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 12097.0000 | 15000 | |
| | 2 | 4.80 | 4.73 | 4.87 | 17090.1992 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 15270.0996 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 14850.0996 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 16478.0996 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 43055.8984 | 45000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 45992.6992 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 46490.8008 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 46525.5000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 40758.6992 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 48178.3008 | 45000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 48437.8008 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 44519.1016 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 40528.5000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 44331.0000 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T8DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-04DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-------|---------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 18640.5996 | 26000 | 81.70 * |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 27692.4004 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 27107.0000 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 23142.3008 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 32332.1992 | | |
| | COLUMN 2 | 1 | 4.59 | 4.50 | 4.64 | | |
| 2 | | 4.80 | 4.73 | 4.87 | 34011.5000 | | |
| 3 | | 4.84 | 4.77 | 4.91 | 30570.0000 | | |
| 4 | | 5.01 | 4.94 | 5.08 | 29002.6992 | | |
| 5 | | 5.39 | 5.33 | 5.47 | 36438.8008 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 99626.3984 | 91000 | 6.80 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 90102.7969 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 85924.0000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 102732.0000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 76605.2969 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | | |
| 2 | | 6.20 | 6.14 | 6.28 | 97360.8984 | | |
| 3 | | 6.36 | 6.30 | 6.44 | 82698.1016 | | |
| 4 | | 6.82 | 6.76 | 6.90 | 72466.3984 | | |
| 5 | | 7.06 | 7.00 | 7.14 | 82304.6016 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T9

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-05
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units (µg/L, mg/L, µg/kg): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|---------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 7532.2598 | 7500 | 31.80 * |
| | 2 | 5.86 | 5.79 | 5.93 | 9002.5801 | | |
| | 3 | 6.07 | 5.99 | 6.13 | 8613.2598 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 4667.4800 | | |
| | 5 | 6.51 | 6.43 | 6.57 | 7853.3799 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 7532.1802 | 9900 | |
| | 2 | 4.80 | 4.73 | 4.87 | 10876.2998 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 10357.2998 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 9937.0000 | | |
| | 5 | 5.40 | 5.33 | 5.47 | 10943.9004 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 17242.0996 | 18000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 18041.8008 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 19762.8008 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 18740.3008 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 16543.3008 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 21993.1992 | 19000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 19729.9004 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 19883.6992 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 19060.6992 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 16604.8008 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T9DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-05DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|---------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 8885.8799 | 9400 | 25.70 * |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 11627.9004 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 10849.5996 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 5735.4399 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 9853.5195 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 9610.6602 | 12000 | |
| | 2 | 4.80 | 4.73 | 4.87 | 13525.2002 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 12380.5996 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 11529.2002 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 11993.9004 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 23142.0000 | 26000 | 4.60 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 26452.9004 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 26965.6992 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 29631.3008 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 23761.9004 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 27238.9004 | 25000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 27670.0000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 25269.5996 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 21391.6992 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 22655.1992 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T9DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-05DL2
 Instrument ID (1): ECD_R Date(s) Analyzed: 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 18491.1992 | 21000 | 23.60 |
| | 2 | 5.86 | 5.79 | 5.93 | 25907.5996 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 23833.4004 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 13051.7002 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 21381.5000 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 19838.5996 | 25000 | |
| | 2 | 4.80 | 4.73 | 4.87 | 29147.4004 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 26941.3008 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 25030.0000 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 25906.8008 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 51661.1016 | 54000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 58371.6016 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 57180.6992 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 55428.1992 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 49210.8984 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 57421.1992 | 52000 | 4.30 |
| | 2 | 6.20 | 6.14 | 6.28 | 58802.3984 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 53272.3984 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 44311.5000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 46961.6992 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W0

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-06
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 1893.2600 | 2200 | 8.80 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 1989.5900 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2028.9200 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 3192.5400 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 1957.9700 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2063.2100 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 2142.5300 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2037.7000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1859.4700 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 2065.2800 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W0DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-06DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/29/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2019.7600 | 2100 | 5.80 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 2234.7700 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2226.0000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2142.2800 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2092.3799 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2068.1499 | 2000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 2241.8601 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 1938.0699 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1832.1600 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 2043.7200 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W1

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-07
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 4010.1599 | 4300 | 4.90 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 4476.2002 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 4527.8101 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 4172.0698 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 4250.2598 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 4609.9199 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 4844.5298 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 4438.7500 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 4211.7100 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 4376.2700 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W1DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-07DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 4638.6401 | 4700 | 0.50 |
| | 2 | 7.44 | 7.37 | 7.51 | 5250.9702 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 4989.2402 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 4299.0498 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 4541.8398 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 4960.5601 | 4700 | |
| | 2 | 6.20 | 6.14 | 6.28 | 5337.2998 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 4608.8198 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 4216.2002 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 4478.1401 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41W2 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-08
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 12460.2998 | 13000 | 4.00 |
| | 2 | 7.44 | 7.37 | 7.51 | 12961.7998 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 13678.4004 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 13393.9004 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 13296.9004 | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 13559.7002 | 14000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 14171.9004 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 13359.9004 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 14272.2998 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 13092.0996 | | |
| COLUMN 2 | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W2DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-08DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 14691.9004 | 16000 | 0.80 |
| | 2 | 7.44 | 7.37 | 7.51 | 16570.9004 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 16367.2002 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 14695.0000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 16766.9004 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 15228.5996 | 16000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 17524.6992 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 15380.2002 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 15417.9004 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 16209.0996 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W2DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-08DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D | |
|--------------|------|------|-----------|------|---------------|-------|------|-------|
| | | | FROM | TO | PEAK | MEAN | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 22669.5996 | 24000 | 2.60 | |
| | 2 | 7.44 | 7.37 | 7.51 | 26039.0000 | | | |
| | 3 | 7.72 | 7.65 | 7.79 | 24393.9004 | | | |
| | 4 | 8.02 | 7.95 | 8.09 | 22065.0996 | | | |
| | 5 | 8.34 | 8.27 | 8.41 | 24972.8008 | | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 24275.9004 | | | 25000 |
| | 2 | 6.20 | 6.14 | 6.28 | 28048.1992 | | | |
| | 3 | 6.35 | 6.30 | 6.44 | 23490.4004 | | | |
| | 4 | 6.82 | 6.76 | 6.90 | 22964.4004 | | | |
| | 5 | 7.06 | 7.00 | 7.14 | 24453.0996 | | | |
| COLUMN 2 | | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W2MS

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-09MS
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|---------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 292.7500 | 640 | 59.80 * |
| COLUMN 1 | 2 | 5.61 | 5.54 | 5.68 | 480.7820 | | |
| | 3 | 5.67 | 5.61 | 5.75 | 244.3470 | | |
| | 4 | 5.77 | 5.70 | 5.84 | 451.0980 | | |
| | 5 | 6.06 | 6.00 | 6.14 | 1748.1500 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 303.0510 | 1000 | |
| | 2 | 4.59 | 4.52 | 4.66 | 410.4930 | | |
| | 3 | 4.76 | 4.69 | 4.83 | 538.0390 | | |
| | 4 | 4.80 | 4.73 | 4.87 | 2210.6399 | | |
| | 5 | 5.01 | 4.94 | 5.08 | 1678.4800 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 8657.3096 | 9000 | 4.90 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 9106.5801 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 9307.8896 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 8910.7998 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 8964.0400 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 9582.4600 | 9400 | |
| | 2 | 6.21 | 6.14 | 6.28 | 9986.4102 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 9335.9902 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 9346.9600 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 8904.2500 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W2MSD

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-10MSD
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|---------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 281.1980 | 630 | 59.60 * |
| COLUMN 1 | 2 | 5.61 | 5.54 | 5.68 | 478.3840 | | |
| | 3 | 5.68 | 5.61 | 5.75 | 256.9650 | | |
| | 4 | 5.77 | 5.70 | 5.84 | 442.3560 | | |
| | 5 | 6.06 | 6.00 | 6.14 | 1707.1899 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 295.6690 | 1000 | |
| | 2 | 4.59 | 4.52 | 4.66 | 404.3190 | | |
| | 3 | 4.76 | 4.69 | 4.83 | 530.3840 | | |
| | 4 | 4.80 | 4.73 | 4.87 | 2172.1201 | | |
| | 5 | 5.01 | 4.94 | 5.08 | 1650.6500 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 8475.4502 | 8800 | 5.20 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 8918.7803 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 9085.9502 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 8691.5898 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 8796.0400 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 9460.3398 | 9300 | |
| | 2 | 6.21 | 6.14 | 6.28 | 9766.8896 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 9178.8799 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 9149.6299 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 8708.1797 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W3

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-11
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units (µg/L, mg/L, µg/kg): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 4900.5000 | 4300 | 17.50 |
| | 2 | 5.86 | 5.79 | 5.93 | 3983.0400 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 4318.2598 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 3423.3999 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 4878.7900 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 4619.0698 | 5100 | |
| | 2 | 4.80 | 4.73 | 4.87 | 4666.0200 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 5316.0801 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 4912.7700 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 5742.6602 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 8510.4199 | 9200 | |
| | 2 | 7.44 | 7.37 | 7.51 | 9489.0703 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 9661.7900 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 9160.4600 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 9132.3096 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 10644.9004 | 10000 | 8.30 |
| | 2 | 6.21 | 6.14 | 6.28 | 10212.5000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 9797.0000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 9725.4600 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 9398.7197 | | |
| COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 8510.4199 | 9200 | |
| | 2 | 7.44 | 7.37 | 7.51 | 9489.0703 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 9661.7900 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 9160.4600 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 9132.3096 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 10644.9004 | 10000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 10212.5000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 9797.0000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 9725.4600 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 9398.7197 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W3DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-11DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 5806.1401 | 5300 | 8.50 |
| | 2 | 5.86 | 5.79 | 5.93 | 4949.7100 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 5491.1699 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 4113.0098 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 5930.9199 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 5905.3301 | 5700 | |
| | 2 | 4.80 | 4.73 | 4.87 | 5270.2900 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 5868.9399 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 5414.1602 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 6079.9800 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 10486.0996 | 11000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 11767.2998 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 11937.7998 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 10238.7998 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 11185.4004 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 11457.7998 | 11000 | 2.80 |
| | 2 | 6.21 | 6.14 | 6.28 | 11637.9004 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 10584.5000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 9905.3203 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 10499.5000 | | |
| COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 10486.0996 | 11000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 11767.2998 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 11937.7998 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 10238.7998 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 11185.4004 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 11457.7998 | 11000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 11637.9004 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 10584.5000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 9905.3203 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 10499.5000 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W3DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-11DL2
 Instrument ID (1): ECD_R Date(s) Analyzed: 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 6216.5498 | 5700 | 8.10 |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 5550.4399 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 5951.6899 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 4486.5000 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 6385.5801 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 6525.6001 | 6200 | |
| | 2 | 4.80 | 4.73 | 4.87 | 5797.5298 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 6357.8198 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 5785.4702 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 6448.8799 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 10833.0996 | 11000 | 0.90 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 12000.2998 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 11710.0000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 10060.0996 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 10686.4004 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 11909.5996 | 11000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 12063.7998 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 10706.0000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 9860.4404 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 10276.0000 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41W5 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-12
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 21692.3008 | 22000 | 12.90 |
| | 2 | 7.44 | 7.37 | 7.51 | 21440.5996 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 22150.4004 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 22238.3008 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 20507.5000 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 25791.6992 | 24000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 24452.4004 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 24319.5996 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 25737.6992 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 21671.5996 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W5DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-12DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/29/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 42852.6016 | 44000 | 0.50 |
| | 2 | 7.44 | 7.37 | 7.51 | 47066.0000 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 45125.8008 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 39725.8984 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 45978.1992 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 43794.3008 | 44000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 49825.3984 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 42544.0000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 40369.8984 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 43195.1016 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W5DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-12DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/29/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 68170.7031 | 67000 | 1.80 |
| | 2 | 7.43 | 7.37 | 7.51 | 74622.7031 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 67876.6016 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 60185.8984 | | |
| | 5 | 8.33 | 8.27 | 8.41 | 64405.6016 | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 70872.7969 | 66000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 75192.2031 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 64055.8008 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 59714.3984 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 59596.1016 | | |
| COLUMN 2 | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41W6 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-13
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 860.6970 | 940 | 2.50 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 1019.5200 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 978.9150 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 913.1330 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 944.5970 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 899.9910 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 1023.8400 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 886.9200 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 839.1050 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 951.5740 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W6DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-13DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 1117.8101 | 1100 | 8.00 |
| COLUMN 1 | 2 | 7.43 | 7.37 | 7.51 | 1186.5400 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 1154.3500 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1003.5800 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 1024.8000 | | |
| | 1 | 6.02 | 5.96 | 6.10 | 1035.0699 | 1000 | |
| COLUMN 2 | 2 | 6.20 | 6.14 | 6.28 | 1180.1700 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 980.8010 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 900.2330 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 984.2800 | | |
| | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41W7 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-14
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 13005.7002 | 13000 | 5.30 |
| | 2 | 7.44 | 7.37 | 7.51 | 13300.0000 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 13890.5996 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 13381.0996 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 13070.0000 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 14670.7998 | 14000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 14525.7002 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 14043.4004 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 14183.2998 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 12736.9004 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W7DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-14DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|------------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 16305.0000 | 17000 | 0.30 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 16902.8008 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 17210.6992 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 15206.2998 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 16931.8008 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 16149.4004 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 18899.5000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 16031.4004 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 15153.2002 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 16062.4004 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W7DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-14DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 28428.5000 | 28000 | 0.20 |
| | 2 | 7.44 | 7.37 | 7.51 | 29531.4004 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 29343.4004 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 25166.6992 | | |
| | 5 | 8.33 | 8.27 | 8.41 | 27636.5996 | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 28296.4004 | 28000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 32277.1992 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 27379.8008 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 25355.5000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 26496.5000 | | |
| COLUMN 2 | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W8

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-15
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 782.3060 | 910 | 14.80 |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 1101.8400 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 1001.1300 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 618.8290 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 1044.0699 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 891.9410 | 1000 | |
| | 2 | 4.80 | 4.73 | 4.87 | 1425.9700 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 916.7680 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 945.8100 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 1040.7900 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 14237.5996 | 15000 | 8.90 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 15025.0996 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 15416.5000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 14788.7002 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 14482.9004 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 16300.2002 | 16000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 16631.1992 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 16126.7998 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 16121.4004 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 15343.7002 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W8DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-15DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 1178.7600 | 1300 | 6.60 |
| | 2 | 5.86 | 5.79 | 5.93 | 1716.6600 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 1451.4500 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 890.1450 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 1460.4301 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 1309.1899 | 1400 | |
| | 2 | 4.80 | 4.73 | 4.87 | 1933.0699 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 1279.2700 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 1277.1100 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 1341.4000 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 20288.8008 | 21000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 22915.4004 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 22415.9004 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 18509.4004 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 20381.9004 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 21041.4004 | 21000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 23577.4004 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 21094.0000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 18911.5000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 20070.0000 | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 21041.4004 | 21000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 23577.4004 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 21094.0000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 18911.5000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 20070.0000 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 21041.4004 | 21000 | |
| | 2 | 6.20 | 6.14 | 6.28 | 23577.4004 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 21094.0000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 18911.5000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 20070.0000 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W8DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-15DL2
 Instrument ID (1): ECD_R Date(s) Analyzed: 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 1817.7800 | 2200 | 6.60 |
| | 2 | 5.86 | 5.79 | 5.93 | 2848.5601 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 2298.3000 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 1474.5500 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 2384.1101 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 1776.8600 | 2300 | |
| | 2 | 4.80 | 4.73 | 4.87 | 3161.6499 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 2192.9099 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 2155.7300 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 2253.6399 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 30992.3008 | 32000 | |
| | 2 | 7.43 | 7.37 | 7.51 | 35408.6992 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 33767.8008 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 27816.0996 | | |
| | 5 | 8.33 | 8.27 | 8.41 | 29960.4004 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 32399.0996 | 32000 | 0.10 |
| | 2 | 6.20 | 6.14 | 6.28 | 35673.6016 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 31728.5000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 28224.5000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 29762.4004 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W9

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-16
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): $\mu\text{g/Kg}$

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 170.5340 | 260 | 7.40 |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 383.4420 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 319.1630 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 163.5720 | | |
| | 5 | 6.51 | 6.43 | 6.57 | 277.4090 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 181.4220 | 280 | |
| | 2 | 4.80 | 4.73 | 4.87 | 479.7800 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 262.7490 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 295.3830 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 191.6410 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 1696.8900 | 1900 | 6.40 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 2540.5400 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 1942.0900 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1668.1100 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 1711.8000 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 1899.5400 | 1800 | |
| | 2 | 6.21 | 6.14 | 6.28 | 1986.3101 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 1785.5400 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1550.5400 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 1762.3300 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W9DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-16DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units (µg/L, mg/L, µg/kg): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 235.3900 | 400 | 11.10 |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 498.1120 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 439.3690 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 328.9790 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 517.5930 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 229.3110 | 360 | |
| | 2 | 4.80 | 4.73 | 4.87 | 627.3030 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 298.5500 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 340.6450 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 322.3350 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 1729.9900 | 2200 | 18.90 |
| COLUMN 1 | 2 | 7.43 | 7.37 | 7.51 | 3124.9600 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2257.6599 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1685.6300 | | |
| | 5 | 8.33 | 8.27 | 8.41 | 2255.2900 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 1961.4200 | 1900 | |
| | 2 | 6.20 | 6.14 | 6.28 | 2196.3501 | | |
| | 3 | 6.35 | 6.30 | 6.44 | 1801.3800 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1696.2400 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 1644.0300 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z3

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-17
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 8425.1797 | 8000 | 1.20 |
| | 2 | 6.66 | 6.59 | 6.73 | 7903.8198 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 7718.5498 | | |
| | 4 | 7.31 | 7.23 | 7.37 | 7888.5898 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 8263.6201 | | |
| COLUMN 1 | 1 | 5.35 | 5.29 | 5.43 | 8389.4004 | 8100 | |
| | 2 | 5.50 | 5.43 | 5.57 | 8329.9102 | | |
| | 3 | 5.89 | 5.83 | 5.97 | 8211.7998 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 8271.7402 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 7472.5400 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 4746.4800 | 4100 | |
| | 2 | 7.44 | 7.37 | 7.51 | 4653.9502 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 6344.3301 | | |
| | 4 | 8.01 | 7.95 | 8.09 | 3959.3501 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 860.0700 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 6967.9502 | 3700 | |
| | 2 | 6.21 | 6.14 | 6.28 | 4673.5698 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 5154.8901 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 854.9230 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 819.1430 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z3DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-17DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units (µg/L, mg/L, µg/kg): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 9144.6299 | 8800 | 3.30 |
| | 2 | 6.65 | 6.59 | 6.73 | 8730.9902 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 8527.4805 | | |
| | 4 | 7.30 | 7.23 | 7.37 | 8523.2500 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 8831.0000 | | |
| COLUMN 1 | 1 | 5.35 | 5.29 | 5.43 | 9129.6396 | 9000 | |
| | 2 | 5.50 | 5.43 | 5.57 | 9013.3203 | | |
| | 3 | 5.89 | 5.83 | 5.97 | 8972.7500 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 8868.5195 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 9229.3701 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 4838.8701 | 4200 | |
| | 2 | 7.44 | 7.37 | 7.51 | 4831.9702 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 6779.9302 | | |
| | 4 | 8.01 | 7.95 | 8.09 | 3940.8201 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 833.3070 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 7199.8701 | 3800 | 11.40 |
| | 2 | 6.21 | 6.14 | 6.28 | 4882.0498 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 5340.9302 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 840.4000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 796.7330 | | |
| COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 4838.8701 | 4200 | |
| | 2 | 7.44 | 7.37 | 7.51 | 4831.9702 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 6779.9302 | | |
| | 4 | 8.01 | 7.95 | 8.09 | 3940.8201 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 833.3070 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 7199.8701 | 3800 | |
| | 2 | 6.21 | 6.14 | 6.28 | 4882.0498 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 5340.9302 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 840.4000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 796.7330 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z3DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: J6428-17DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units (µg/L, mg/L, µg/kg): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 11698.7998 | 11000 | 1.00 |
| COLUMN 1 | 2 | 6.65 | 6.59 | 6.73 | 11412.7002 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 10861.2998 | | |
| | 4 | 7.30 | 7.23 | 7.37 | 10618.2998 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 10734.7998 | | |
| | COLUMN 2 | 1 | 5.35 | 5.29 | 5.43 | | |
| COLUMN 2 | 2 | 5.50 | 5.43 | 5.57 | 11319.7998 | | |
| | 3 | 5.89 | 5.83 | 5.97 | 11204.7002 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 10780.7002 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 10919.5996 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 6019.0000 | 5200 | 14.10 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 5942.7500 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 8241.5801 | | |
| | 4 | 8.01 | 7.95 | 8.09 | 4635.1699 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 957.0830 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 5850.0801 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 6255.4199 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1038.0800 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 899.6670 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

ALCS40

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T4
 Analytical Method: ARO Lab Sample ID: PB115740BS
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/29/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): $\mu\text{g/Kg}$

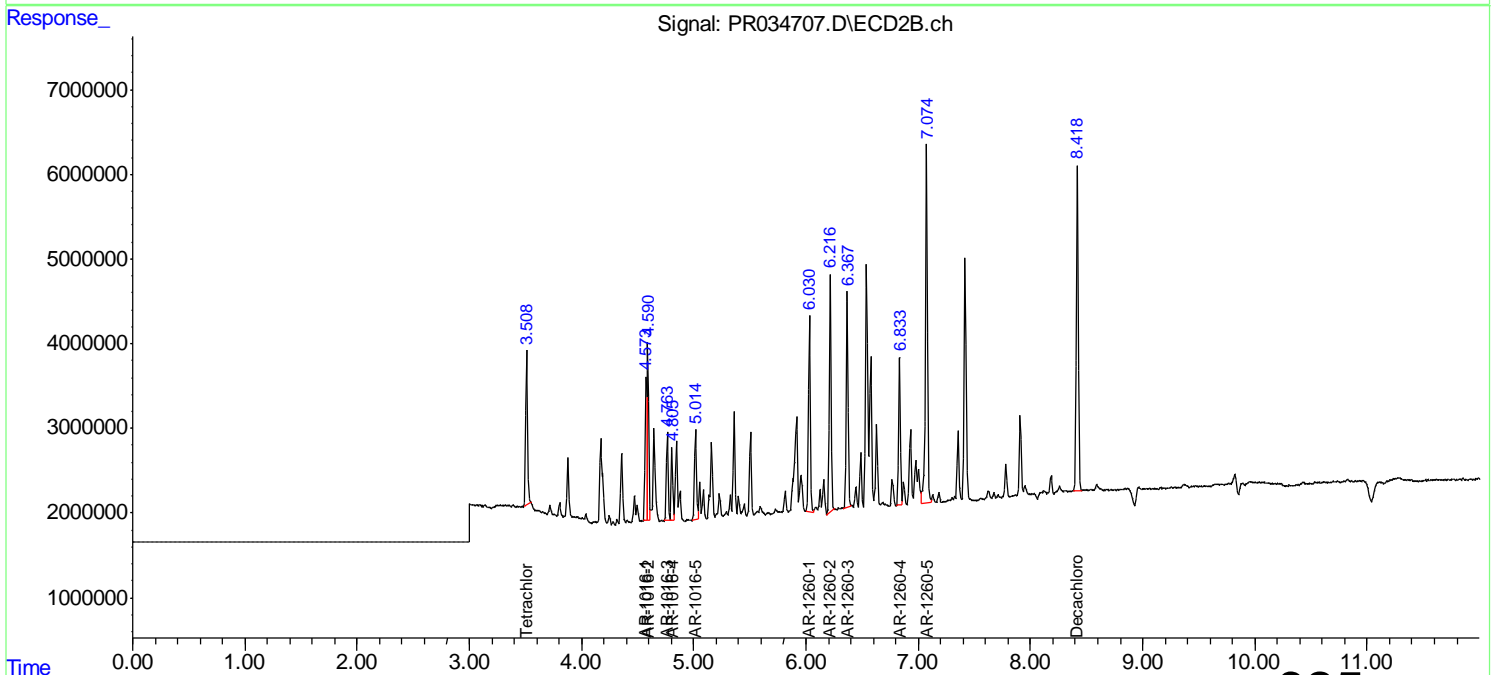
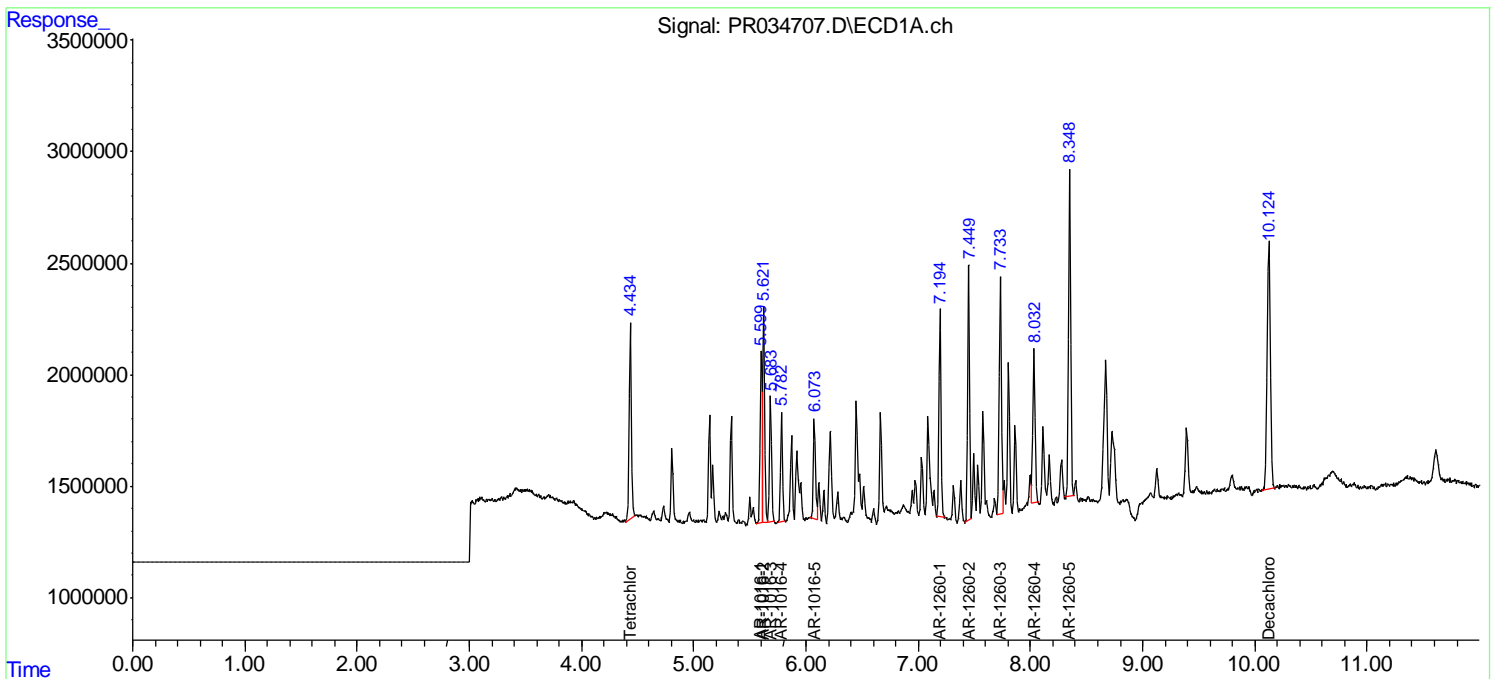
| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D | |
|--------------|----------|------|-----------|------|---------------|------|------|---------|
| | | | FROM | TO | PEAK | MEAN | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 50.1733 | 48 | 2.20 | |
| | COLUMN 1 | 2 | 5.61 | 5.54 | 5.68 | | | 47.4833 |
| | | 3 | 5.67 | 5.61 | 5.75 | | | 47.6767 |
| | | 4 | 5.77 | 5.70 | 5.84 | | | 47.8500 |
| | | 5 | 6.06 | 6.00 | 6.14 | | | 46.6400 |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 49.2367 | | | 49 |
| | 2 | 4.59 | 4.52 | 4.66 | 46.4800 | | | |
| | 3 | 4.76 | 4.69 | 4.83 | 49.9233 | | | |
| | 4 | 4.80 | 4.73 | 4.87 | 50.3833 | | | |
| | 5 | 5.01 | 4.94 | 5.08 | 49.0167 | | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 48.2900 | 45 | 5.50 | |
| | COLUMN 1 | 2 | 7.43 | 7.37 | 7.51 | | | 46.5867 |
| | | 3 | 7.72 | 7.65 | 7.79 | | | 44.1333 |
| | | 4 | 8.02 | 7.95 | 8.09 | | | 43.7900 |
| | | 5 | 8.33 | 8.27 | 8.41 | | | 41.6467 |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 43.8067 | | | 43 |
| | 2 | 6.20 | 6.14 | 6.28 | 44.6533 | | | |
| | 3 | 6.35 | 6.30 | 6.44 | 41.8000 | | | |
| | 4 | 6.82 | 6.76 | 6.90 | 43.6100 | | | |
| | 5 | 7.06 | 7.00 | 7.14 | 38.9100 | | | |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034707.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:11
 Operator : SM\SJ
 Sample : AR1660ICC100
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:44:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034707.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:11
 Operator : SM\SJ
 Sample : AR1660ICC100
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:44:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.434 | 3.509 | 11575328 | 20156690 | 5.951 | 5.782 |
| 2) SA Decachlor... | 10.125 | 8.418 | 22531430 | 48088722 | 11.461 | 10.938 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.600 | 4.574 | 8549679 | 15711716 | 126.656 | 120.744 |
| 4) L1 AR-1016-2 | 5.622 | 4.591 | 12119888 | 23241468 | 122.390 | 117.589 |
| 5) L1 AR-1016-3 | 5.684 | 4.763 | 7127231 | 11357332 | 121.097 | 118.163 |
| 6) L1 AR-1016-4 | 5.782 | 4.805 | 5824701 | 9101036 | 122.788 | 120.465 |
| 7) L1 AR-1016-5 | 6.074 | 5.014 | 5913838 | 12509960 | 124.168 | 121.662 |
| 31) L7 AR-1260-1 | 7.194 | 6.030 | 11621116 | 25538159 | 123.618 | 118.797 |
| 32) L7 AR-1260-2 | 7.449 | 6.216 | 13626859 | 31448616 | 117.371 | 115.568 |
| 33) L7 AR-1260-3 | 7.733 | 6.367 | 14997060 | 28478088 | 107.462 | 114.722 |
| 34) L7 AR-1260-4 | 8.032 | 6.833 | 9903750 | 19177385 | 114.675 | 112.155 |
| 35) L7 AR-1260-5 | 8.349 | 7.074 | 19978778 | 53988233 | 110.653 | 111.628 |
| ----- | | | | | | |

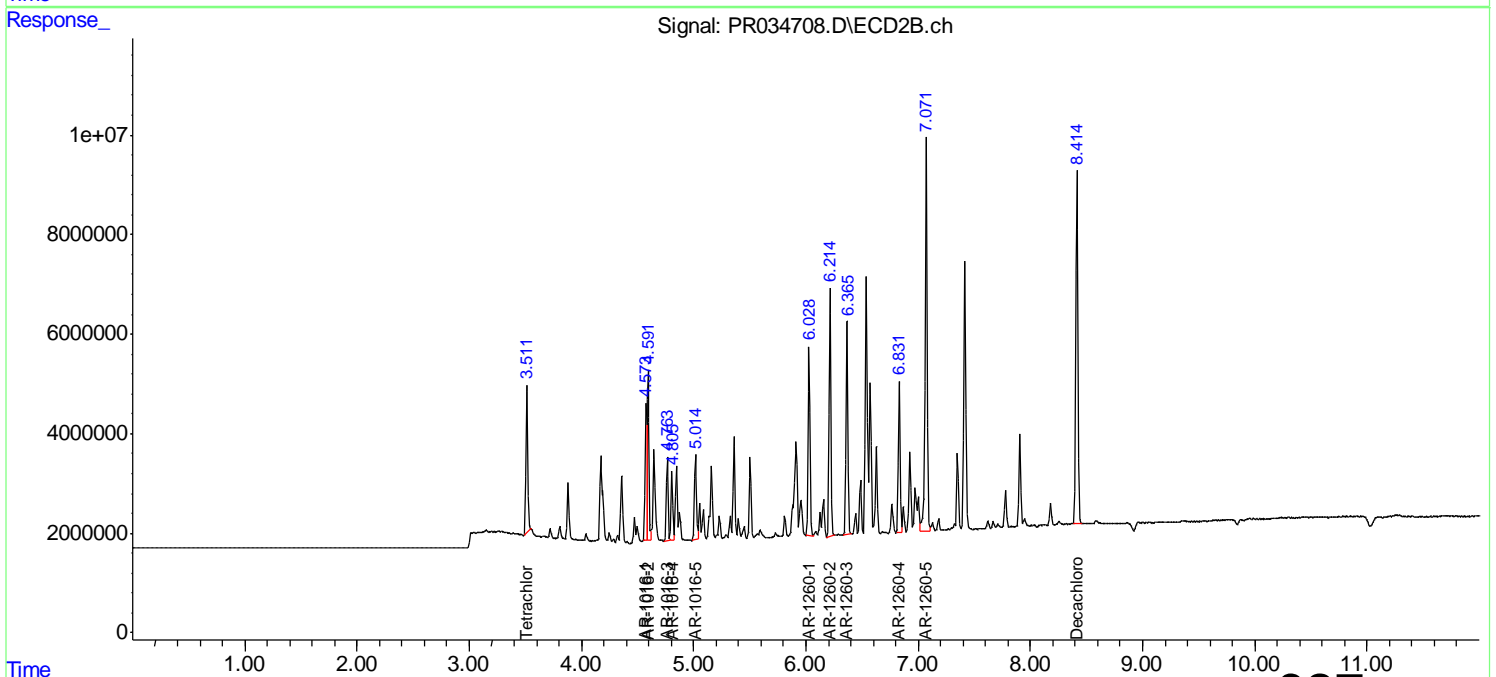
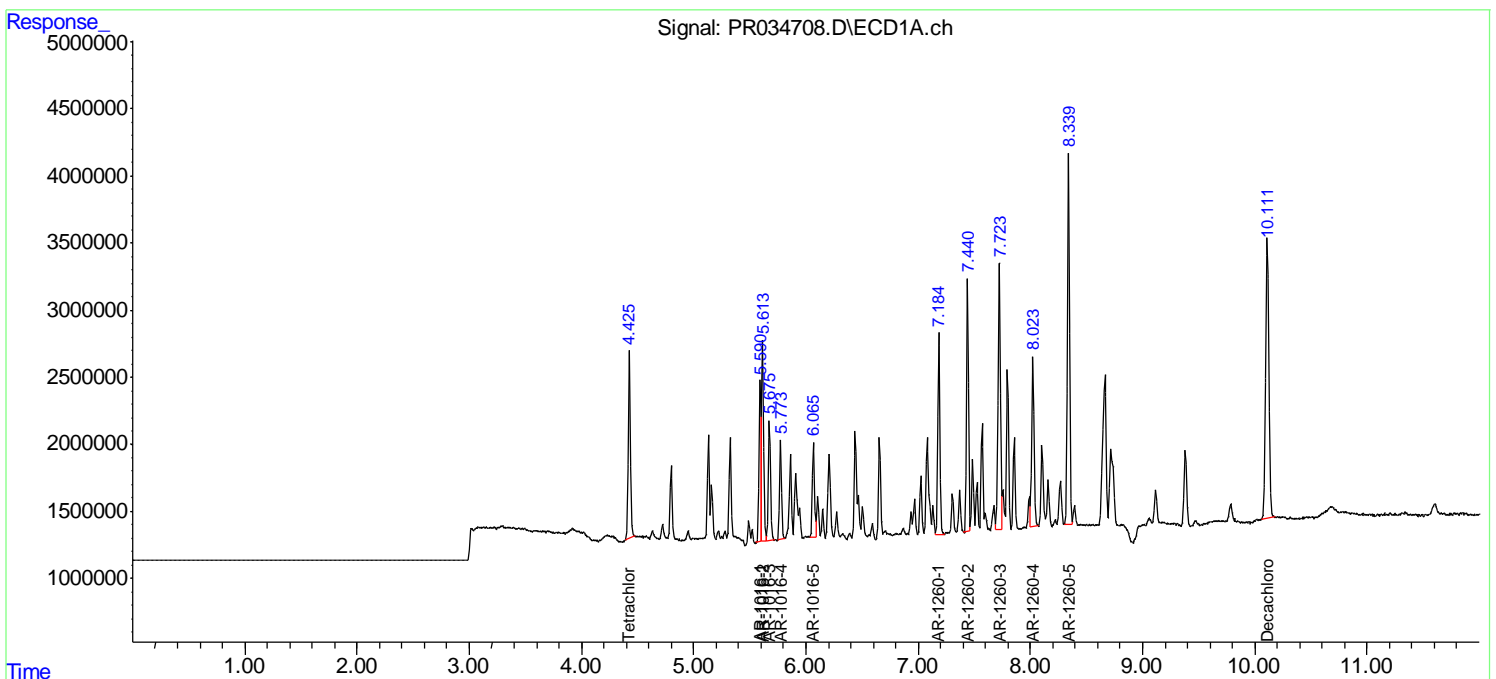
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034708.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:25
 Operator : SM\SJ
 Sample : AR1660ICC200
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:43:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034708.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:25
 Operator : SM\SJ
 Sample : AR1660ICC200
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1660201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:43:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 18213880 | 32991339 | 9.832 | 9.849 |
| 2) SA Decachlor... | 10.111 | 8.414 | 41412050 | 90430415 | 21.864 | 21.062 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.591 | 4.574 | 13478376 | 25405682 | 213.926 | 205.920 |
| 4) L1 AR-1016-2 | 5.613 | 4.591 | 19663053 | 37807430 | 210.336 | 200.083 |
| 5) L1 AR-1016-3 | 5.675 | 4.764 | 12137503 | 18409552 | 217.707 | 200.646 |
| 6) L1 AR-1016-4 | 5.773 | 4.805 | 9242599 | 14845943 | 206.611 | 207.104 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 9245419 | 20114685 | 206.602 | 206.819 |
| 31) L7 AR-1260-1 | 7.184 | 6.028 | 18964446 | 42374969 | 214.391 | 206.838 |
| 32) L7 AR-1260-2 | 7.440 | 6.214 | 23538580 | 53721092 | 211.946 | 205.410 |
| 33) L7 AR-1260-3 | 7.723 | 6.365 | 28884486 | 48515655 | 210.908 | 202.910 |
| 34) L7 AR-1260-4 | 8.023 | 6.831 | 17905676 | 34245173 | 215.225 | 206.552 |
| 35) L7 AR-1260-5 | 8.340 | 7.072 | 37186263 | 97857686 | 211.592 | 208.391 |
| ----- | | | | | | |

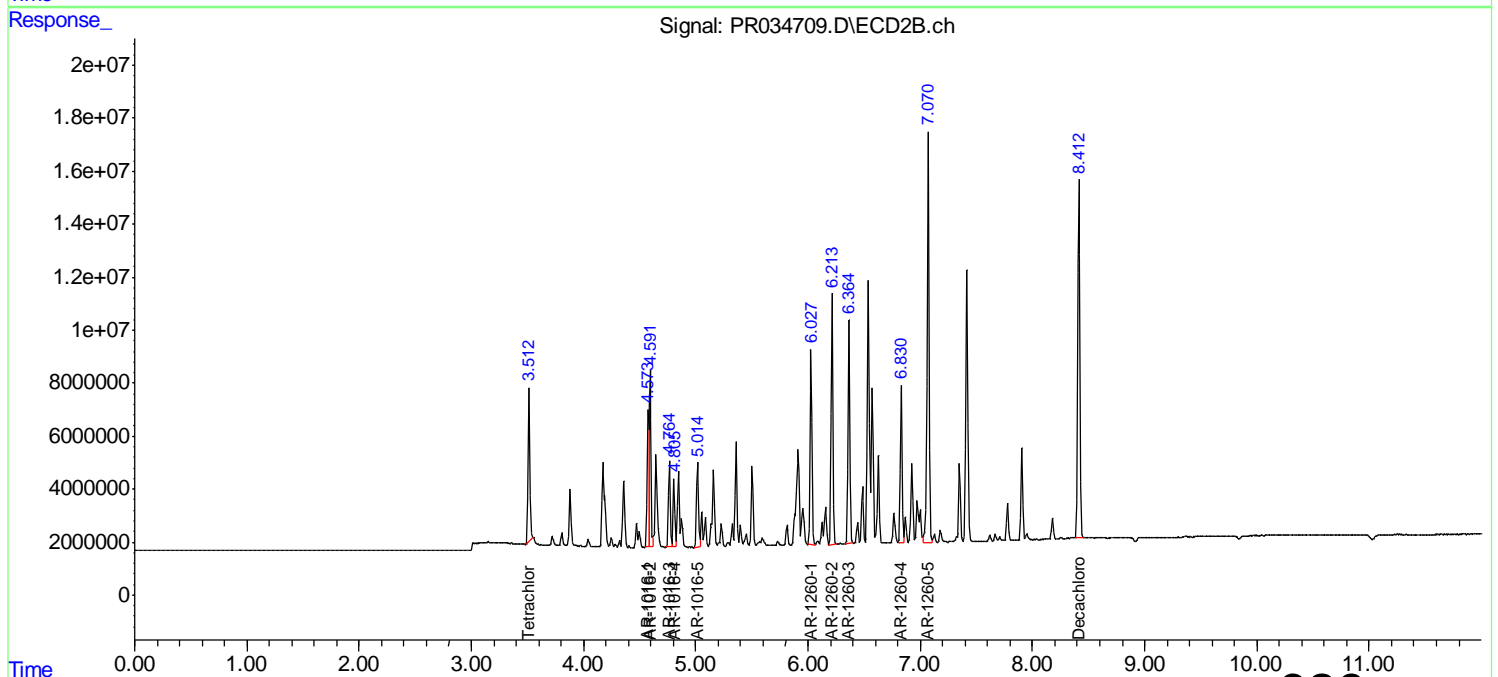
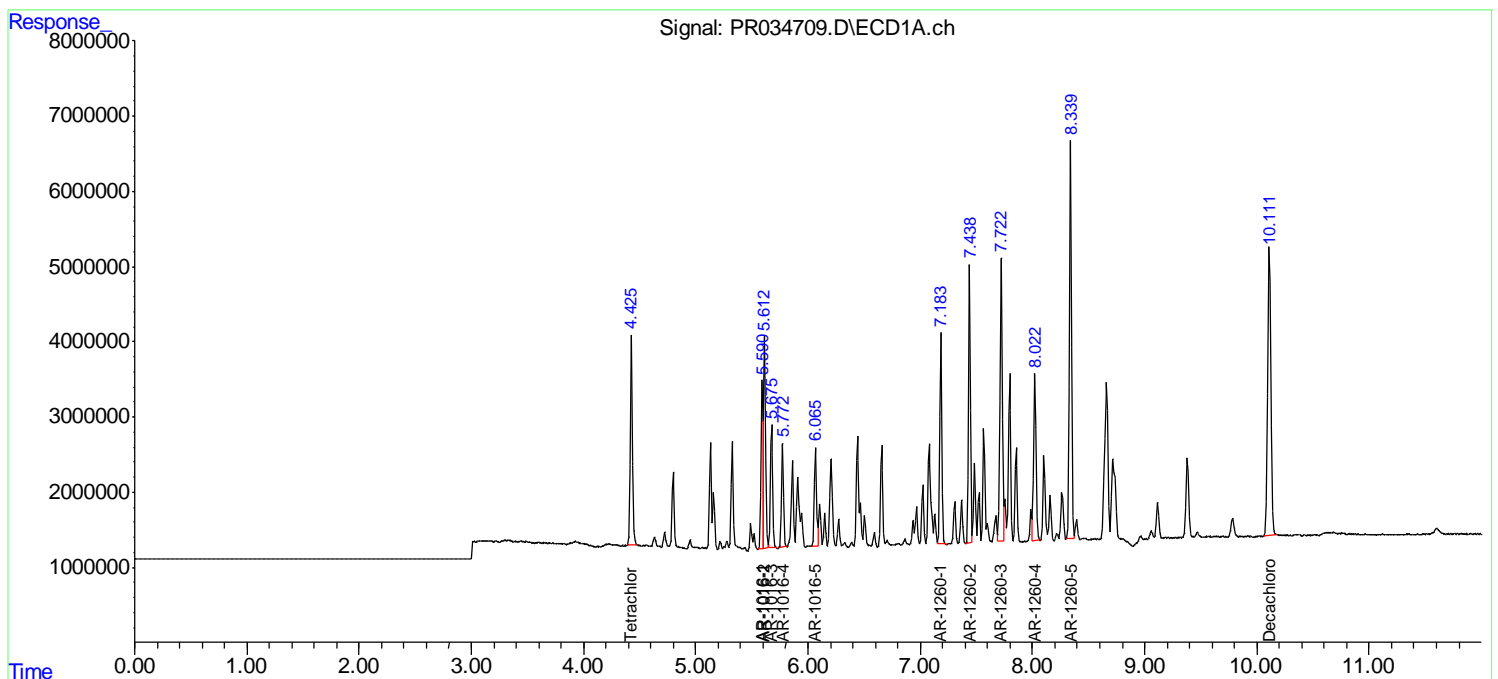
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034709.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:40
 Operator : SM\SJ
 Sample : AR1660ICC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:34:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034709.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:40
 Operator : SM\SJ
 Sample : AR1660ICC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:34:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 36033394 | 63898434 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.111 | 8.413 | 76211999 | 169.6E6 | 40.000 | 40.000 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.574 | 24448237 | 47658424 | 400.000 | 400.000 |
| 4) L1 AR-1016-2 | 5.612 | 4.591 | 36234219 | 72823415 | 400.000 | 400.000 |
| 5) L1 AR-1016-3 | 5.675 | 4.764 | 21675790 | 35570548 | 400.000 | 400.000 |
| 6) L1 AR-1016-4 | 5.773 | 4.805 | 17386025 | 28101442 | 400.000 | 400.000 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 17667035 | 38000332 | 400.000 | 400.000 |
| 31) L7 AR-1260-1 | 7.183 | 6.028 | 35116158 | 80472567 | 400.000 | 400.000 |
| 32) L7 AR-1260-2 | 7.439 | 6.214 | 44310529 | 103.0E6 | 400.000 | 400.000 |
| 33) L7 AR-1260-3 | 7.722 | 6.365 | 54581902 | 93696273 | 400.000 | 400.000 |
| 34) L7 AR-1260-4 | 8.022 | 6.831 | 33197341 | 65680580 | 400.000 | 400.000 |
| 35) L7 AR-1260-5 | 8.339 | 7.071 | 69881907 | 183.3E6 | 400.000 | 400.000 |
| ----- | | | | | | |

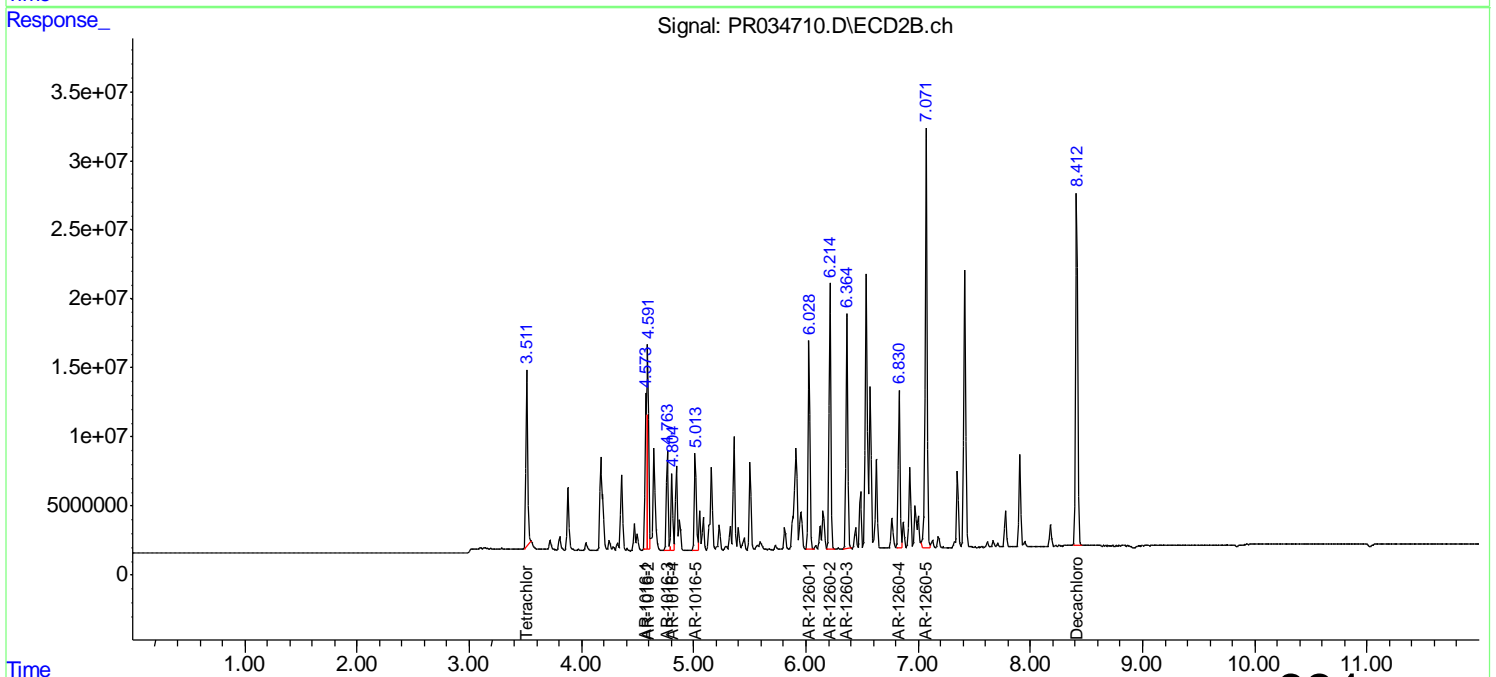
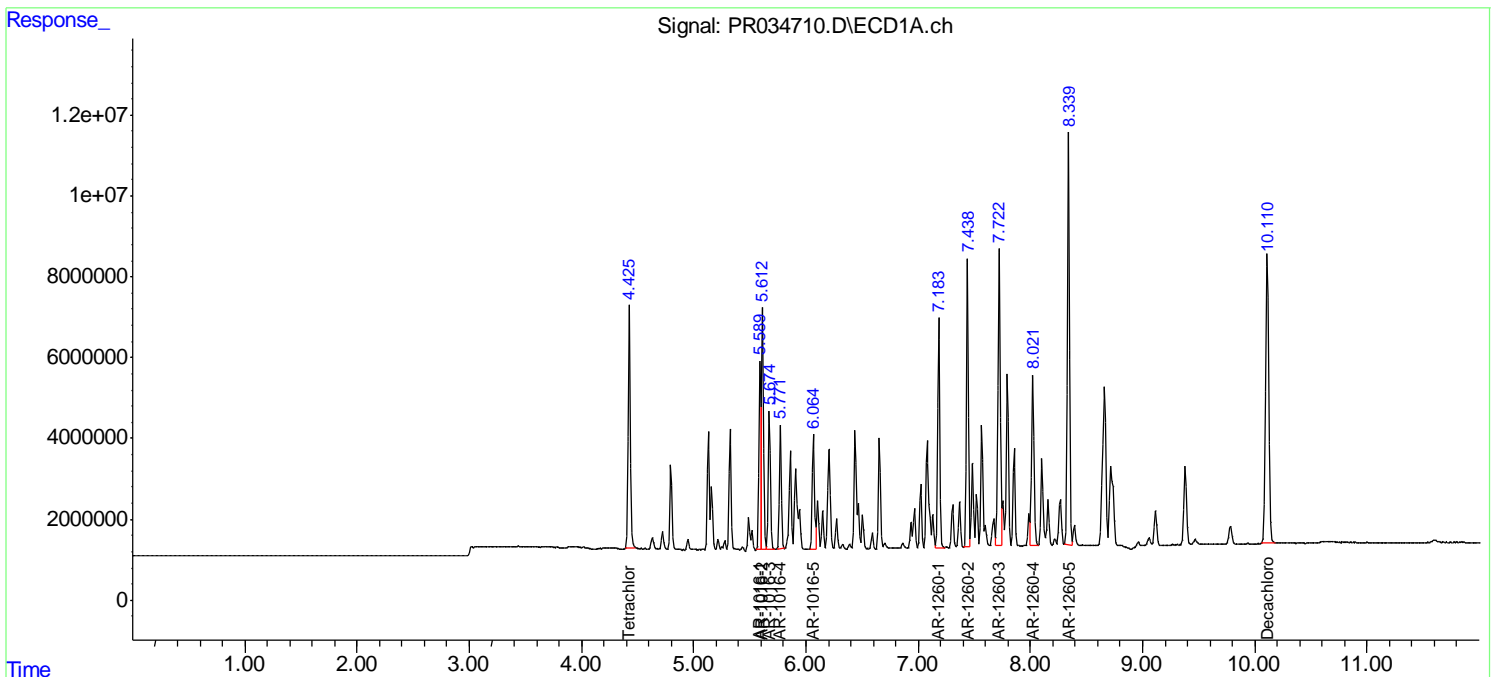
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034710.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660ICC800
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:41:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034710.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660ICC800
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:41:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 78653657 | 142.2E6 | 42.221 | 42.225 |
| 2) SA Decachlor... | 10.111 | 8.413 | 140.8E6 | 323.8E6 | 76.699 | 76.774 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.574 | 52138722 | 102.9E6 | 847.199 | 842.479 |
| 4) L1 AR-1016-2 | 5.613 | 4.591 | 77482364 | 159.9E6 | 843.359 | 846.259 |
| 5) L1 AR-1016-3 | 5.674 | 4.764 | 45620376 | 77251794 | 843.162 | 842.873 |
| 6) L1 AR-1016-4 | 5.772 | 4.805 | 37550534 | 59626373 | 848.763 | 841.764 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 37491732 | 80642500 | 847.128 | 838.698 |
| 31) L7 AR-1260-1 | 7.183 | 6.028 | 70257436 | 163.4E6 | 813.772 | 806.693 |
| 32) L7 AR-1260-2 | 7.439 | 6.214 | 86939932 | 206.2E6 | 798.727 | 795.625 |
| 33) L7 AR-1260-3 | 7.722 | 6.365 | 106.4E6 | 189.6E6 | 791.379 | 796.869 |
| 34) L7 AR-1260-4 | 8.022 | 6.831 | 63663026 | 127.7E6 | 785.149 | 778.825 |
| 35) L7 AR-1260-5 | 8.339 | 7.072 | 133.4E6 | 357.8E6 | 773.805 | 772.772 |
| ----- | | | | | | |

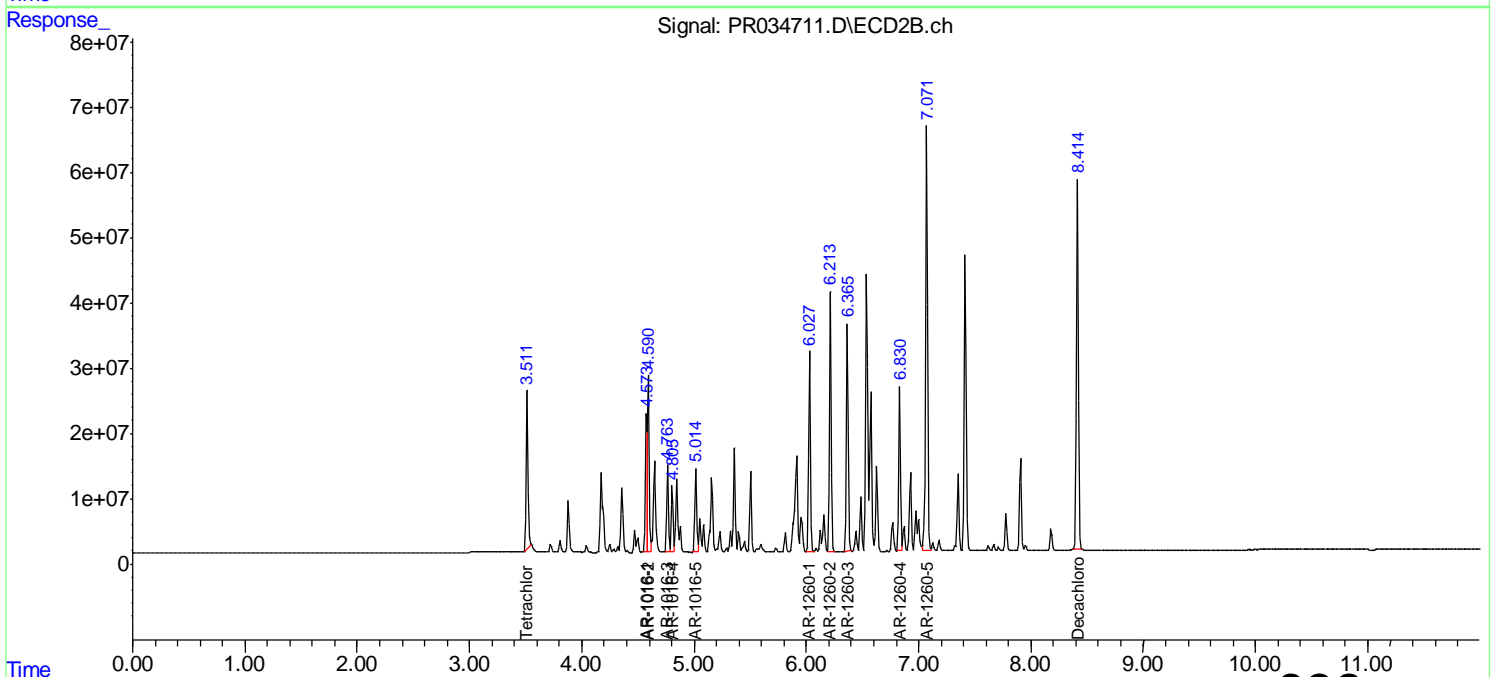
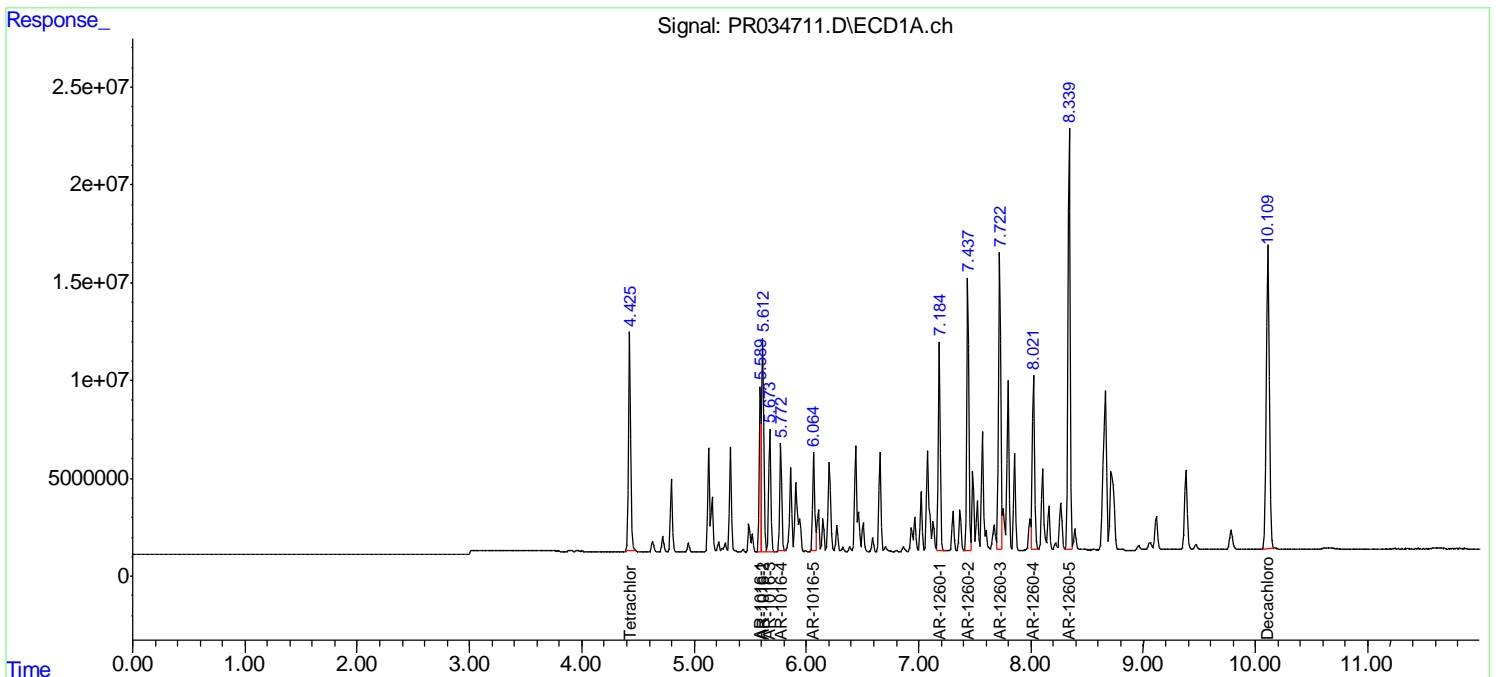
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034711.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660ICC1600
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:38:56 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034711.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660ICCC1600
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:38:56 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|-----------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | | |
| System Monitoring Compounds | | | | | | | |
| 1) | SA Tetrachlo... | 4.425 | 3.512 | 145.7E6 | 268.1E6 | 80.420 | 81.907 |
| 2) | SA Decachlor... | 10.110 | 8.414 | 294.6E6 | 698.5E6 | 157.254 | 162.349 |
| Target Compounds | | | | | | | |
| 3) | L1 AR-1016-1 | 5.590 | 4.574 | 93333310 | 189.9E6 | 1562.666 | 1596.900 |
| 4) | L1 AR-1016-2 | 5.612 | 4.591 | 141.1E6 | 295.8E6 | 1578.487 | 1612.316 |
| 5) | L1 AR-1016-3 | 5.674 | 4.763 | 81766190 | 143.1E6 | 1553.112 | 1604.855 |
| 6) | L1 AR-1016-4 | 5.772 | 4.805 | 67714057 | 108.3E6 | 1578.667 | 1570.600 |
| 7) | L1 AR-1016-5 | 6.064 | 5.014 | 66784081 | 148.2E6 | 1554.788 | 1579.974 |
| 31) | L7 AR-1260-1 | 7.184 | 6.028 | 133.4E6 | 323.5E6 | 1558.913 | 1604.016 |
| 32) | L7 AR-1260-2 | 7.438 | 6.213 | 171.3E6 | 419.7E6 | 1572.951 | 1614.878 |
| 33) | L7 AR-1260-3 | 7.722 | 6.365 | 214.3E6 | 388.1E6 | 1585.002 | 1627.952 |
| 34) | L7 AR-1260-4 | 8.022 | 6.831 | 129.1E6 | 269.0E6 | 1577.385 | 1618.804 |
| 35) | L7 AR-1260-5 | 8.340 | 7.072 | 281.0E6 | 773.8E6 | 1604.263 | 1643.174 |

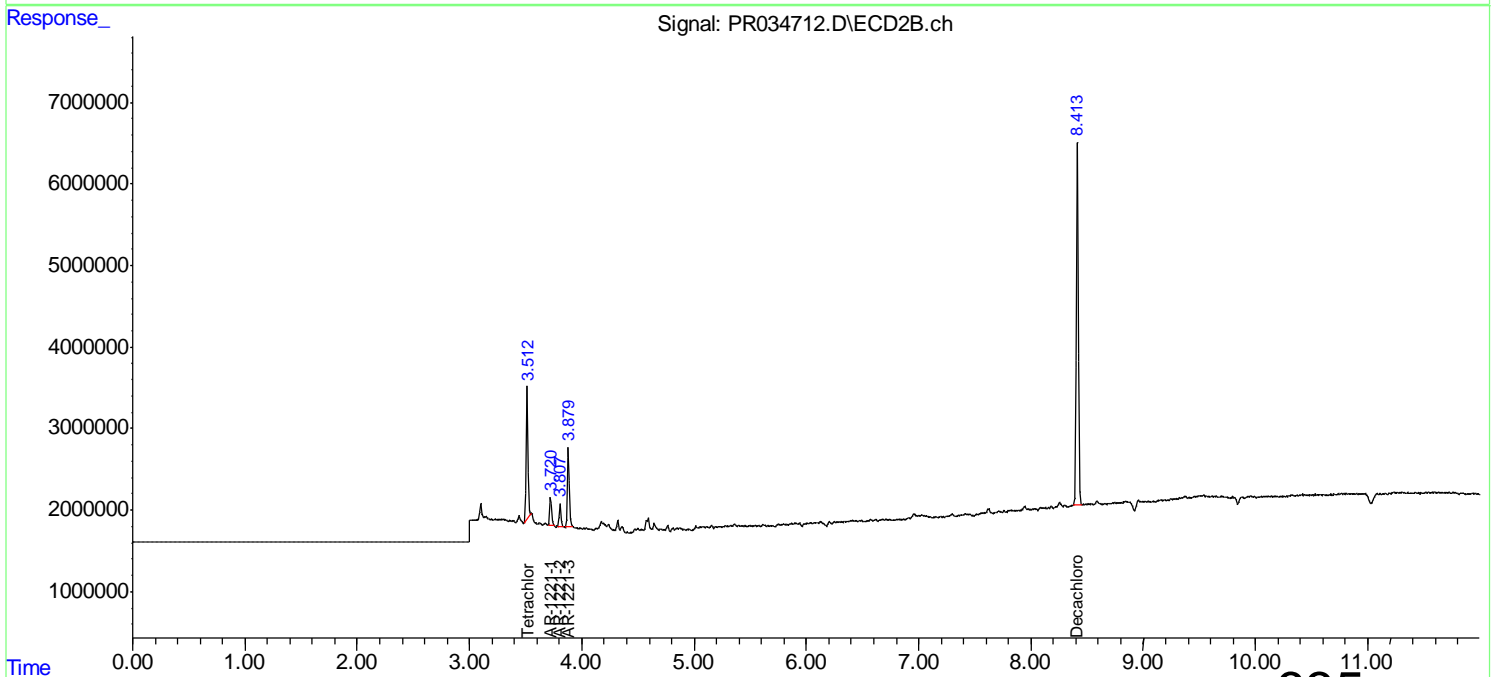
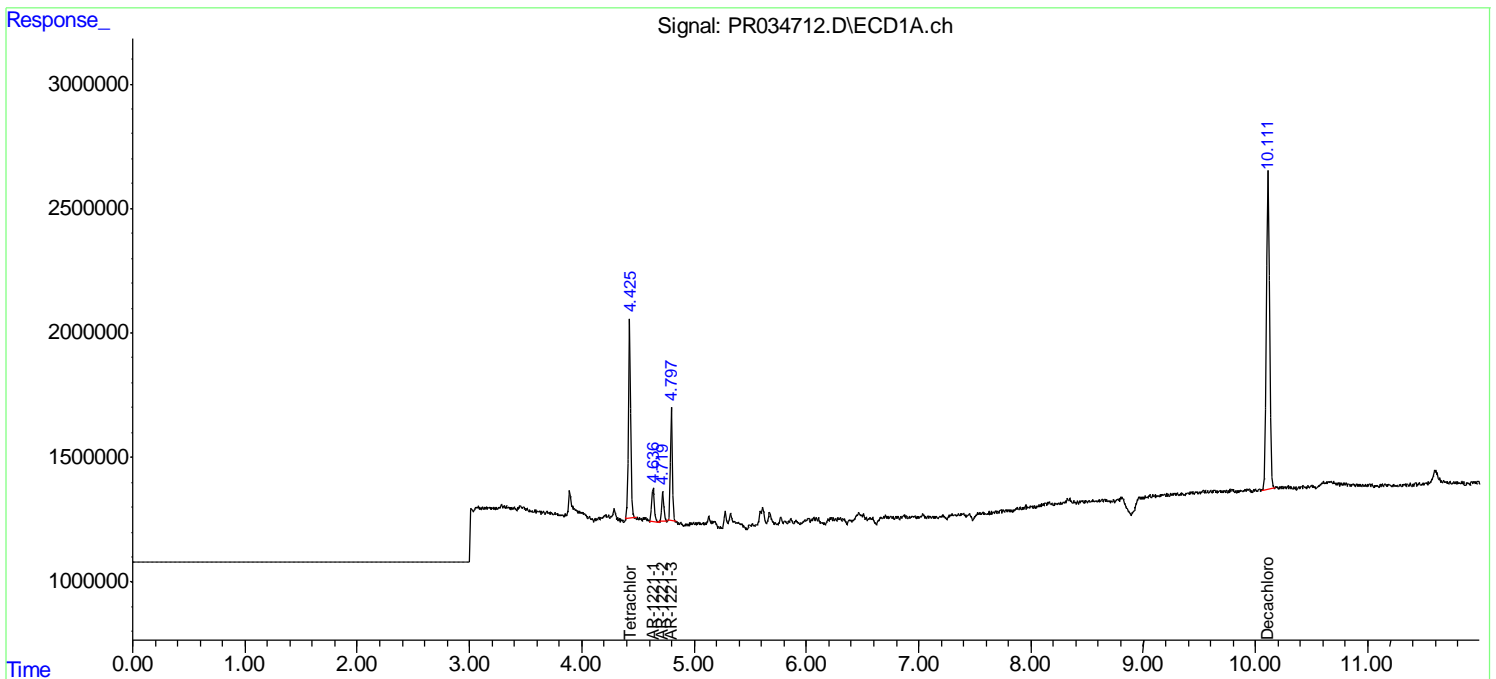
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034712.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:23
 Operator : SM\SJ
 Sample : AR1221ICC100
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1221101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:50:47 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034712.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:23
 Operator : SM\SJ
 Sample : AR1221ICC100
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1221101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:50:47 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 10660622 | 17609836 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.111 | 8.414 | 25823530 | 55835928 | 10.000 | 10.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|----------|---------|---------|
| 8) L2 AR-1221-1 | 4.635 | 3.722 | 2201259 | 4224872 | 100.000 | 100.000 |
| 9) L2 AR-1221-2 | 4.720 | 3.806 | 1533078 | 3073584 | 100.000 | 100.000 |
| 10) L2 AR-1221-3 | 4.797 | 3.880 | 5408912 | 11093751 | 100.000 | 100.000 |

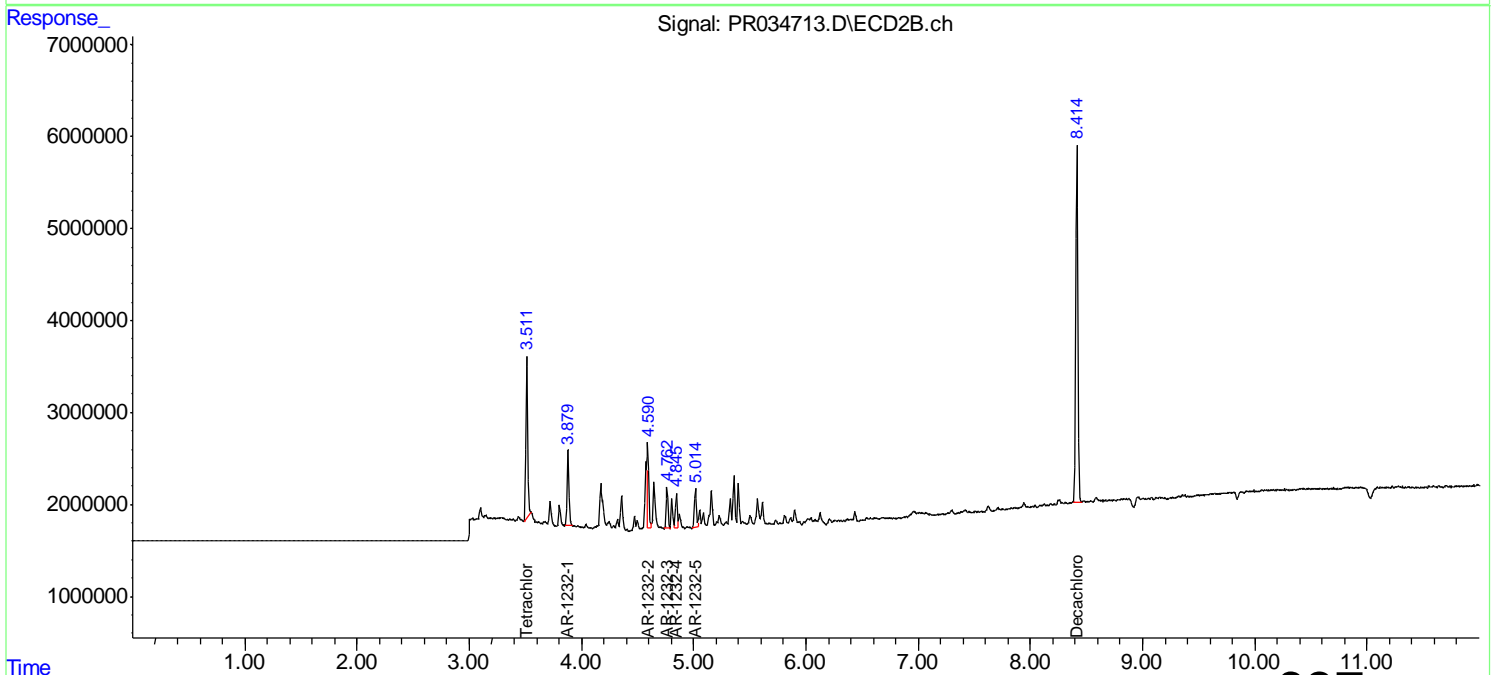
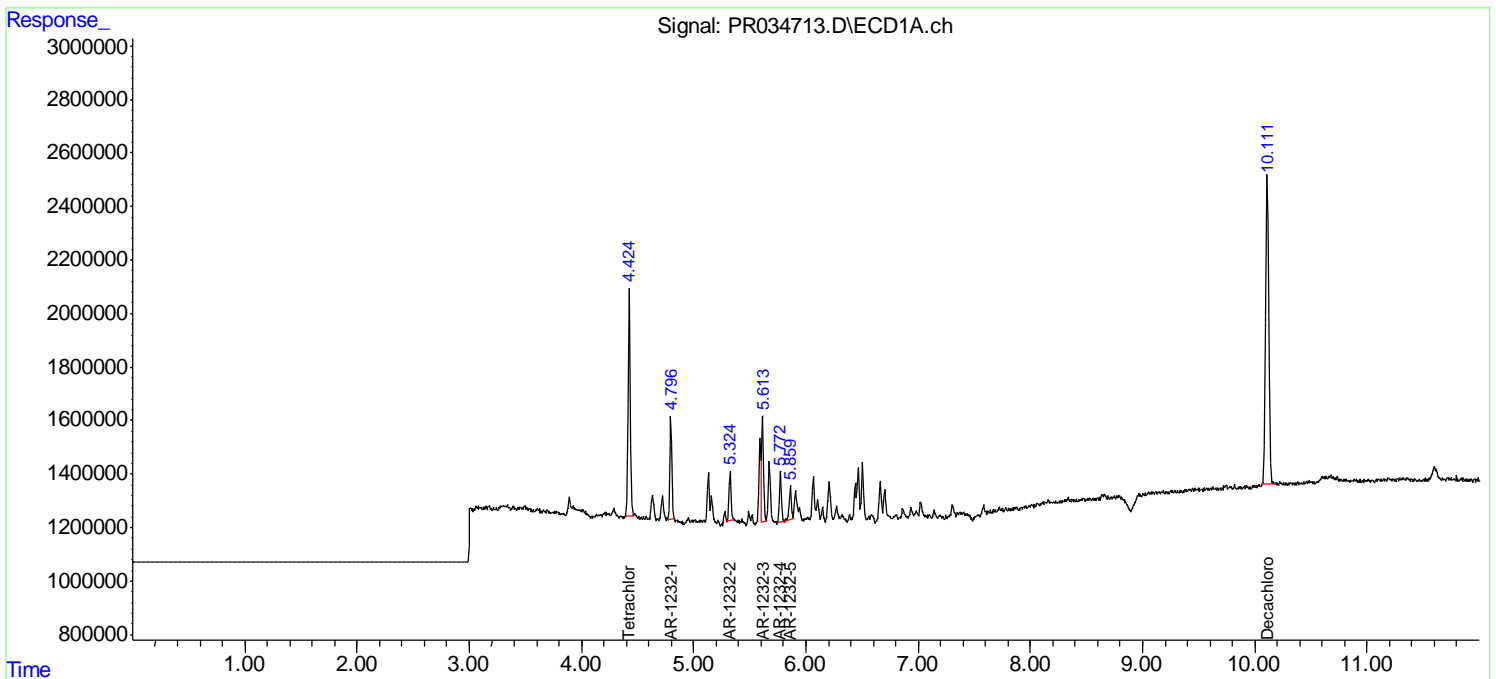
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034713.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:37
 Operator : SM\SJ
 Sample : AR1232ICC100
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1232201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:45:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034713.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:37
 Operator : SM\SJ
 Sample : AR1232ICC100
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1232201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:45:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 11081067 | 18964552 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.110 | 8.414 | 22915956 | 50165798 | 10.000 | 10.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|----------|---------|---------|
| 11) L3 AR-1232-1 | 4.797 | 3.879 | 4483522 | 9138526 | 100.000 | 100.000 |
| 12) L3 AR-1232-2 | 5.323 | 4.591 | 2314380 | 10328991 | 100.000 | 100.000 |
| 13) L3 AR-1232-3 | 5.612 | 4.763 | 5131517 | 4830087 | 100.000 | 100.000 |
| 14) L3 AR-1232-4 | 5.773 | 4.845 | 2331372 | 4477834 | 100.000 | 100.000 |
| 15) L3 AR-1232-5 | 5.861 | 5.014 | 1581063 | 4970275 | 100.000 | 100.000 |

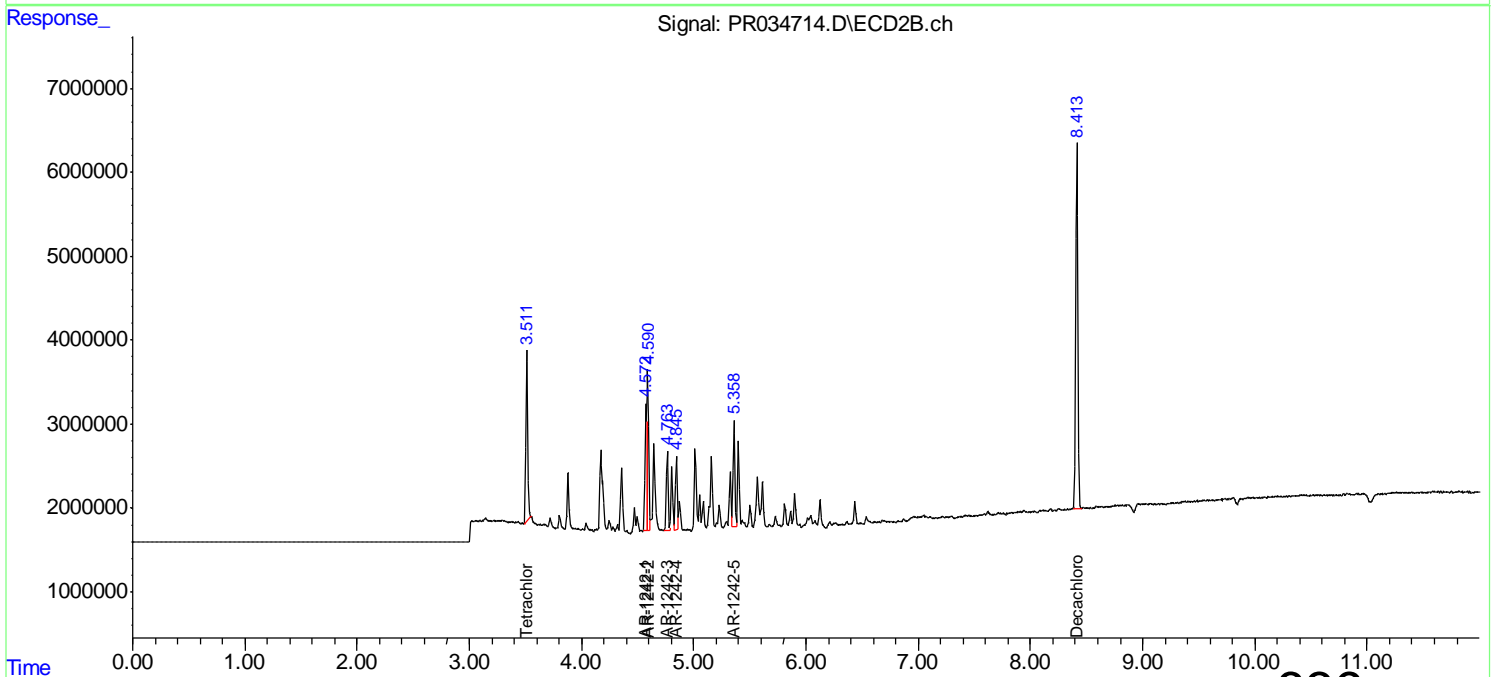
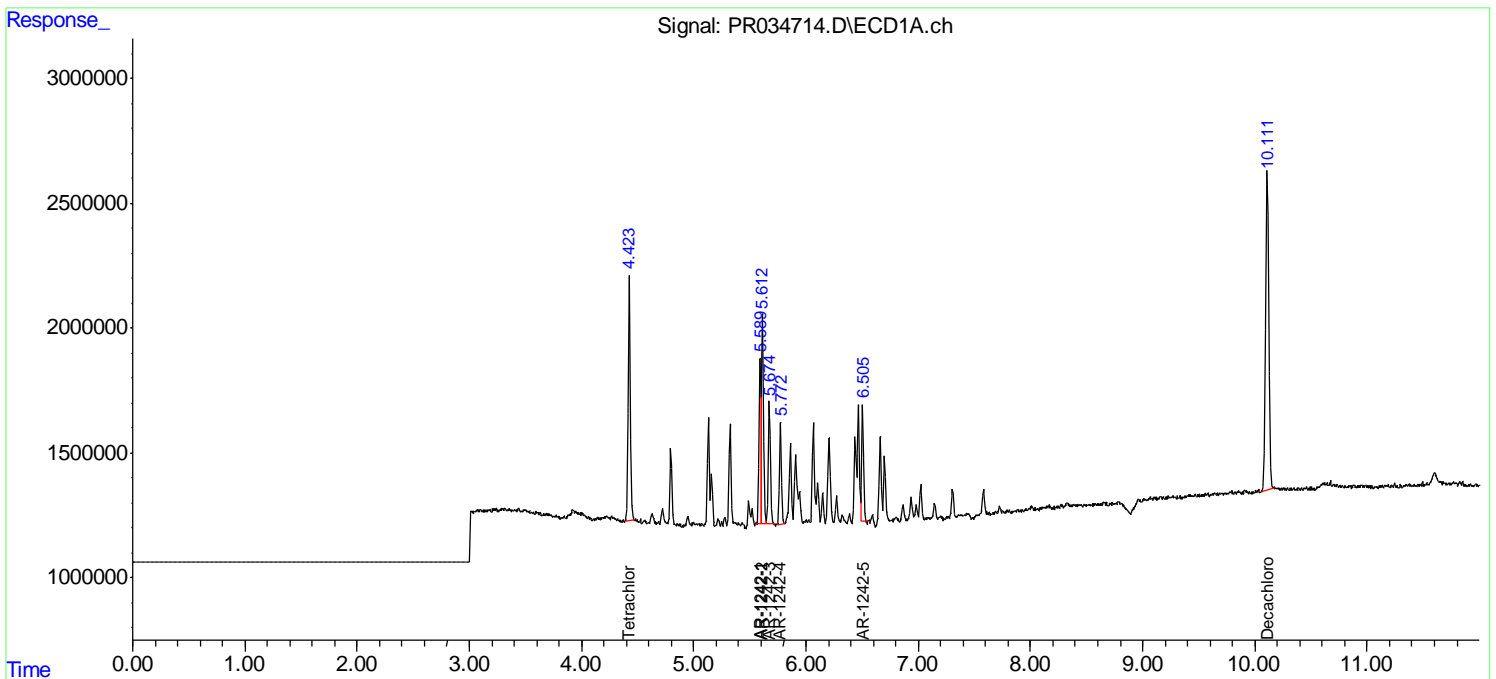
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034714.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:52
 Operator : SM\SJ
 Sample : AR1242ICC100
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:27:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034714.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:52
 Operator : SM\SJ
 Sample : AR1242ICC100
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:27:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 12664279 | 22662152 | 5.977 | 5.832 |
| 2) SA Decachlor... | 10.110 | 8.413 | 25231571 | 55495085 | 11.657 | 11.260 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 7343492 | 14235935 | 126.604 | 125.412 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 10728484 | 20937362 | 126.749 | 122.636 |
| 18) L4 AR-1242-3 | 5.674 | 4.763 | 6340299 | 10352170 | 126.526 | 122.176 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 5045536 | 10562663 | 123.470 | 127.758 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 5660881 | 13826922 | 122.905 | 124.314 |

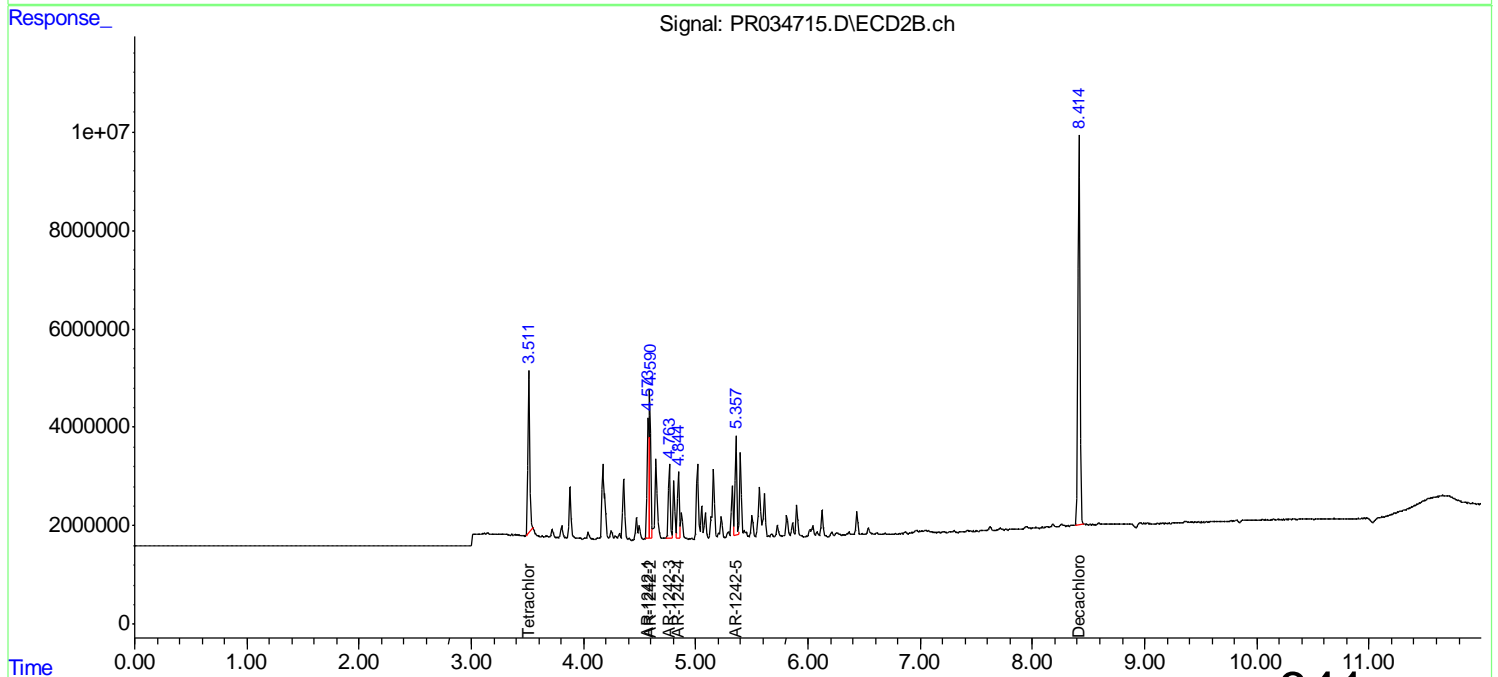
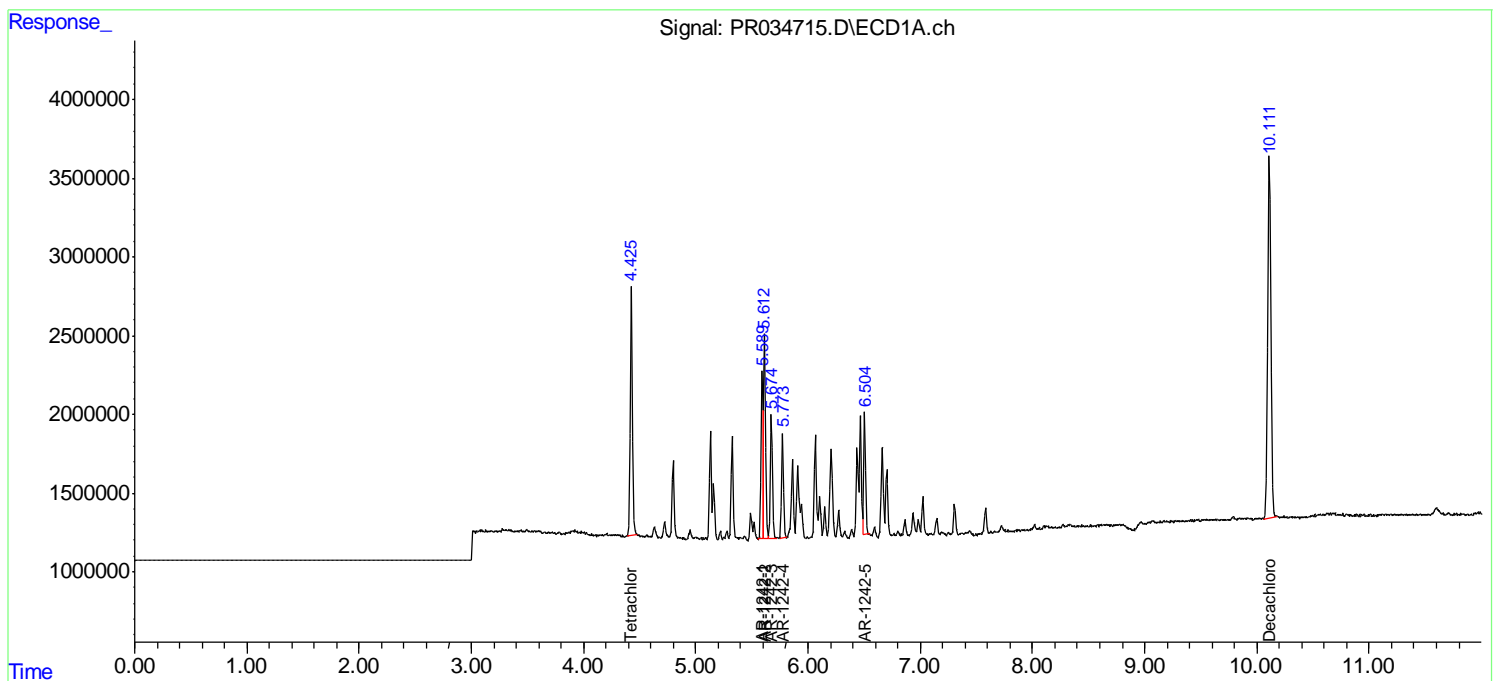
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034715.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:06
 Operator : SM\SJ
 Sample : AR1242ICC200
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:25:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034715.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:06
 Operator : SM\SJ
 Sample : AR1242ICC200
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:25:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.511 | 20674254 | 37194635 | 10.258 | 9.988 |
| 2) SA Decachlor... | 10.111 | 8.415 | 45419405 | 100.7E6 | 21.892 | 21.098 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 11846908 | 22645722 | 218.796 | 213.032 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 16891991 | 33311887 | 213.869 | 206.821 |
| 18) L4 AR-1242-3 | 5.674 | 4.764 | 10151269 | 16822172 | 216.965 | 210.189 |
| 19) L4 AR-1242-4 | 5.773 | 4.845 | 8144757 | 16591814 | 211.736 | 215.647 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 9452224 | 21523837 | 217.686 | 206.040 |

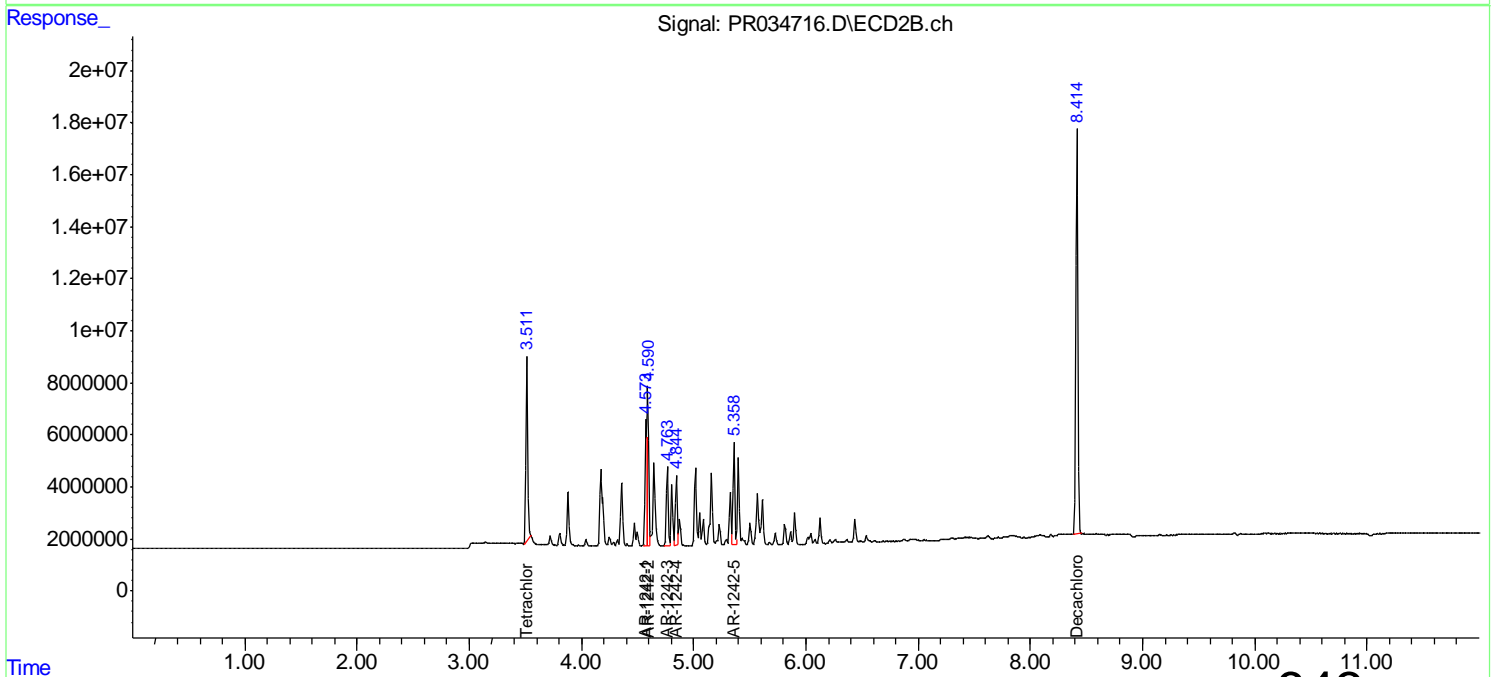
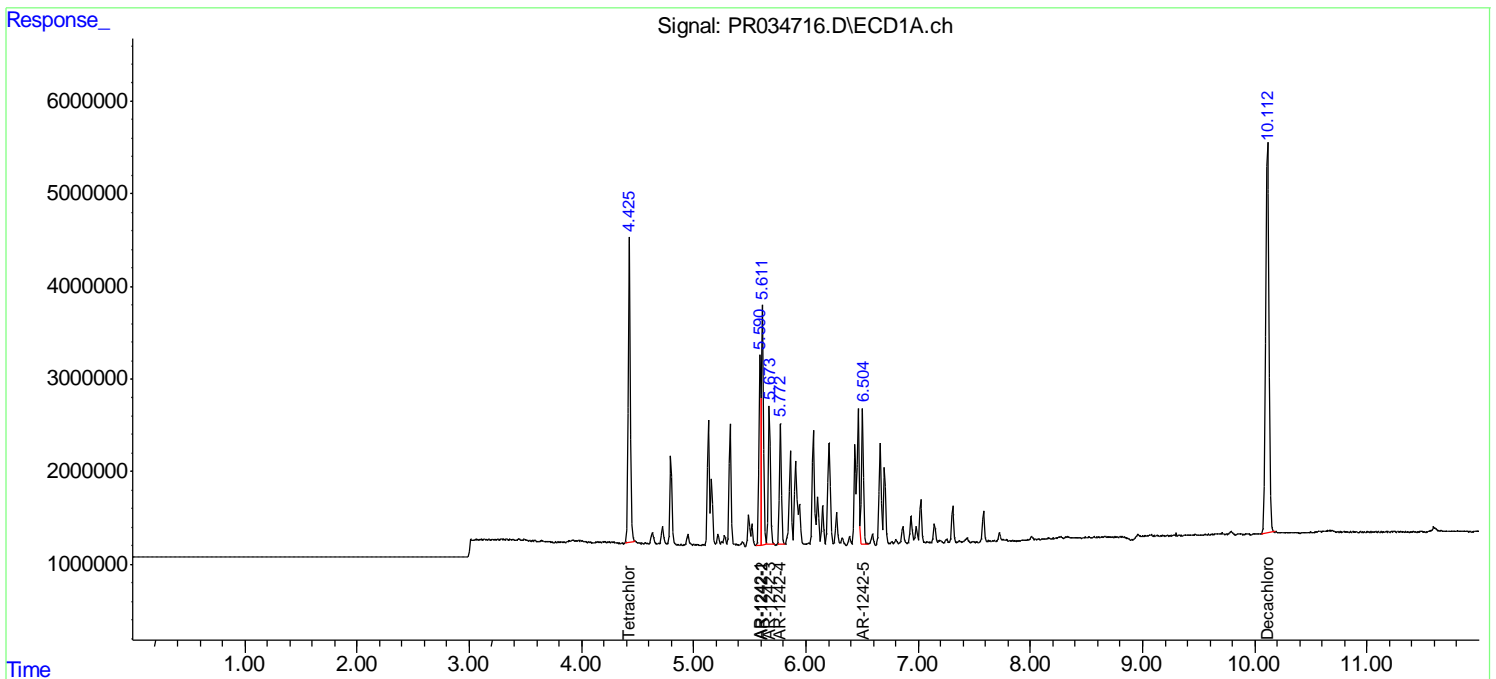
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034716.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 17:21
Operator : SM\SJ
Sample : AR1242ICC400
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1242301

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:19:32 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:18:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034716.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:21
 Operator : SM\SJ
 Sample : AR1242ICC400
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:19:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 42714962 | 78423145 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.112 | 8.414 | 84689972 | 191.5E6 | 40.000 | 40.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.574 | 22700992 | 44220452 | 400.000 | 400.000 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 33386808 | 67517211 | 400.000 | 400.000 |
| 18) L4 AR-1242-3 | 5.674 | 4.764 | 19792331 | 33364752 | 400.000 | 400.000 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 16286557 | 32248202 | 400.000 | 400.000 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 18156281 | 43533489 | 400.000 | 400.000 |

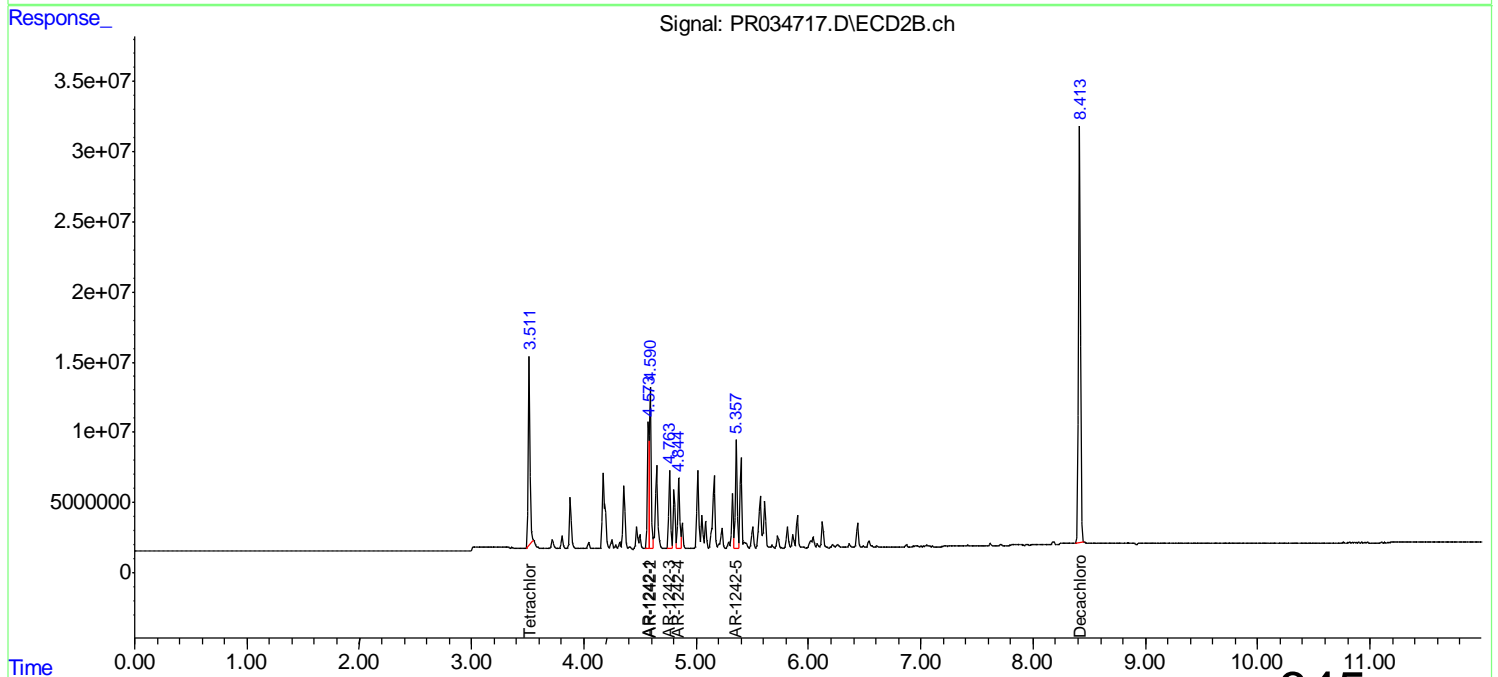
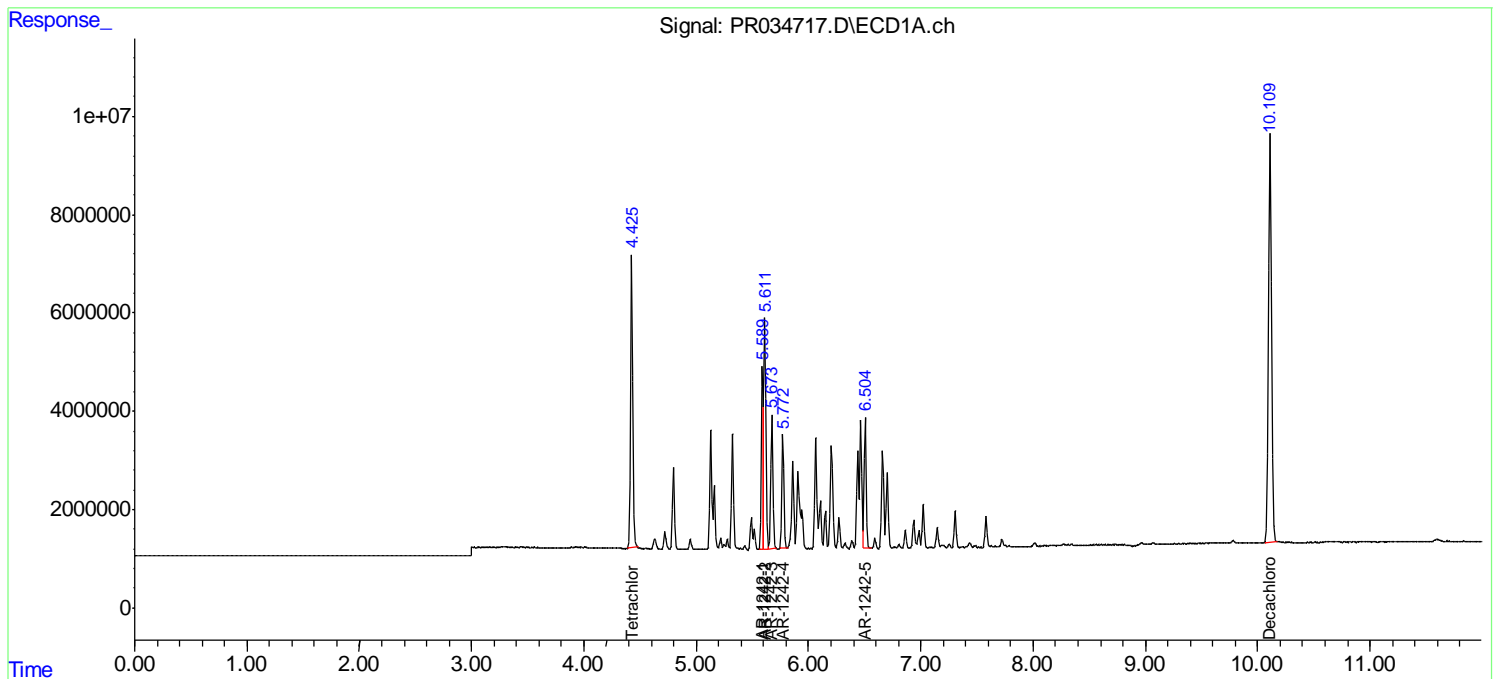
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034717.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:35
 Operator : SM\SJ
 Sample : AR1242ICC800
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:24:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034717.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:35
 Operator : SM\SJ
 Sample : AR1242ICC800
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:24:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|---------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 78087304 | 145.9E6 | 39.081 | 39.155 |
| 2) SA Decachlor... | 10.110 | 8.413 | 159.9E6 | 374.9E6 | 79.570 | 80.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 41289669 | 82019474 | 787.225 | 788.701 |
| 17) L4 AR-1242-2 | 5.611 | 4.590 | 60743105 | 125.8E6 | 787.265 | 789.788 |
| 18) L4 AR-1242-3 | 5.674 | 4.763 | 35924006 | 62363916 | 790.150 | 792.681 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 29808960 | 59356362 | 790.390 | 792.121 |
| 20) L4 AR-1242-5 | 6.504 | 5.357 | 33490538 | 82492651 | 794.715 | 797.702 |

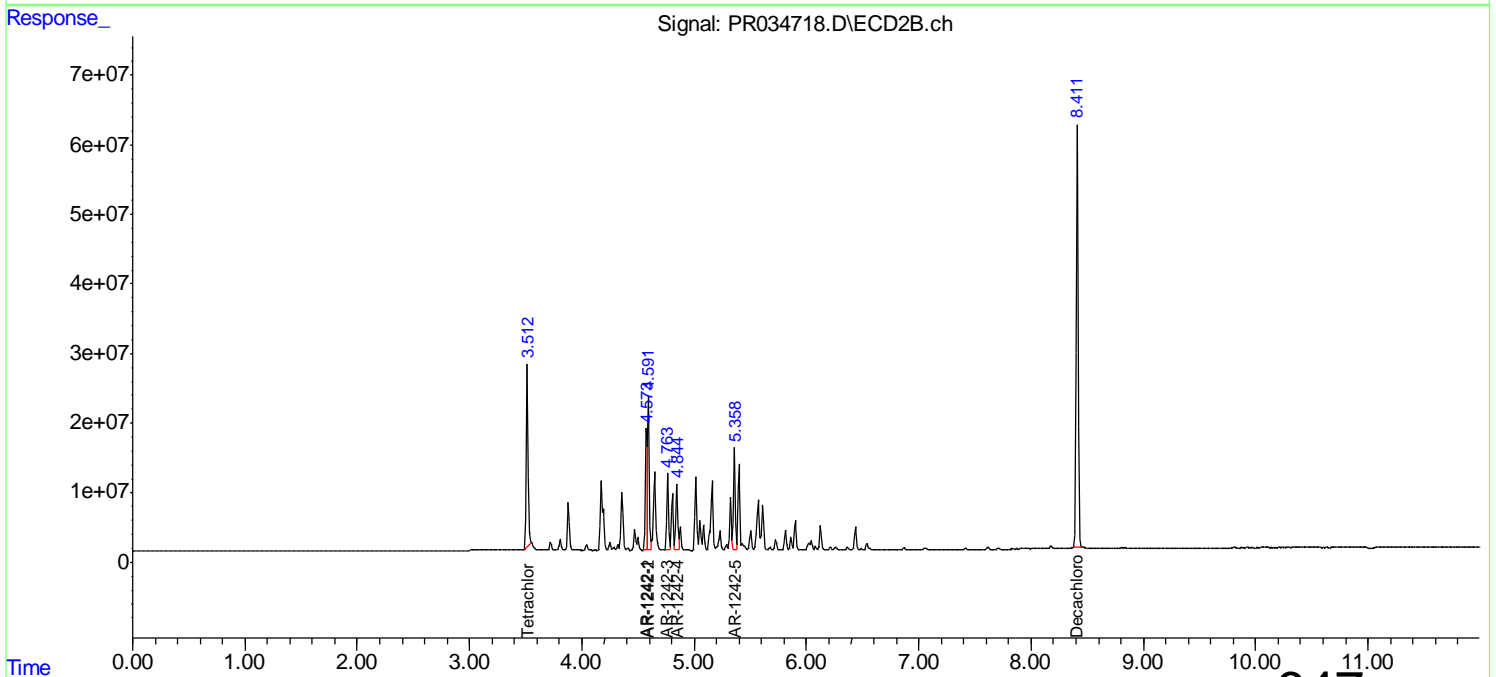
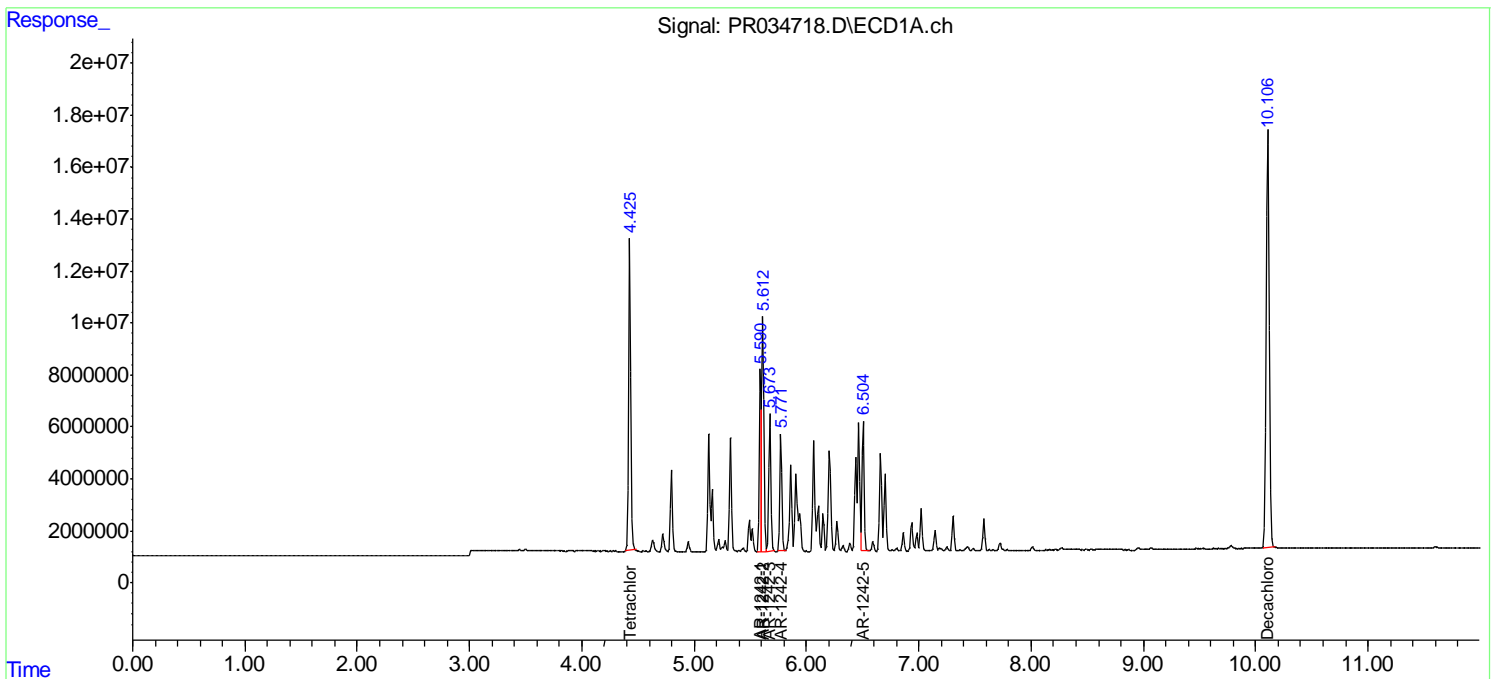
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034718.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:50
 Operator : SM\SJ
 Sample : AR1242ICC1600
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:22:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034718.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:50
 Operator : SM\SJ
 Sample : AR1242IC1600
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:22:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 152.5E6 | 288.7E6 | 75.458 | 76.679 |
| 2) SA Decachlor... | 10.107 | 8.411 | 305.9E6 | 733.6E6 | 151.856 | 156.565 |
| Target Compounds | | | | | | |
| 16) L4 AR-1242-1 | 5.590 | 4.574 | 78375003 | 158.2E6 | 1482.454 | 1511.030 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 115.3E6 | 242.7E6 | 1482.822 | 1514.724 |
| 18) L4 AR-1242-3 | 5.673 | 4.763 | 67213626 | 119.5E6 | 1469.321 | 1511.383 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 56264135 | 112.0E6 | 1482.948 | 1487.004 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 62673269 | 157.3E6 | 1482.312 | 1518.544 |
| ----- | | | | | | |

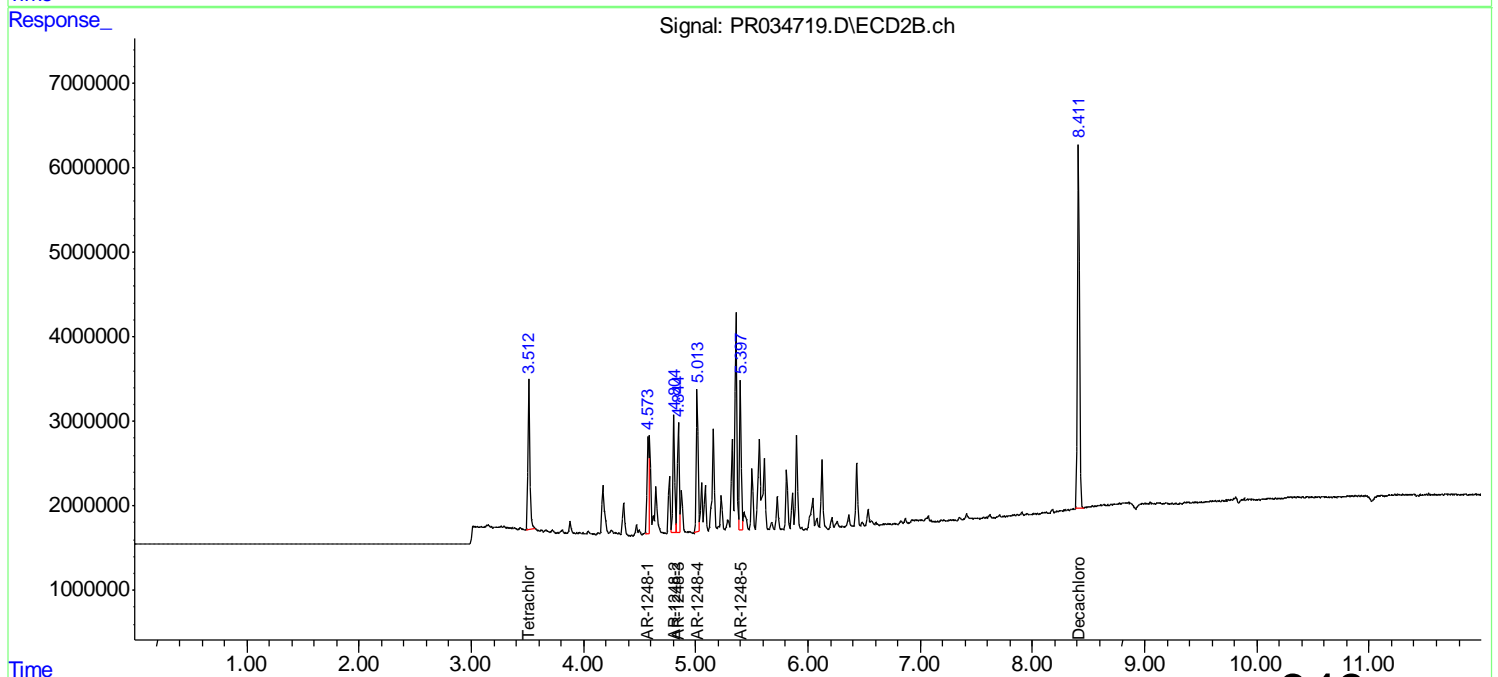
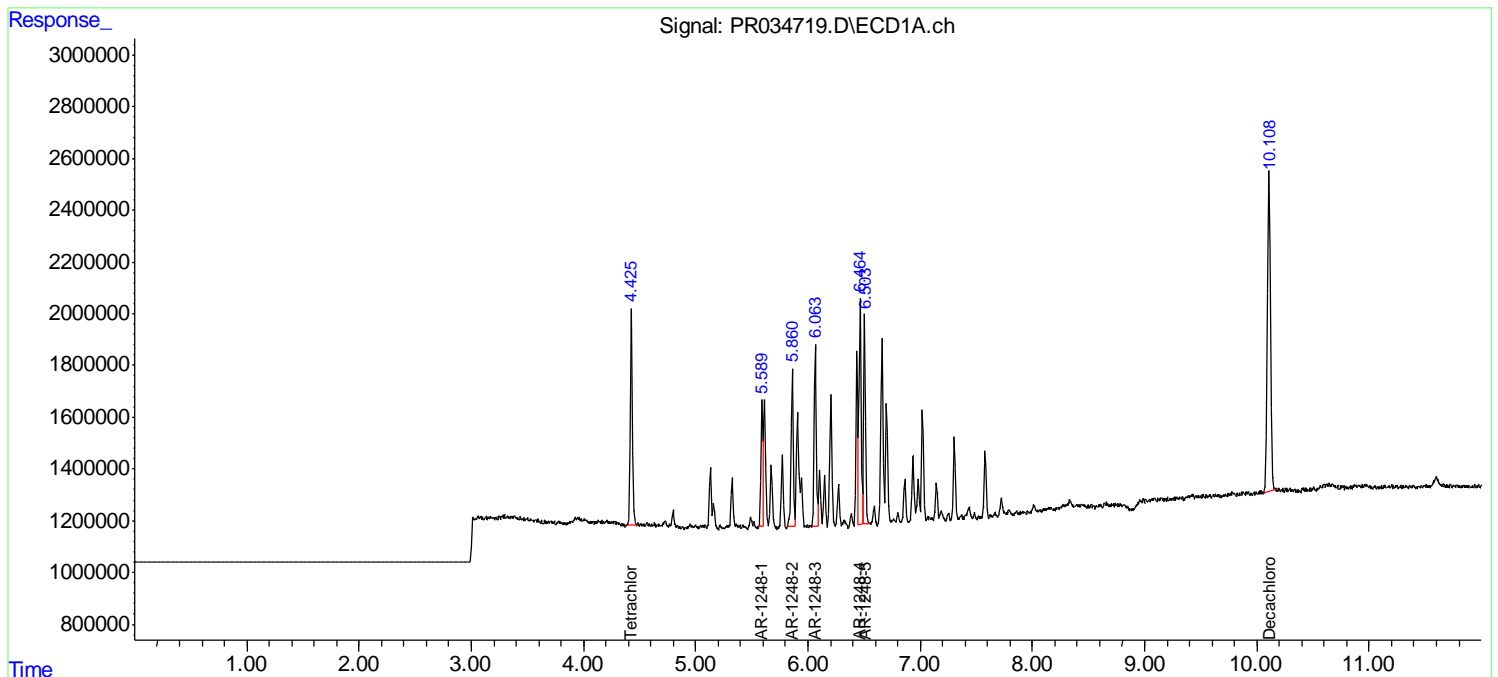
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034719.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:04
 Operator : SM\SJ
 Sample : AR1248ICC100
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:14:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034719.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:04
 Operator : SM\SJ
 Sample : AR1248ICC100
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:14:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 10596509 | 20558008 | 5.494 | 5.416 |
| 2) SA Decachlor... | 10.108 | 8.411 | 24260173 | 53497263 | 11.773 | 11.353 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 5644615 | 11395924 | 116.330 | 116.879 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 7855188 | 15037956 | 118.886 | 117.390 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 8662803 | 15483188 | 115.945 | 117.317 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 10758858 | 19225969 | 120.418 | 116.854 |
| 25) L5 AR-1248-5 | 6.503 | 5.397 | 9998215 | 19197784 | 119.498 | 114.712 |

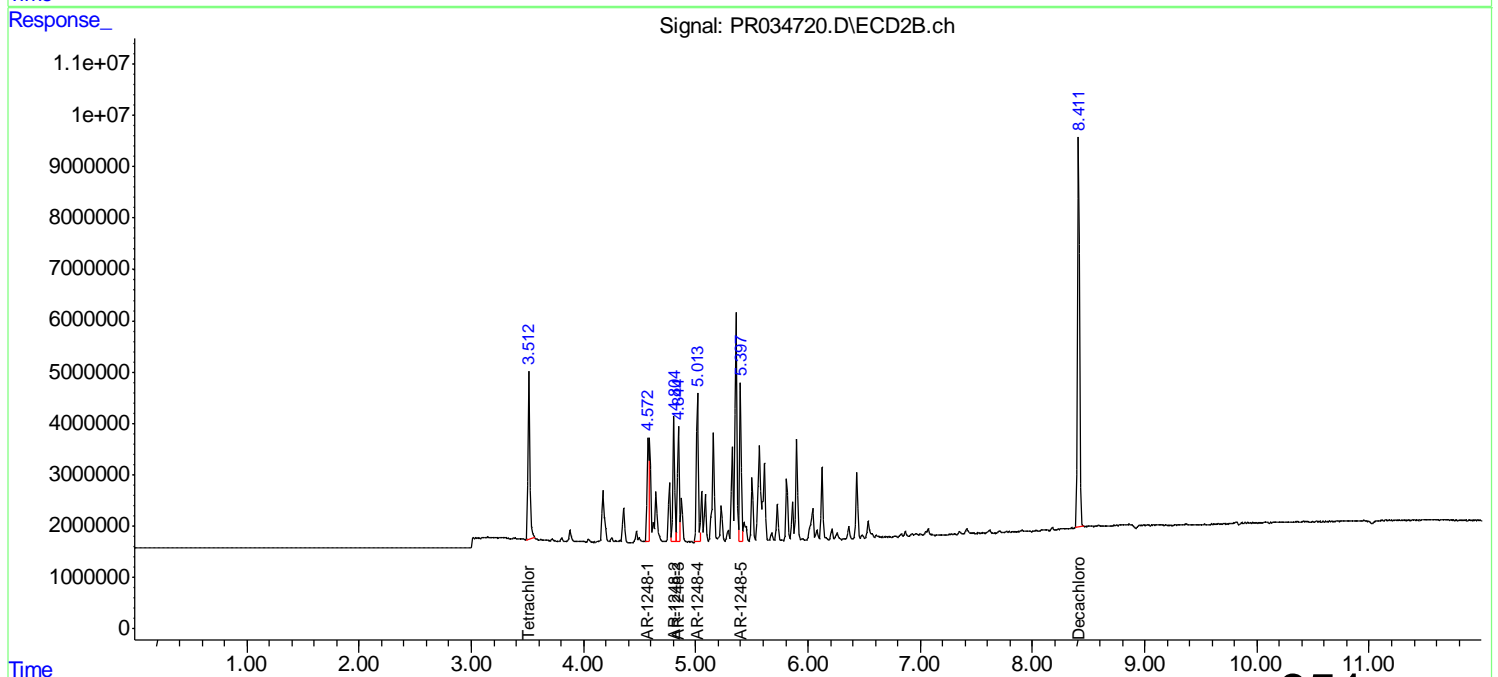
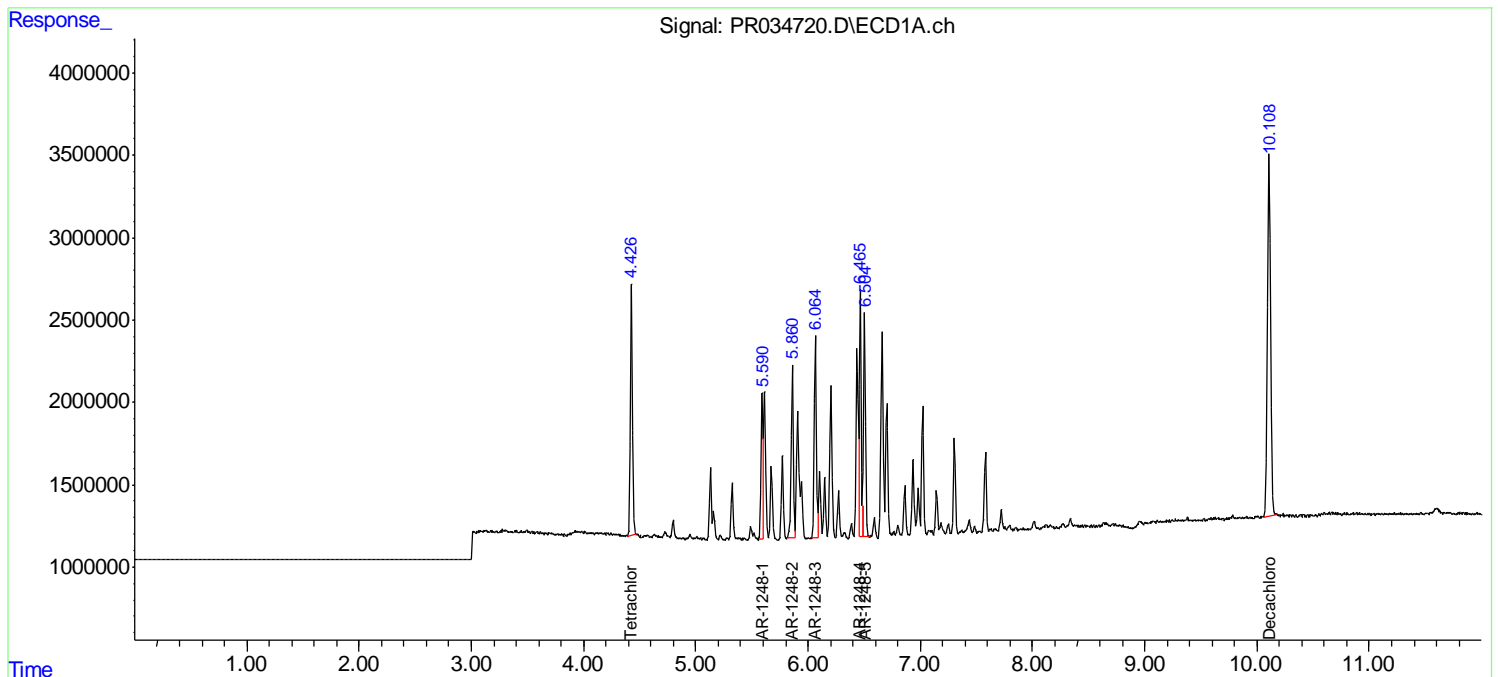
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034720.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:19
 Operator : SM\SJ
 Sample : AR1248ICC200
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:12:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034720.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:19
 Operator : SM\SJ
 Sample : AR1248ICC200
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:12:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 19311458 | 37756266 | 10.265 | 10.158 |
| 2) SA Decachlor... | 10.108 | 8.411 | 43120556 | 95868504 | 21.895 | 21.058 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 10133677 | 19891589 | 217.733 | 213.001 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 13756929 | 26257104 | 218.524 | 214.286 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 15539016 | 27015510 | 216.612 | 213.961 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 18532275 | 33310678 | 218.579 | 211.365 |
| 25) L5 AR-1248-5 | 6.503 | 5.398 | 17145706 | 33799587 | 215.426 | 209.675 |

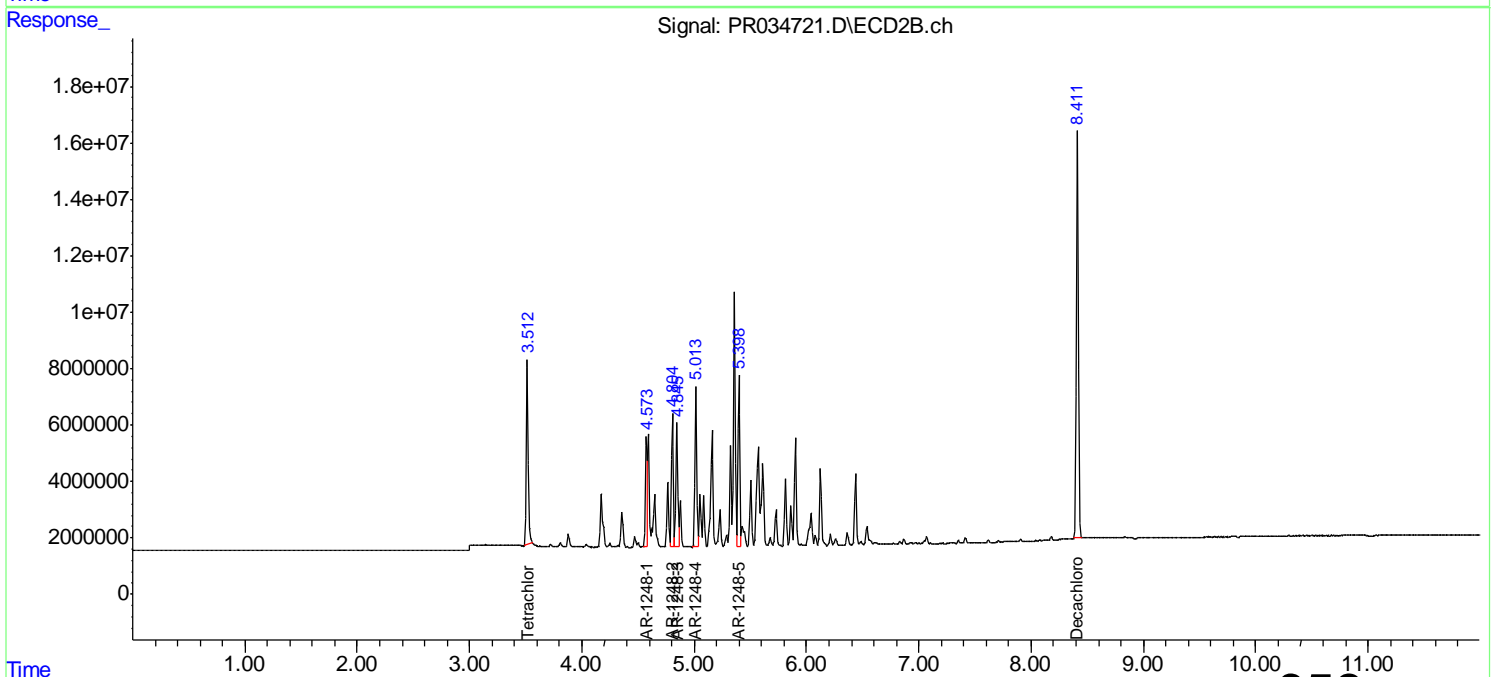
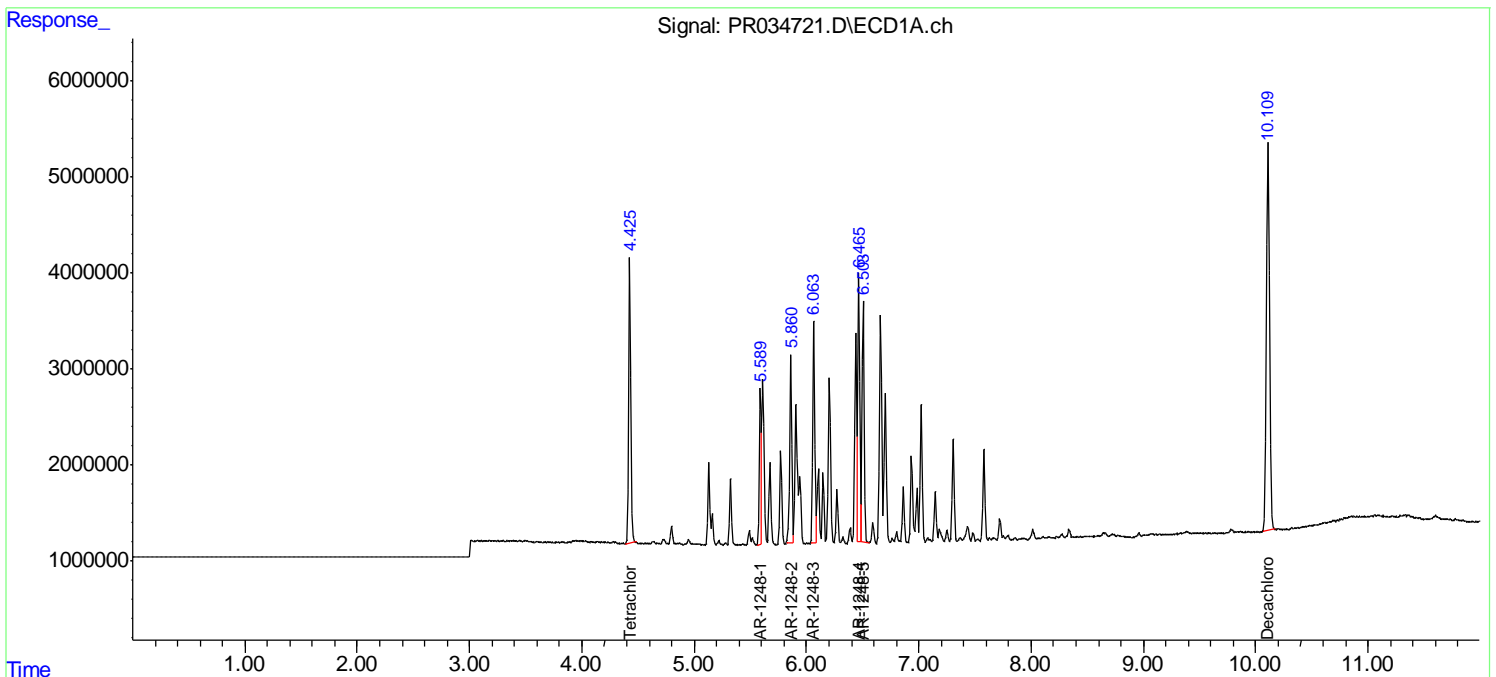
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034721.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:33
 Operator : SM\SJ
 Sample : AR1248ICC400
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:07:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034721.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:33
 Operator : SM\SJ
 Sample : AR1248ICC400
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:07:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.513 | 37883389 | 74840055 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.109 | 8.412 | 79948328 | 182.6E6 | 40.000 | 40.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.574 | 19157578 | 38224589 | 400.000 | 400.000 |
| 22) L5 AR-1248-2 | 5.861 | 4.805 | 25866591 | 50143822 | 400.000 | 400.000 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 29369639 | 51644058 | 400.000 | 400.000 |
| 24) L5 AR-1248-4 | 6.466 | 5.014 | 34666634 | 64194126 | 400.000 | 400.000 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 32656350 | 65507192 | 400.000 | 400.000 |

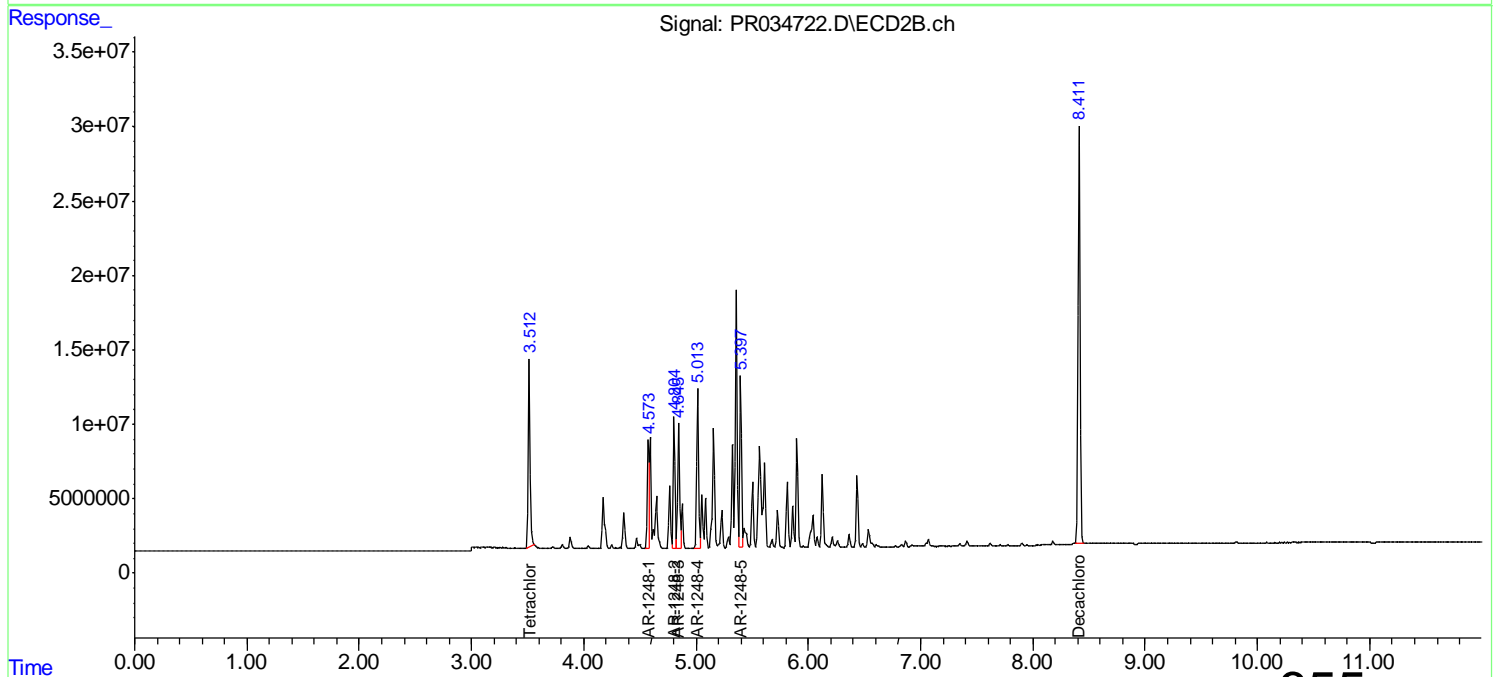
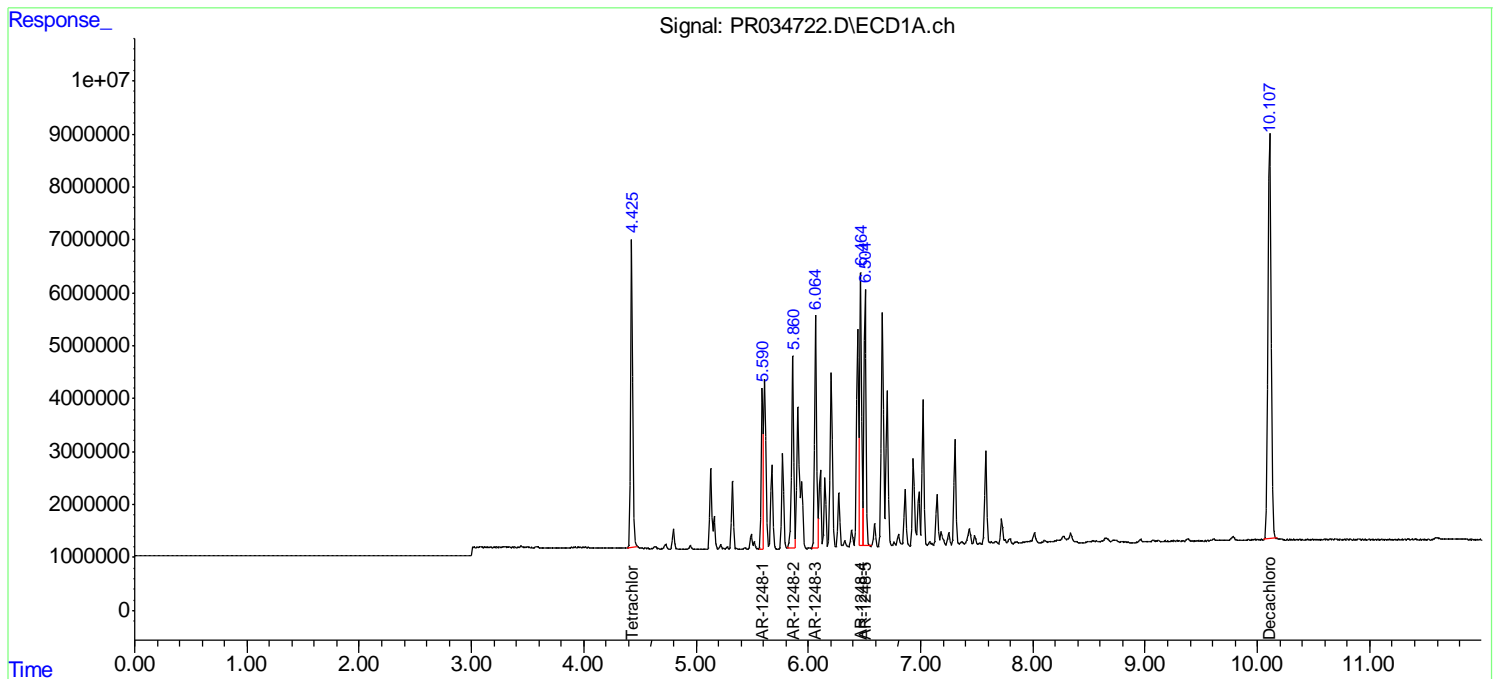
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034722.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:48
 Operator : SM\SJ
 Sample : AR1248ICC800
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:10:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034722.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:48
 Operator : SM\SJ
 Sample : AR1248ICC800
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:10:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|---------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.513 | 73168560 | 144.5E6 | 39.241 | 39.073 |
| 2) SA Decachlor... | 10.107 | 8.411 | 150.2E6 | 353.4E6 | 78.738 | 79.008 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.574 | 35430871 | 71878621 | 784.455 | 786.730 |
| 22) L5 AR-1248-2 | 5.861 | 4.805 | 48064469 | 94073990 | 787.809 | 786.469 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 54977024 | 97033054 | 788.196 | 786.804 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 64894647 | 121.8E6 | 789.858 | 787.716 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 61299364 | 125.1E6 | 790.516 | 788.760 |

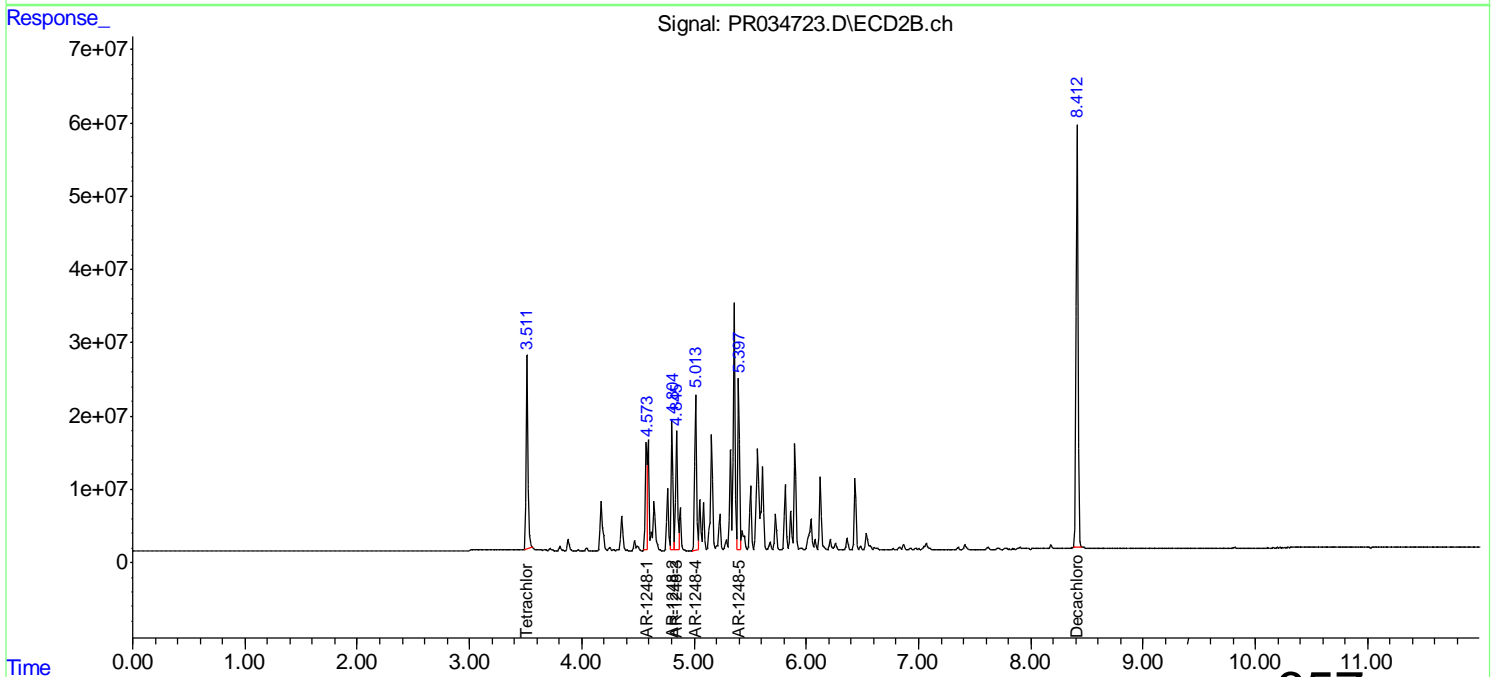
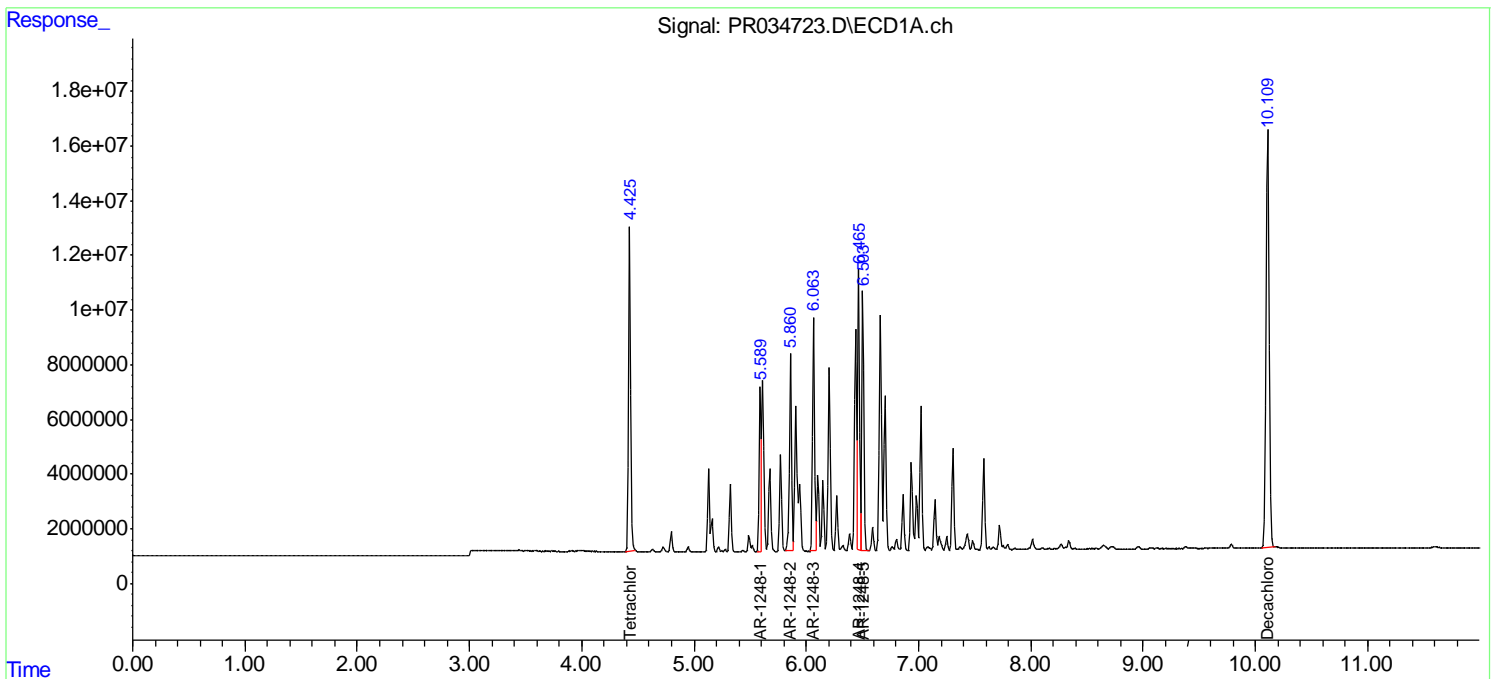
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034723.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 19:02
Operator : SM\SJ
Sample : AR1248ICC1600
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1248501

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:08:44 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034723.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:02
 Operator : SM\SJ
 Sample : AR1248IC1600
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AR1248501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:08:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|---------|---------|---------|---------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 149.6E6 | 299.1E6 | 79.495 | 79.960 |
| 2) SA Decachlor... | 10.109 | 8.412 | 295.3E6 | 709.6E6 | 153.636 | 157.690 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|---------|----------|----------|
| 21) L5 AR-1248-1 | 5.589 | 4.573 | 69305721 | 141.9E6 | 1519.695 | 1540.253 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 93254286 | 185.4E6 | 1516.941 | 1537.231 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 107.4E6 | 191.3E6 | 1528.067 | 1538.653 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 125.9E6 | 241.8E6 | 1522.867 | 1551.882 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 119.0E6 | 249.1E6 | 1525.383 | 1559.399 |

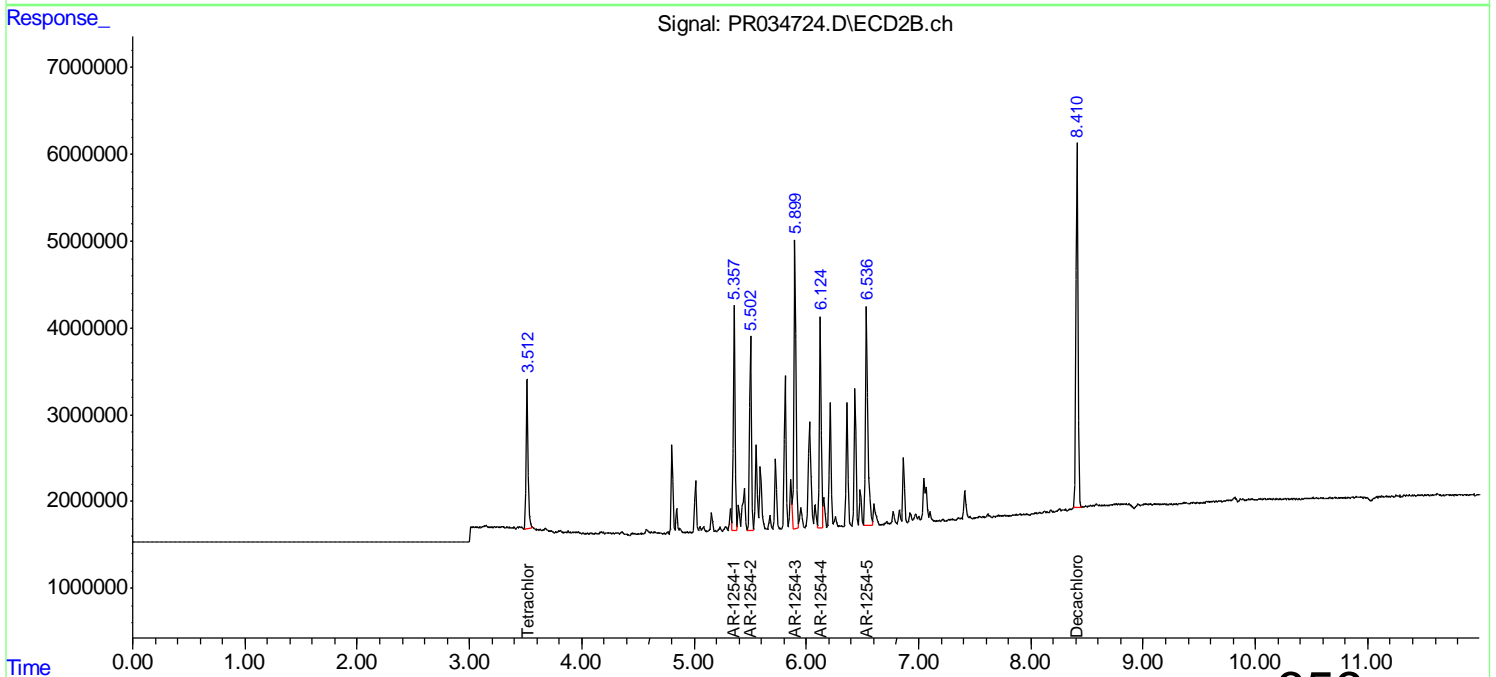
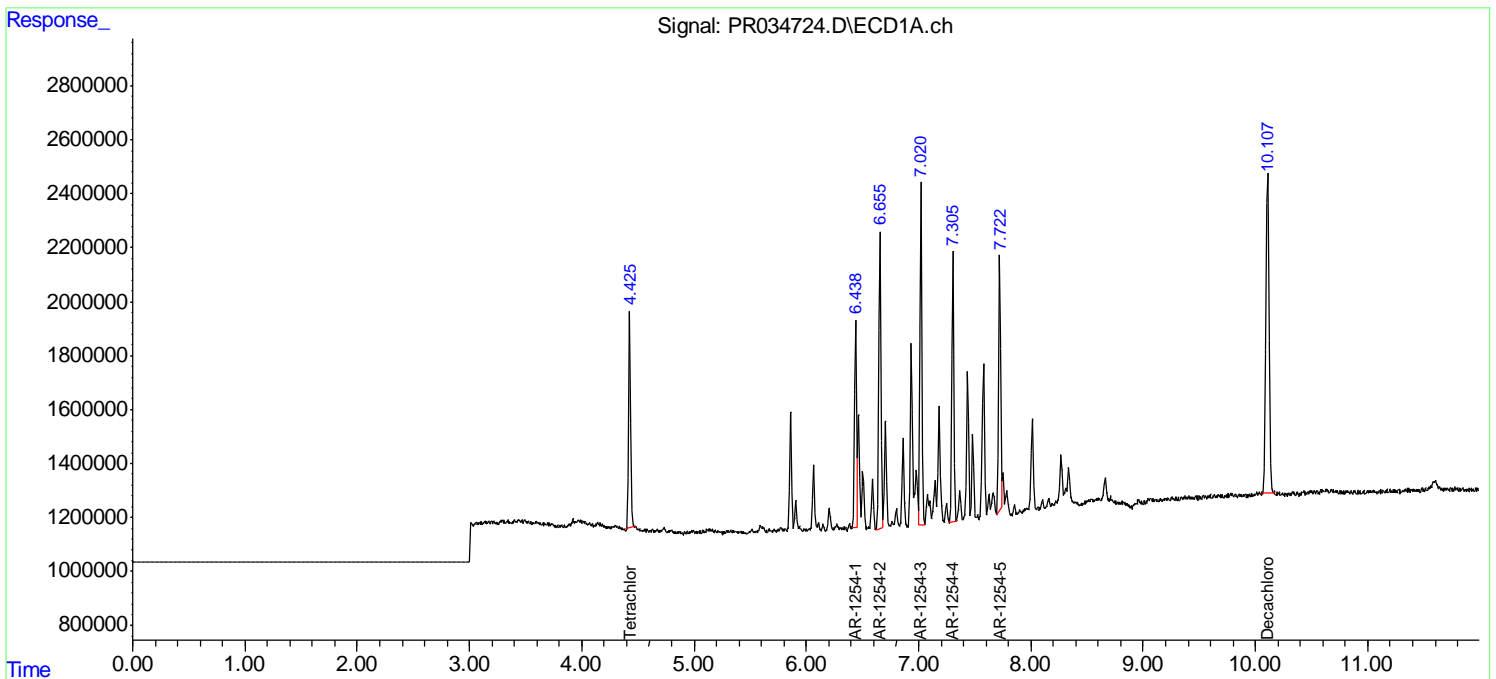
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034724.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 19:16
Operator : SM\SJ
Sample : AR1254ICC100
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1254101

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:01:58 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 00:54:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034724.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:16
 Operator : SM\SJ
 Sample : AR1254ICC100
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:01:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 9917849 | 20124920 | 5.214 | 5.296 |
| 2) SA Decachlor... | 10.108 | 8.410 | 23774976 | 53197664 | 11.680 | 11.314 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 26) L6 AR-1254-1 | 6.438 | 5.357 | 9594718 | 28148025 | 117.431 | 115.034 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 15097550 | 24673536 | 118.156 | 116.007 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 15713416 | 40291379 | 116.420 | 112.760 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 12474953 | 27181959 | 117.602 | 115.085 |
| 30) L6 AR-1254-5 | 7.722 | 6.536 | 12077306 | 36150322 | 112.721 | 113.345 |

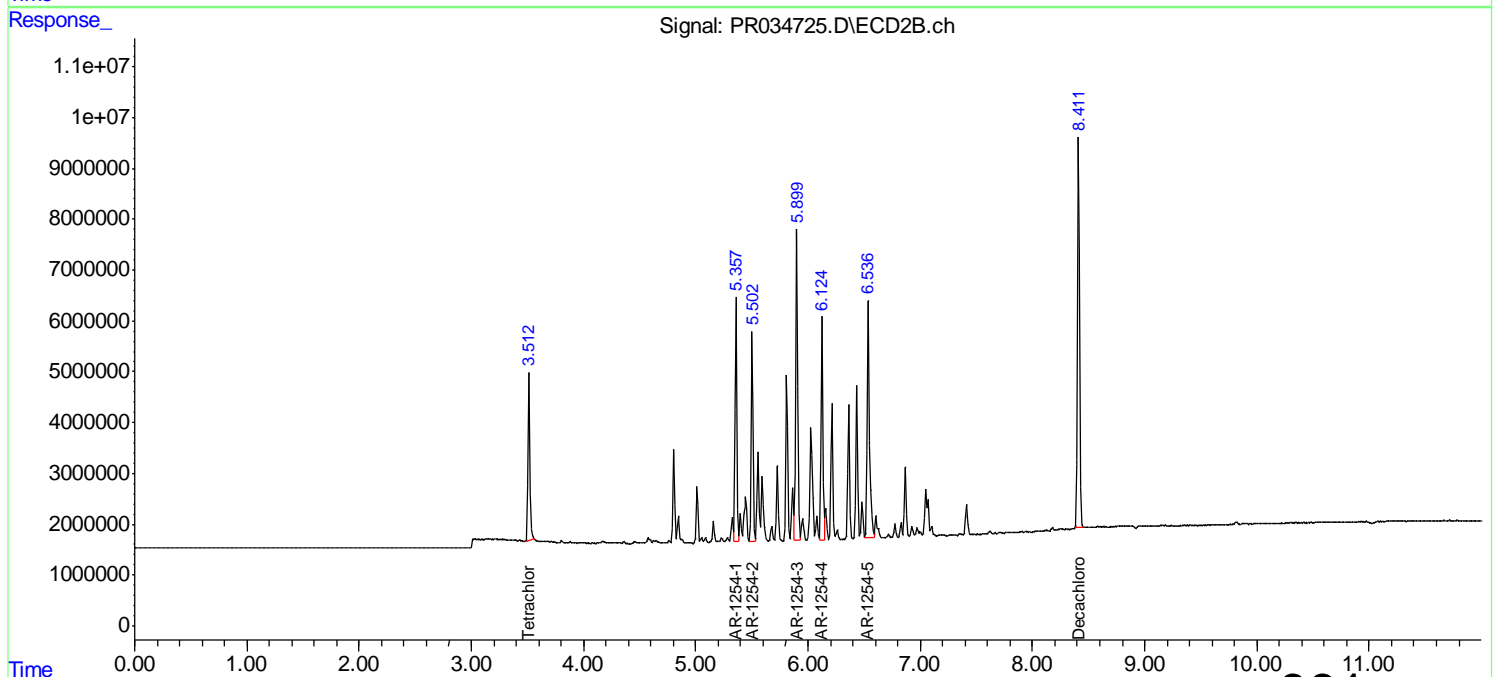
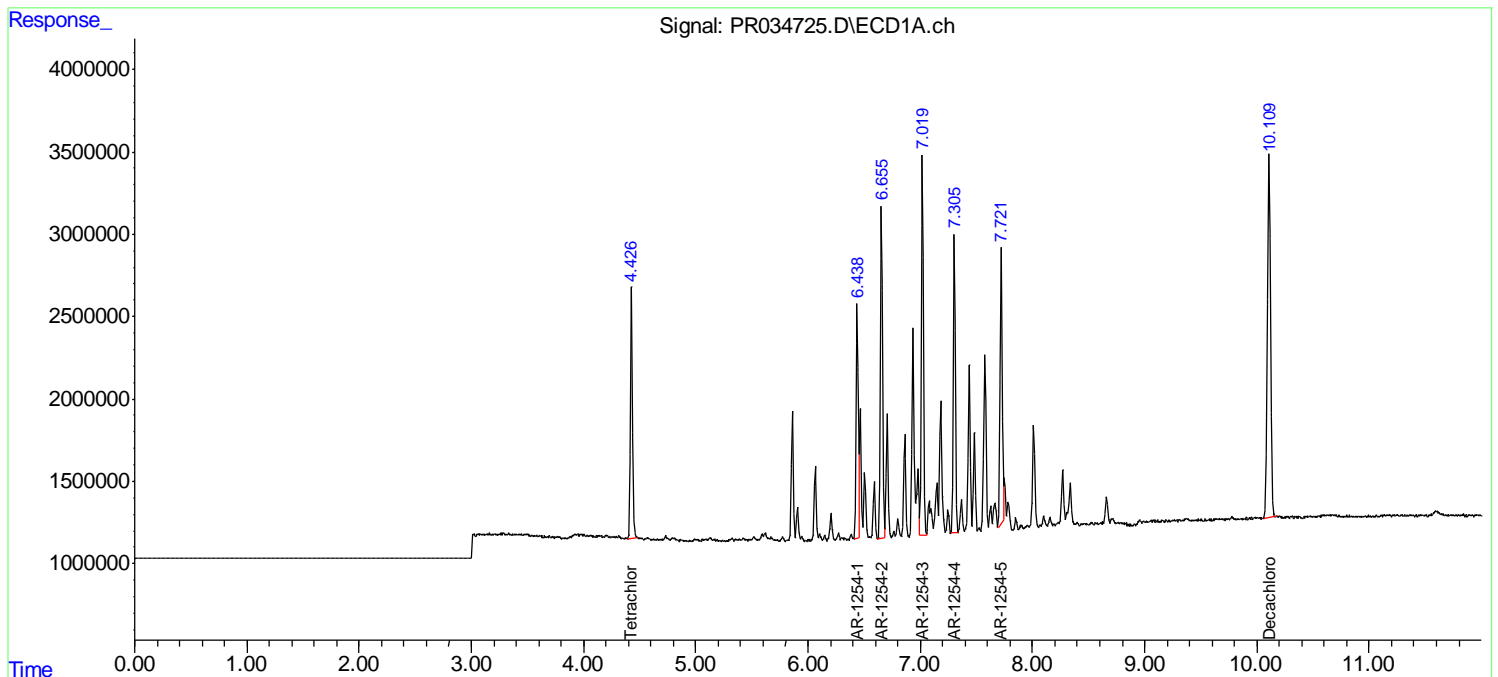
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034725.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:31
 Operator : SM\SJ
 Sample : AR1254ICC200
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:00:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034725.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:31
 Operator : SM\SJ
 Sample : AR1254ICC200
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:00:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 19299483 | 38193886 | 10.255 | 10.201 |
| 2) SA Decachlor... | 10.109 | 8.411 | 43361128 | 97755901 | 22.236 | 21.497 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 26) L6 AR-1254-1 | 6.438 | 5.358 | 17586853 | 51686350 | 225.056 | 219.478 |
| 27) L6 AR-1254-2 | 6.655 | 5.503 | 27347956 | 44974477 | 224.206 | 220.271 |
| 28) L6 AR-1254-3 | 7.020 | 5.900 | 28691835 | 74827474 | 221.676 | 216.315 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 22682673 | 49638863 | 223.673 | 218.401 |
| 30) L6 AR-1254-5 | 7.721 | 6.536 | 22298376 | 67175070 | 214.953 | 217.888 |

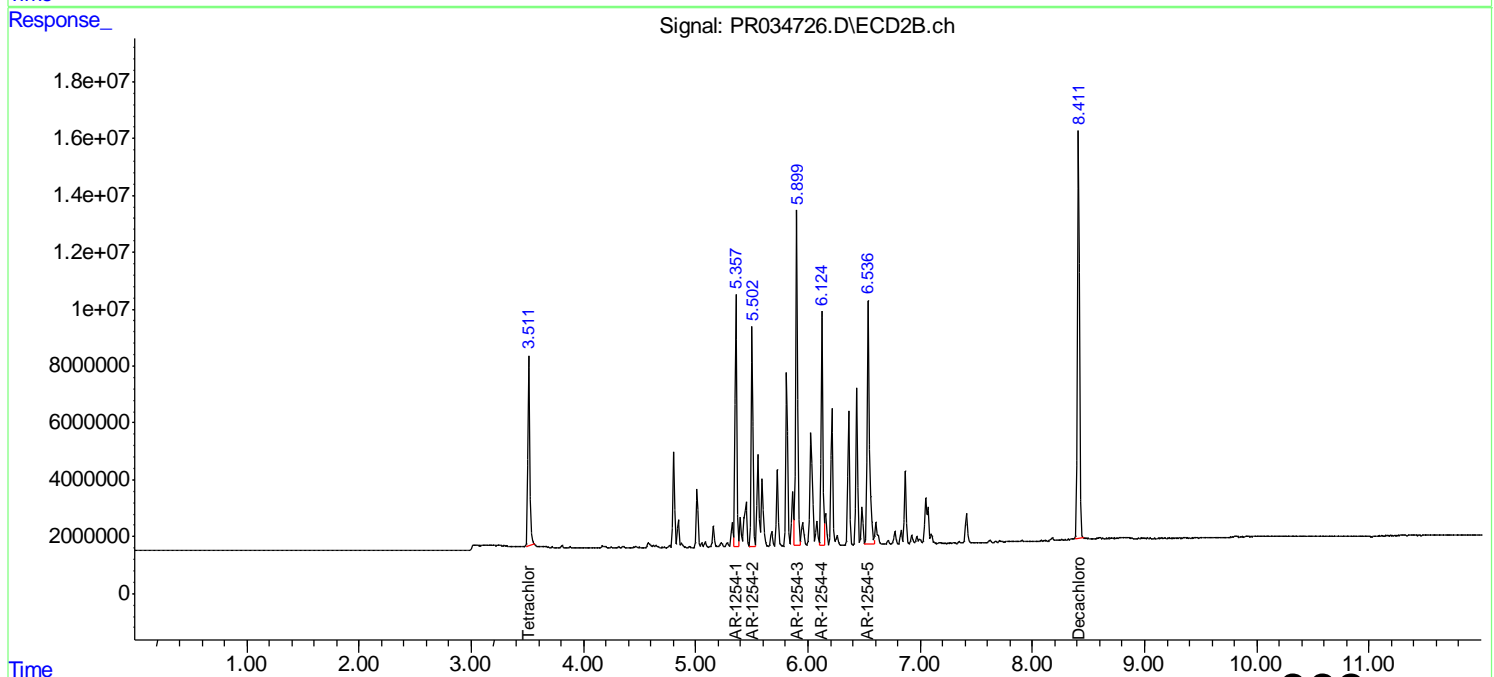
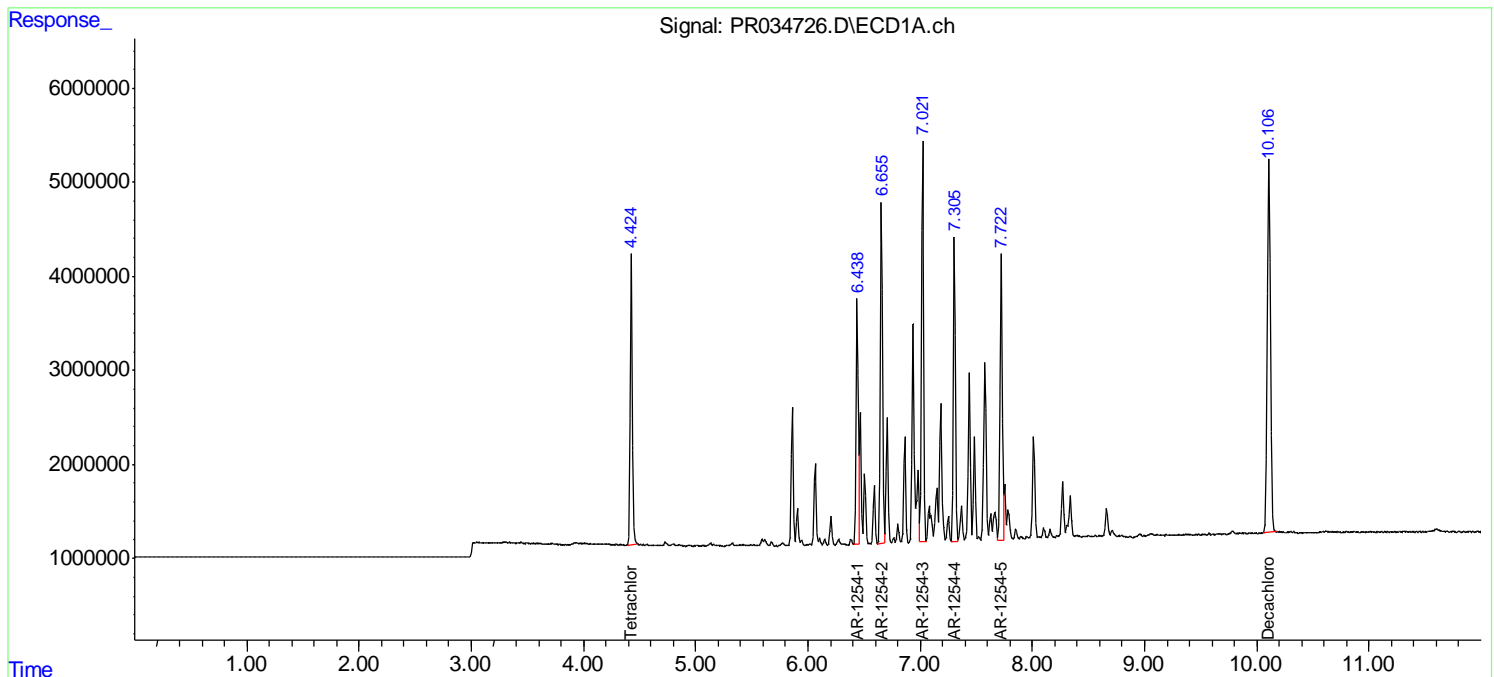
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034726.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 19:45
Operator : SM\SJ
Sample : AR1254ICC400
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1254301

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 00:55:01 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 00:54:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034726.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:45
 Operator : SM\SJ
 Sample : AR1254ICC400
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:55:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 39657624 | 78345289 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.107 | 8.411 | 78338617 | 180.2E6 | 40.000 | 40.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 26) L6 AR-1254-1 | 6.439 | 5.357 | 32352687 | 96735032 | 400.000 | 400.000 |
| 27) L6 AR-1254-2 | 6.655 | 5.503 | 49917162 | 82874415 | 400.000 | 400.000 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 52218701 | 138.2E6 | 400.000 | 400.000 |
| 29) L6 AR-1254-4 | 7.305 | 6.125 | 41002519 | 90058057 | 400.000 | 400.000 |
| 30) L6 AR-1254-5 | 7.722 | 6.537 | 41963439 | 121.5E6 | 400.000 | 400.000 |

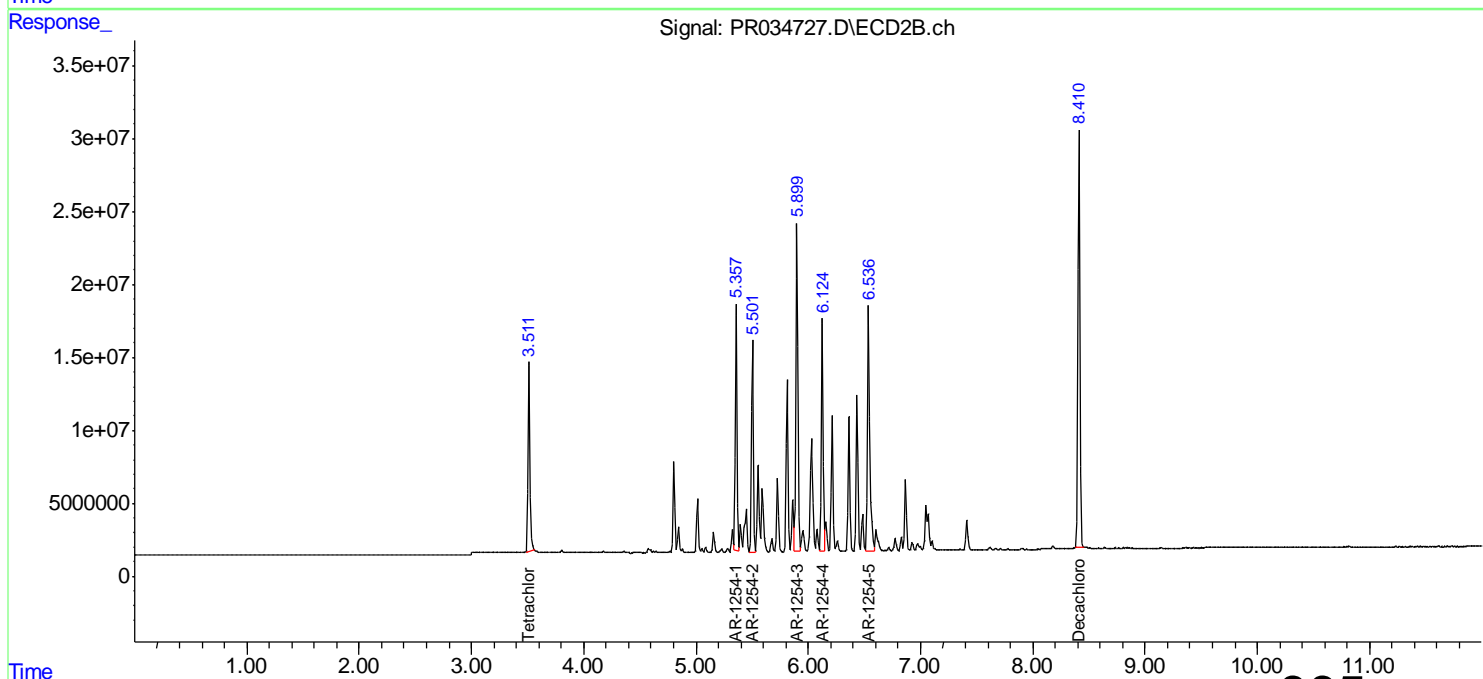
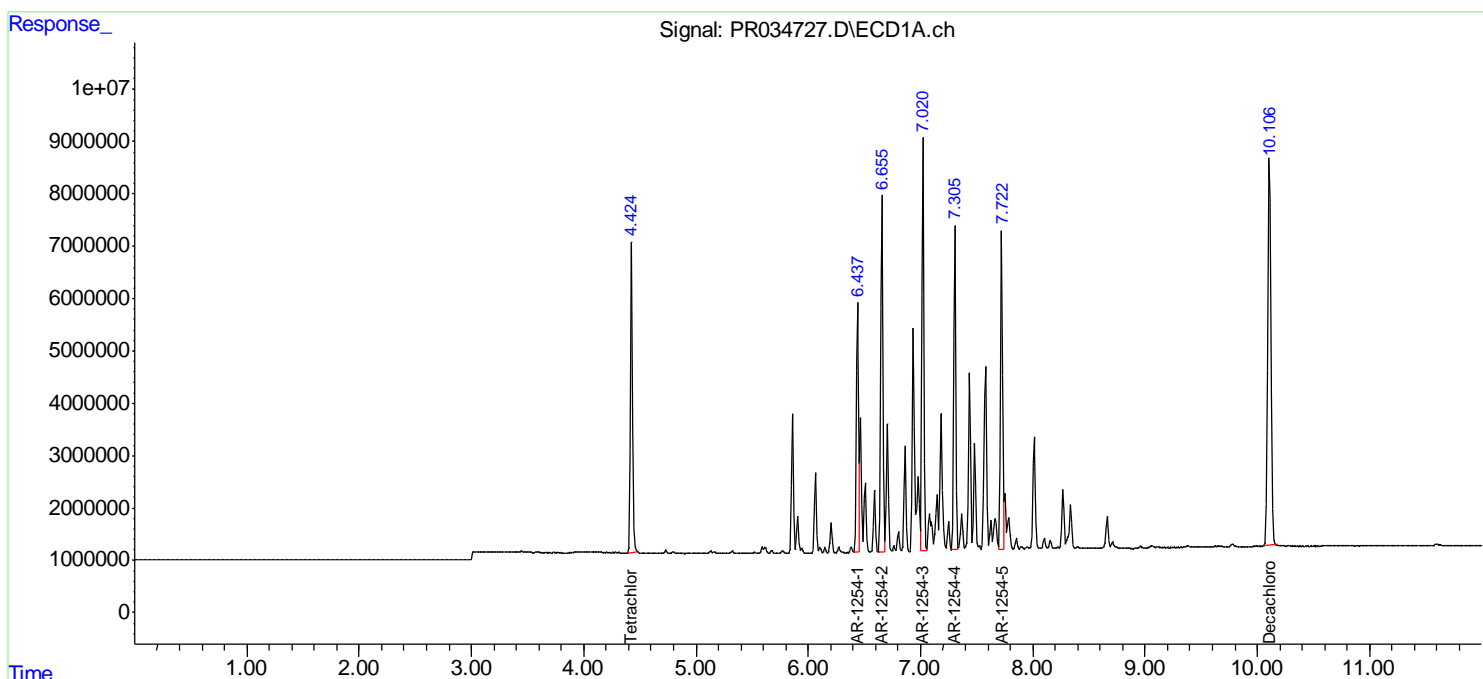
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034727.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:00
 Operator : SM\SJ
 Sample : AR1254ICC800
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:58:12 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034727.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:00
 Operator : SM\SJ
 Sample : AR1254ICC800
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:58:12 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 74721740 | 149.2E6 | 40.045 | 40.130 |
| 2) SA Decachlor... | 10.107 | 8.411 | 147.6E6 | 349.4E6 | 78.642 | 78.802 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.437 | 5.357 | 58683163 | 178.9E6 | 783.683 | 785.019 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 92010345 | 155.3E6 | 786.037 | 787.002 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 97965525 | 265.4E6 | 785.259 | 788.625 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 76557043 | 174.0E6 | 785.935 | 789.942 |
| 30) L6 AR-1254-5 | 7.722 | 6.536 | 79533332 | 235.9E6 | 786.286 | 788.541 |
| ----- | | | | | | |

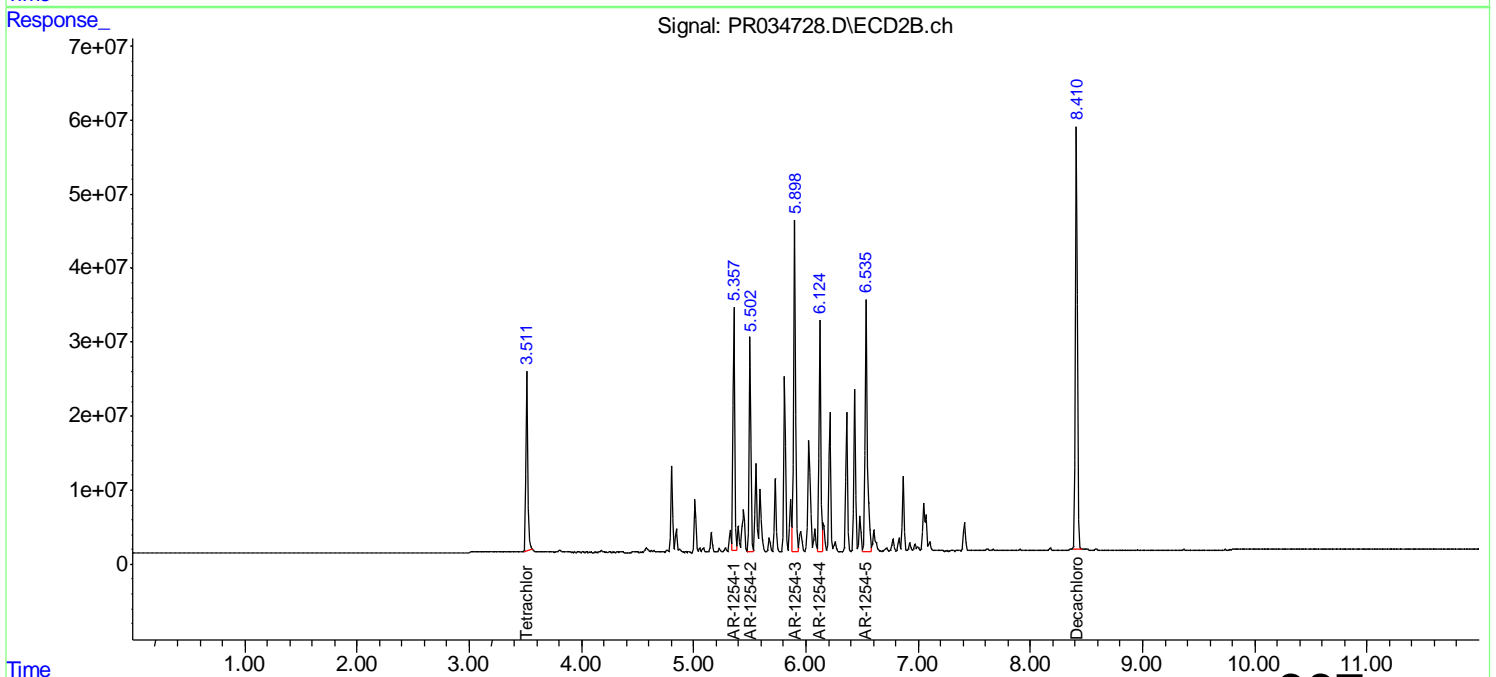
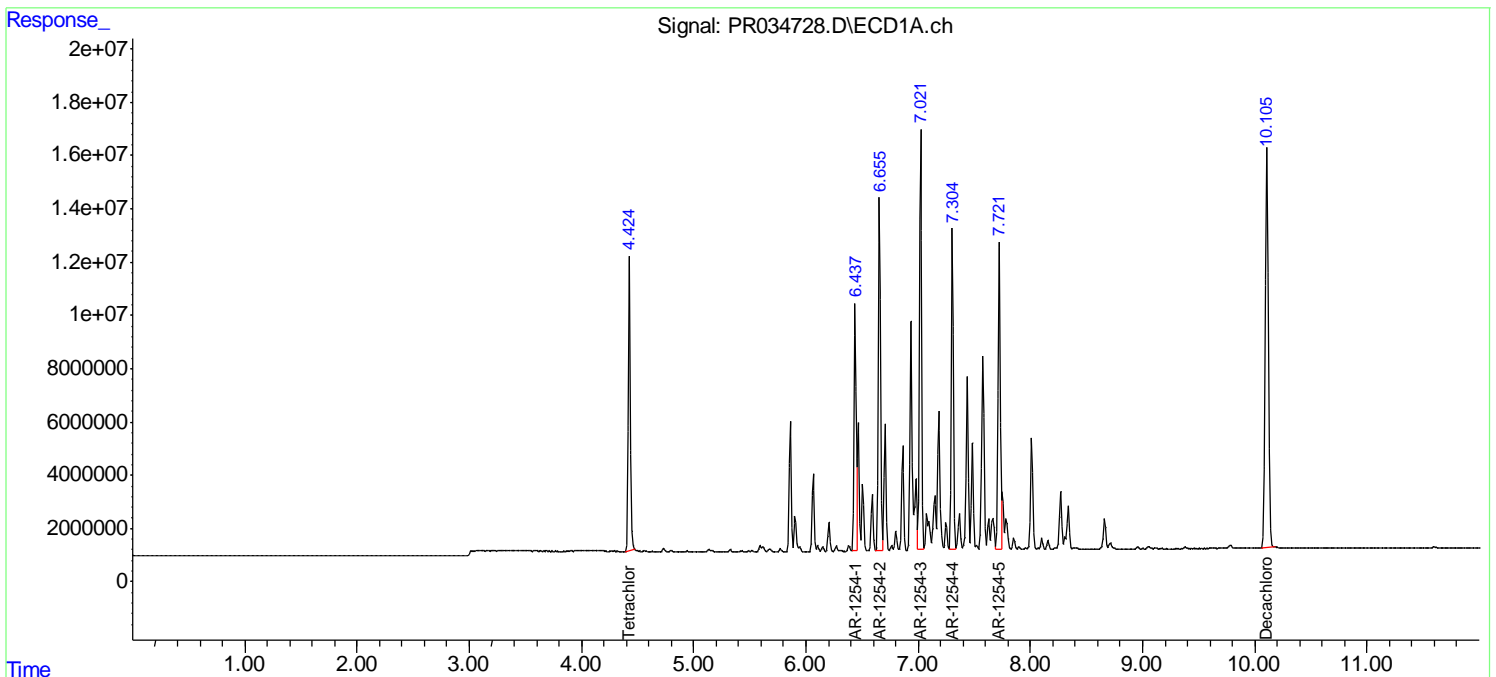
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034728.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:14
 Operator : SM\SJ
 Sample : AR1254ICC1600
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:56:36 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034728.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:14
 Operator : SM\SJ
 Sample : AR1254ICC1600
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:56:36 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|---------|---------|---------|---------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 139.8E6 | 280.7E6 | 74.939 | 75.600 |
| 2) SA Decachlor... | 10.107 | 8.410 | 292.5E6 | 708.8E6 | 154.494 | 158.664 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|---------|----------|----------|
| 26) L6 AR-1254-1 | 6.438 | 5.357 | 112.7E6 | 349.0E6 | 1489.233 | 1517.546 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 178.2E6 | 304.9E6 | 1509.003 | 1533.199 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 194.0E6 | 531.7E6 | 1541.013 | 1568.941 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 150.4E6 | 349.2E6 | 1530.942 | 1575.118 |
| 30) L6 AR-1254-5 | 7.721 | 6.536 | 158.6E6 | 477.9E6 | 1554.659 | 1586.371 |

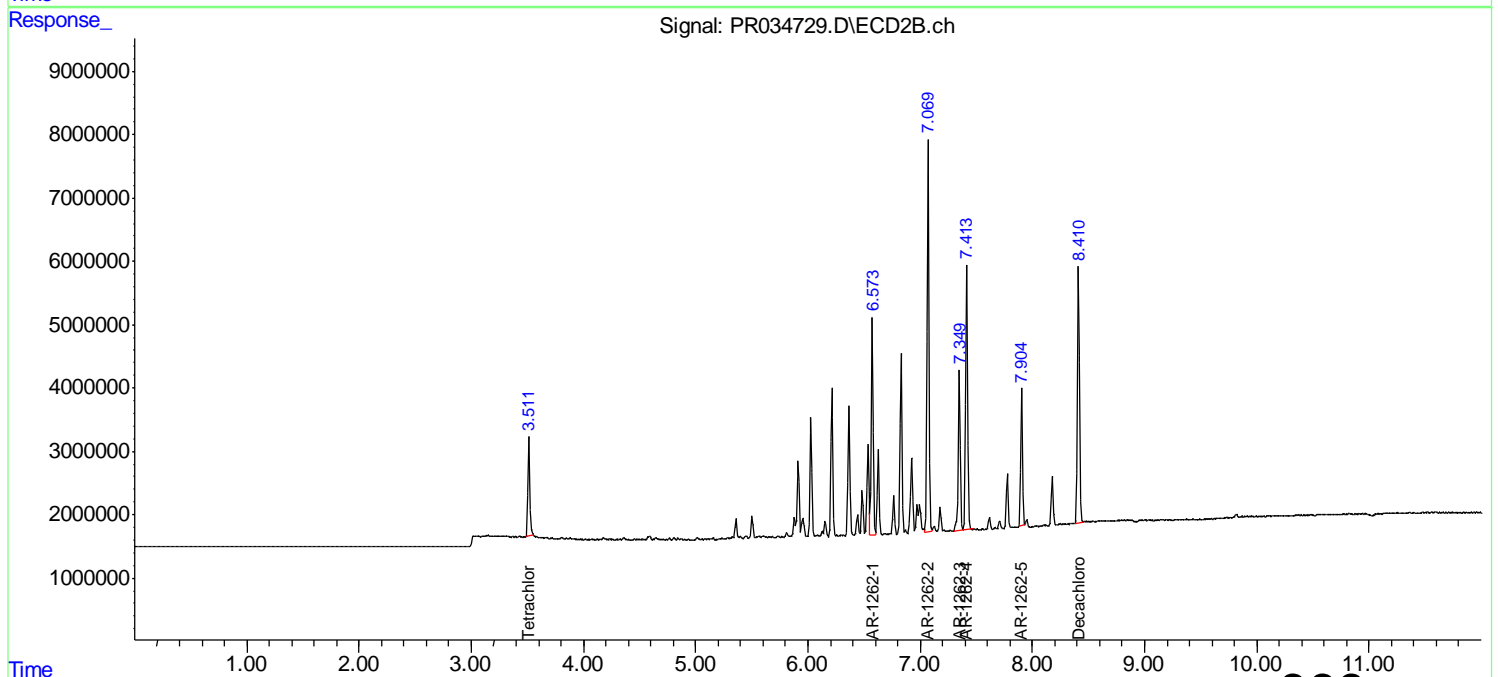
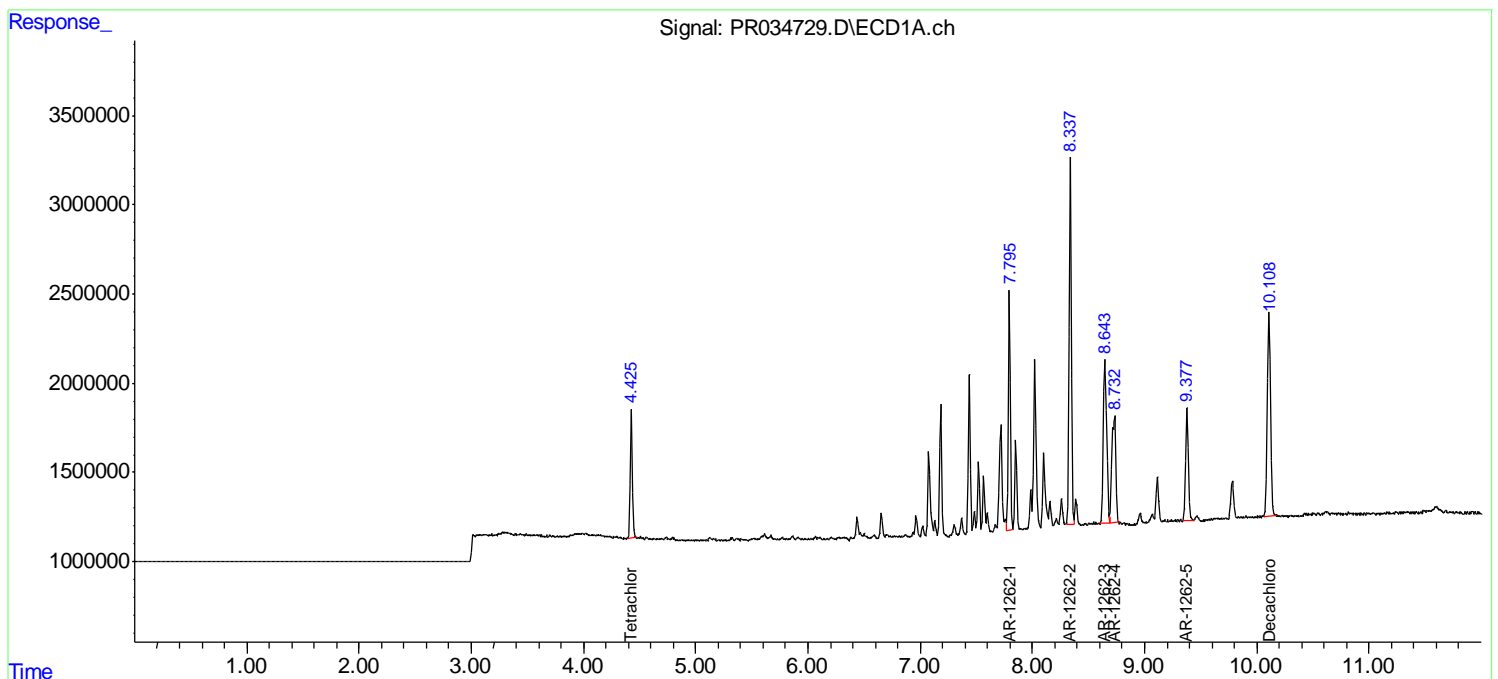
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034729.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:29
 Operator : SM\SJ
 Sample : AR1262ICC100
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1262101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:37:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034729.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:29
 Operator : SM\SJ
 Sample : AR1262ICC100
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1262101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:37:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 9304912 | 18203750 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.109 | 8.411 | 22834273 | 51214722 | 10.000 | 10.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 36) L8 AR-1262-1 | 7.795 | 6.573 | 16240260 | 38853721 | 100.000 | 100.000 |
| 37) L8 AR-1262-2 | 8.338 | 7.070 | 28279950 | 71180783 | 100.000 | 100.000 |
| 38) L8 AR-1262-3 | 8.643 | 7.349 | 19432465 | 30557410 | 100.000 | 100.000 |
| 39) L8 AR-1262-4 | 8.732 | 7.414 | 14757461 | 52355083 | 100.000 | 100.000 |
| 40) L8 AR-1262-5 | 9.378 | 7.904 | 10606987 | 24450127 | 100.000 | 100.000 |

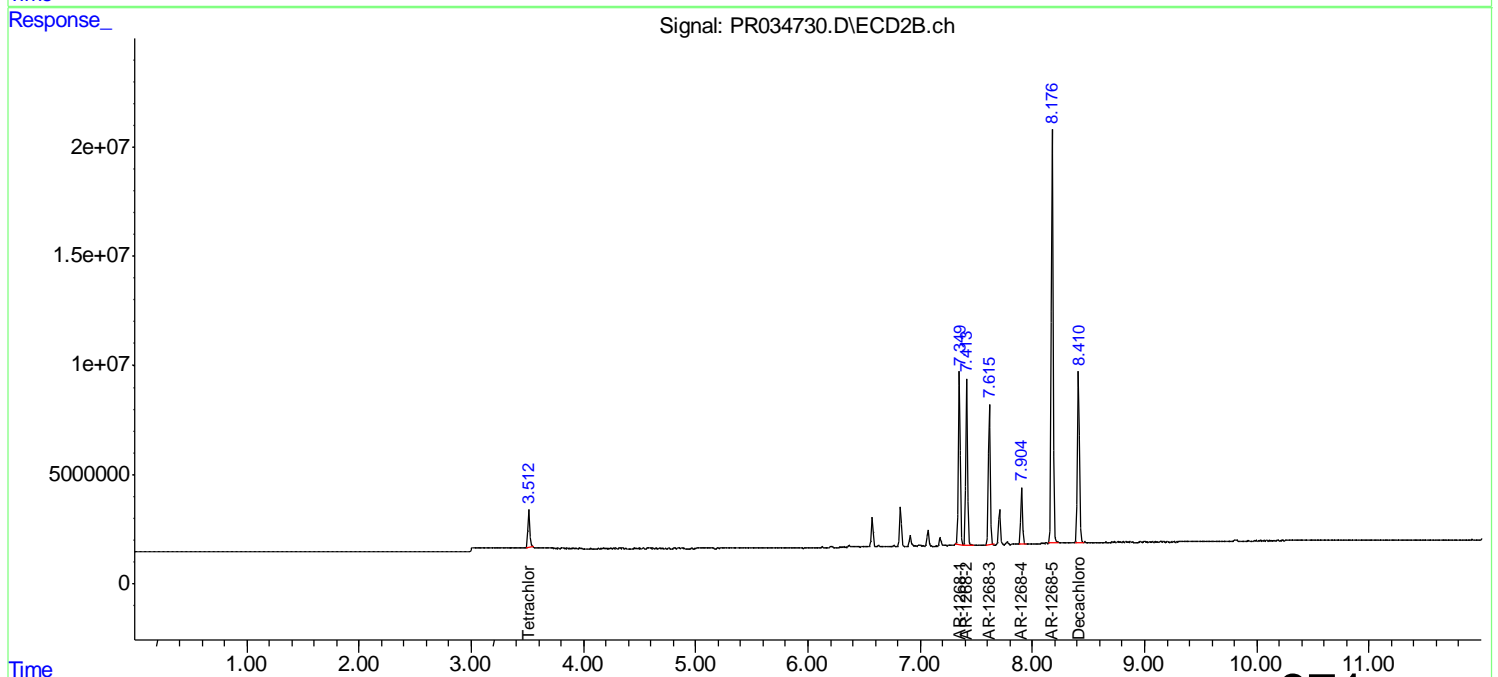
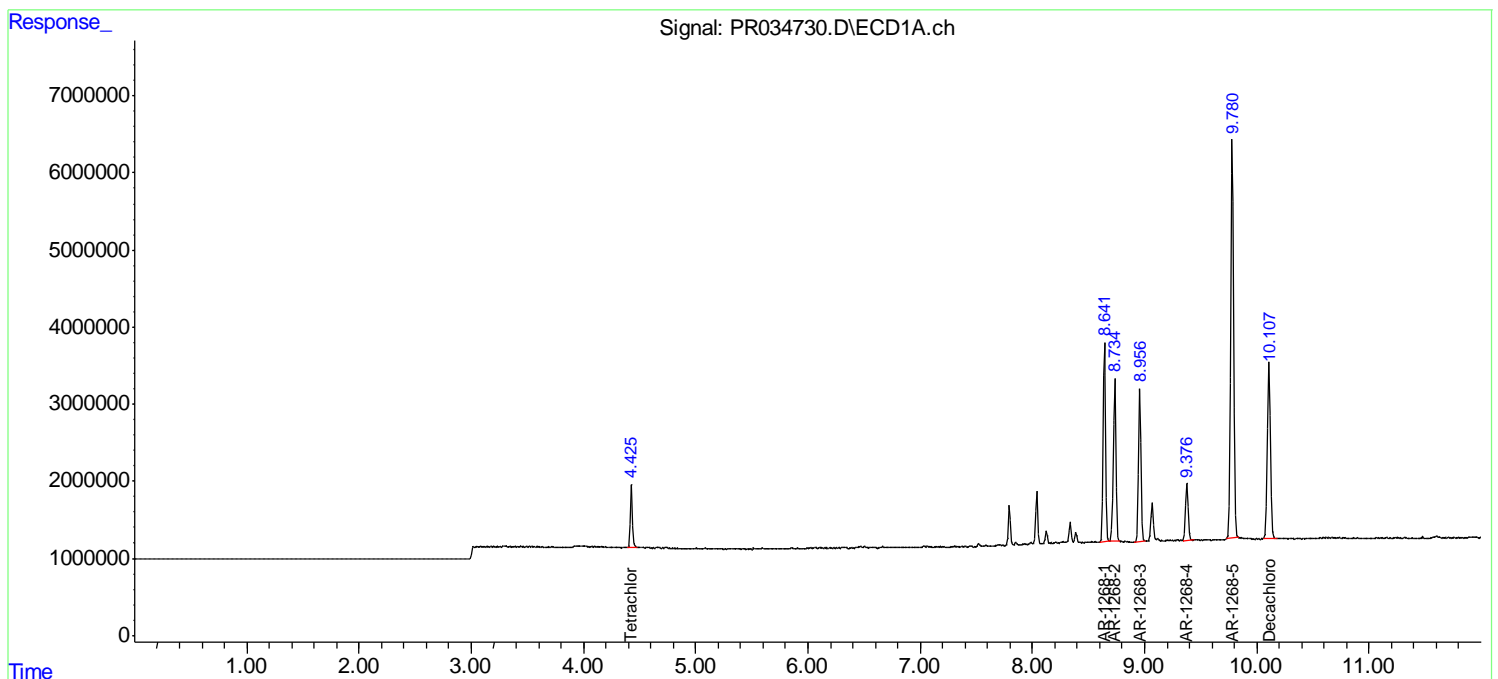
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034730.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:43
 Operator : SM\SJ
 Sample : AR1268ICC100
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1268101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:33:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034730.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:43
 Operator : SM\SJ
 Sample : AR1268ICC100
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1268101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:33:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 10312674 | 20354856 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.108 | 8.411 | 43838916 | 99484436 | 10.000 | 10.000 |
| Target Compounds | | | | | | |
| 41) L9 AR-1268-1 | 8.641 | 7.349 | 37993453 | 91028393 | 100.000 | 100.000 |
| 42) L9 AR-1268-2 | 8.734 | 7.414 | 34143481 | 83993680 | 100.000 | 100.000 |
| 43) L9 AR-1268-3 | 8.957 | 7.616 | 30320811 | 73219811 | 100.000 | 100.000 |
| 44) L9 AR-1268-4 | 9.376 | 7.904 | 12450492 | 29043038 | 100.000 | 100.000 |
| 45) L9 AR-1268-5 | 9.781 | 8.177 | 92583202 | 225.2E6 | 100.000 | 100.000 |
| ----- | | | | | | |

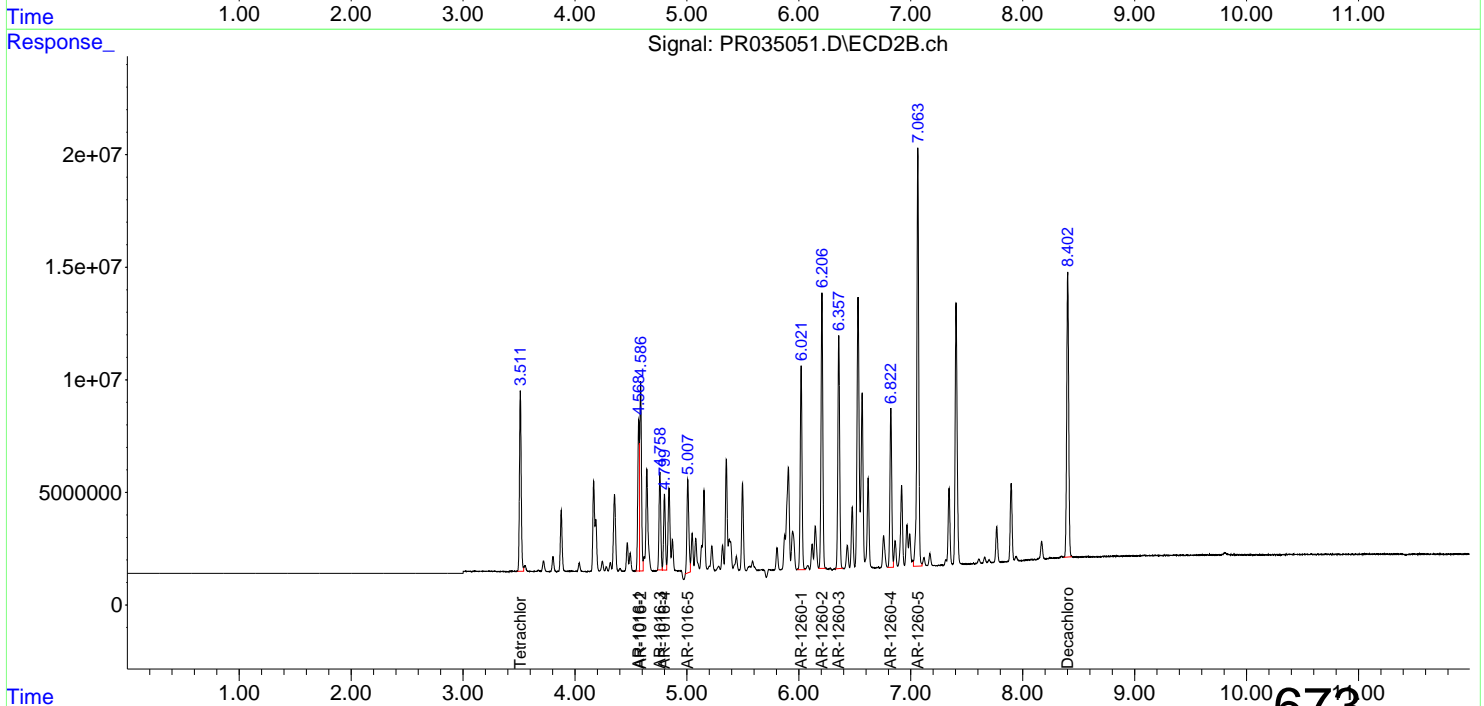
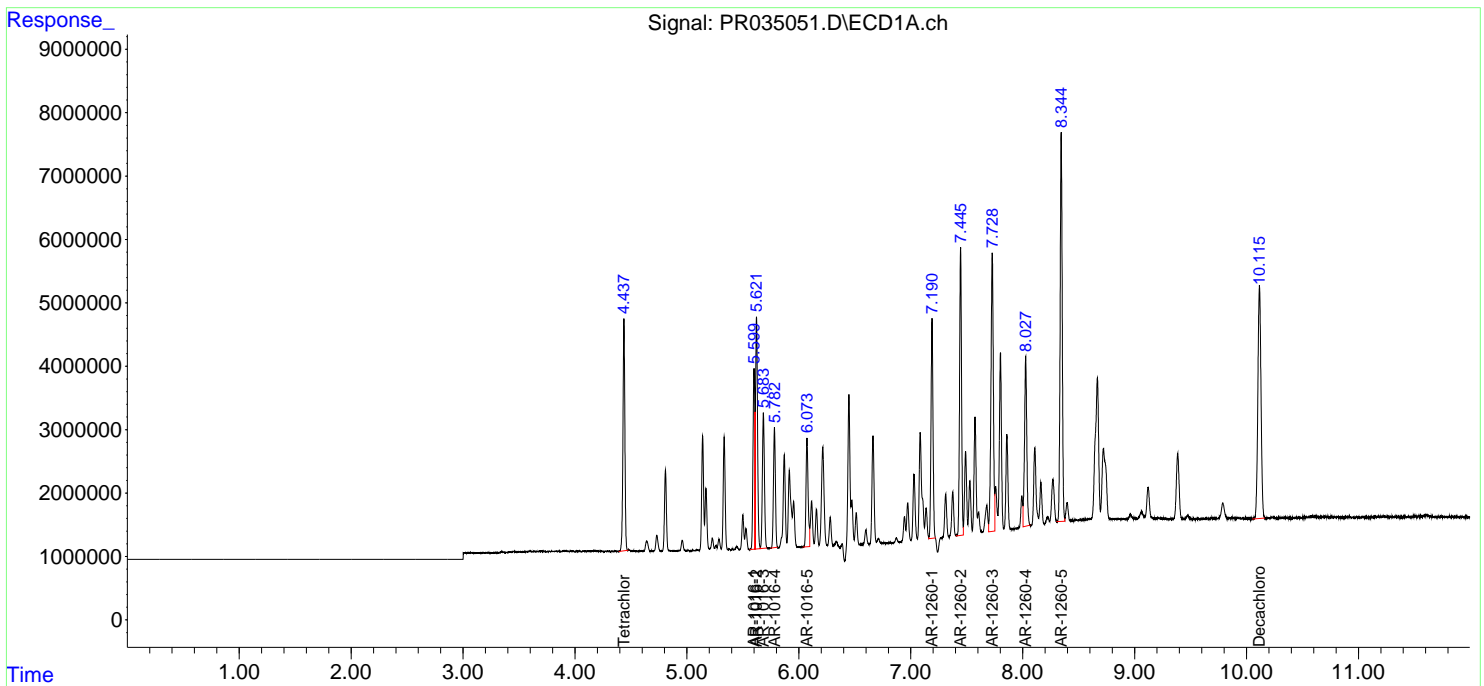
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035051.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:03
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660334

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:40 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035051.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:03
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660334

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:40 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.437 | 3.512 | 43900267 | 85688011 | 22.570 | 24.580 |
| 2) SA Decachlor... | 10.115 | 8.402 | 71225112 | 155.4E6 | 36.230 | 35.346 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.600 | 4.569 | 32235438 | 62717192 | 477.539 | 481.978 |
| 4) L1 AR-1016-2 | 5.622 | 4.586 | 46031619 | 91226473 | 464.839 | 461.555 |
| 5) L1 AR-1016-3 | 5.683 | 4.758 | 27236653 | 46461276 | 462.770 | 483.388 |
| 6) L1 AR-1016-4 | 5.782 | 4.799 | 22833685 | 35956774 | 481.349 | 475.940 |
| 7) L1 AR-1016-5 | 6.073 | 5.008 | 22624139 | 49954957 | 475.022 | 485.821 |
| 31) L7 AR-1260-1 | 7.190 | 6.021 | 42968763 | 100.6E6 | 457.076 | 467.779 |
| 32) L7 AR-1260-2 | 7.446 | 6.206 | 55814502 | 134.0E6 | 480.740 | 492.593m |
| 33) L7 AR-1260-3 | 7.728 | 6.357 | 64930314 | 116.2E6 | 465.262 | 468.250 |
| 34) L7 AR-1260-4 | 8.027 | 6.822 | 37713331 | 79448082 | 436.681 | 464.635 |
| 35) L7 AR-1260-5 | 8.344 | 7.063 | 80316269 | 218.2E6 | 444.833 | 451.172 |

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

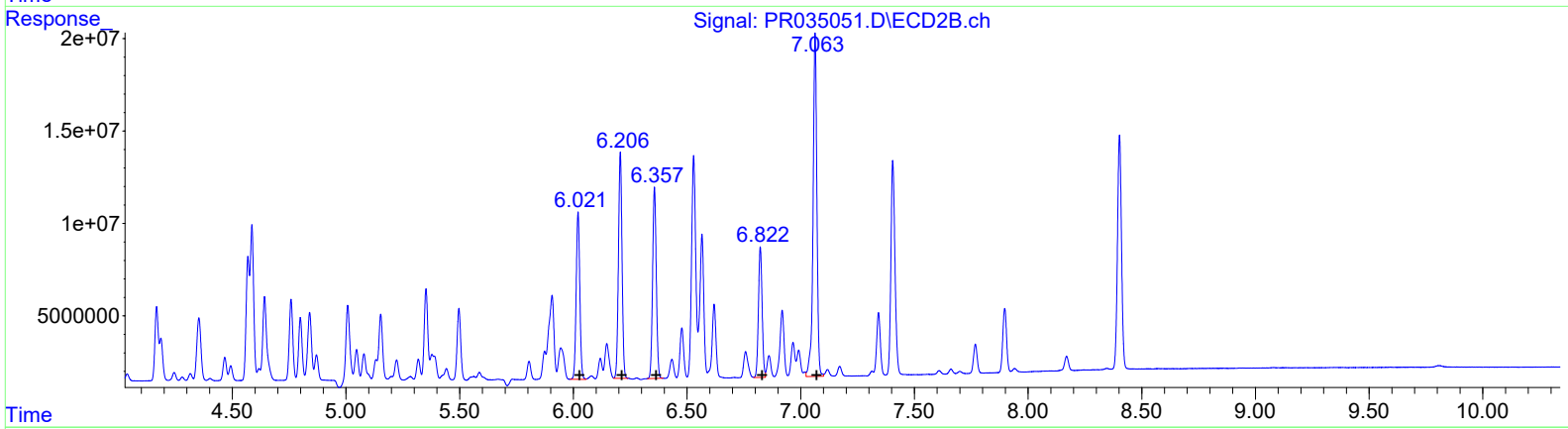
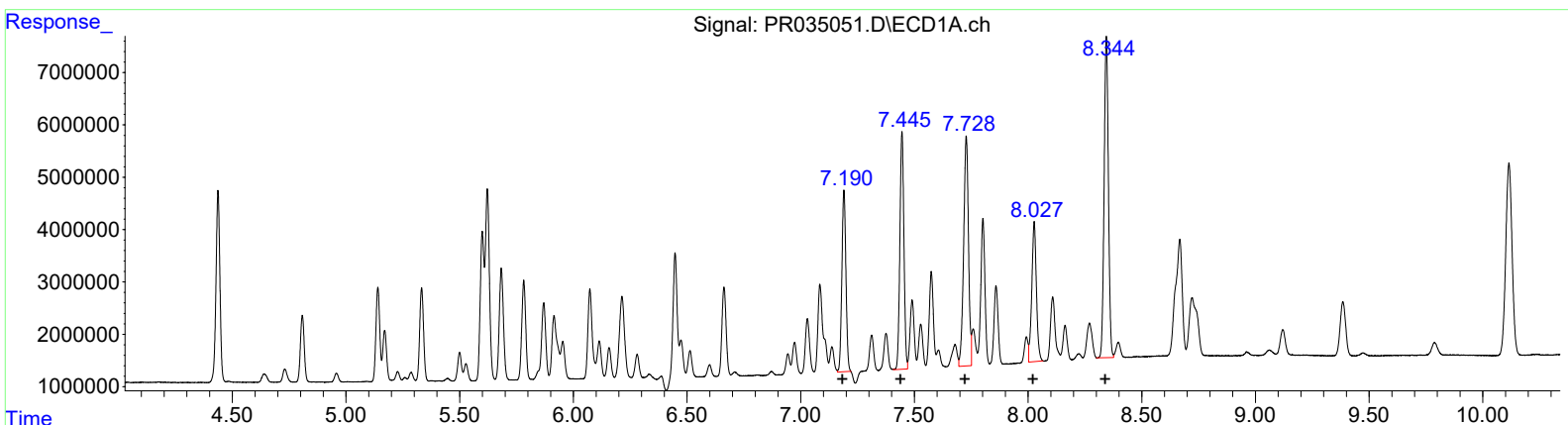
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035051.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:03
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
LabSampleId :
 AR1660334

Manual Integrations
APPROVED
 Sohil
 1/2/2019 8:45:02 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:40 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.19 | 42968763 | 457.08 |
| 7.45 | 55814502 | 480.74 |
| 7.73 | 64930314 | 465.26 |
| 8.03 | 37713331 | 436.68 |
| 8.34 | 80316269 | 444.83 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 100559525 | 467.78 |
| 6.21 | 134045305 | 492.59 |
| 6.36 | 116236383 | 468.25 |
| 6.82 | 79448082 | 464.63 |
| 7.06 | 218207261 | 451.17 |

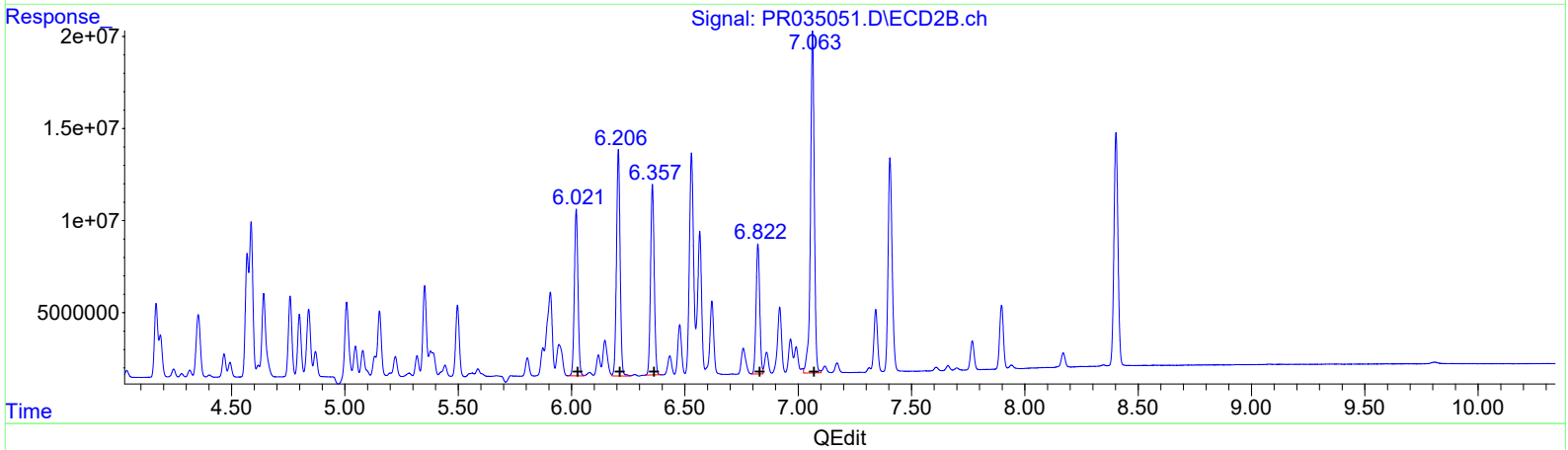
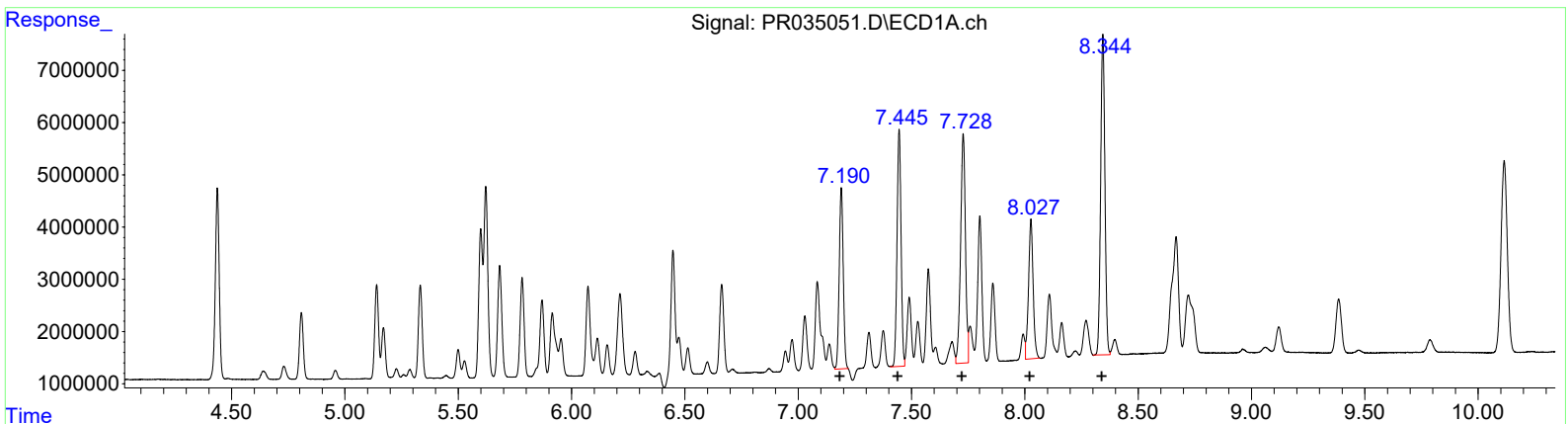
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035051.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:03
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
LabSampleId :
 AR1660334

Manual Integrations
APPROVED
 Sohil
 1/2/2019 8:45:02 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:40 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.19 | 42968763 | 457.08 |
| 7.45 | 55814502 | 480.74 |
| 7.73 | 64930314 | 465.26 |
| 8.03 | 37713331 | 436.68 |
| 8.34 | 80316269 | 444.83 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 100559525 | 467.78 |
| 6.21 | 137149134 | 504.00 |
| 6.36 | 116236383 | 468.25 |
| 6.82 | 79448082 | 464.63 |
| 7.06 | 218207261 | 451.17 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035051.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:03

Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 LabSampleId :
 AR1660334

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:40 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.437 | 3.512 | 43900267 | 85688011 | 22.570 | 24.580 |
| 2) SA Decachlor... | 10.115 | 8.402 | 71225112 | 155.4E6 | 36.230 | 35.346 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.600 | 4.569 | 32235438 | 62717192 | 477.539 | 481.978 |
| 4) L1 AR-1016-2 | 5.622 | 4.586 | 46031619 | 91226473 | 464.839 | 461.555 |
| 5) L1 AR-1016-3 | 5.683 | 4.758 | 27236653 | 46461276 | 462.770 | 483.388 |
| 6) L1 AR-1016-4 | 5.782 | 4.799 | 22833685 | 35956774 | 481.349 | 475.940 |
| 7) L1 AR-1016-5 | 6.073 | 5.008 | 22624139 | 49954957 | 475.022 | 485.821 |
| 31) L7 AR-1260-1 | 7.190 | 6.021 | 42968763 | 100.6E6 | 457.076 | 467.779 |
| 32) L7 AR-1260-2 | 7.446 | 6.206 | 55814502 | 134.0E6 | 480.740 | 492.593m |
| 33) L7 AR-1260-3 | 7.728 | 6.357 | 64930314 | 116.2E6 | 465.262 | 468.250 |
| 34) L7 AR-1260-4 | 8.027 | 6.822 | 37713331 | 79448082 | 436.681 | 464.635 |
| 35) L7 AR-1260-5 | 8.344 | 7.063 | 80316269 | 218.2E6 | 444.833 | 451.172 |
| ----- | | | | | | |

SJ
 12/28/18

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

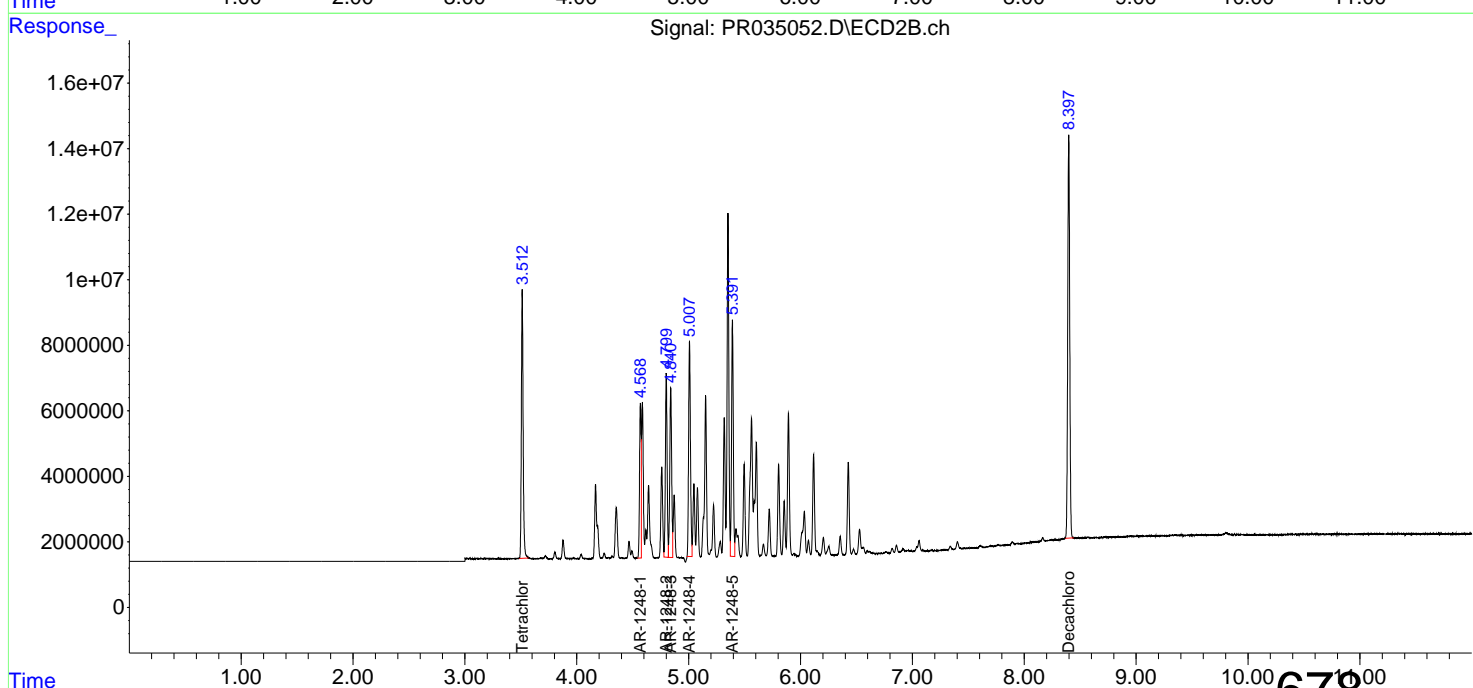
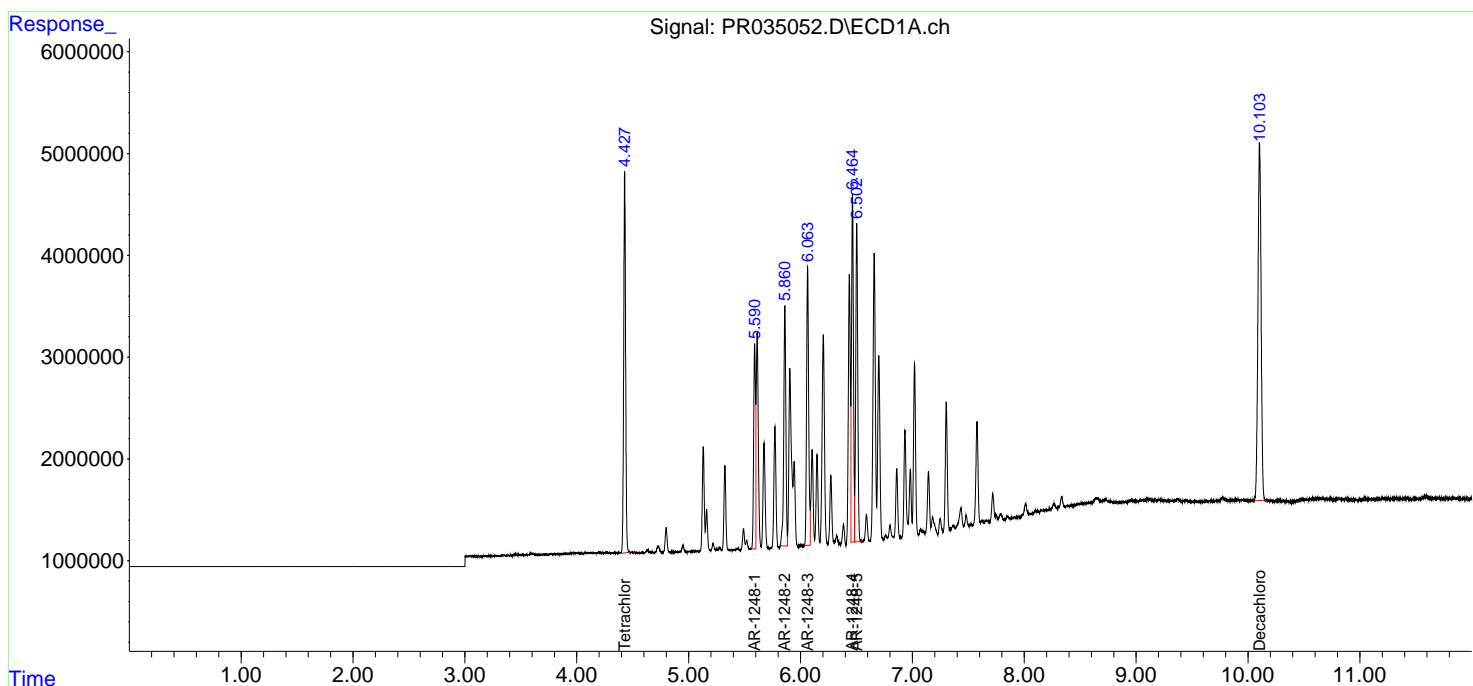
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035052.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:17
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1248334

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035052.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:17
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1248334

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.512 | 44628457 | 90419377 | 22.945 | 25.938m |
| 2) SA Decachlor... | 10.103 | 8.398 | 69182804 | 151.6E6 | 35.191 | 34.473 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 23486778 | 47116428 | 484.038 | 483.237 |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 30995341 | 59533996 | 469.104 | 464.738 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 35261511 | 61147881 | 471.947 | 463.322 |
| 24) L5 AR-1248-4 | 6.465 | 5.008 | 41831940 | 74971194 | 468.202 | 455.668 |
| 25) L5 AR-1248-5 | 6.503 | 5.391 | 39156356 | 77985612 | 467.995 | 465.987 |
| ----- | | | | | | |

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

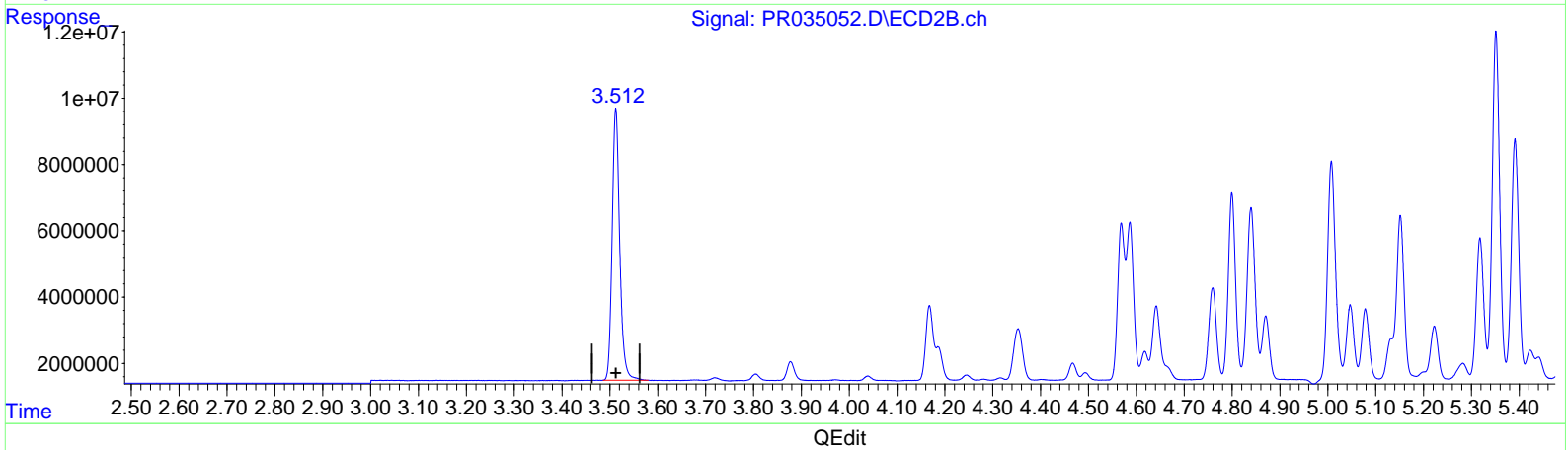
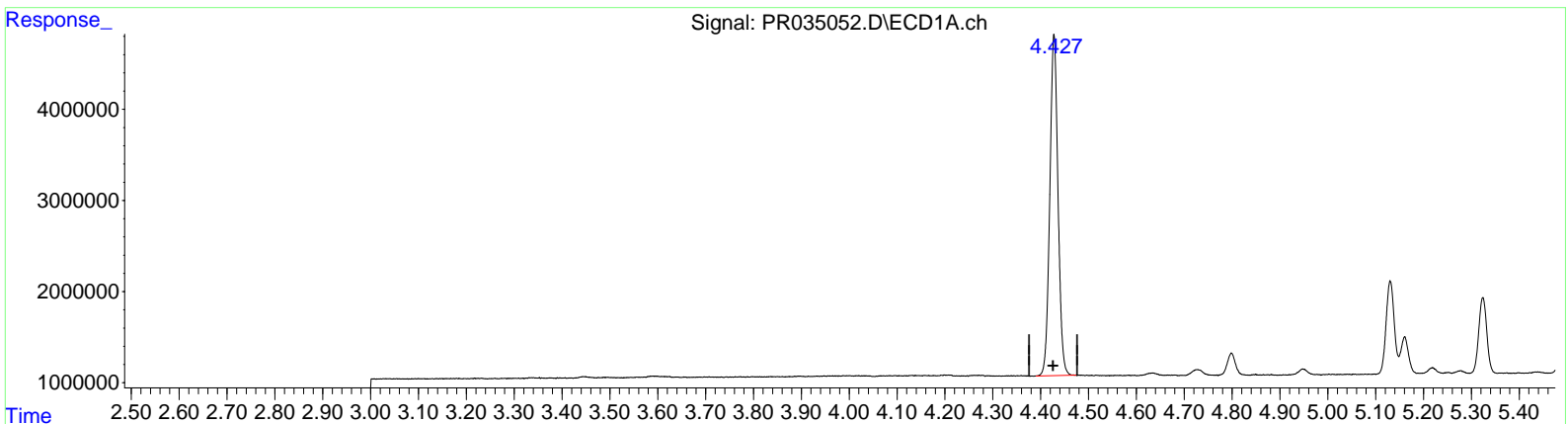
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035052.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:17
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1248334

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.428min 22.945 ng/ml
 response 44628457

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 26.010 ng/ml
 response 90673236

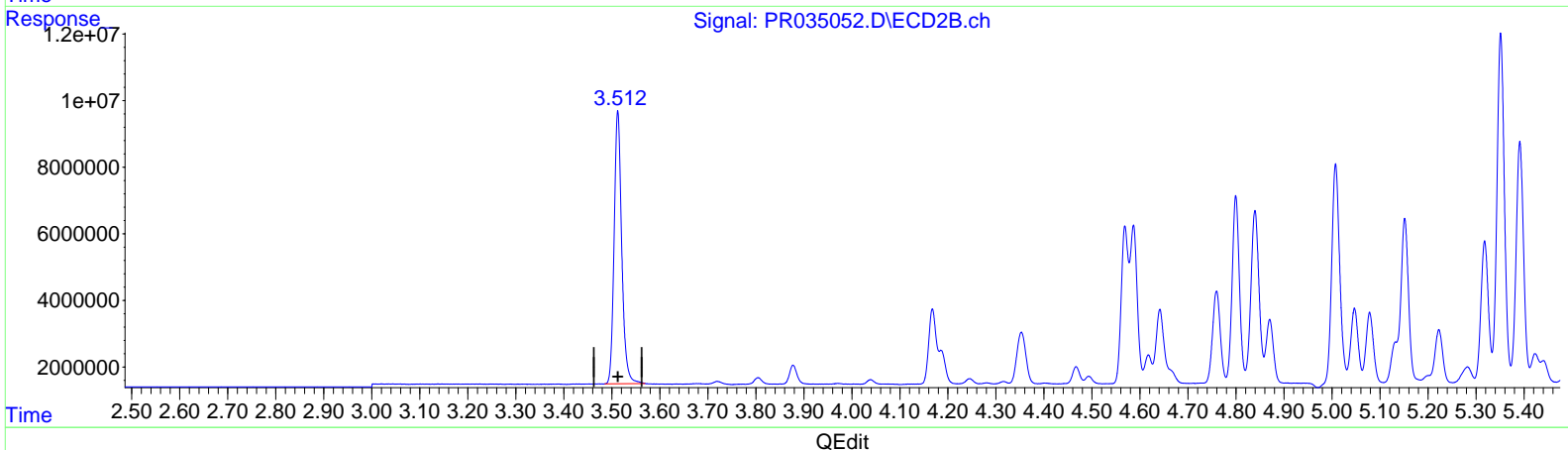
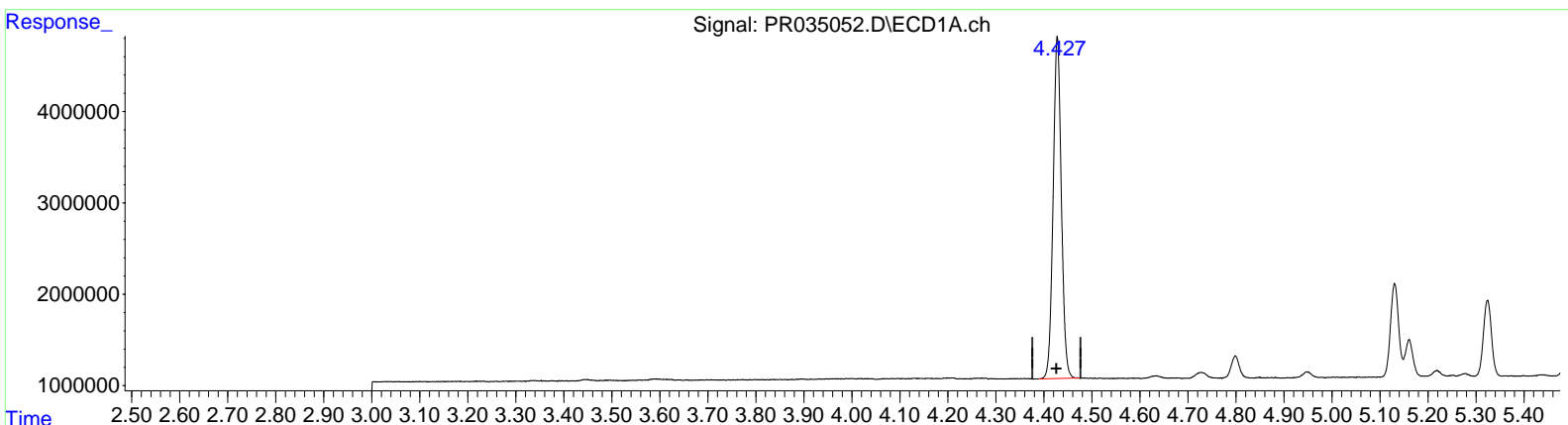
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035052.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:17
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1248334

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.428min 22.945 ng/ml

response 44628457

(1) Tetrachloro-m-xylene #2 (SA)

3.512min 25.938 ng/ml m

response 90419377

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035052.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 03:17
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1248334

Manual Integrations
APPROVED

Sohil
 12/29/2018 12:17:28 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:01:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.512 | 44628457 | 90419377 | 22.945 | 25.938m |
| 2) SA Decachlor... | 10.103 | 8.398 | 69182804 | 151.6E6 | 35.191 | 34.473 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.569 | 23486778 | 47116428 | 484.038 | 483.237 |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 30995341 | 59533996 | 469.104 | 464.738 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 35261511 | 61147881 | 471.947 | 463.322 |
| 24) L5 AR-1248-4 | 6.465 | 5.008 | 41831940 | 74971194 | 468.202 | 455.668 |
| 25) L5 AR-1248-5 | 6.503 | 5.391 | 39156356 | 77985612 | 467.995 | 465.987 |

> SS
 12/28/18

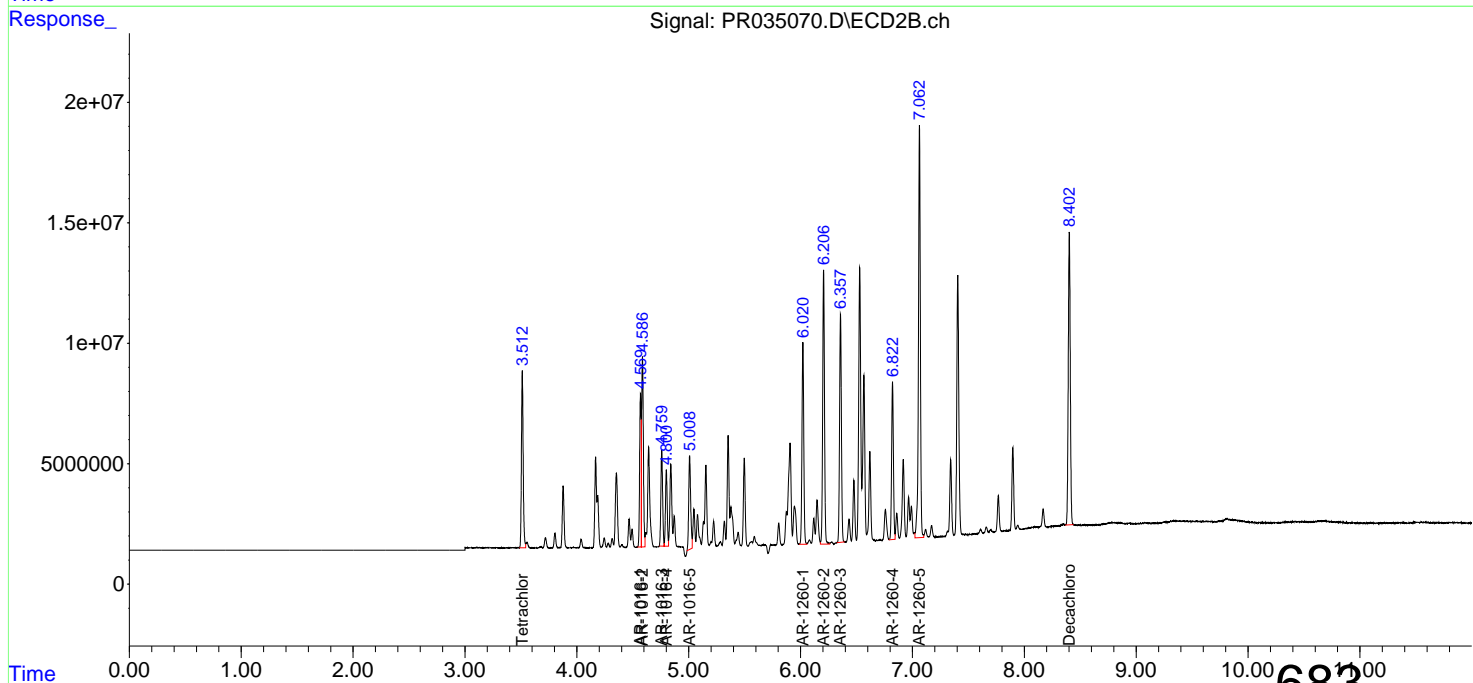
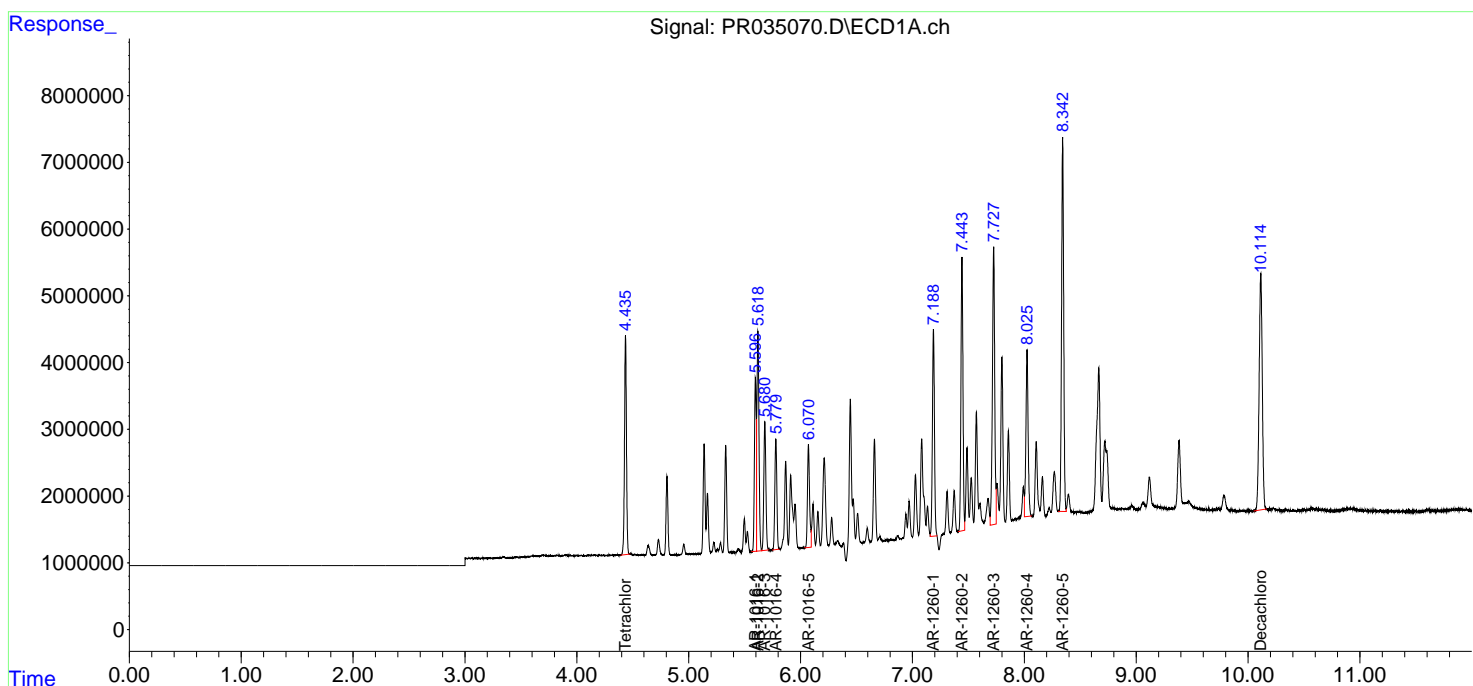
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035070.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 08:11
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:07:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035070.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 08:11
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:07:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.435 | 3.513 | 39879693 | 79603058 | 20.503 | 22.835 |
| 2) SA Decachlor... | 10.114 | 8.403 | 69152287 | 151.5E6 | 35.175 | 34.465 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.597 | 4.569 | 29112652 | 58092404 | 431.278 | 446.437 |
| 4) L1 AR-1016-2 | 5.619 | 4.587 | 42004993 | 86058228 | 424.178 | 435.407 |
| 5) L1 AR-1016-3 | 5.681 | 4.759 | 24681135 | 43746886 | 419.350 | 455.147 |
| 6) L1 AR-1016-4 | 5.779 | 4.800 | 20752131 | 33761320 | 437.468 | 446.880 |
| 7) L1 AR-1016-5 | 6.071 | 5.008 | 20174939 | 47127942 | 423.598 | 458.328 |
| 31) L7 AR-1260-1 | 7.188 | 6.021 | 39279283 | 93295140 | 417.829 | 433.987 |
| 32) L7 AR-1260-2 | 7.443 | 6.206 | 50765829 | 127.9E6 | 437.255 | 470.021 |
| 33) L7 AR-1260-3 | 7.727 | 6.357 | 58765060 | 107.1E6 | 421.085 | 431.400 |
| 34) L7 AR-1260-4 | 8.025 | 6.822 | 34392678 | 72726435 | 398.231 | 425.325 |
| 35) L7 AR-1260-5 | 8.343 | 7.063 | 74340309 | 202.1E6 | 411.735 | 417.854 |

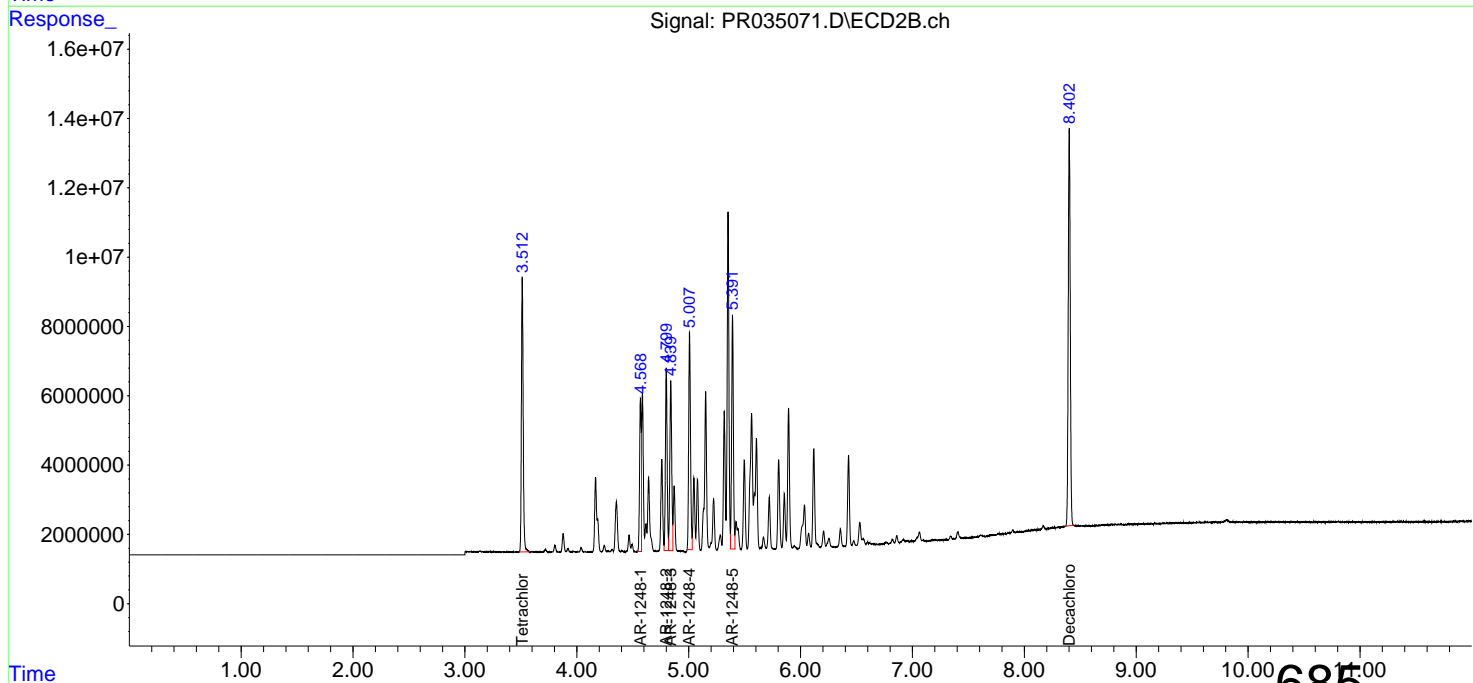
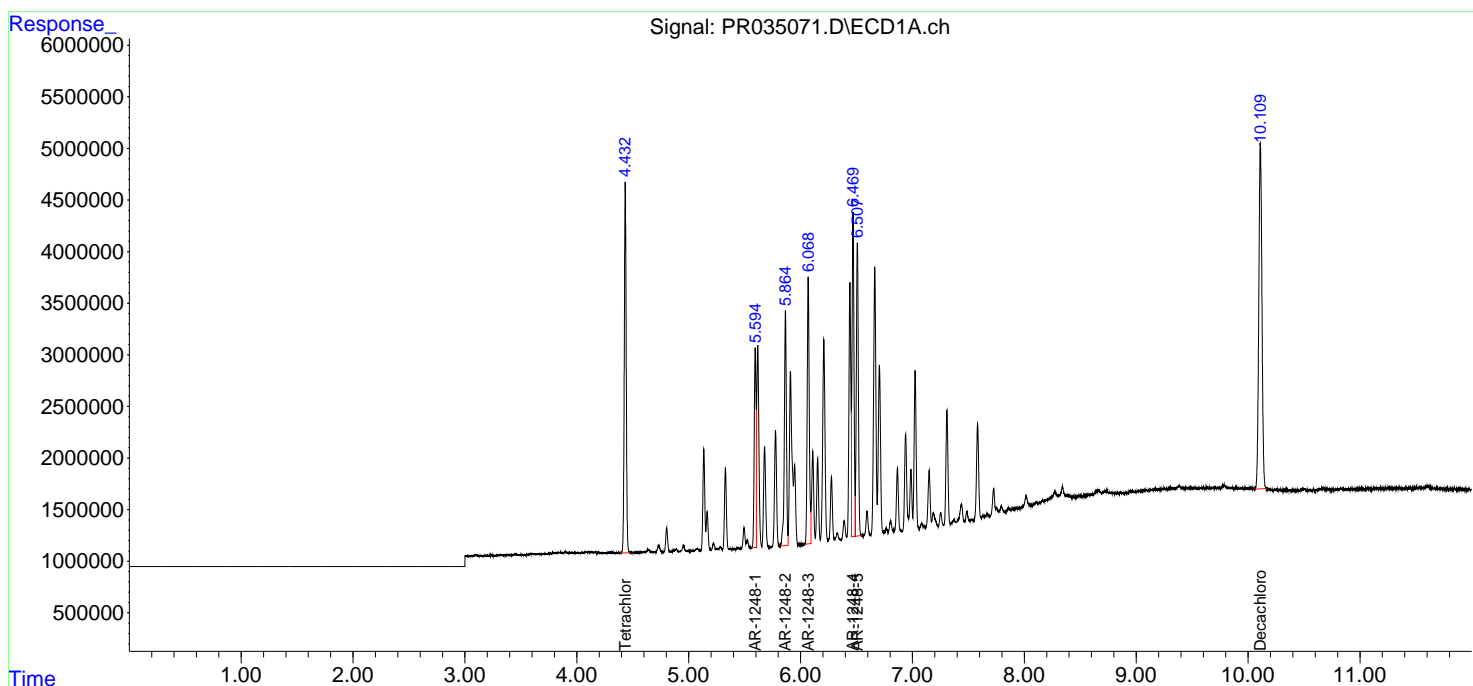
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035071.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 09:16
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1248335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035071.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 09:16
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.433 | 3.513 | 42995603 | 86879477 | 22.105 | 24.922 |
| 2) SA Decachlor... | 10.109 | 8.402 | 65387694 | 142.5E6 | 33.261 | 32.421 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.594 | 4.569 | 22087191 | 44186613 | 455.194 | 453.188 |
| 22) L5 AR-1248-2 | 5.865 | 4.799 | 29450163 | 56062227 | 445.718 | 437.636 |
| 23) L5 AR-1248-3 | 6.068 | 4.840 | 32975615 | 57621243 | 441.352 | 436.600 |
| 24) L5 AR-1248-4 | 6.469 | 5.008 | 38304140 | 70368237 | 428.717 | 427.692 |
| 25) L5 AR-1248-5 | 6.508 | 5.392 | 35530334 | 72511809 | 424.657 | 433.280 |
| ----- | | | | | | |

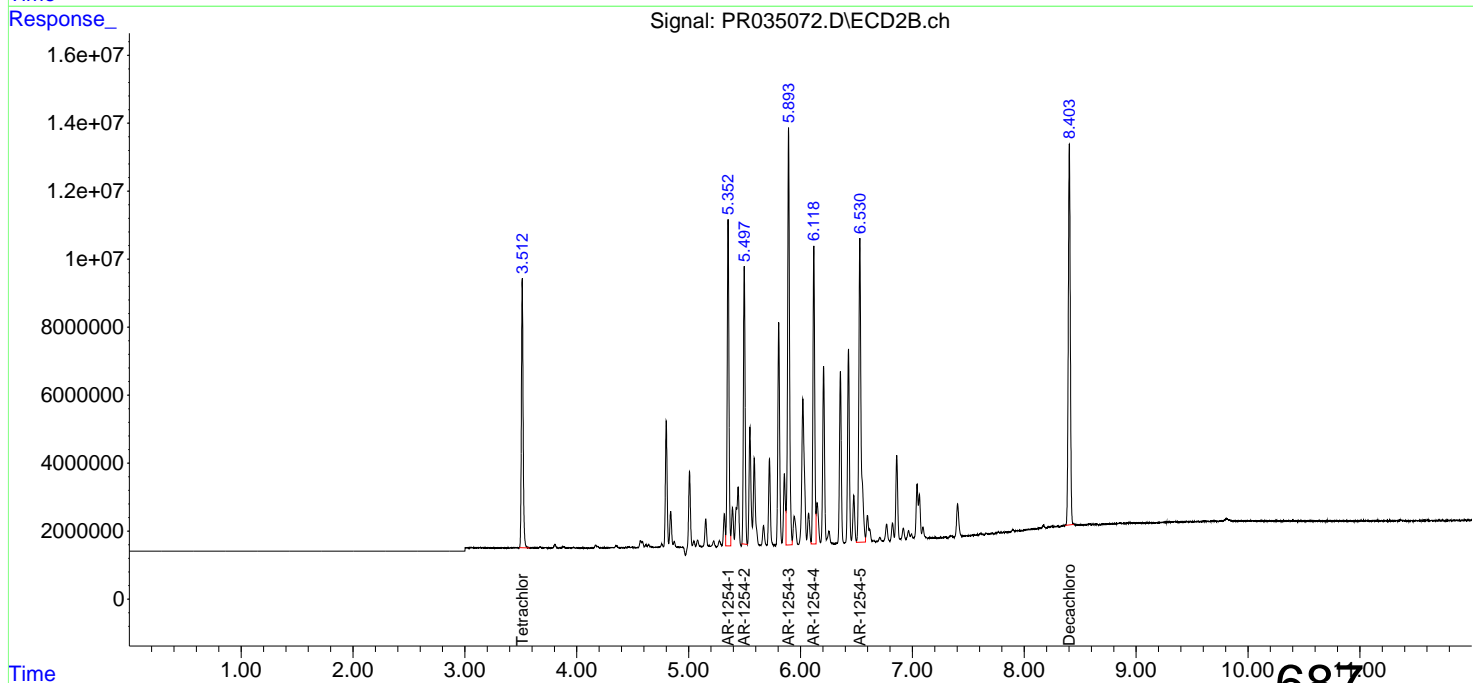
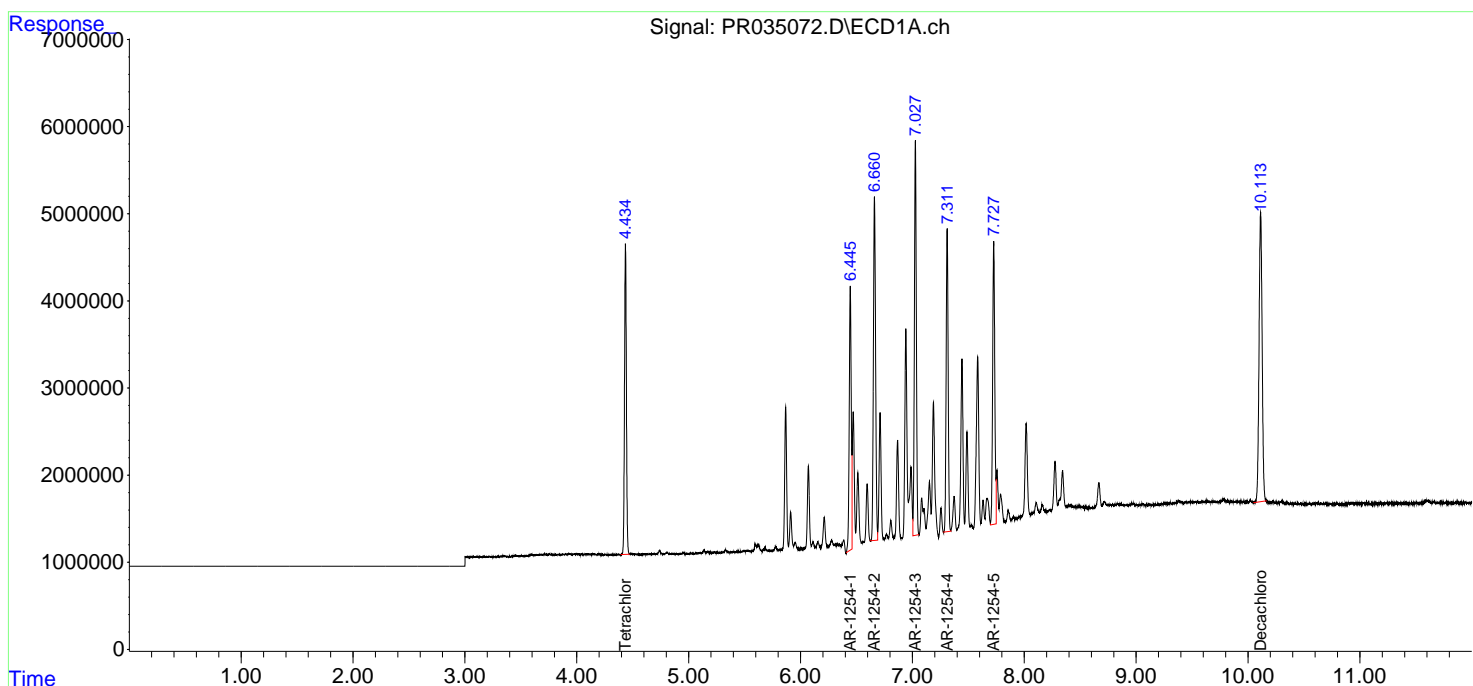
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035072.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 09:47
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:34 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035072.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 09:47
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:34 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.435 | 3.513 | 41757831 | 84352666 | 21.469 | 24.197 |
| 2) SA Decachlor... | 10.113 | 8.403 | 63581137 | 140.0E6 | 32.342 | 31.841 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.445 | 5.353 | 37691649 | 103.9E6 | 461.314 | 424.803 |
| 27) L6 AR-1254-2 | 6.661 | 5.497 | 53499811 | 87283750 | 418.698 | 410.381 |
| 28) L6 AR-1254-3 | 7.027 | 5.893 | 55143592 | 146.8E6 | 408.556 | 410.879 |
| 29) L6 AR-1254-4 | 7.311 | 6.119 | 43494258 | 97346632 | 410.022 | 412.153 |
| 30) L6 AR-1254-5 | 7.727 | 6.530 | 42610632 | 126.4E6 | 397.697 | 396.211 |
| ----- | | | | | | |

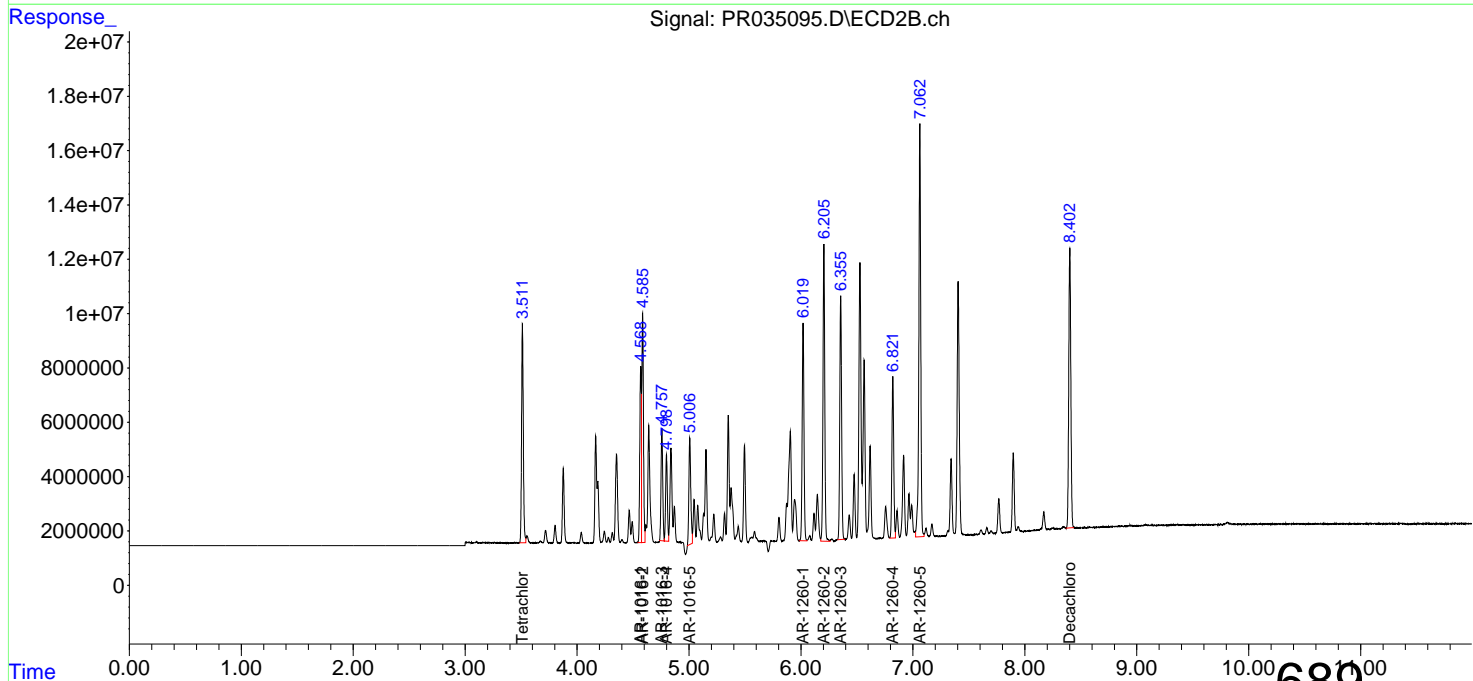
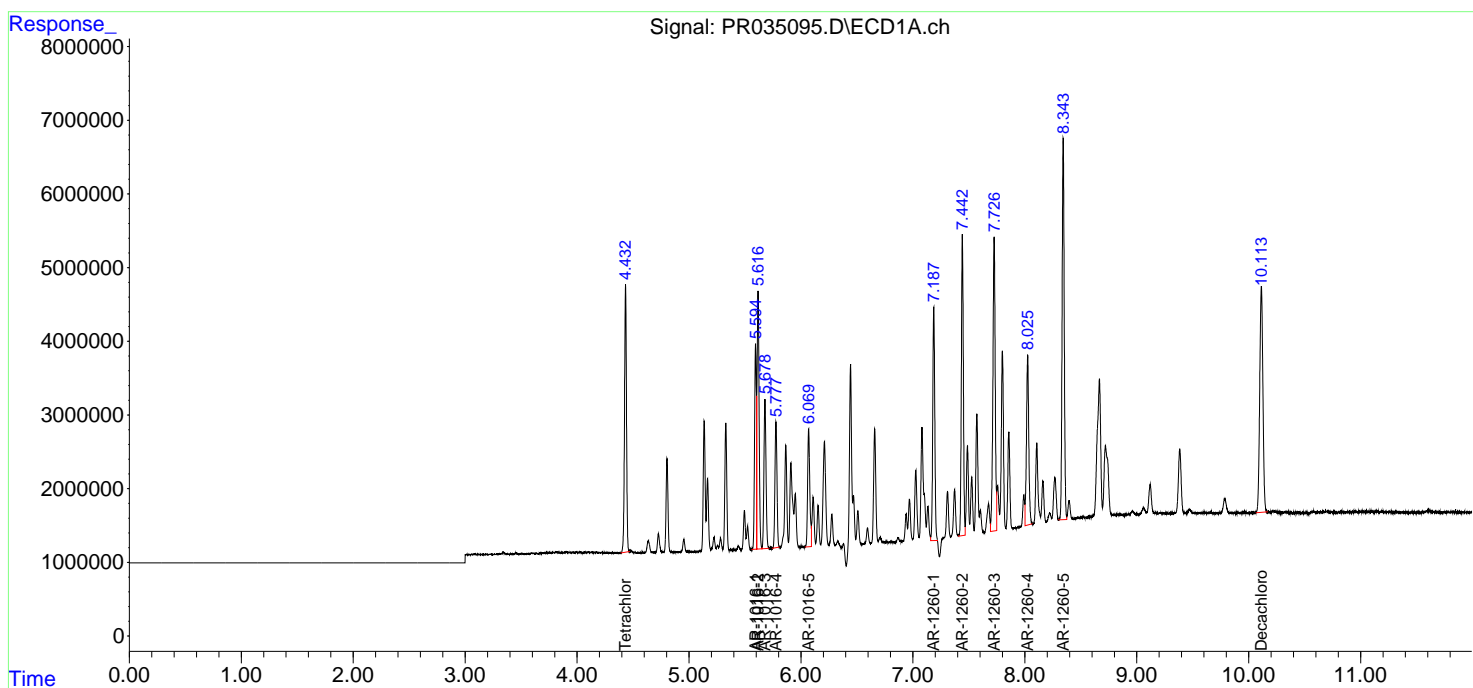
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035095.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035095.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.433 | 3.512 | 44209923 | 86545447 | 22.730 | 24.826 |
| 2) SA Decachlor... | 10.113 | 8.402 | 60120953 | 130.5E6 | 30.582 | 29.683 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.595 | 4.569 | 30923931 | 60160888 | 458.111 | 462.333 |
| 4) L1 AR-1016-2 | 5.617 | 4.586 | 44006464 | 88462946 | 444.389 | 447.573 |
| 5) L1 AR-1016-3 | 5.679 | 4.757 | 26085779 | 43957391 | 443.216 | 457.337 |
| 6) L1 AR-1016-4 | 5.777 | 4.799 | 21740319 | 34141253 | 458.300 | 451.909 |
| 7) L1 AR-1016-5 | 6.069 | 5.007 | 21502090 | 46682371 | 451.463 | 453.995 |
| 31) L7 AR-1260-1 | 7.187 | 6.019 | 39955409 | 89009347 | 425.021 | 414.051 |
| 32) L7 AR-1260-2 | 7.442 | 6.205 | 50462415 | 120.6E6 | 434.642 | 443.017 |
| 33) L7 AR-1260-3 | 7.726 | 6.355 | 57234432 | 100.7E6 | 410.117 | 405.820 |
| 34) L7 AR-1260-4 | 8.026 | 6.821 | 33100434 | 67197831 | 383.268 | 392.992 |
| 35) L7 AR-1260-5 | 8.343 | 7.063 | 68496306 | 179.5E6 | 379.368 | 371.155 |

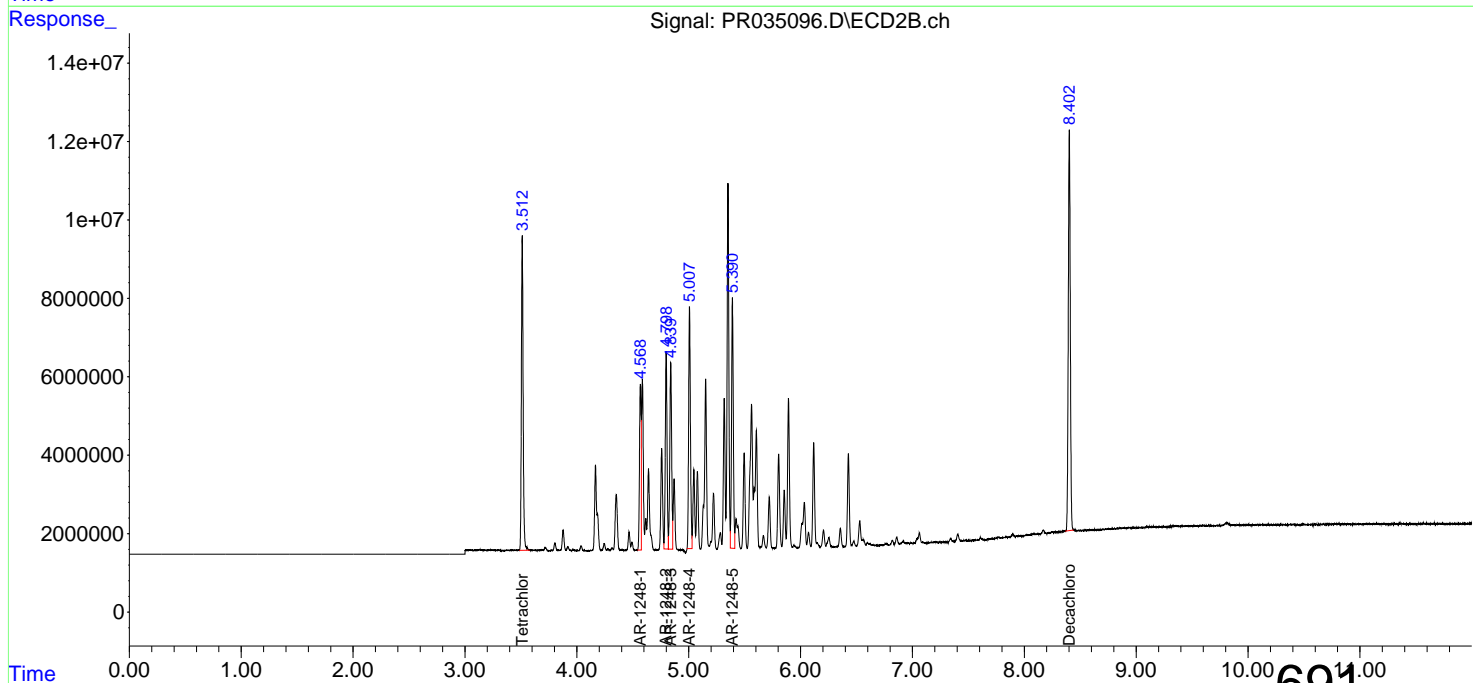
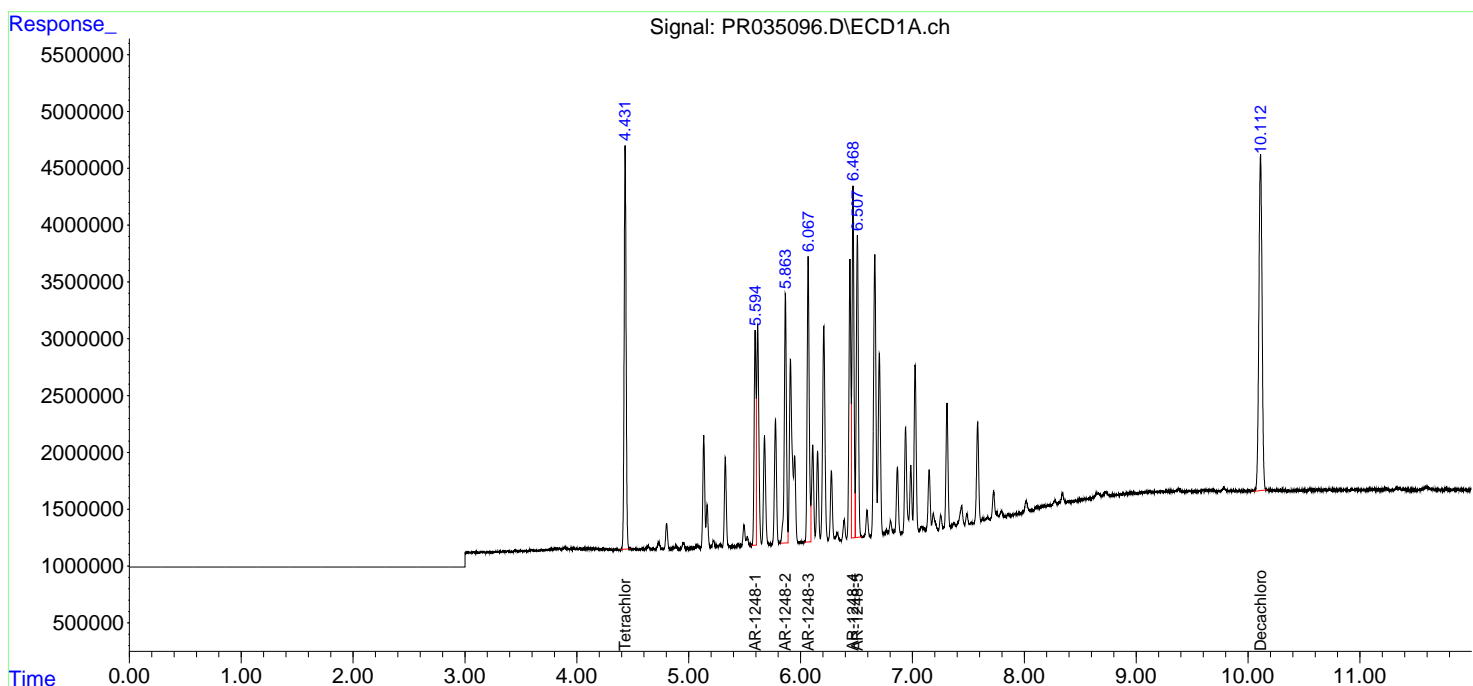
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035096.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 16:40
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035096.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 16:40
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.432 | 3.512 | 43465888 | 87700375 | 22.347 | 25.158 |
| 2) SA Decachlor... | 10.112 | 8.403 | 58697106 | 126.8E6 | 29.857 | 28.834 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.594 | 4.569 | 21886794 | 43564286 | 451.064 | 446.805 |
| 22) L5 AR-1248-2 | 5.865 | 4.799 | 28890826 | 54461876 | 437.253 | 425.143 |
| 23) L5 AR-1248-3 | 6.068 | 4.840 | 32352268 | 55700955 | 433.009 | 422.050 |
| 24) L5 AR-1248-4 | 6.469 | 5.007 | 37313989 | 68170561 | 417.635 | 414.334 |
| 25) L5 AR-1248-5 | 6.508 | 5.391 | 34663181 | 69307145 | 414.293 | 414.131 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

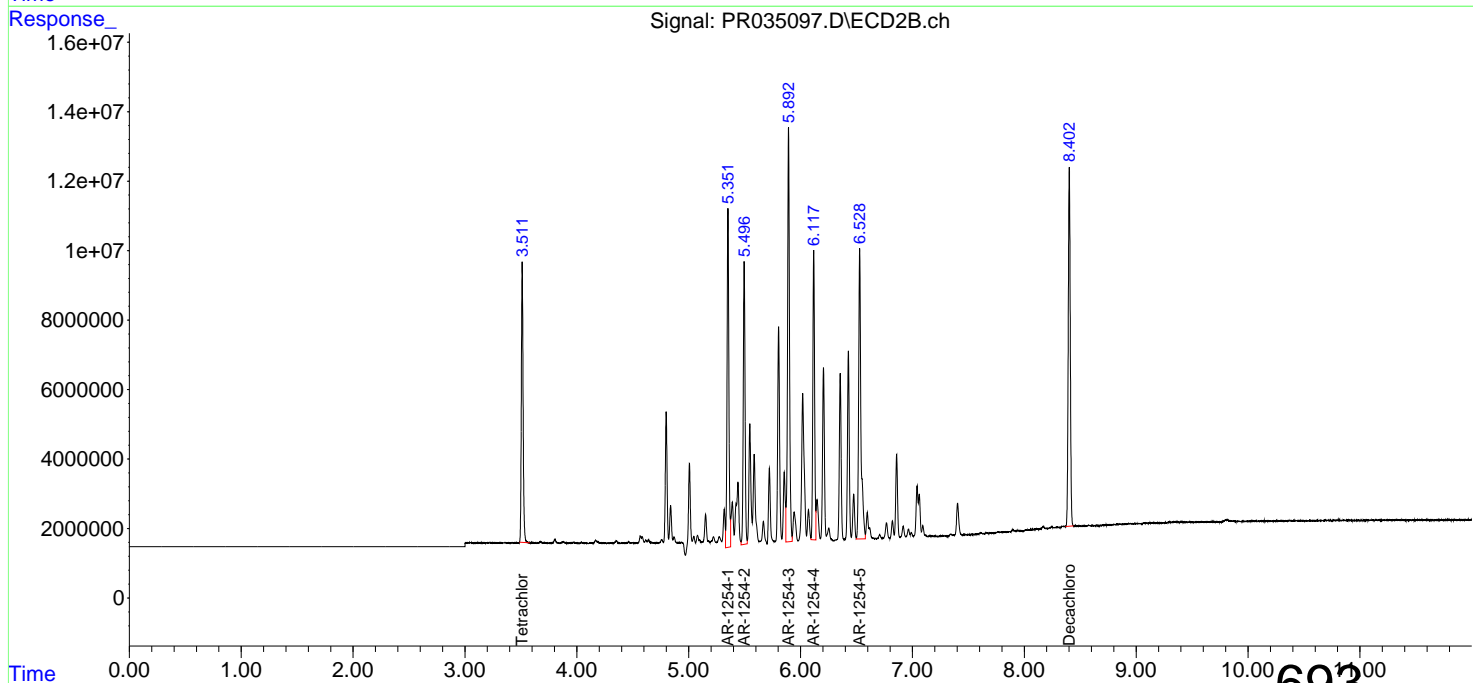
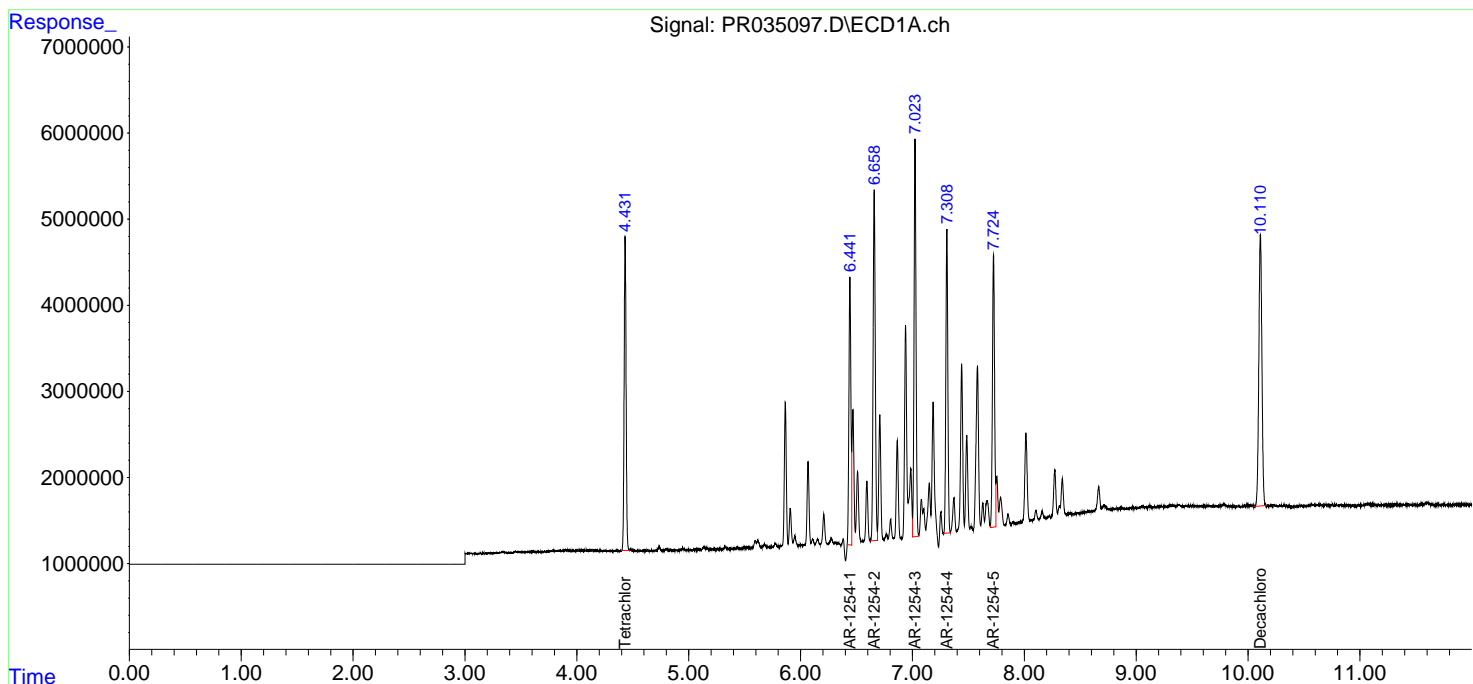
Instrument :
 ECD_R
 ClientSampled :
 AR1254336

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1254336

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.431 | 3.512 | 44330221 | 88491889 | 22.792m | 25.385 |
| 2) SA Decachlor... | 10.110 | 8.402 | 60010730 | 130.3E6 | 30.525 | 29.636 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.441 | 5.351 | 39322628 | 110.0E6 | 481.276m | 449.513 |
| 27) L6 AR-1254-2 | 6.659 | 5.496 | 54778862 | 90057759 | 428.708 | 423.424 |
| 28) L6 AR-1254-3 | 7.024 | 5.892 | 56417614 | 143.6E6 | 417.995 | 401.831 |
| 29) L6 AR-1254-4 | 7.308 | 6.118 | 43334340 | 92552179 | 408.514 | 391.854 |
| 30) L6 AR-1254-5 | 7.725 | 6.529 | 41787452 | 118.3E6 | 390.014 | 371.018 |
| ----- | | | | | | |

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

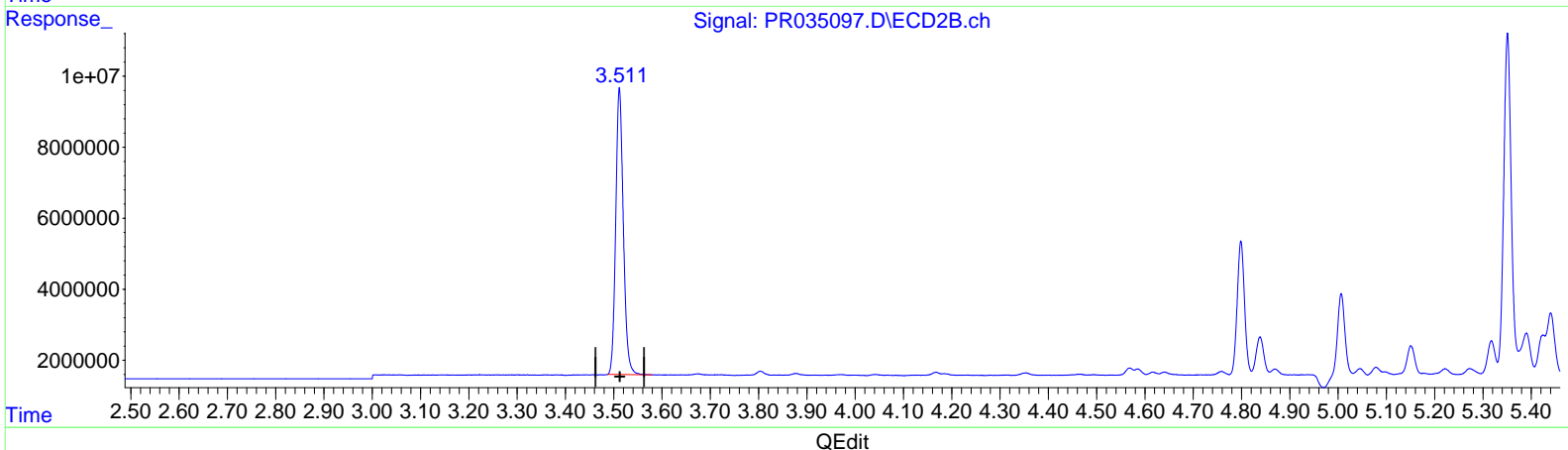
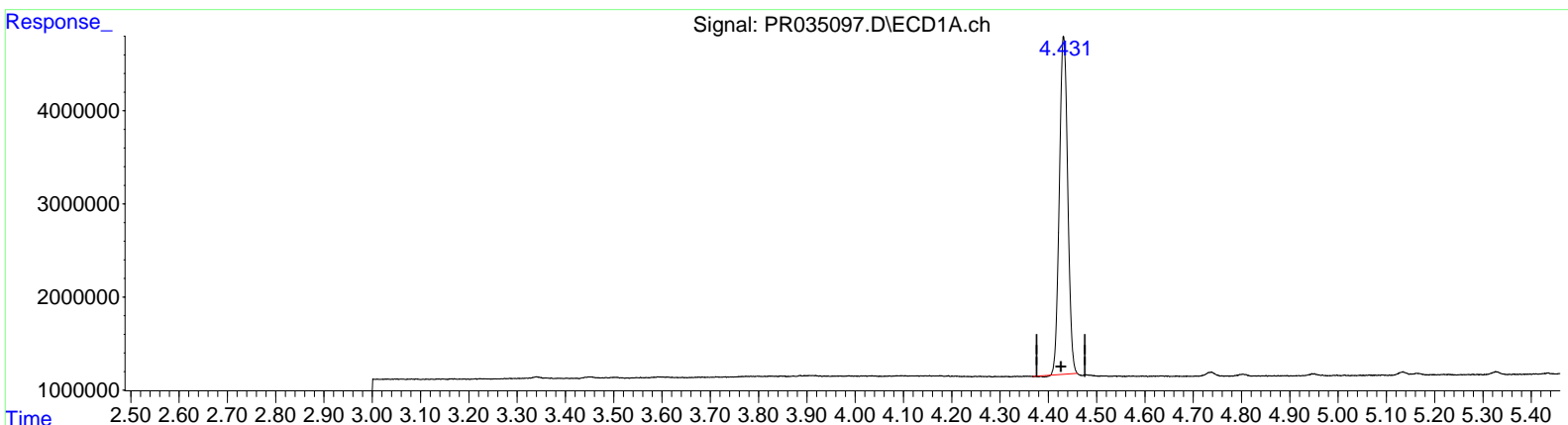
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1254336

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.432min 22.380 ng/ml
 response 43529341

(1) Tetrachloro-m-xylene #2 (SA)

3.512min 25.385 ng/ml
 response 88491889

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

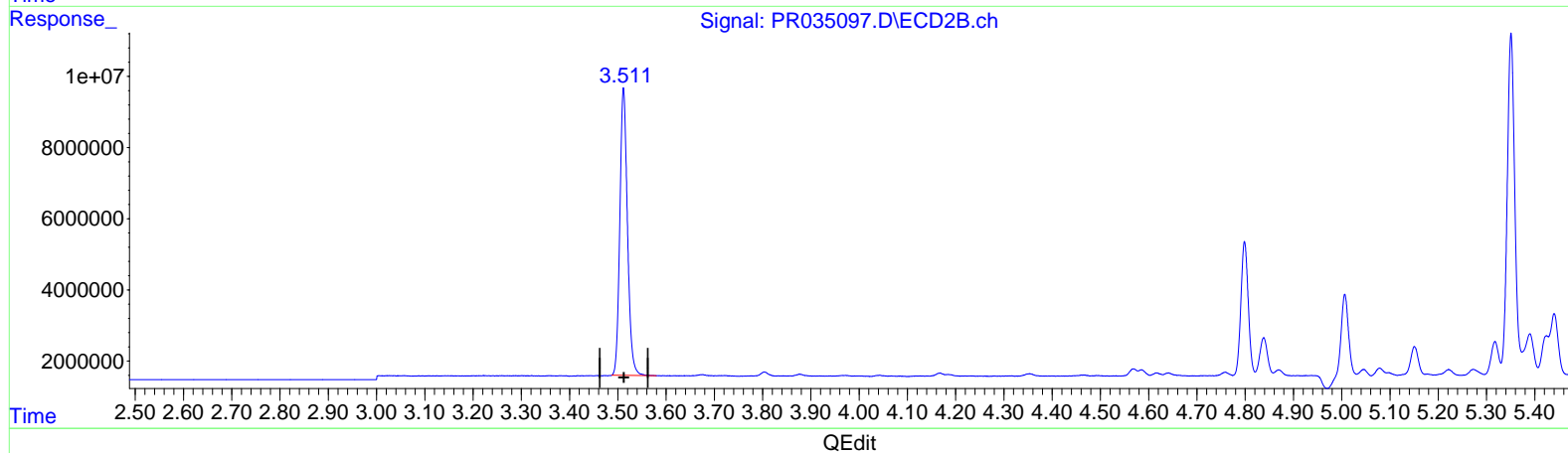
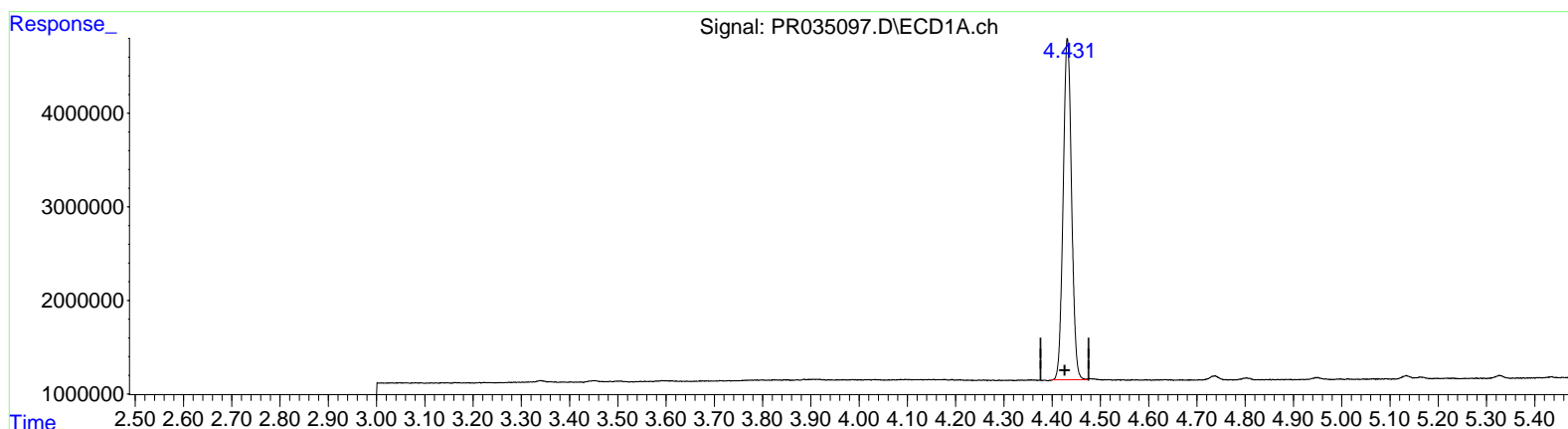
Instrument :
 ECD_R
 ClientSampleId :
 AR1254336

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.431min 22.792 ng/ml m

response 44330221

(1) Tetrachloro-m-xylene #2 (SA)

3.512min 25.385 ng/ml

response 88491889

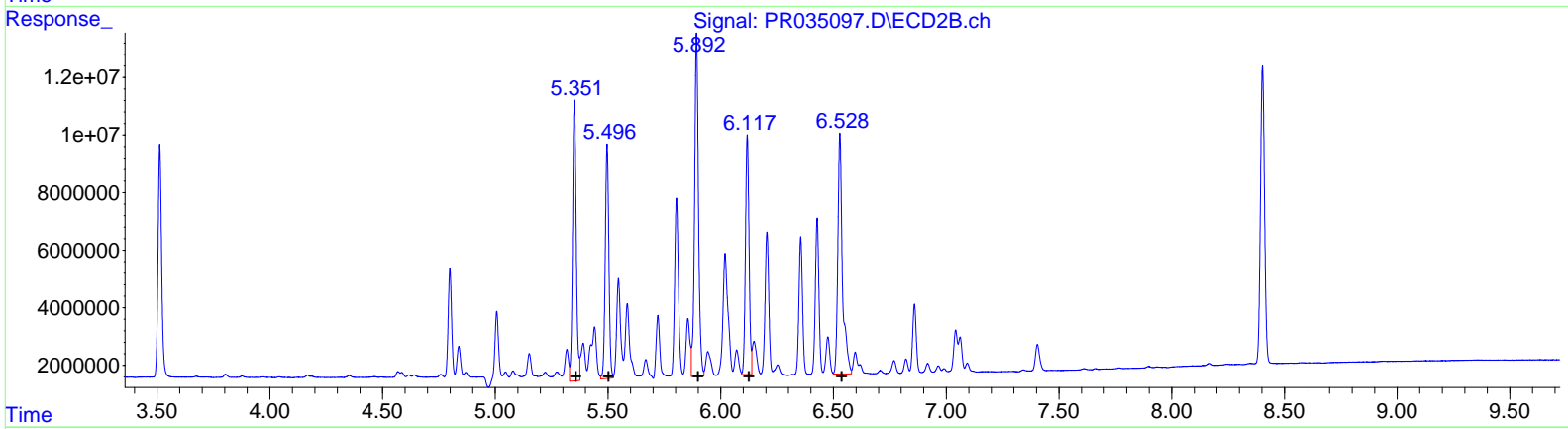
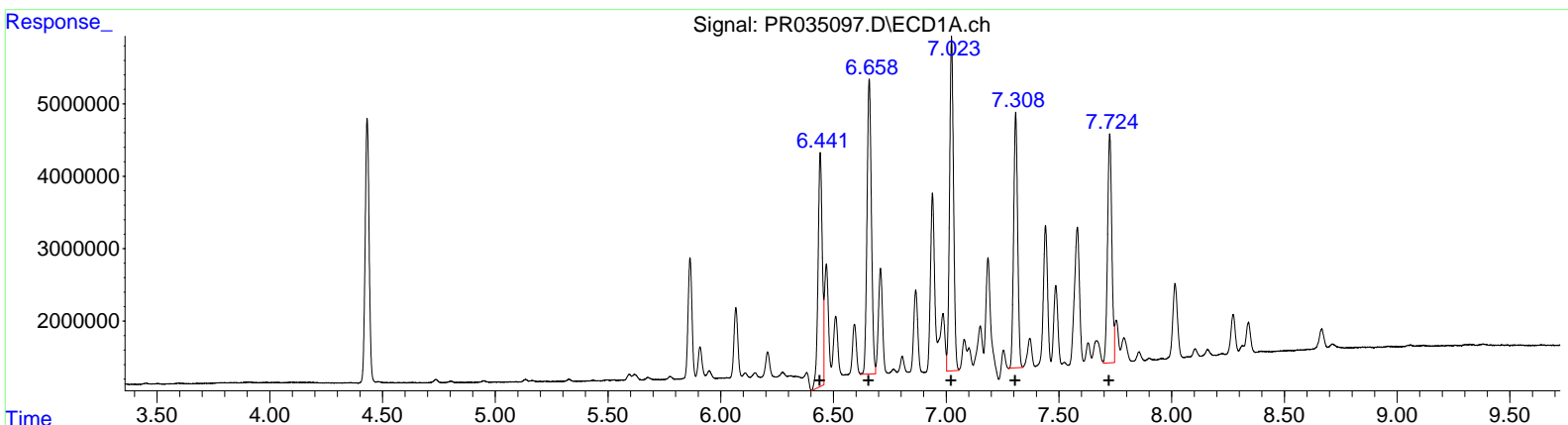
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1254336

Manual Integrations
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 Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.44 | 42228845 | 516.85 |
| 6.66 | 54778862 | 428.71 |
| 7.02 | 56417614 | 417.99 |
| 7.31 | 43334340 | 408.51 |
| 7.73 | 41787452 | 390.01 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|--------|
| 5.35 | 109992979 | 449.51 |
| 5.50 | 90057759 | 423.42 |
| 5.89 | 143581724 | 401.83 |
| 6.12 | 92552179 | 391.85 |
| 6.53 | 118333028 | 371.02 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

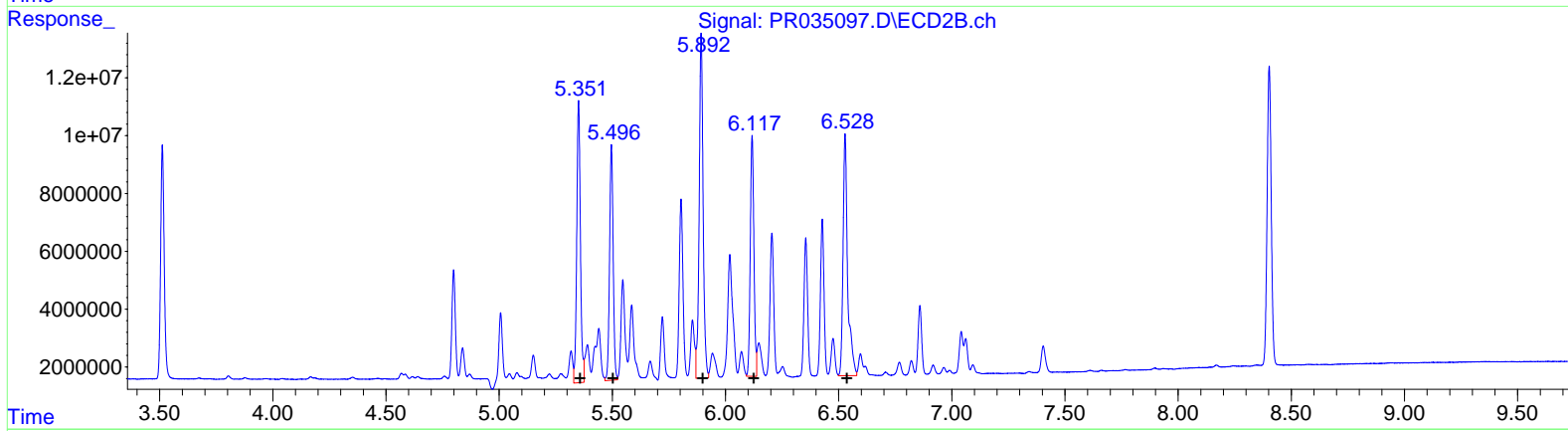
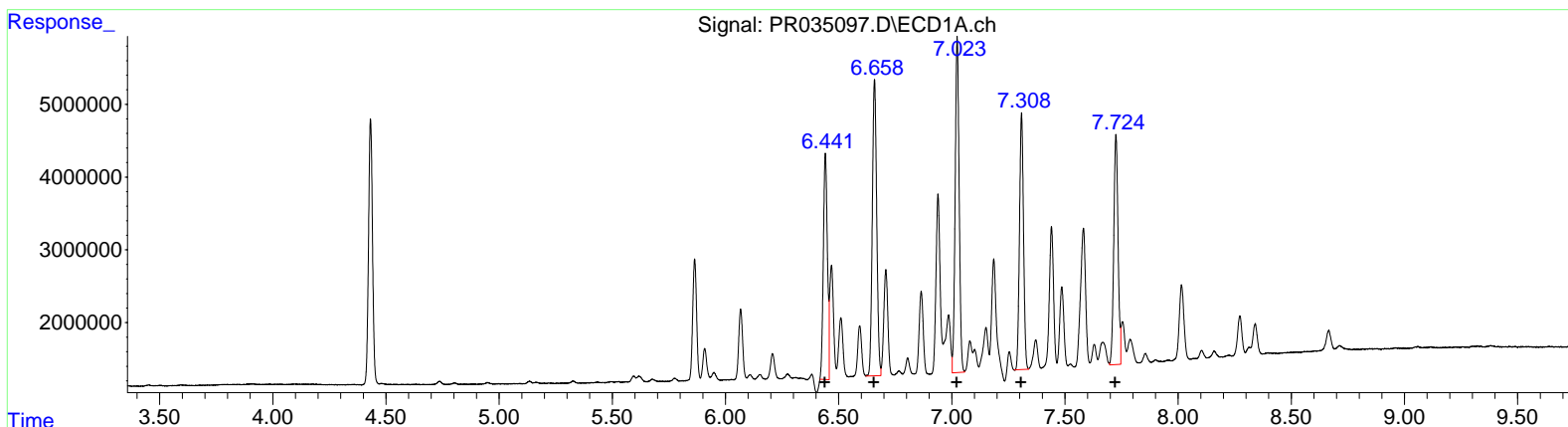
Instrument :
 ECD_R
 Client Sampled :
 AR1254336

Manual Integrations
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 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.44 | 39322628 | 481.28 |
| 6.66 | 54778862 | 428.71 |
| 7.02 | 56417614 | 417.99 |
| 7.31 | 43334340 | 408.51 |
| 7.73 | 41787452 | 390.01 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|--------|
| 5.35 | 109992979 | 449.51 |
| 5.50 | 90057759 | 423.42 |
| 5.89 | 143581724 | 401.83 |
| 6.12 | 92552179 | 391.85 |
| 6.53 | 118333028 | 371.02 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ

Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1254336

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.431 | 3.512 | 44330221 | 88491889 | 22.792m | 25.385 |
| 2) SA Decachlor... | 10.110 | 8.402 | 60010730 | 130.3E6 | 30.525 | 29.636 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.441 | 5.351 | 39322628 | 110.0E6 | 481.276m | 449.513 |
| 27) L6 AR-1254-2 | 6.659 | 5.496 | 54778862 | 90057759 | 428.708 | 423.424 |
| 28) L6 AR-1254-3 | 7.024 | 5.892 | 56417614 | 143.6E6 | 417.995 | 401.831 |
| 29) L6 AR-1254-4 | 7.308 | 6.118 | 43334340 | 92552179 | 408.514 | 391.854 |
| 30) L6 AR-1254-5 | 7.725 | 6.529 | 41787452 | 118.3E6 | 390.014 | 371.018 |
| ----- | | | | | | |

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 12/28/18

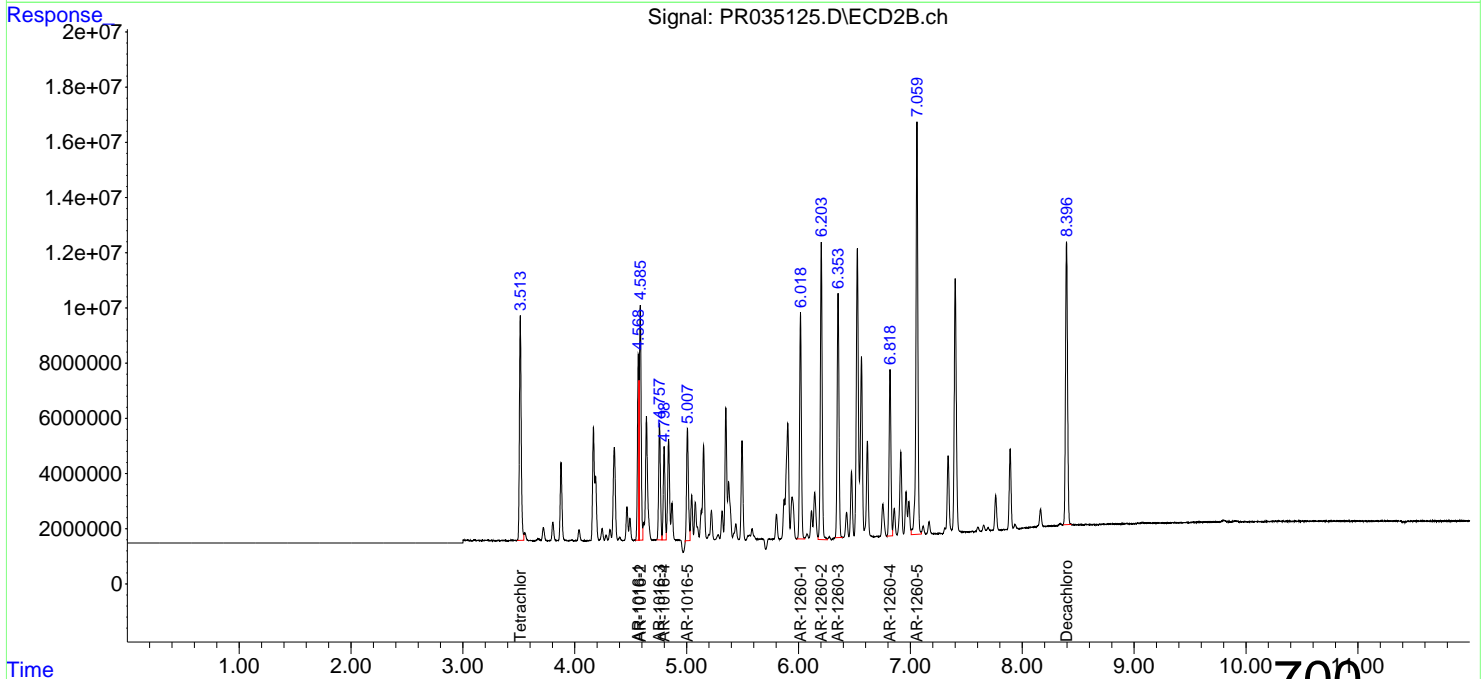
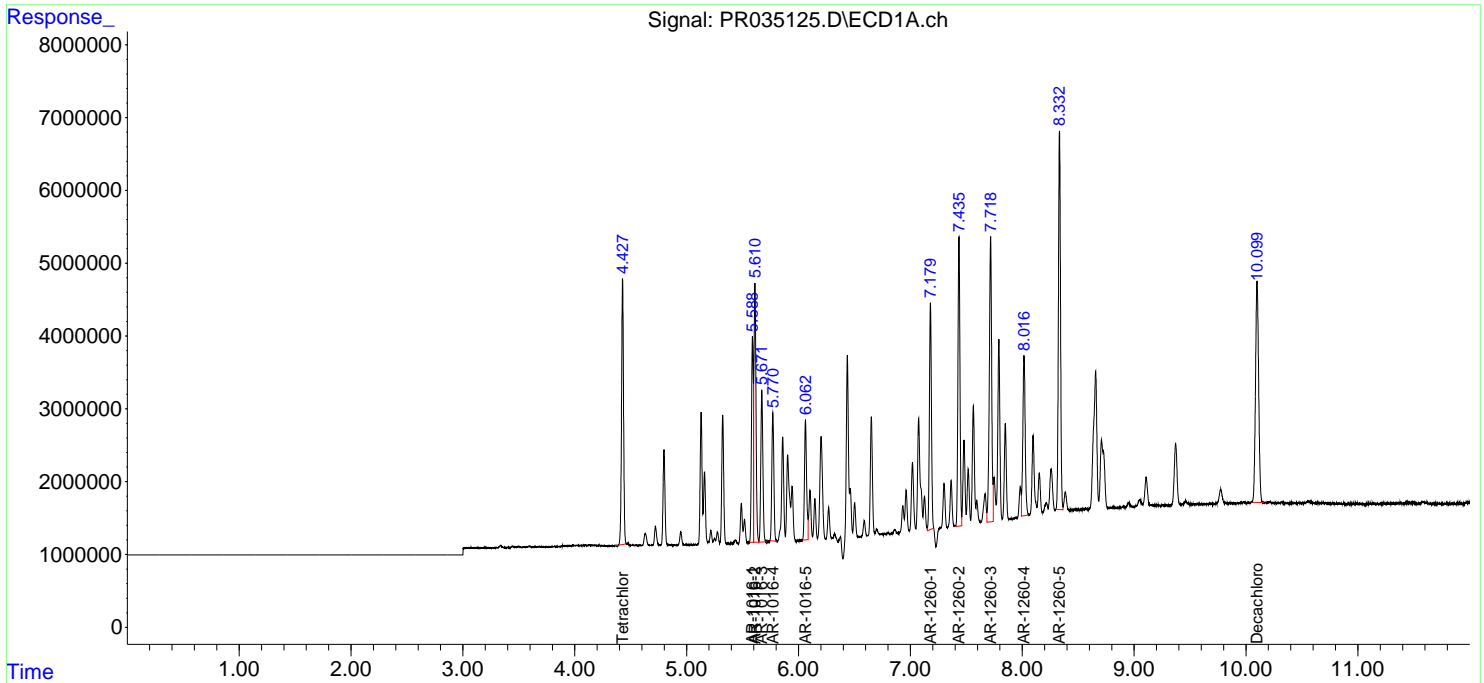
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:23
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660337

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:23
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660337

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 45143170 | 90480660 | 23.209 | 25.955 |
| 2) SA Decachlor... | 10.098 | 8.396 | 58742986 | 128.7E6 | 29.881 | 29.275 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.588 | 4.569 | 31667848 | 62046493 | 469.131 | 476.824 |
| 4) L1 AR-1016-2 | 5.610 | 4.585 | 45171418 | 91778807 | 456.153 | 464.350 |
| 5) L1 AR-1016-3 | 5.672 | 4.757 | 26706585 | 46906375 | 453.764 | 488.019m |
| 6) L1 AR-1016-4 | 5.770 | 4.798 | 22153360 | 36281032 | 467.007 | 480.232m |
| 7) L1 AR-1016-5 | 6.062 | 5.007 | 21651892 | 46771459 | 454.609 | 454.861m |
| 31) L7 AR-1260-1 | 7.179 | 6.018 | 39122128 | 90337937 | 416.157m | 420.231 |
| 32) L7 AR-1260-2 | 7.435 | 6.204 | 49840766 | 121.6E6 | 429.287 | 446.883 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 56729923 | 101.4E6 | 406.502 | 408.603 |
| 34) L7 AR-1260-4 | 8.016 | 6.819 | 32555564 | 67049384 | 376.959 | 392.124 |
| 35) L7 AR-1260-5 | 8.333 | 7.059 | 67471265 | 179.5E6 | 373.691 | 371.062 |
| ----- | | | | | | |

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

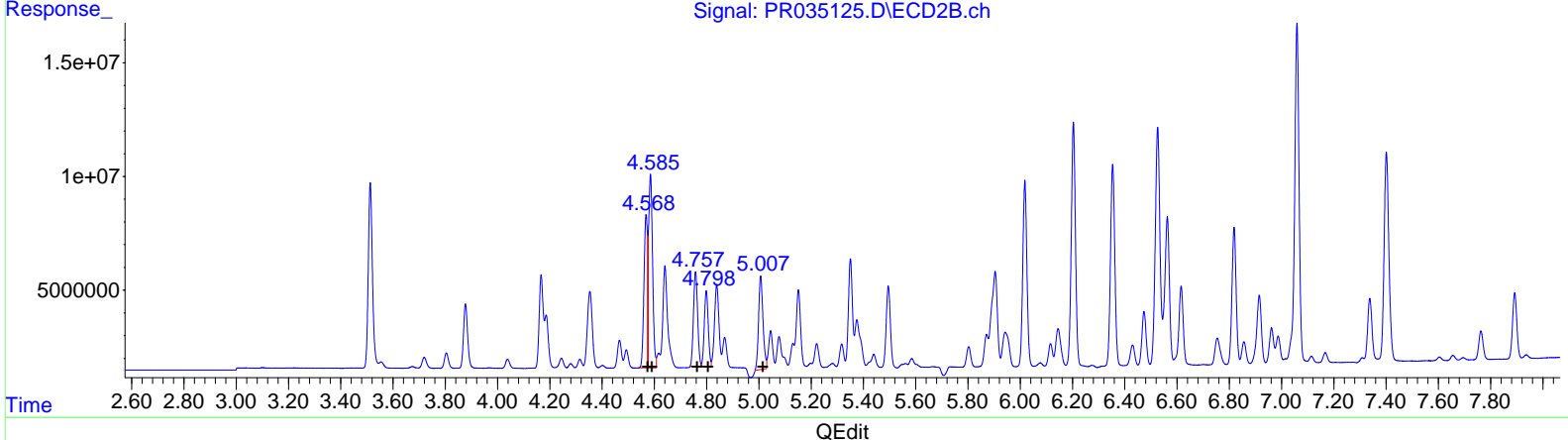
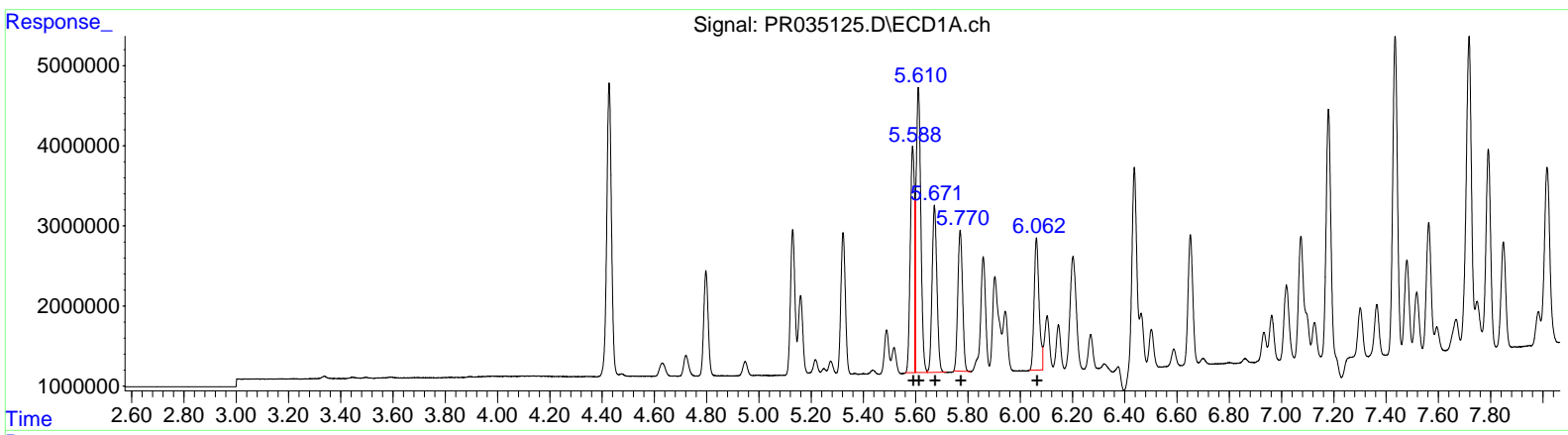
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:23
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
LabSampleID :
 AR1660337

Manual Integrations
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 Sohil
 1/3/2019 2:43:17 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (3) AR-1016-1 (L1) | | |
|--------------------|----------|--------|
| R.T. | Response | Conc |
| 5.59 | 31667848 | 469.13 |
| 5.61 | 45171418 | 456.15 |
| 5.67 | 26706585 | 453.76 |
| 5.77 | 22153360 | 467.01 |
| 6.06 | 21651892 | 454.61 |

| (3) AR-1016-1 #2 (L1) | | |
|-----------------------|----------|--------|
| R.T. | Response | Conc |
| 4.57 | 62046493 | 476.82 |
| 4.59 | 91778807 | 464.35 |
| 4.76 | 45401034 | 472.36 |
| 4.80 | 35228406 | 466.30 |
| 5.01 | 47814830 | 465.01 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:23
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

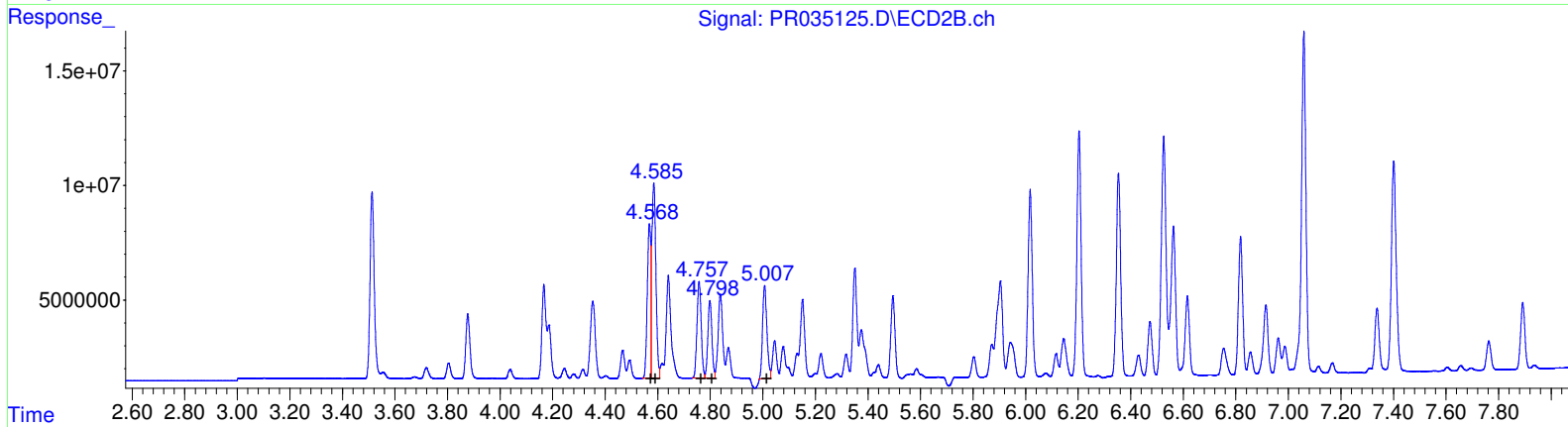
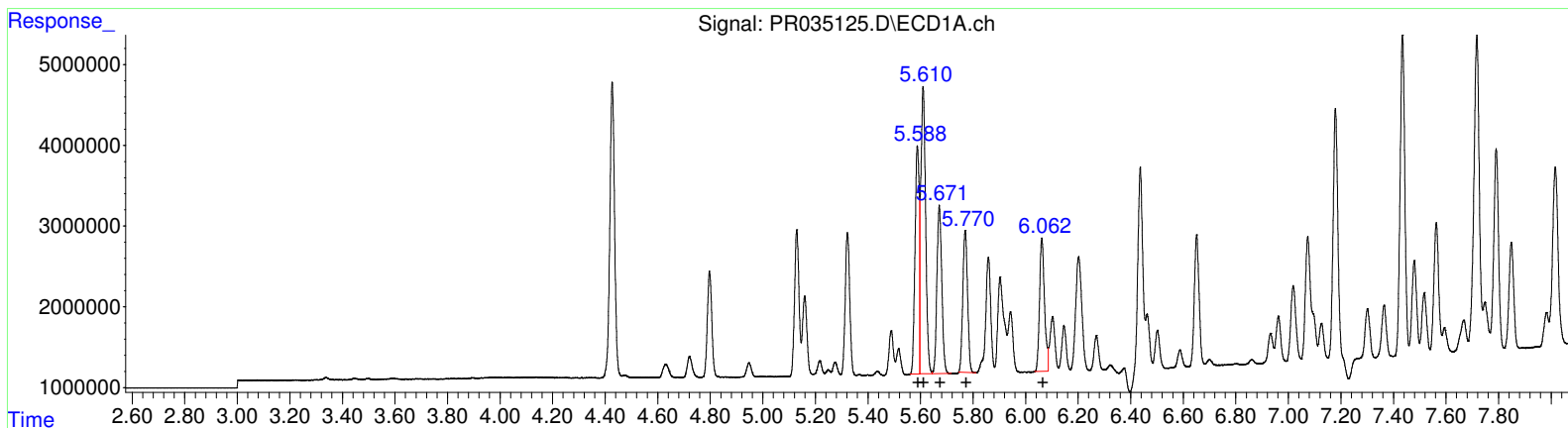
Instrument :
 ECD_R
 LabSampleId :
 AR1660337

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 31667848 | 469.13 |
| 5.61 | 45171418 | 456.15 |
| 5.67 | 26706585 | 453.76 |
| 5.77 | 22153360 | 467.01 |
| 6.06 | 21651892 | 454.61 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 62046493 | 476.82 |
| 4.59 | 91778807 | 464.35 |
| 4.76 | 46906375 | 488.02 |
| 4.80 | 36281032 | 480.23 |
| 5.01 | 46771459 | 454.86 |

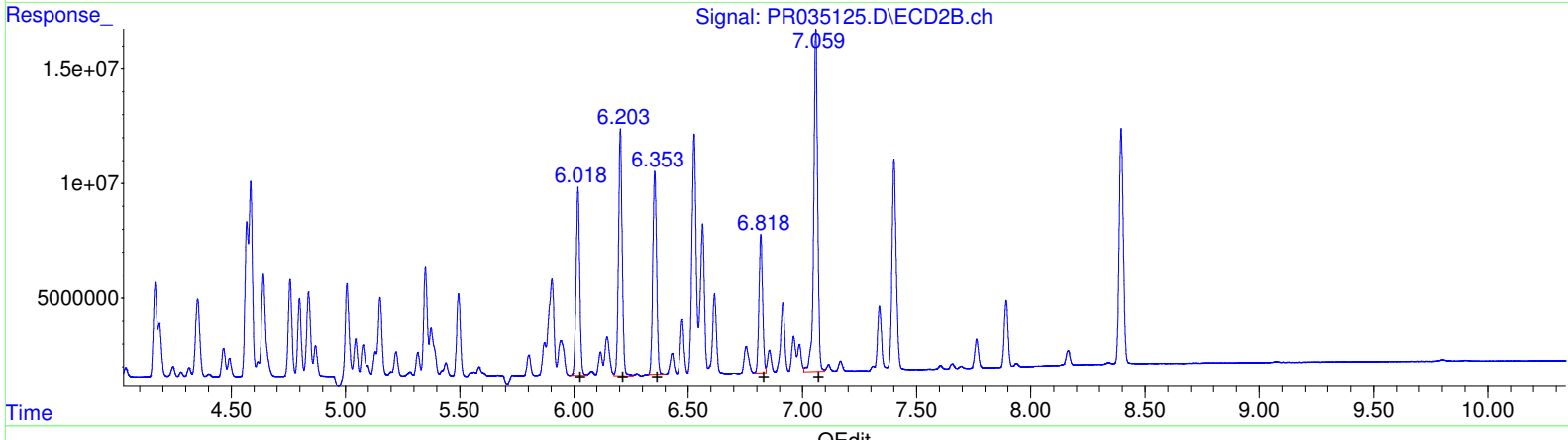
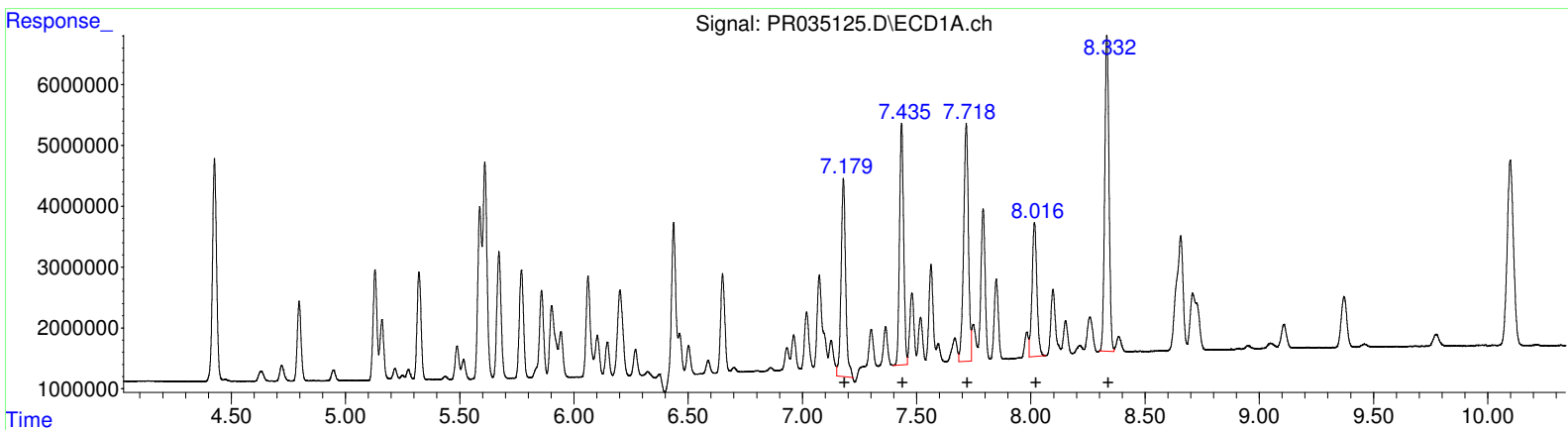
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:23
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
LabSampleId :
 AR1660337

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 44848416 | 477.07 |
| 7.43 | 49840766 | 429.29 |
| 7.72 | 56729923 | 406.50 |
| 8.02 | 32555564 | 376.96 |
| 8.33 | 67471265 | 373.69 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 90337937 | 420.23 |
| 6.20 | 121606598 | 446.88 |
| 6.35 | 101429840 | 408.60 |
| 6.82 | 67049384 | 392.12 |
| 7.06 | 179462649 | 371.06 |

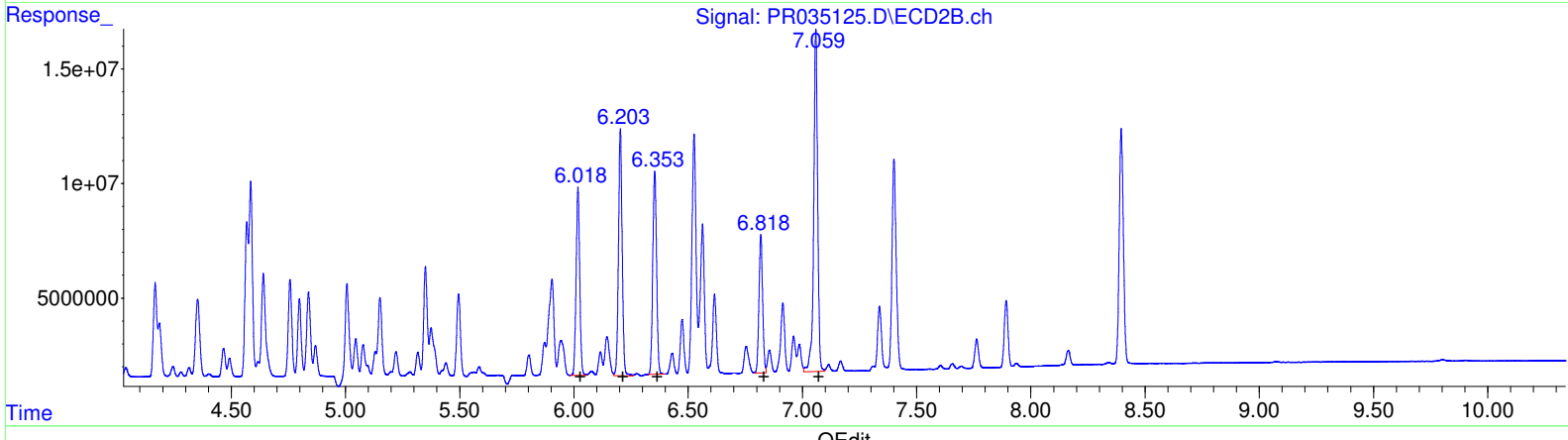
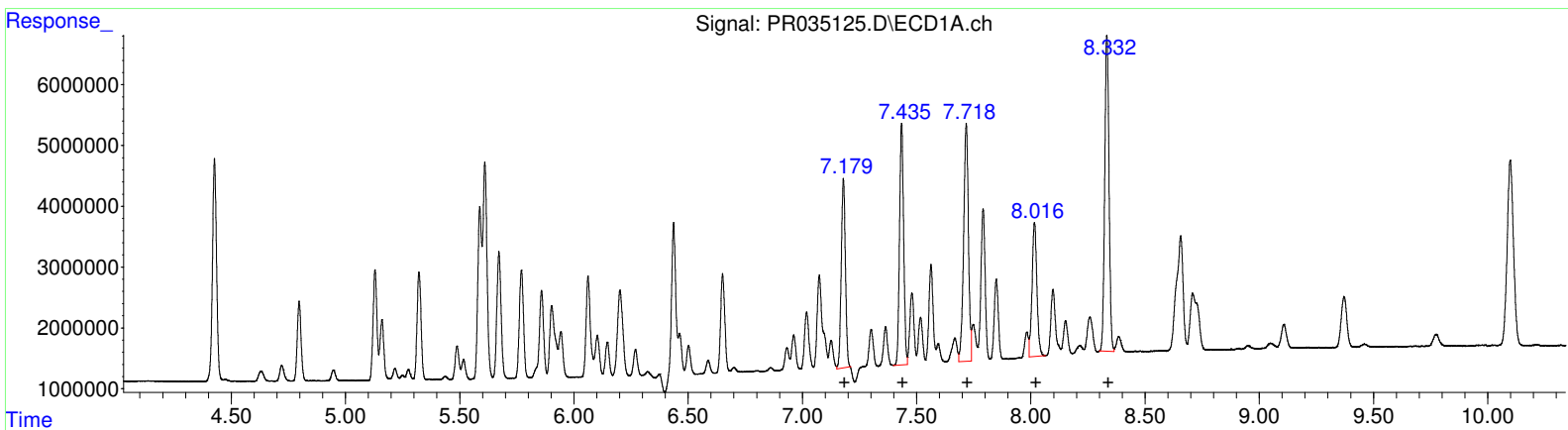
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:23
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
LabSampleId :
 AR1660337

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 39122128 | 416.16 |
| 7.43 | 49840766 | 429.29 |
| 7.72 | 56729923 | 406.50 |
| 8.02 | 32555564 | 376.96 |
| 8.33 | 67471265 | 373.69 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 90337937 | 420.23 |
| 6.20 | 121606598 | 446.88 |
| 6.35 | 101429840 | 408.60 |
| 6.82 | 67049384 | 392.12 |
| 7.06 | 179462649 | 371.06 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:23
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 LabSampleId :
 AR1660337

Manual Integrations
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 1/3/2019 2:43:17 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.427 | 3.513 | 45143170 | 90480660 | 23.209 | 25.955 |
| 2) SA Decachlor... | 10.098 | 8.396 | 58742986 | 128.7E6 | 29.881 | 29.275 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|----------|----------|
| 3) L1 AR-1016-1 | 5.588 | 4.569 | 31667848 | 62046493 | 469.131 | 476.824 |
| 4) L1 AR-1016-2 | 5.610 | 4.585 | 45171418 | 91778807 | 456.153 | 464.350 |
| 5) L1 AR-1016-3 | 5.672 | 4.757 | 26706585 | 46906375 | 453.764 | 488.019m |
| 6) L1 AR-1016-4 | 5.770 | 4.798 | 22153360 | 36281032 | 467.007 | 480.232m |
| 7) L1 AR-1016-5 | 6.062 | 5.007 | 21651892 | 46771459 | 454.609 | 454.861m |
| 31) L7 AR-1260-1 | 7.179 | 6.018 | 39122128 | 90337937 | 416.157m | 420.231 |
| 32) L7 AR-1260-2 | 7.435 | 6.204 | 49840766 | 121.6E6 | 429.287 | 446.883 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 56729923 | 101.4E6 | 406.502 | 408.603 |
| 34) L7 AR-1260-4 | 8.016 | 6.819 | 32555564 | 67049384 | 376.959 | 392.124 |
| 35) L7 AR-1260-5 | 8.333 | 7.059 | 67471265 | 179.5E6 | 373.691 | 371.062 |

} SJ
 12/28/18

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

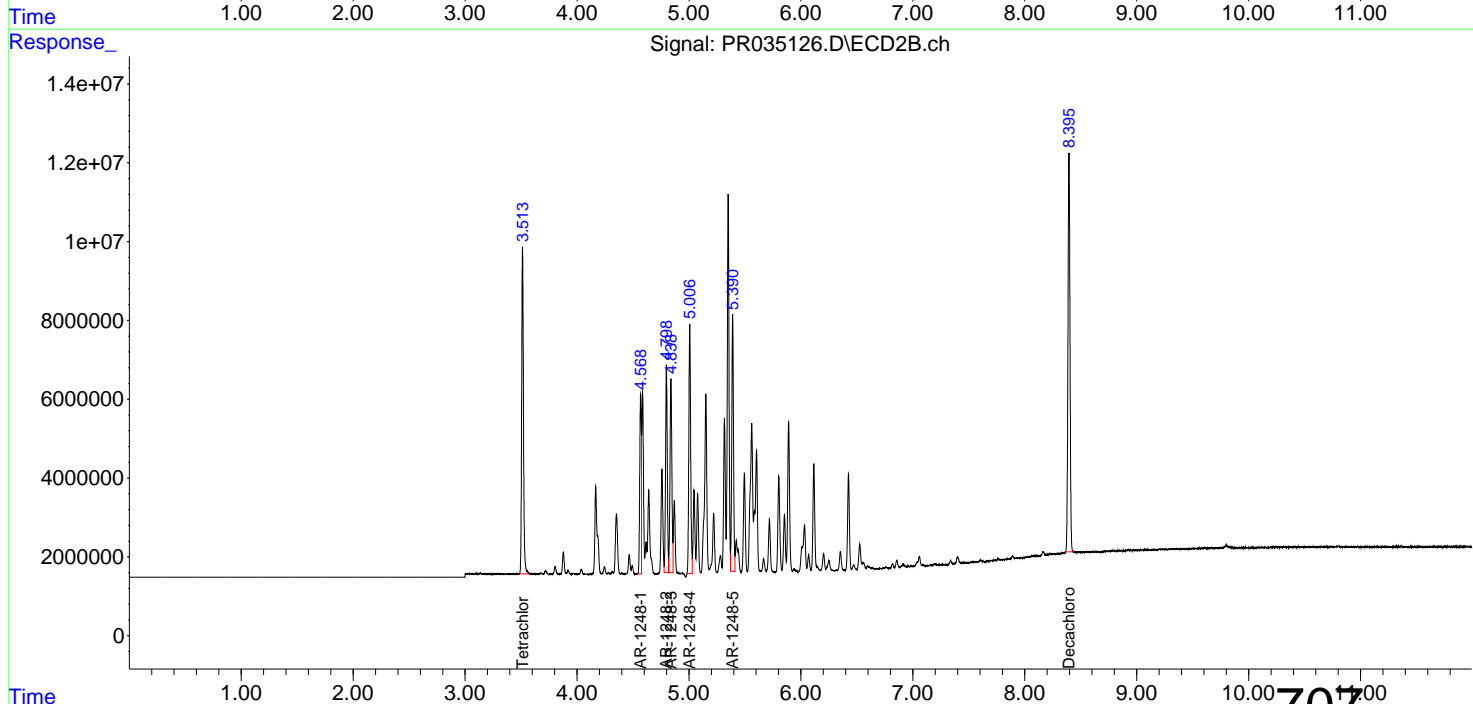
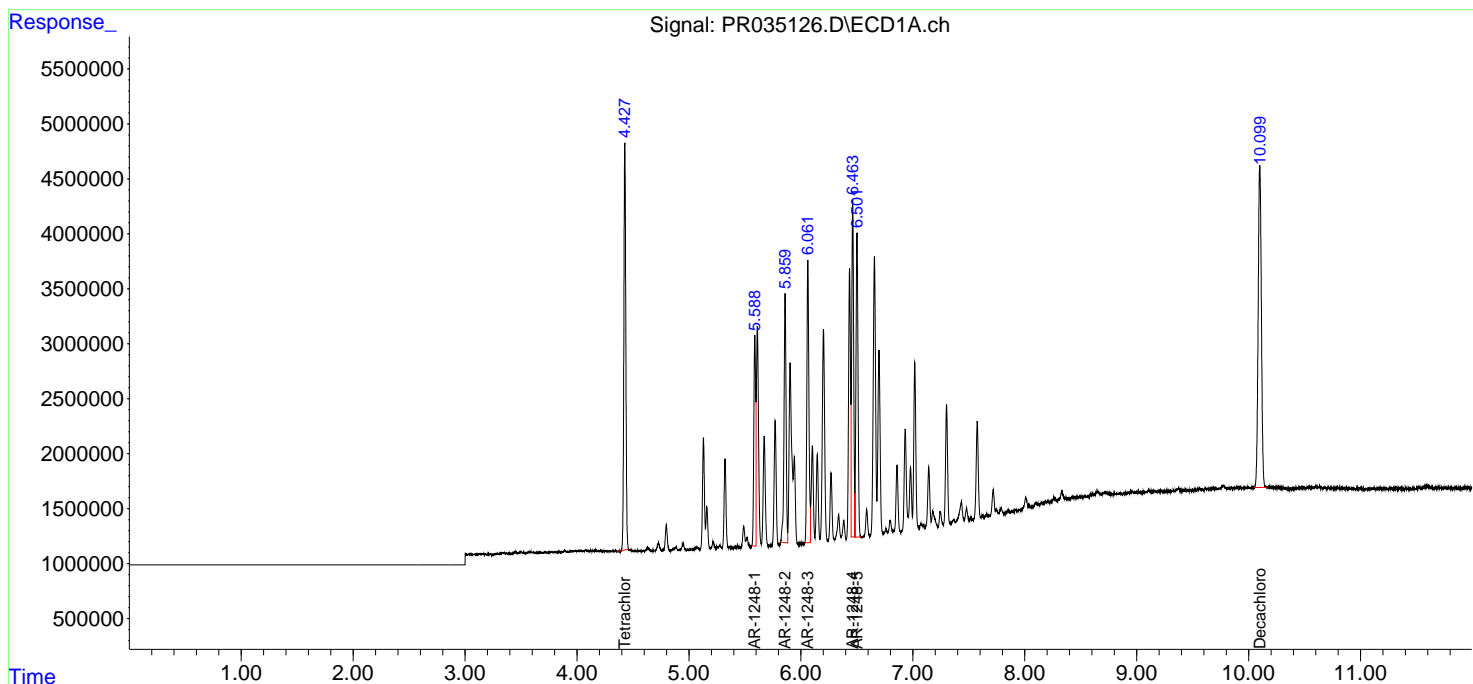
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035126.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:38
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248337

Manual Integrations
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 Sohil
 12/29/2018 12:19:15 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035126.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:38
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248337

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:19:15 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 44752493 | 92335294 | 23.009 | 26.487 |
| 2) SA Decachlor... | 10.099 | 8.395 | 58114456 | 126.9E6 | 29.561 | 28.870 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.588 | 4.568 | 22184891 | 45198448 | 457.207 | 463.566 |
| 22) L5 AR-1248-2 | 5.859 | 4.798 | 29046559 | 56549593 | 439.610 | 441.441 |
| 23) L5 AR-1248-3 | 6.062 | 4.839 | 32992499 | 57829438 | 441.578 | 438.178 |
| 24) L5 AR-1248-4 | 6.463 | 5.006 | 37829697 | 71609734 | 423.407 | 435.237m |
| 25) L5 AR-1248-5 | 6.501 | 5.390 | 35344141 | 70564028 | 422.432 | 421.641 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035126.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:38
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

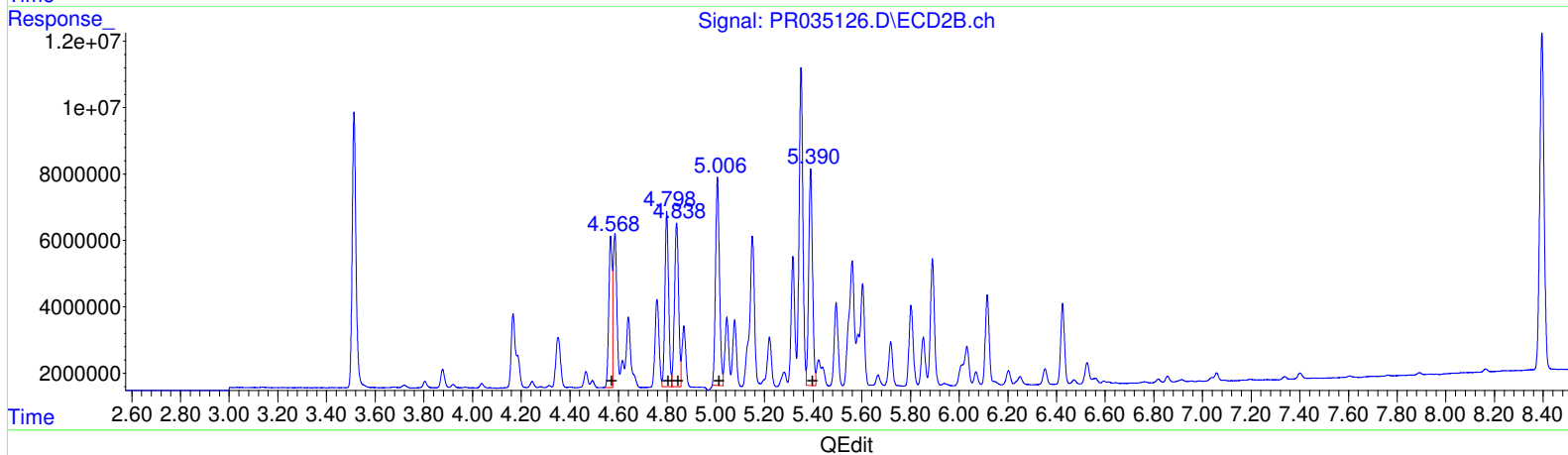
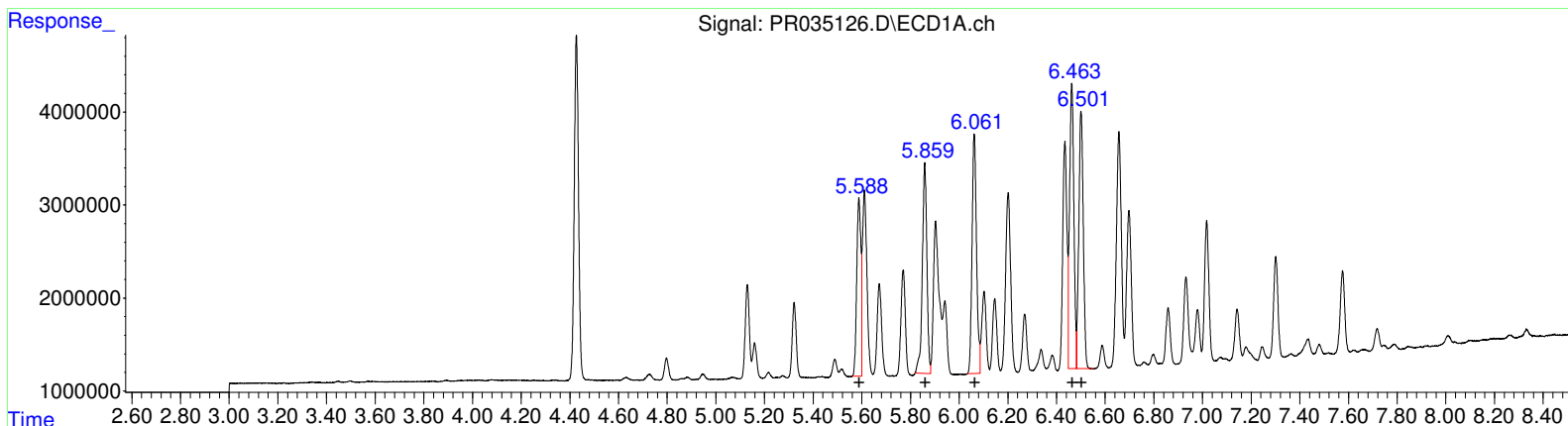
Instrument :
 ECD_R
 ClientSampled :
 AR1248337

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:19:15 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 22184891 | 457.21 |
| 5.86 | 29046559 | 439.61 |
| 6.06 | 32992499 | 441.58 |
| 6.46 | 37829697 | 423.41 |
| 6.50 | 35344141 | 422.43 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 45198448 | 463.57 |
| 4.80 | 56549593 | 441.44 |
| 4.84 | 57829438 | 438.18 |
| 5.01 | 69864093 | 424.63 |
| 5.39 | 70564028 | 421.64 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035126.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:38
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

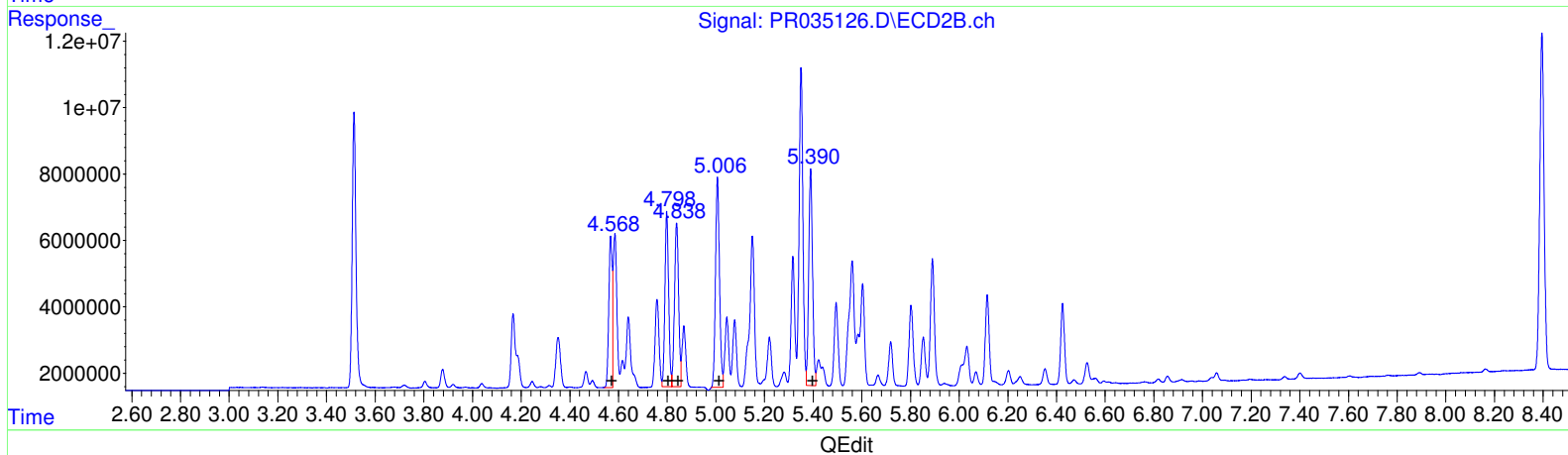
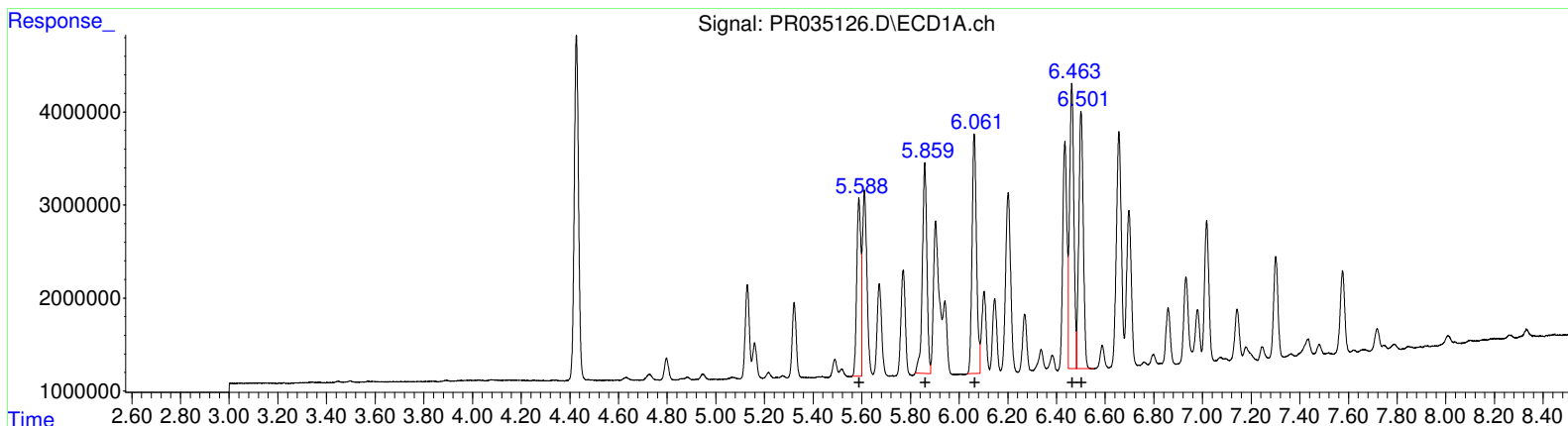
Instrument :
 ECD_R
 Client Sampled :
 AR1248337

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:19:15 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 22184891 | 457.21 |
| 5.86 | 29046559 | 439.61 |
| 6.06 | 32992499 | 441.58 |
| 6.46 | 37829697 | 423.41 |
| 6.50 | 35344141 | 422.43 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 45198448 | 463.57 |
| 4.80 | 56549593 | 441.44 |
| 4.84 | 57829438 | 438.18 |
| 5.01 | 71609734 | 435.24 |
| 5.39 | 70564028 | 421.64 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035126.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:38

Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1248337

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.427 | 3.513 | 44752493 | 92335294 | 23.009 | 26.487 |
| 2) SA Decachlor... | 10.099 | 8.395 | 58114456 | 126.9E6 | 29.561 | 28.870 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|----------|
| 21) L5 AR-1248-1 | 5.588 | 4.568 | 22184891 | 45198448 | 457.207 | 463.566 |
| 22) L5 AR-1248-2 | 5.859 | 4.798 | 29046559 | 56549593 | 439.610 | 441.441 |
| 23) L5 AR-1248-3 | 6.062 | 4.839 | 32992499 | 57829438 | 441.578 | 438.178 |
| 24) L5 AR-1248-4 | 6.463 | 5.006 | 37829697 | 71609734 | 423.407 | 435.237m |
| 25) L5 AR-1248-5 | 6.501 | 5.390 | 35344141 | 70564028 | 422.432 | 421.641 |

> SJ
 12/28/18

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

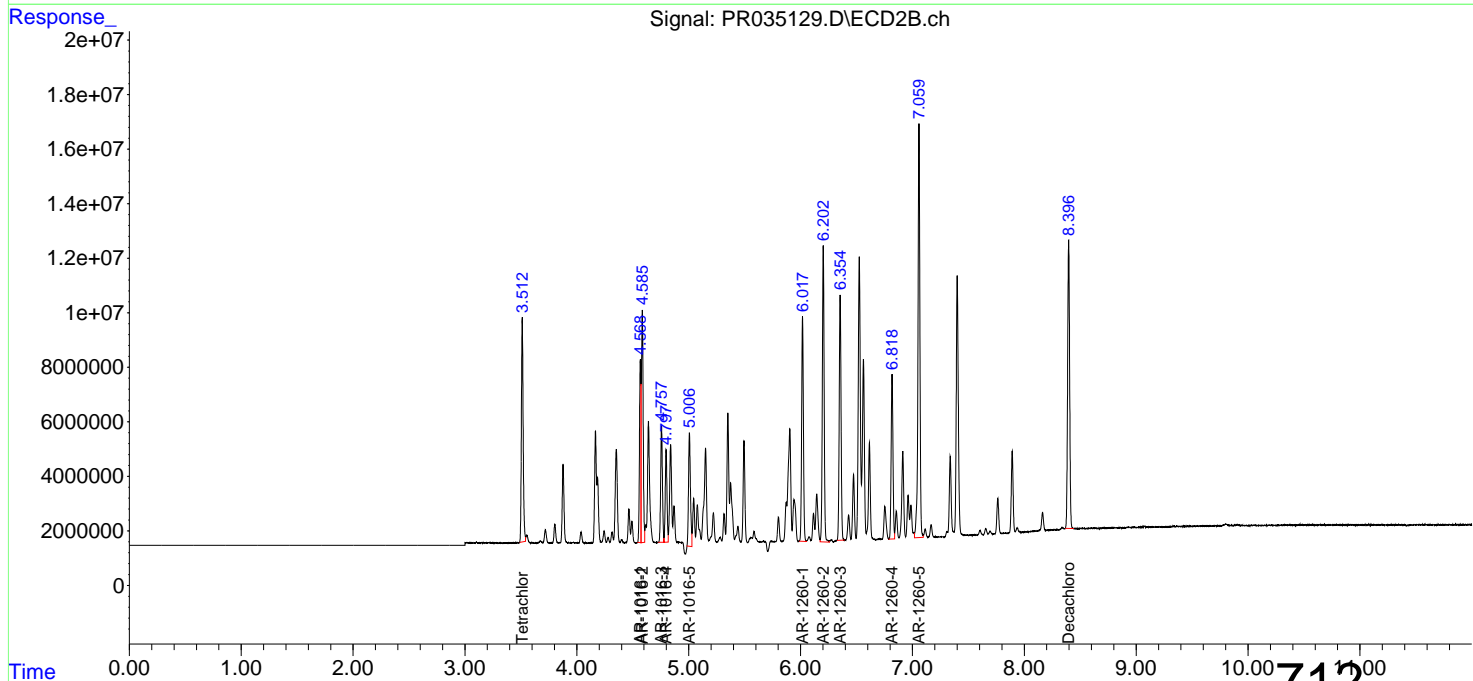
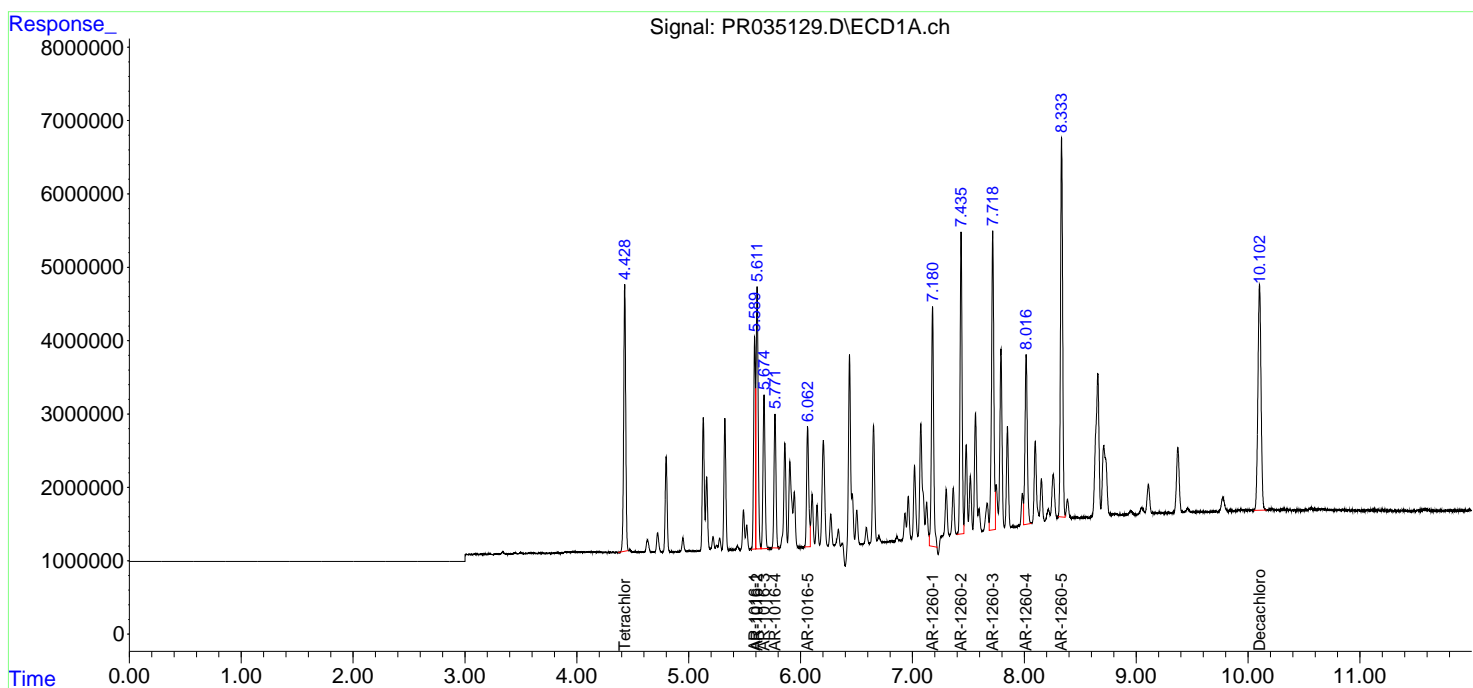
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:26
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660338

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:10:47 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:50:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:26
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660338

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:10:47 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:50:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.512 | 45894551 | 90287419 | 23.596 | 25.900m |
| 2) SA Decachlor... | 10.103 | 8.397 | 59782792 | 130.6E6 | 30.410 | 29.703 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.568 | 31958283 | 61441380 | 473.434 | 472.174m |
| 4) L1 AR-1016-2 | 5.612 | 4.585 | 45987637 | 91672564 | 464.395 | 463.812m |
| 5) L1 AR-1016-3 | 5.674 | 4.757 | 27010054 | 46900168 | 458.920 | 487.954 |
| 6) L1 AR-1016-4 | 5.772 | 4.798 | 22496278 | 36229758 | 474.236 | 479.553 |
| 7) L1 AR-1016-5 | 6.063 | 5.006 | 21983120 | 49754673 | 461.563 | 483.873m |
| 31) L7 AR-1260-1 | 7.180 | 6.018 | 44899810 | 90517357 | 477.617 | 421.065 |
| 32) L7 AR-1260-2 | 7.435 | 6.203 | 50996327 | 122.0E6 | 439.240 | 448.413 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 57678946 | 102.1E6 | 413.302 | 411.431 |
| 34) L7 AR-1260-4 | 8.017 | 6.818 | 33580737 | 67977834 | 388.830 | 397.554 |
| 35) L7 AR-1260-5 | 8.333 | 7.059 | 68090283 | 180.7E6 | 377.119 | 373.654 |

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

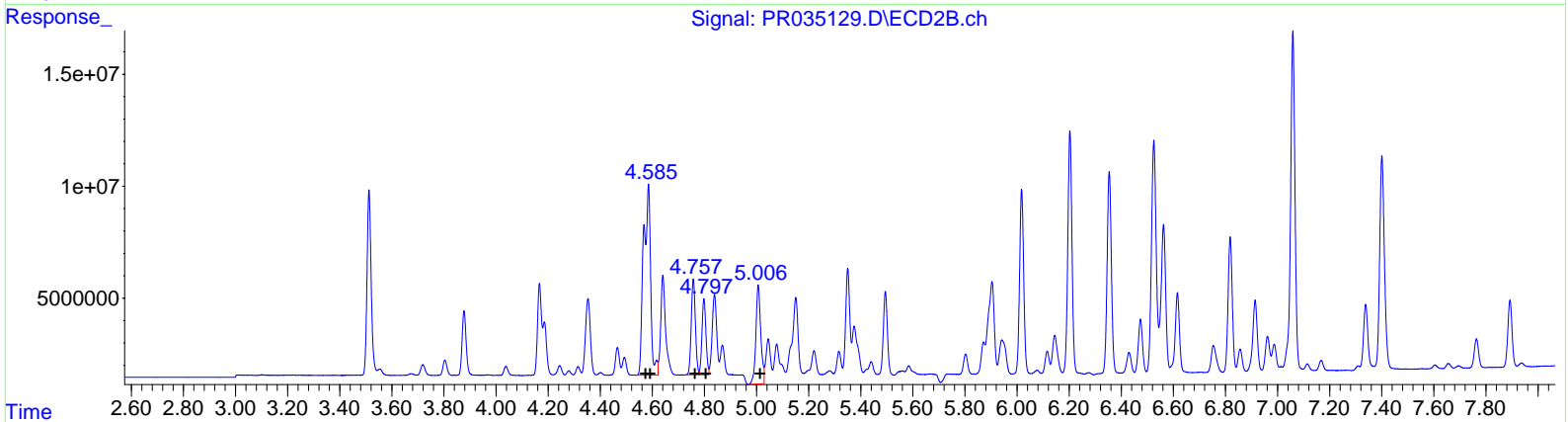
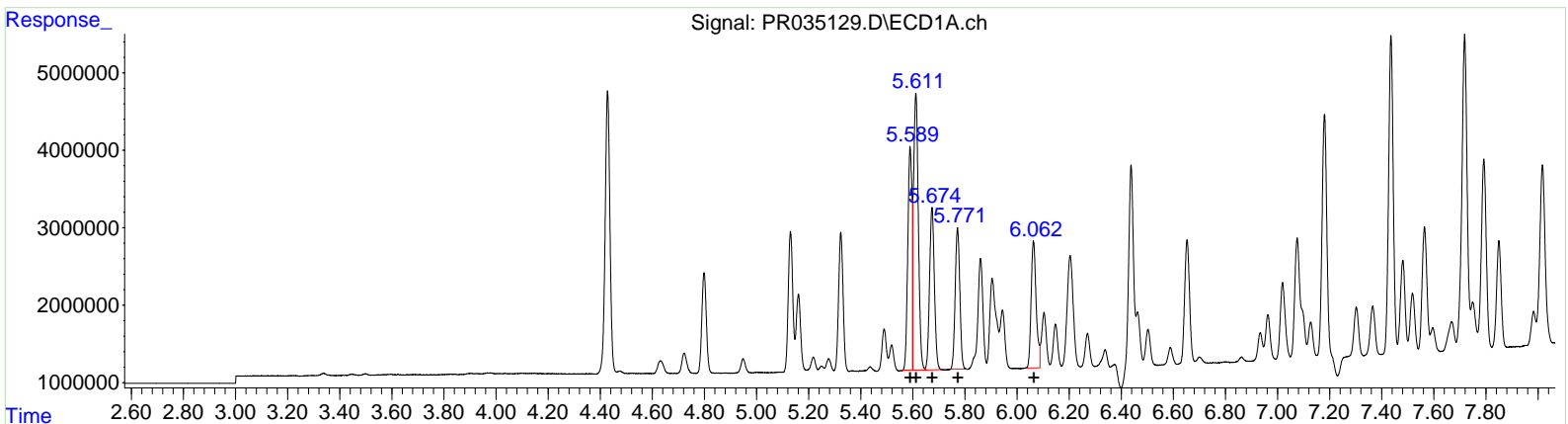
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 Data File : PR035129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:26
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1660338

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:10:47 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:50:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (3) AR-1016-1 (L1) | | |
|-----------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 31958283 | 473.43 |
| 5.61 | 45987637 | 464.40 |
| 5.67 | 27010054 | 458.92 |
| 5.77 | 22496278 | 474.24 |
| 6.06 | 21983120 | 461.56 |
| (3) AR-1016-1 #2 (L1) | | |
| R.T. | Response | Conc |
| 4.59 | 159271909 | 1224.00 |
| 4.59 | 159271909 | 805.83 |
| 4.76 | 46900168 | 487.95 |
| 4.80 | 36229758 | 479.55 |
| 5.01 | 57537078 | 559.56 |

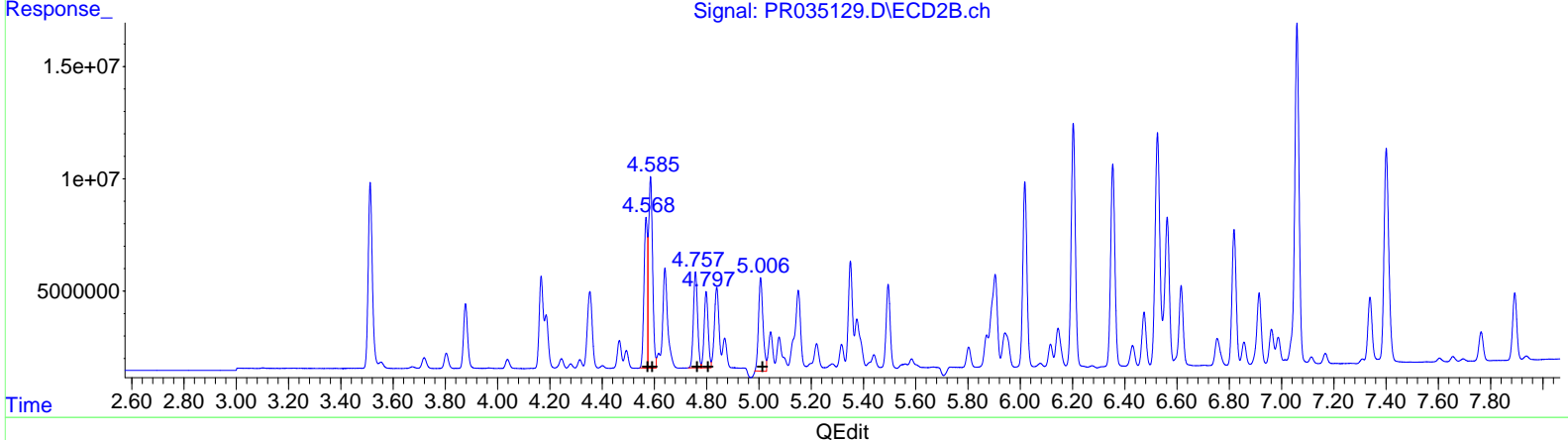
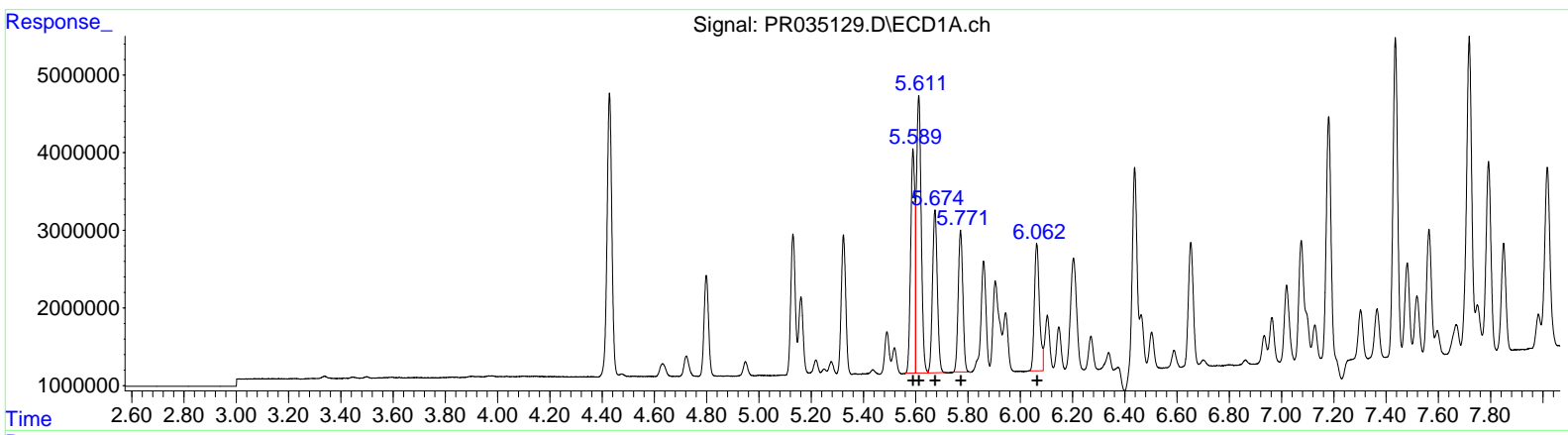
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 Data File : PR035129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:26
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1660338

Manual Integrations
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 mohammad
 12/31/2018 11:10:47 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:50:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 31958283 | 473.43 |
| 5.61 | 45987637 | 464.40 |
| 5.67 | 27010054 | 458.92 |
| 5.77 | 22496278 | 474.24 |
| 6.06 | 21983120 | 461.56 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 61441380 | 472.17 |
| 4.58 | 91672564 | 463.81 |
| 4.76 | 46900168 | 487.95 |
| 4.80 | 36229758 | 479.55 |
| 5.01 | 49754673 | 483.87 |

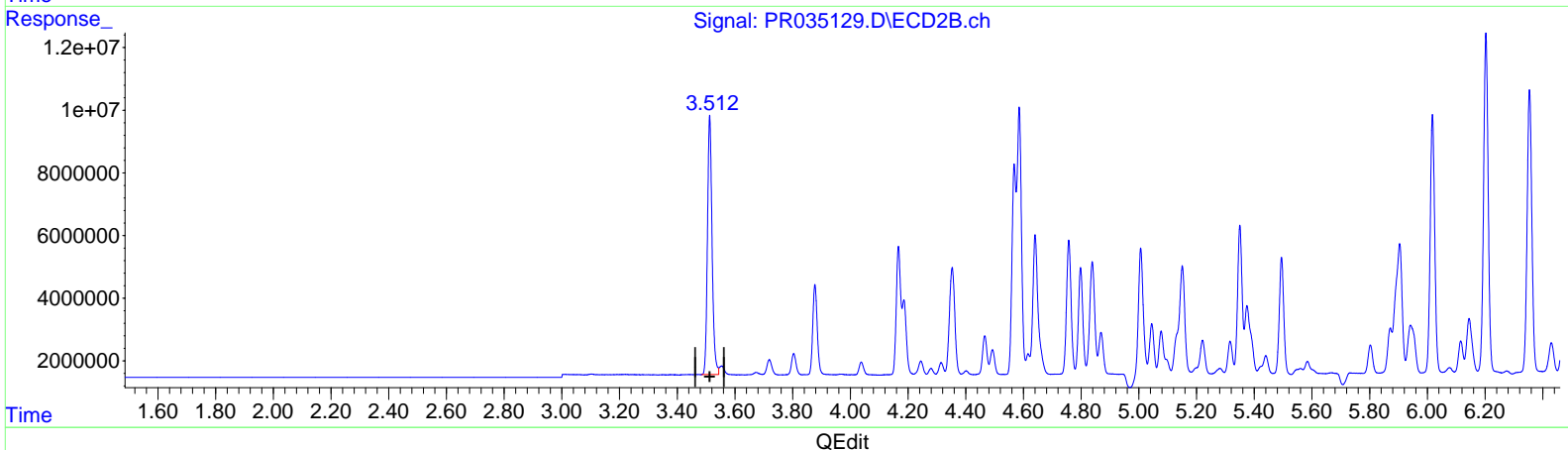
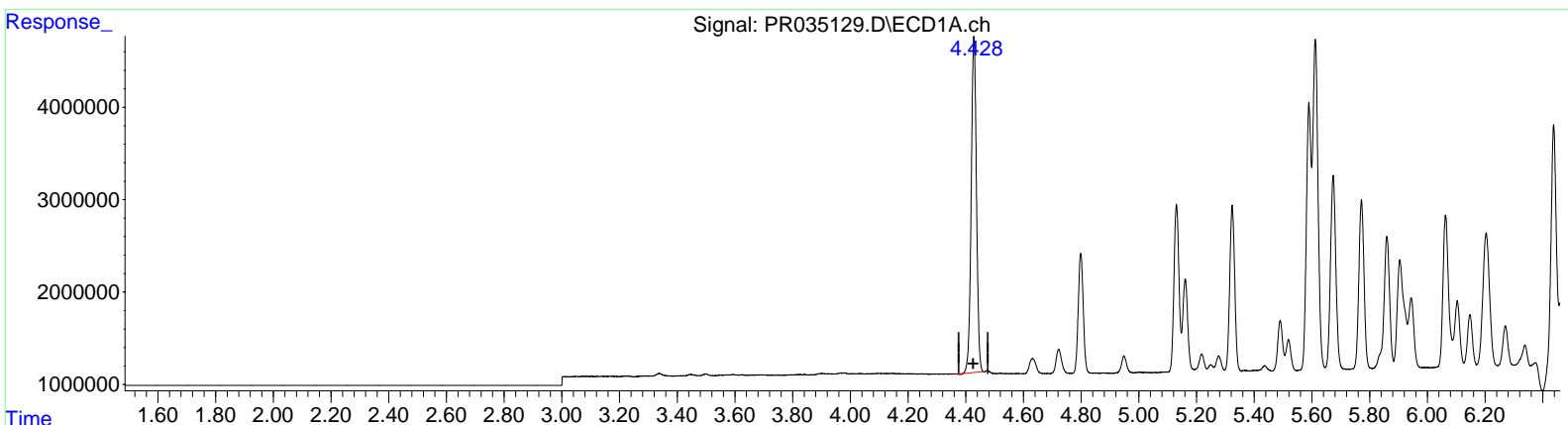
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 Data File : PR035129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:26
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1660338

Manual Integrations
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 mohammad
 12/31/2018 11:10:47 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:50:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.428min 23.596 ng/ml

response 45894551

(1) Tetrachloro-m-xylene #2 (SA)

3.513min 26.228 ng/ml

response 91432645

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:26
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

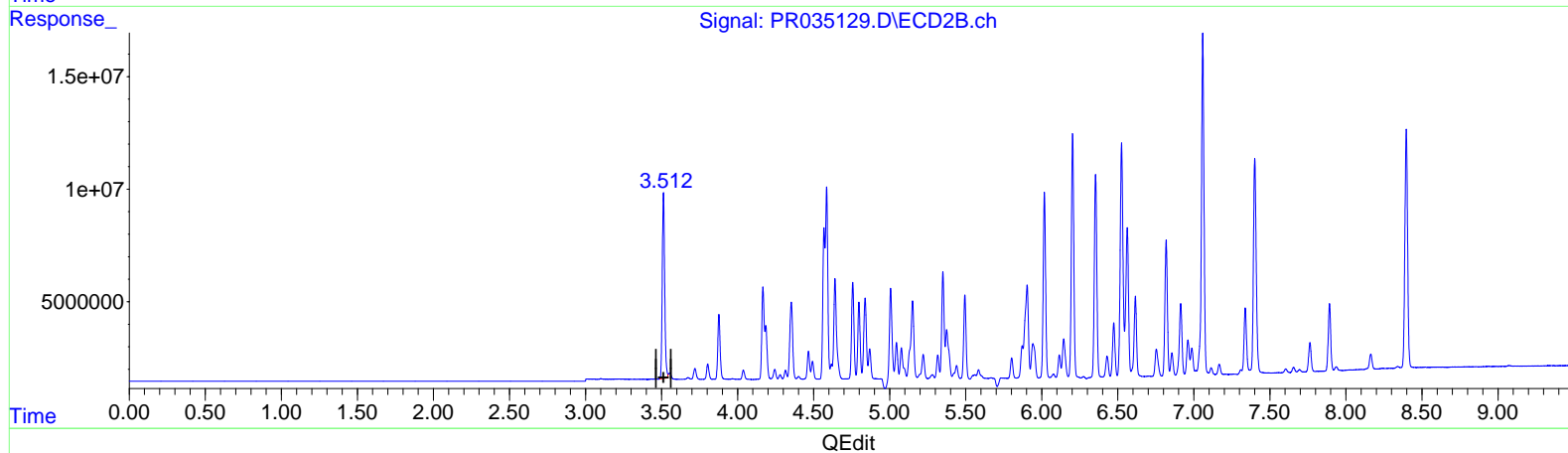
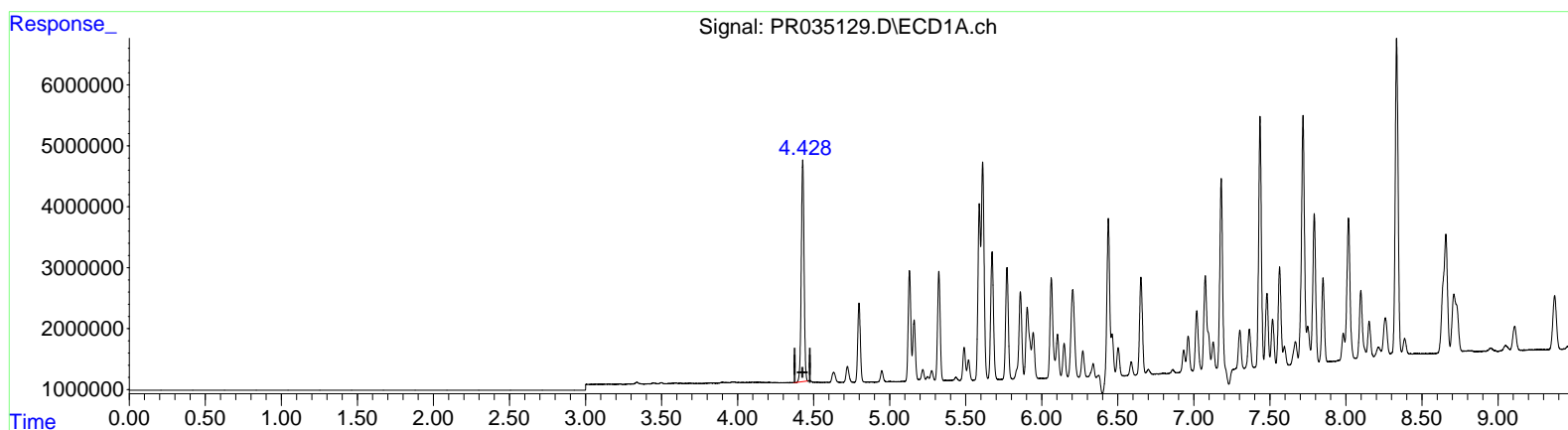
Instrument :
 ECD_R
 ClientSampled :
 AR1660338

Manual Integrations
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 12/31/2018 11:10:47 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:50:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.428min 23.596 ng/ml

response 45894551

(1) Tetrachloro-m-xylene #2 (SA)

3.512min 25.900 ng/ml m

response 90287419

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:26
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660338

Manual Integrations
 APPROVED

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 12/31/2018 11:10:47 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:50:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.512 | 45894551 | 90287419 | 23.596 | 25.900m |
| 2) SA Decachlor... | 10.103 | 8.397 | 59782792 | 130.6E6 | 30.410 | 29.703 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.568 | 31958283 | 61441380 | 473.434 | 472.174m |
| 4) L1 AR-1016-2 | 5.612 | 4.585 | 45987637 | 91672564 | 464.395 | 463.812m |
| 5) L1 AR-1016-3 | 5.674 | 4.757 | 27010054 | 46900168 | 458.920 | 487.954 |
| 6) L1 AR-1016-4 | 5.772 | 4.798 | 22496278 | 36229758 | 474.236 | 479.553 |
| 7) L1 AR-1016-5 | 6.063 | 5.006 | 21983120 | 49754673 | 461.563 | 483.873m |
| 31) L7 AR-1260-1 | 7.180 | 6.018 | 44899810 | 90517357 | 477.617 | 421.065 |
| 32) L7 AR-1260-2 | 7.435 | 6.203 | 50996327 | 122.0E6 | 439.240 | 448.413 |
| 33) L7 AR-1260-3 | 7.718 | 6.354 | 57678946 | 102.1E6 | 413.302 | 411.431 |
| 34) L7 AR-1260-4 | 8.017 | 6.818 | 33580737 | 67977834 | 388.830 | 397.554 |
| 35) L7 AR-1260-5 | 8.333 | 7.059 | 68090283 | 180.7E6 | 377.119 | 373.654 |

SJ
 12/31/18

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

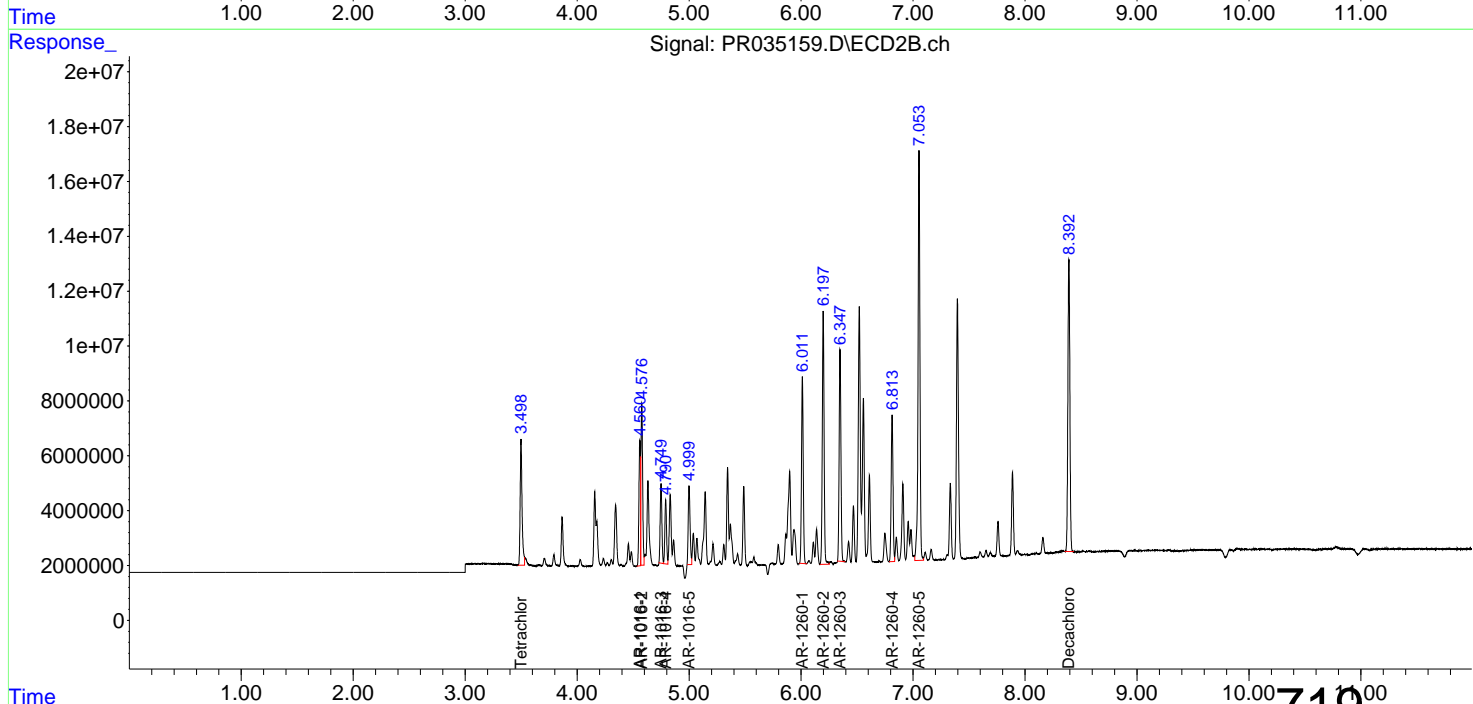
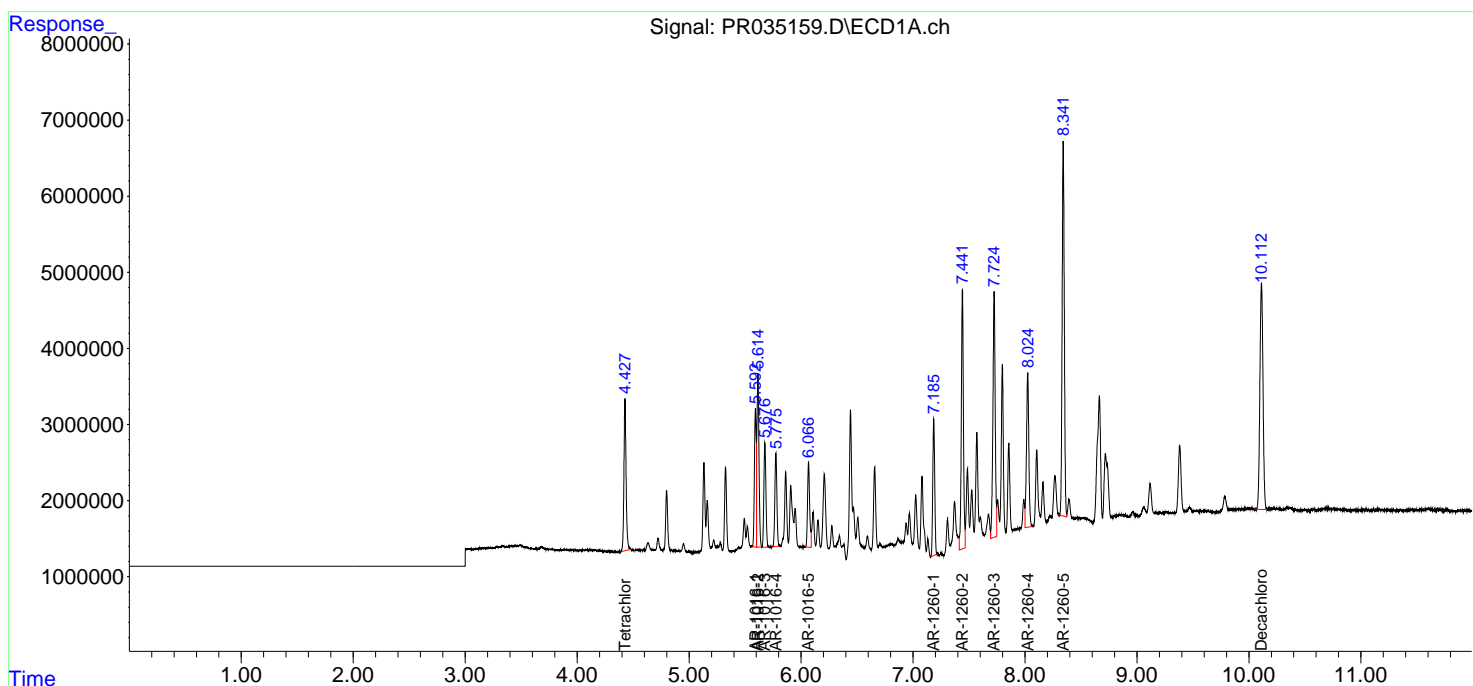
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1660339

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:39 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660339

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:39 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.498 | 26516885 | 54552867 | 13.633m | 15.649m |
| 2) SA Decachlor... | 10.112 | 8.392 | 57632521 | 131.1E6 | 29.316 | 29.809m |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.592 | 4.560 | 20390349 | 44654234 | 302.065 | 343.166m |
| 4) L1 AR-1016-2 | 5.615 | 4.576 | 28965122 | 61046649 | 292.497 | 308.862m |
| 5) L1 AR-1016-3 | 5.677 | 4.749 | 17560532 | 30465064 | 298.366 | 316.962 |
| 6) L1 AR-1016-4 | 5.775 | 4.791 | 15467864 | 24321242 | 326.072 | 321.927 |
| 7) L1 AR-1016-5 | 6.067 | 4.999 | 14662666 | 33226487 | 307.861 | 323.134m |
| 31) L7 AR-1260-1 | 7.185 | 6.012 | 21742394 | 73481517 | 231.282 | 341.819 # |
| 32) L7 AR-1260-2 | 7.441 | 6.198 | 44623733 | 102.3E6 | 384.352 | 376.057 |
| 33) L7 AR-1260-3 | 7.725 | 6.348 | 46023294 | 85086382 | 329.783 | 342.764 |
| 34) L7 AR-1260-4 | 8.024 | 6.813 | 29732388 | 60398087 | 344.270 | 353.225 |
| 35) L7 AR-1260-5 | 8.341 | 7.054 | 65684967 | 174.6E6 | 363.797 | 360.932 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

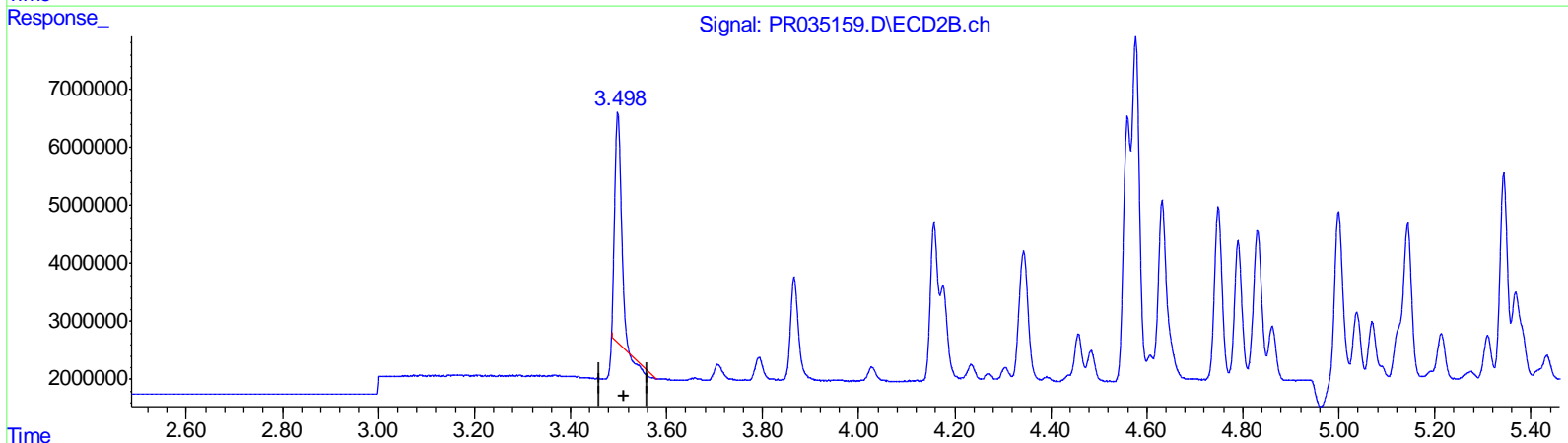
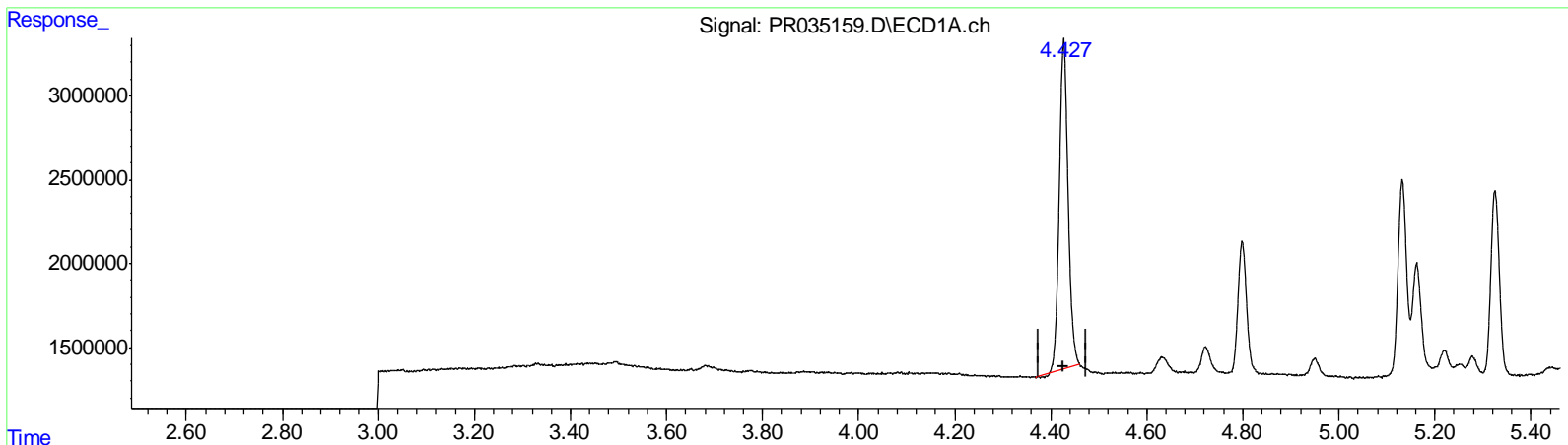
Instrument :
 ECD_R
 ClientSampled :
 AR1660339

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:39 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(1) Tetrachloro-m-xylene (SA)

4.427min 12.845 ng/ml

response 24983646

(1) Tetrachloro-m-xylene #2 (SA)

3.499min 10.311 ng/ml

response 35944101

(+) = Expected Retention Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

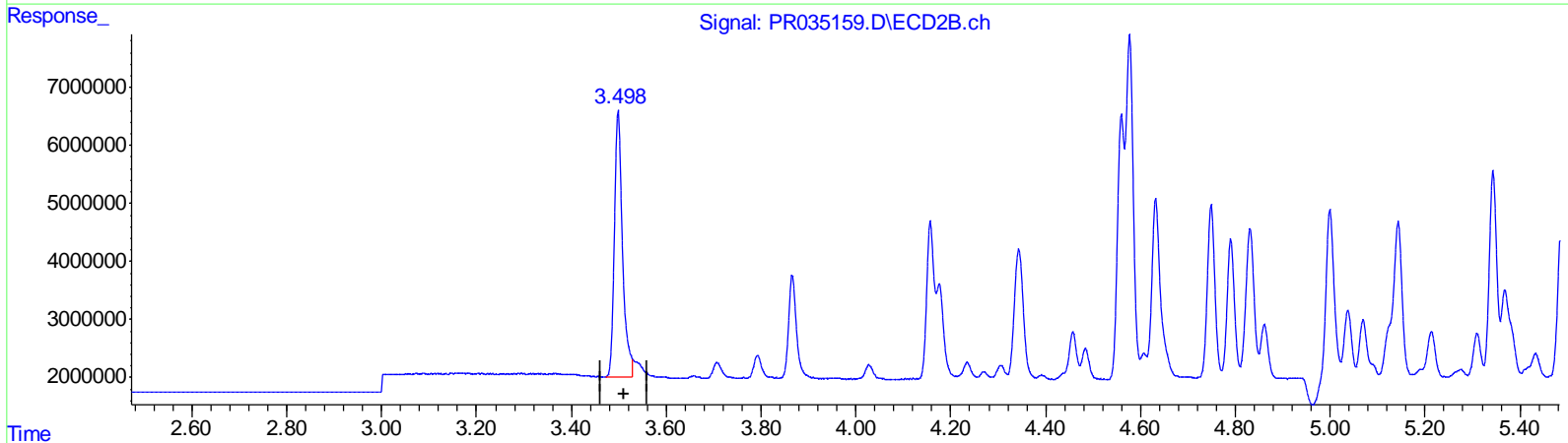
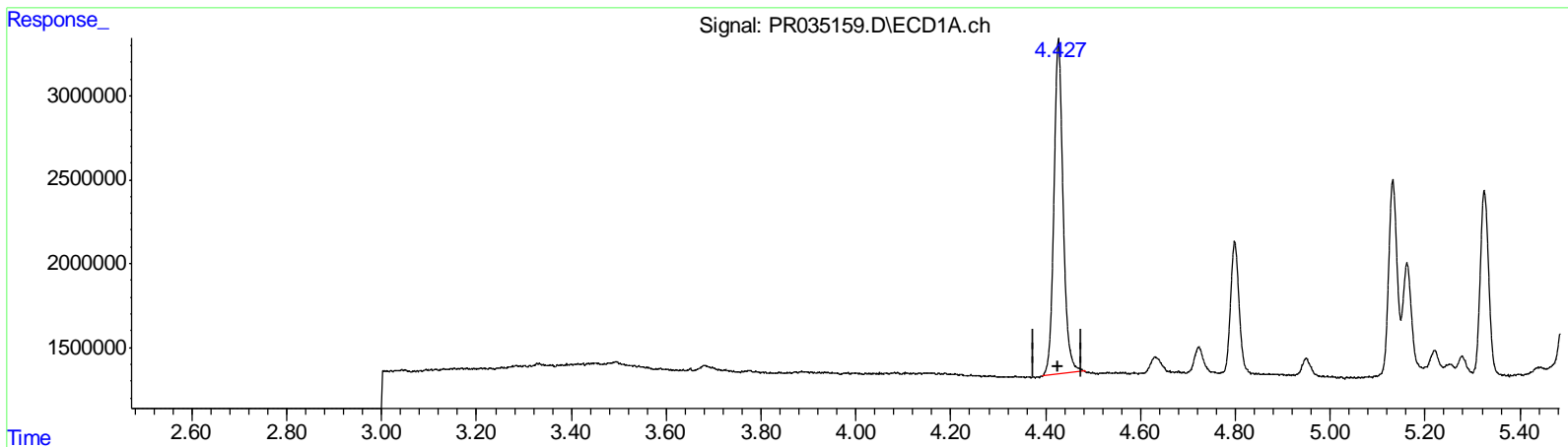
Instrument :
 ECD_R
 ClientSampled :
 AR1660339

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:39 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(1) Tetrachloro-m-xylene (SA)

4.427min 13.633 ng/ml m

response 26516885

(1) Tetrachloro-m-xylene #2 (SA)

3.498min 15.649 ng/ml m

response 54552867

(+) = Expected Retention Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

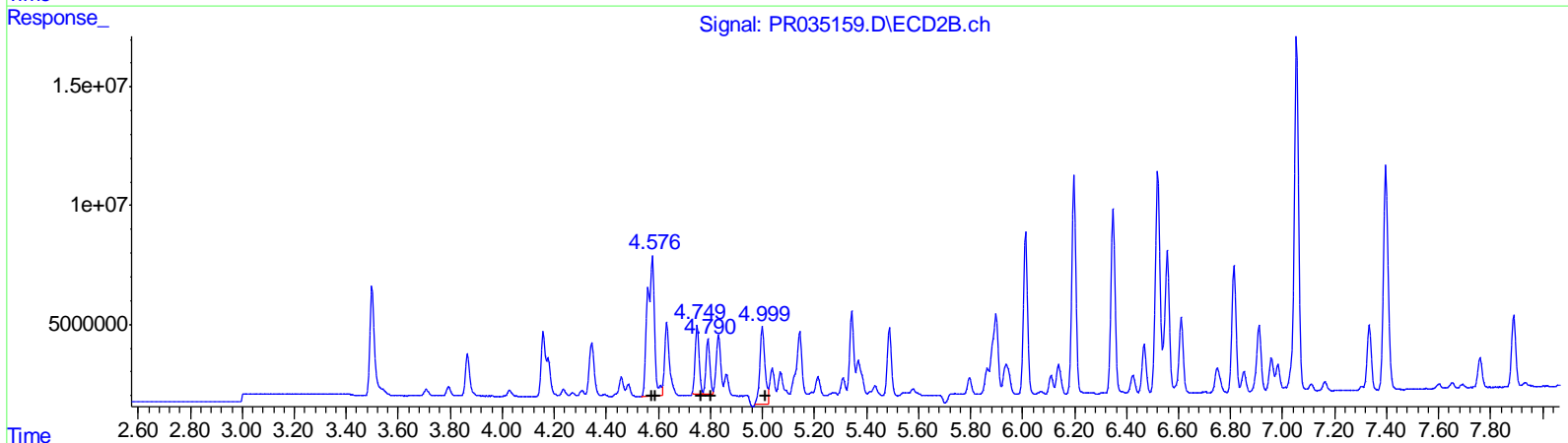
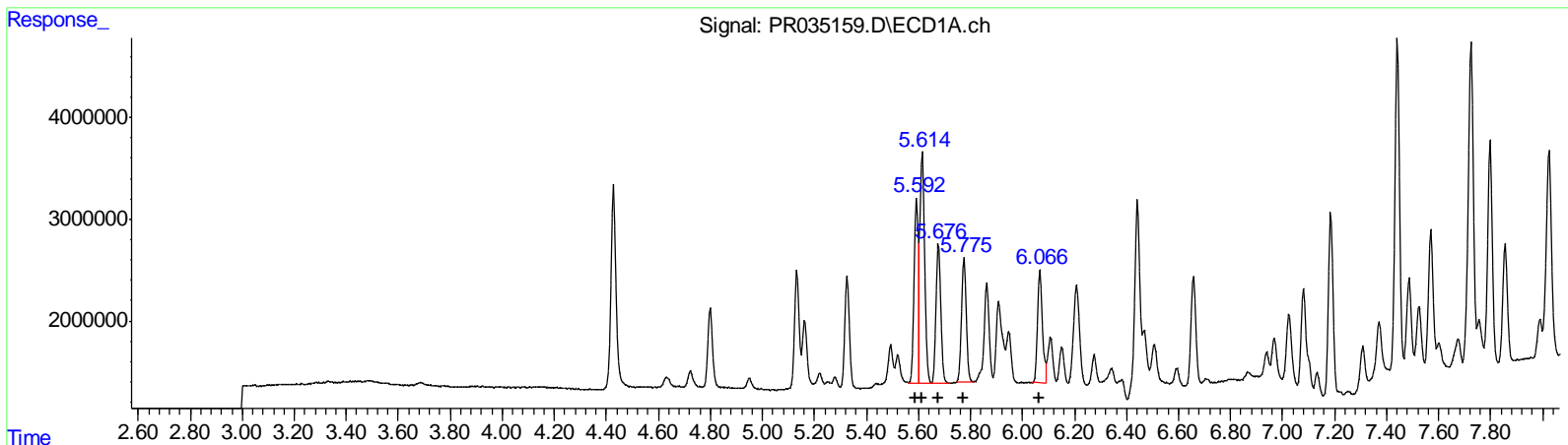
Instrument :
 ECD_R
 ClientSampled :
 AR1660339

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:39 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(3) AR-1016-1 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 20390349 | 302.06 |
| 5.61 | 28965122 | 292.50 |
| 5.68 | 17560532 | 298.37 |
| 5.77 | 15467864 | 326.07 |
| 6.07 | 14662666 | 307.86 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|-----------|--------|
| 4.58 | 110027688 | 845.56 |
| 4.58 | 110027688 | 556.68 |
| 4.75 | 30465064 | 316.96 |
| 4.79 | 24321242 | 321.93 |
| 5.00 | 43606855 | 424.08 |

(+) = Expected Retention Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

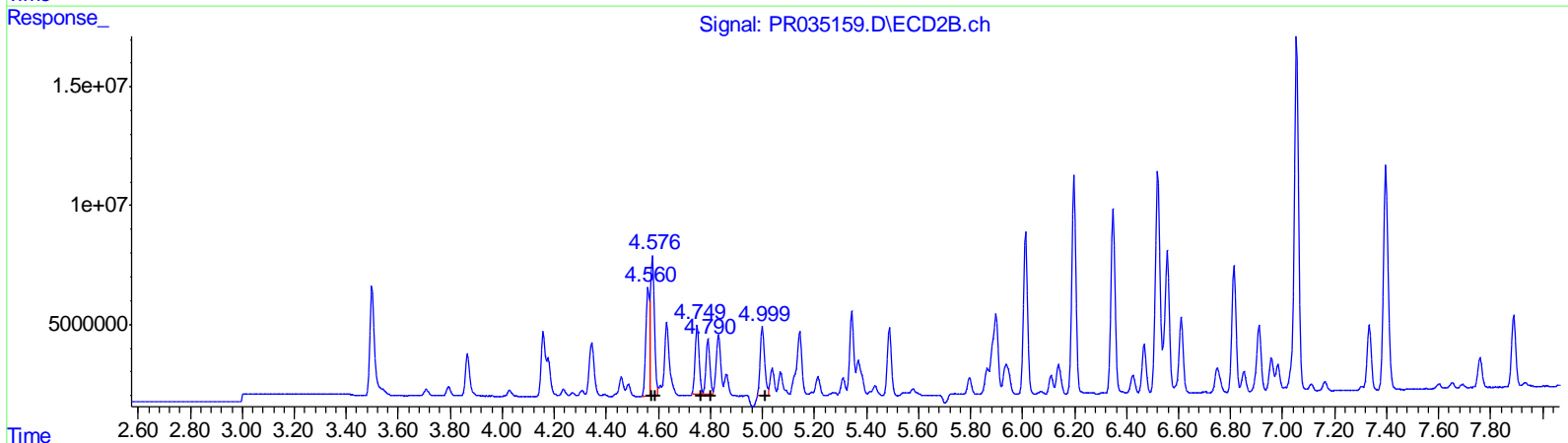
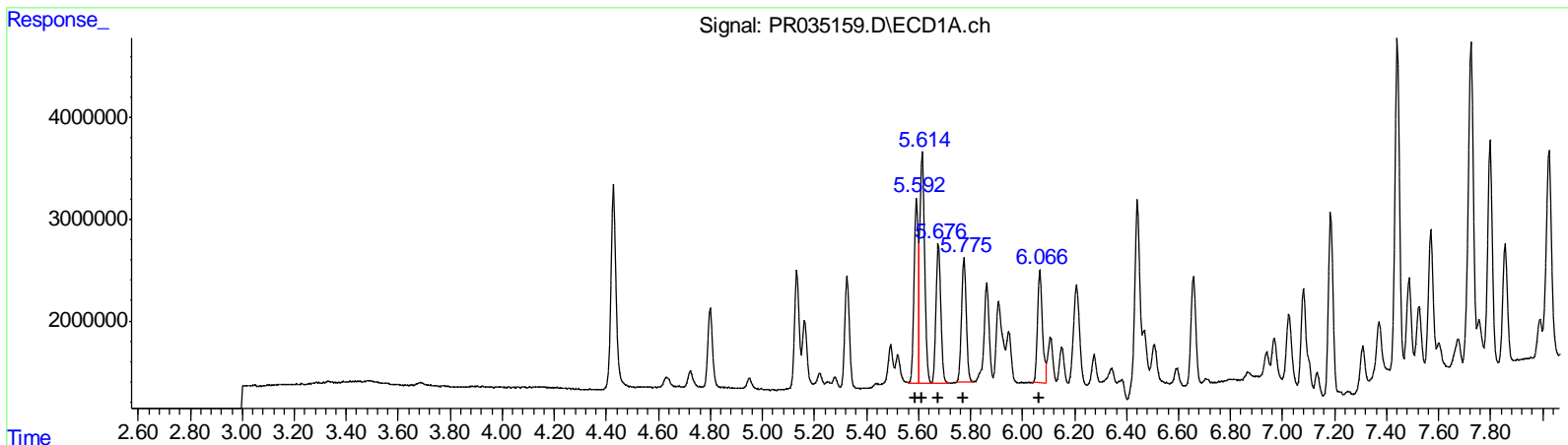
Instrument :
 ECD_R
 ClientSampled :
 AR1660339

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:39 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (3) AR-1016-1 (L1) | | | |
|-----------------------|----------|--------|--|
| R.T. | Response | Conc | |
| 5.59 | 20390349 | 302.06 | |
| 5.61 | 28965122 | 292.50 | |
| 5.68 | 17560532 | 298.37 | |
| 5.77 | 15467864 | 326.07 | |
| 6.07 | 14662666 | 307.86 | |
| (3) AR-1016-1 #2 (L1) | | | |
| R.T. | Response | Conc | |
| 4.56 | 44654234 | 343.17 | |
| 4.58 | 61046649 | 308.86 | |
| 4.75 | 30465064 | 316.96 | |
| 4.79 | 24321242 | 321.93 | |
| 5.00 | 33226487 | 323.13 | |

(+) = Expected Retention Time

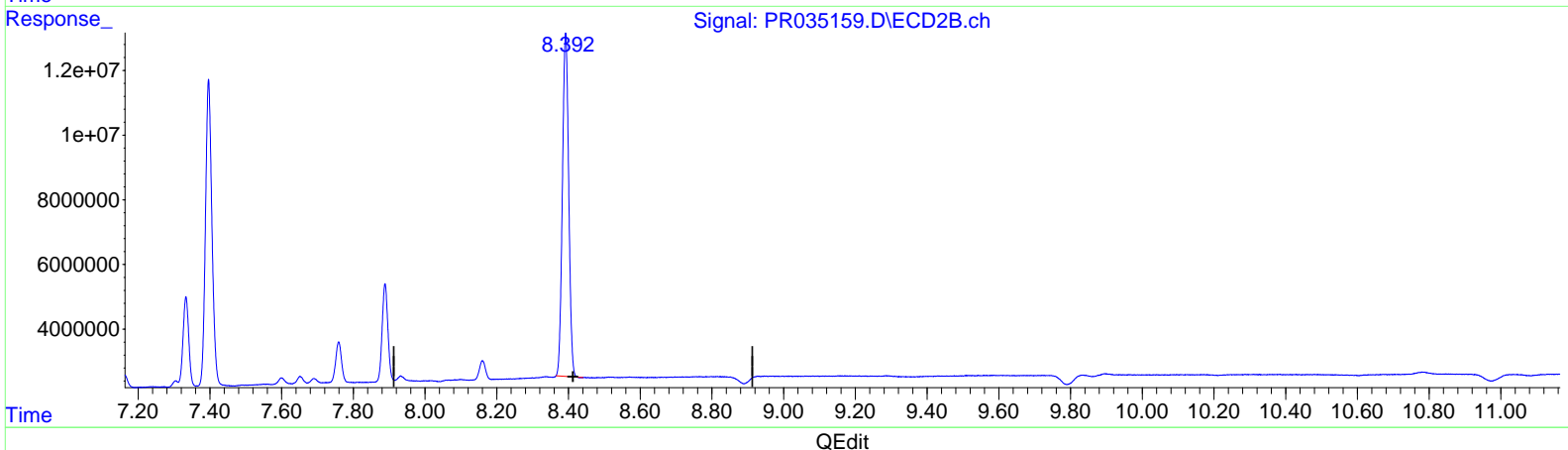
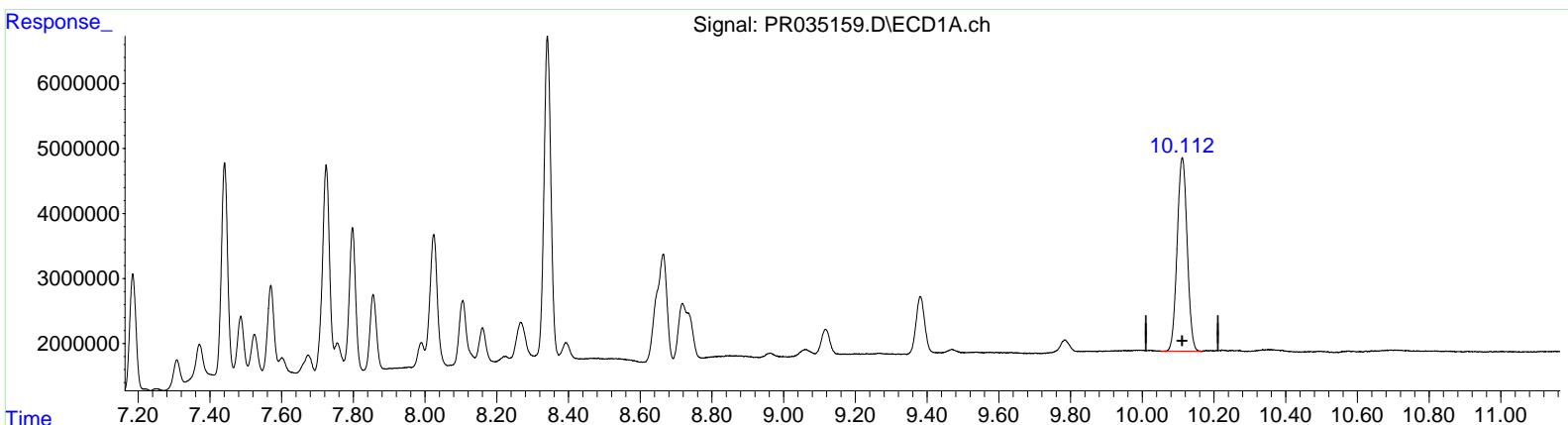
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1660339

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:39 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.112min 29.316 ng/ml
 response 57632521

(2) Decachlorobiphenyl #2 (SA)
 8.392min 29.538 ng/ml
 response 129867329

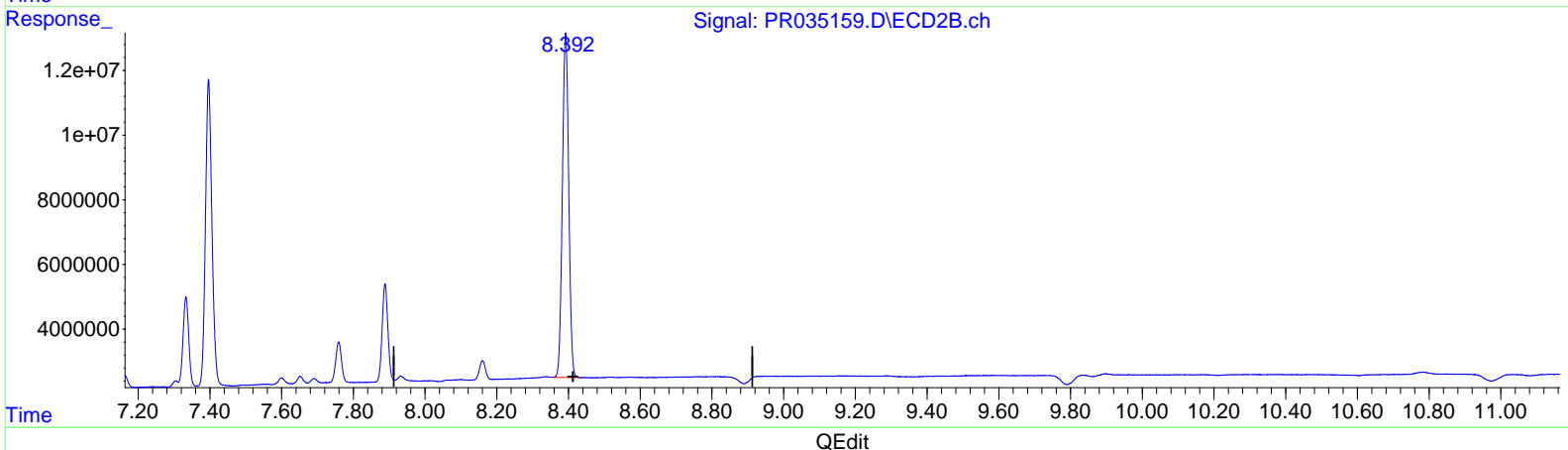
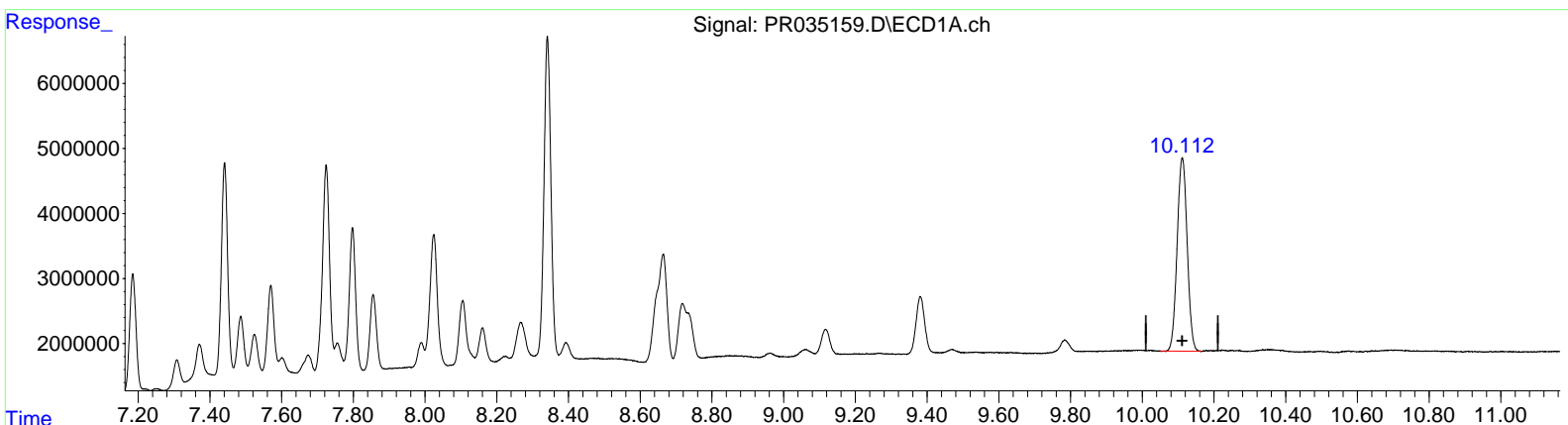
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1660339

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:39 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.112min 29.316 ng/ml
 response 57632521

(2) Decachlorobiphenyl #2 (SA)
 8.392min 29.809 ng/ml m
 response 131059321

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035159.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:34
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 141 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660339

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:39:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED

mohammad
 12/31/2018 11:11:39 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.498 | 26516885 | 54552867 | 13.633m | 15.649m |
| 2) SA Decachlor... | 10.112 | 8.392 | 57632521 | 131.1E6 | 29.316 | 29.809m |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.592 | 4.560 | 20390349 | 44654234 | 302.065 | 343.166m |
| 4) L1 AR-1016-2 | 5.615 | 4.576 | 28965122 | 61046649 | 292.497 | 308.862m |
| 5) L1 AR-1016-3 | 5.677 | 4.749 | 17560532 | 30465064 | 298.366 | 316.962 |
| 6) L1 AR-1016-4 | 5.775 | 4.791 | 15467864 | 24321242 | 326.072 | 321.927 |
| 7) L1 AR-1016-5 | 6.067 | 4.999 | 14662666 | 33226487 | 307.861 | 323.134m |
| 31) L7 AR-1260-1 | 7.185 | 6.012 | 21742394 | 73481517 | 231.282 | 341.819 # |
| 32) L7 AR-1260-2 | 7.441 | 6.198 | 44623733 | 102.3E6 | 384.352 | 376.057 |
| 33) L7 AR-1260-3 | 7.725 | 6.348 | 46023294 | 85086382 | 329.783 | 342.764 |
| 34) L7 AR-1260-4 | 8.024 | 6.813 | 29732388 | 60398087 | 344.270 | 353.225 |
| 35) L7 AR-1260-5 | 8.341 | 7.054 | 65684967 | 174.6E6 | 363.797 | 360.932 |
| ----- | | | | | | |

SS
 12/31/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ABLK40

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115740BL
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035074.D
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

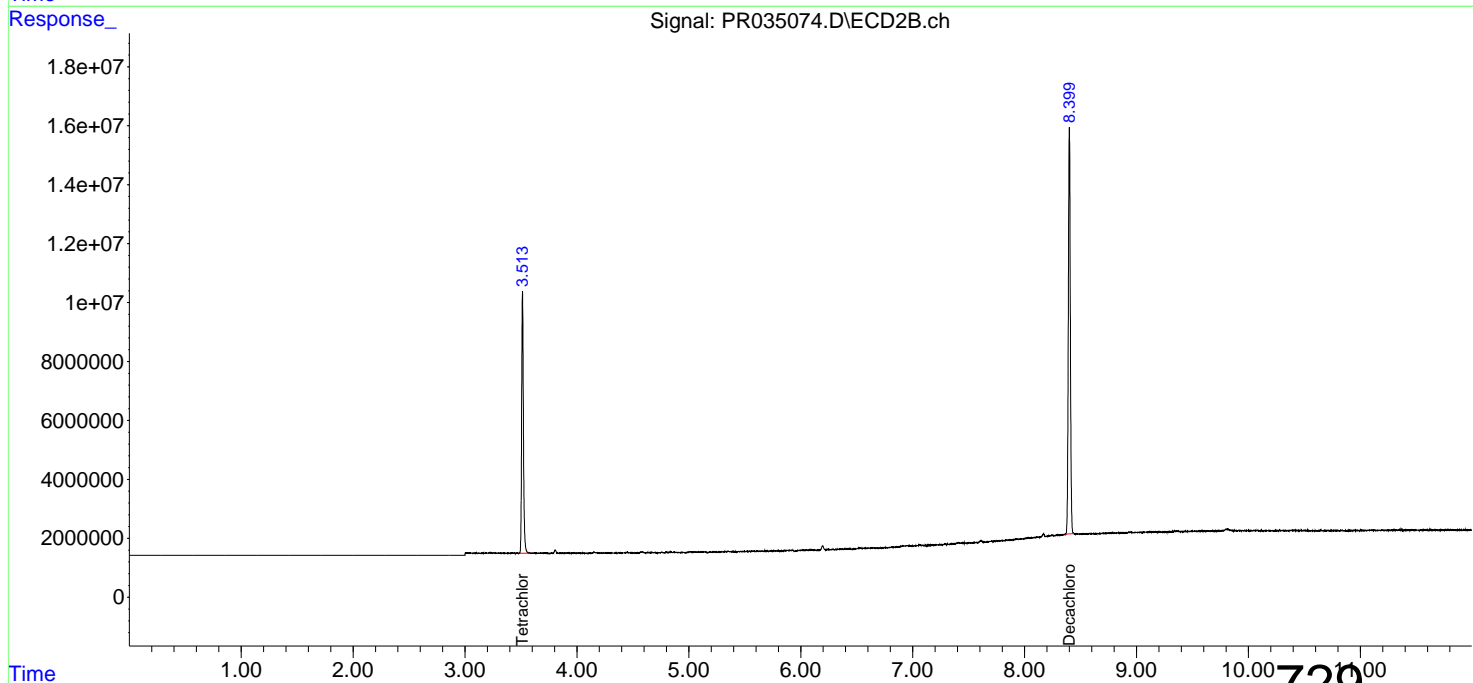
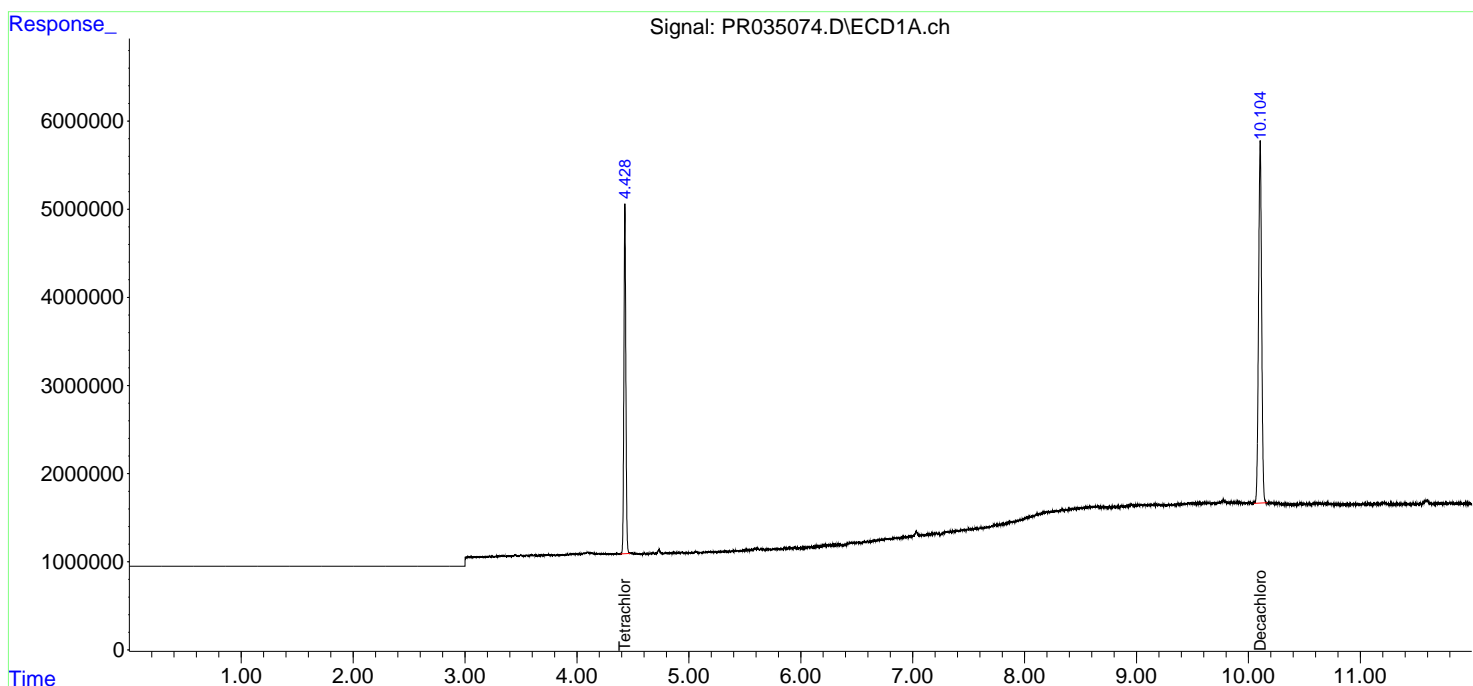
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035074.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:17
 Operator : SM\SJ
 Sample : PB115740BL
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 ABLK40

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:09:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035074.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 10:17
 Operator : SM\SJ
 Sample : PB115740BL
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 ABLK40

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:09:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 48422774 | 97499920 | 24.896 | 27.969 |
| 2) SA Decachlor... | 10.105 | 8.400 | 78640354 | 172.8E6 | 40.002 | 39.301 |

Target Compounds

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

FORM 1A-OR
 ORGANIC ANALYSIS DATA SHEET
 TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK83(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK83
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034731.D
 % Solids : _____ Date Received : 12/17/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/17/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK83(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK83
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034731.D-2
 % Solids : _____ Date Received : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/17/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

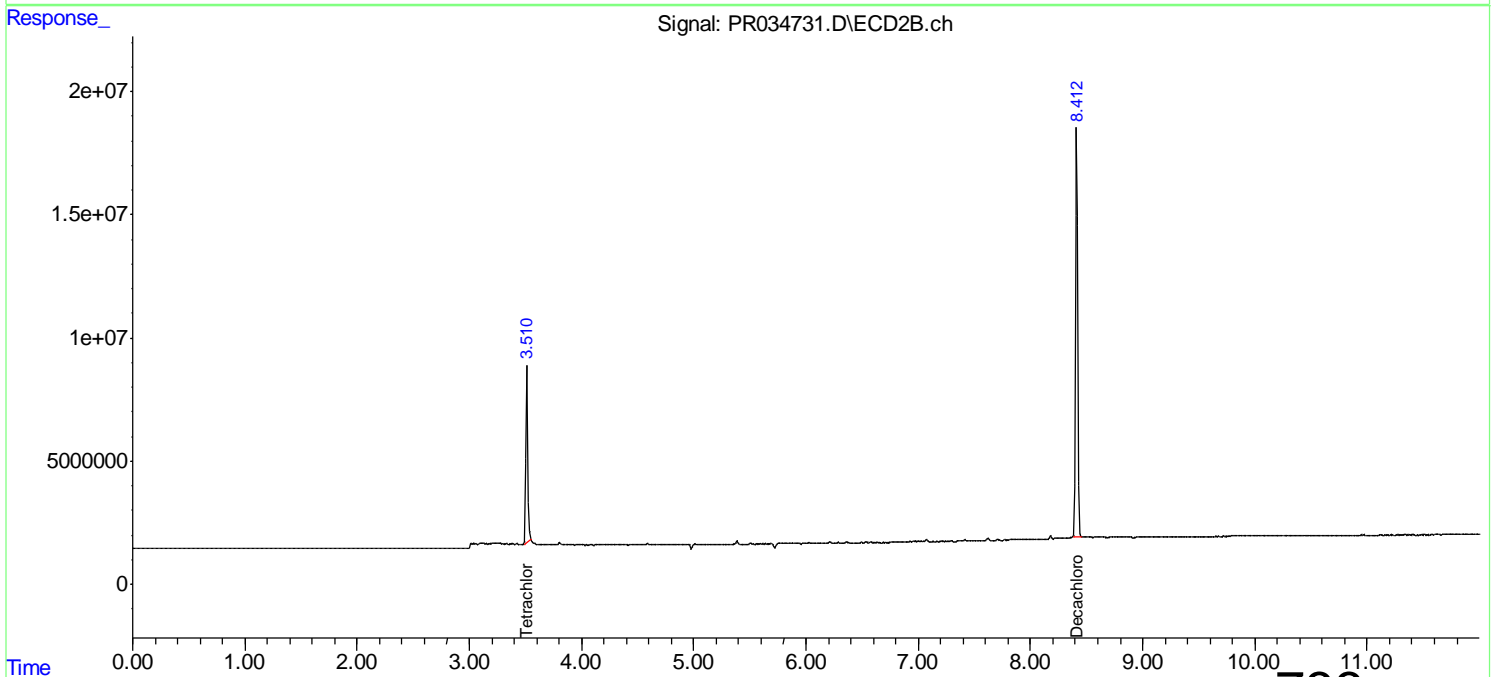
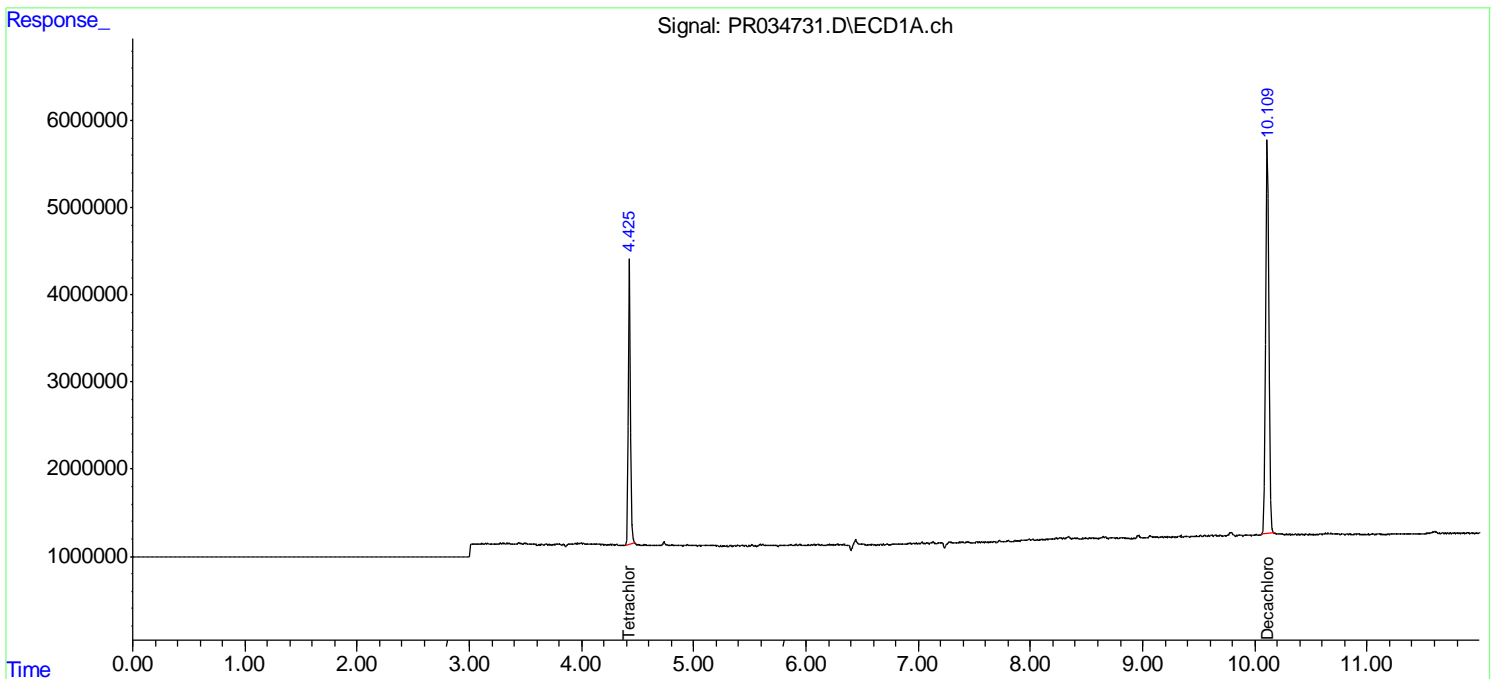
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034731.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:58
 Operator : SM\SJ
 Sample : AIBLK83
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK83

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:58:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034731.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:58
 Operator : SM\SJ
 Sample : AIBLK83
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK83

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:58:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 42385691 | 82319143 | 21.792 | 23.614 |
| 2) SA Decachlor... | 10.110 | 8.413 | 90054463 | 209.8E6 | 45.808 | 47.708 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK51(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK51
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035050.D
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK51(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK51
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035050.D-2
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

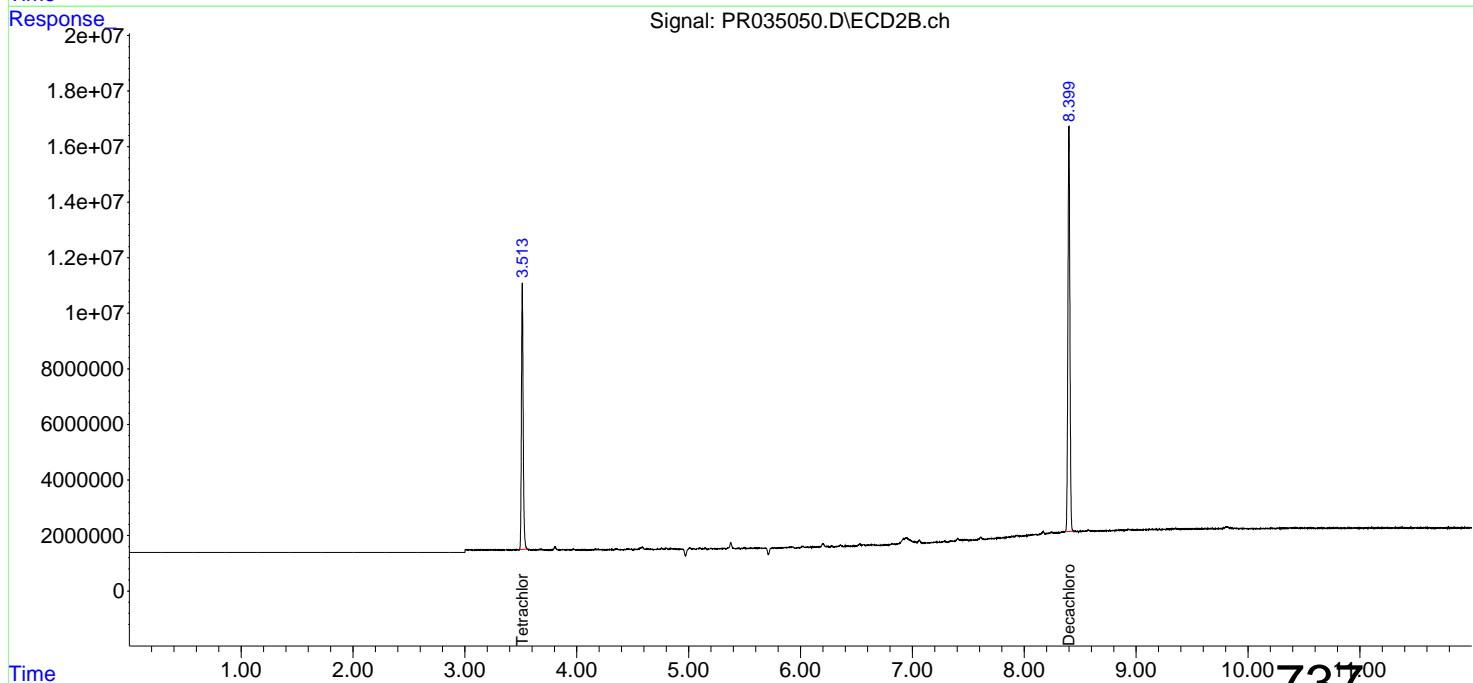
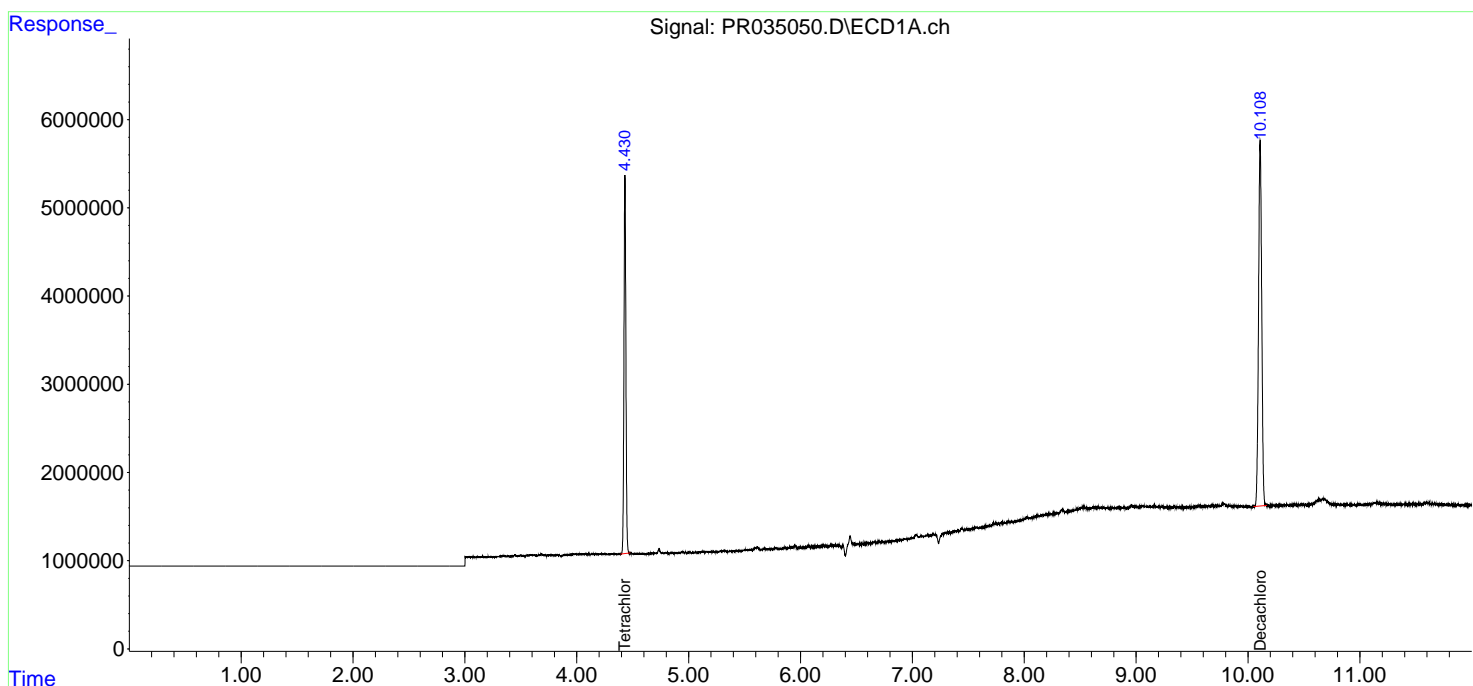
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035050.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 02:43
 Operator : SM\SJ
 Sample : AIBLK51
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AIBLK51

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:26 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035050.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 02:43
 Operator : SM\SJ
 Sample : AIBLK51
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK51

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:26 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|--------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.430 | 3.513 | 51699395 | 104.5E6 | 26.580 | 29.971m |
| 2) SA Decachlor... | 10.108 | 8.400 | 81674423 | 179.1E6 | 41.545 | 40.730 |

Target Compounds

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

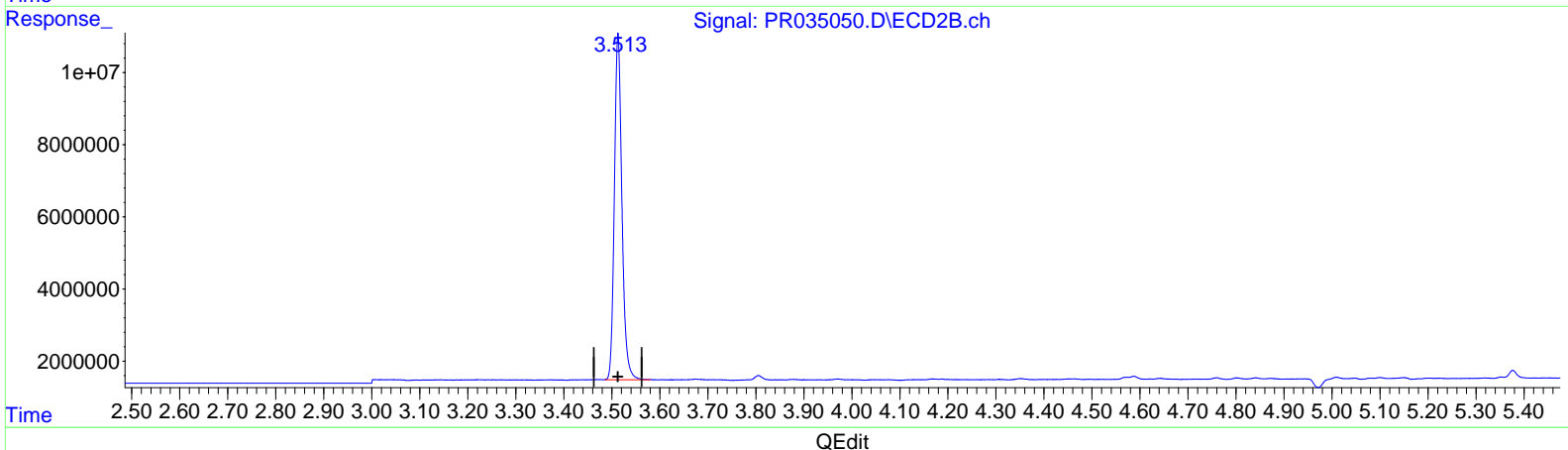
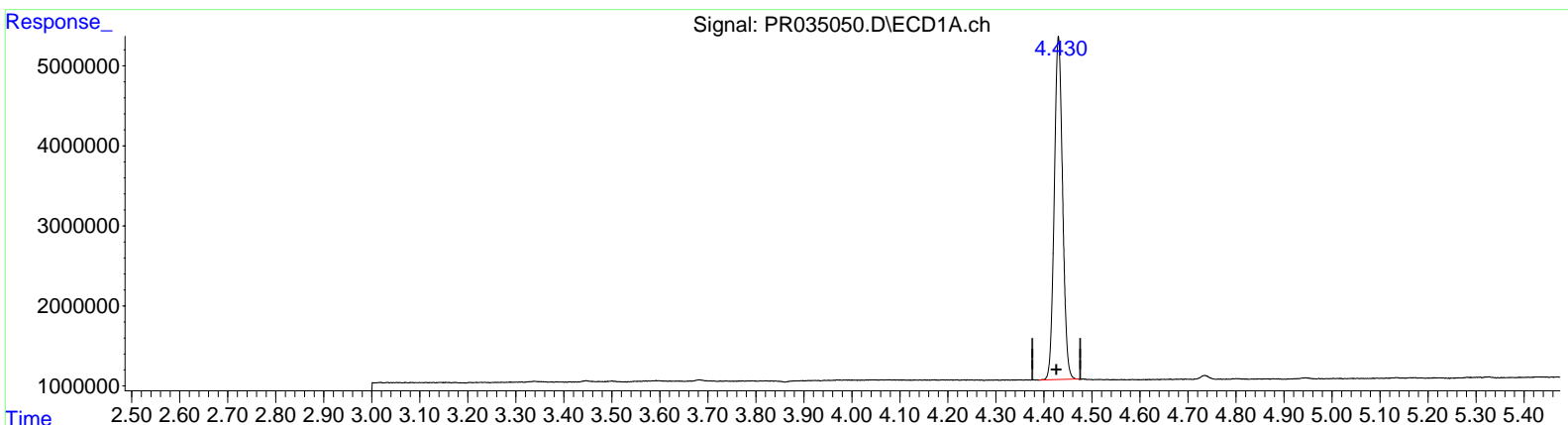
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035050.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 02:43
 Operator : SM\SJ
 Sample : AIBLK51
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK51

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:26 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.430min 26.580 ng/ml
 response 51699395

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 30.189 ng/ml
 response 105240512

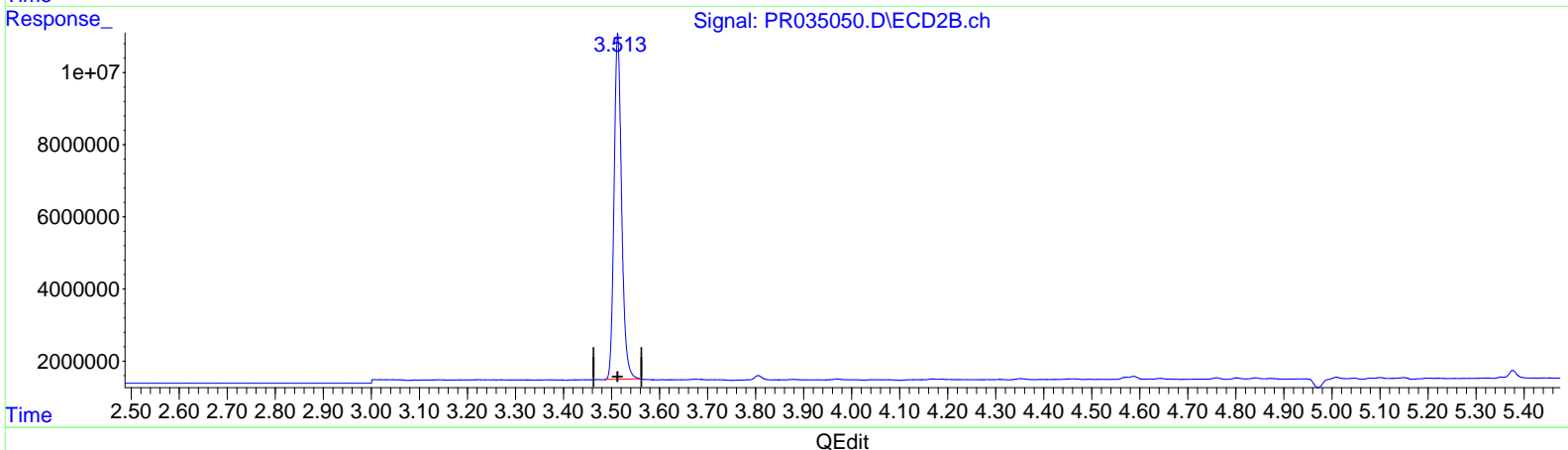
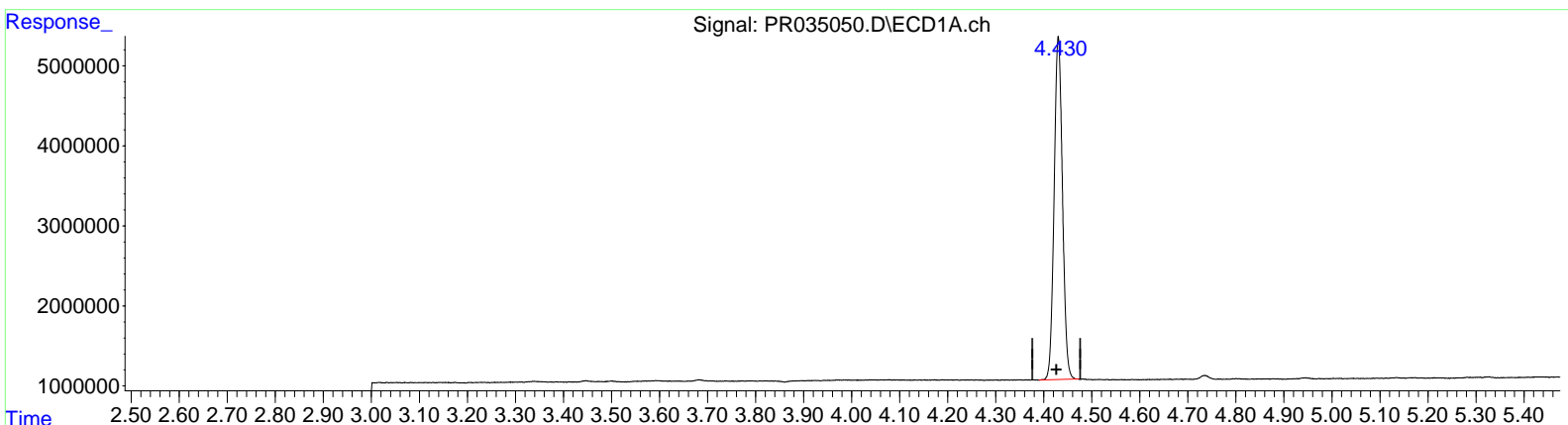
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035050.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 02:43
 Operator : SM\SJ
 Sample : AIBLK51
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK51

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:26 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.430min 26.580 ng/ml
 response 51699395

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 29.971 ng/ml m
 response 104481163

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035050.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 02:43
 Operator : SM\SJ
 Sample : AIBLK51
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AIBLK51

Manual Integrations
APPROVED

Sohil
 12/29/2018 12:17:26 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:00:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|--------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.430 | 3.513 | 51699395 | 104.5E6 | 26.580 | 29.971m |
| 2) SA Decachlor... | 10.108 | 8.400 | 81674423 | 179.1E6 | 41.545 | 40.730 |

SJ
12/28/18

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK52(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK52
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035069.D
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK52(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK52
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035069.D-2
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

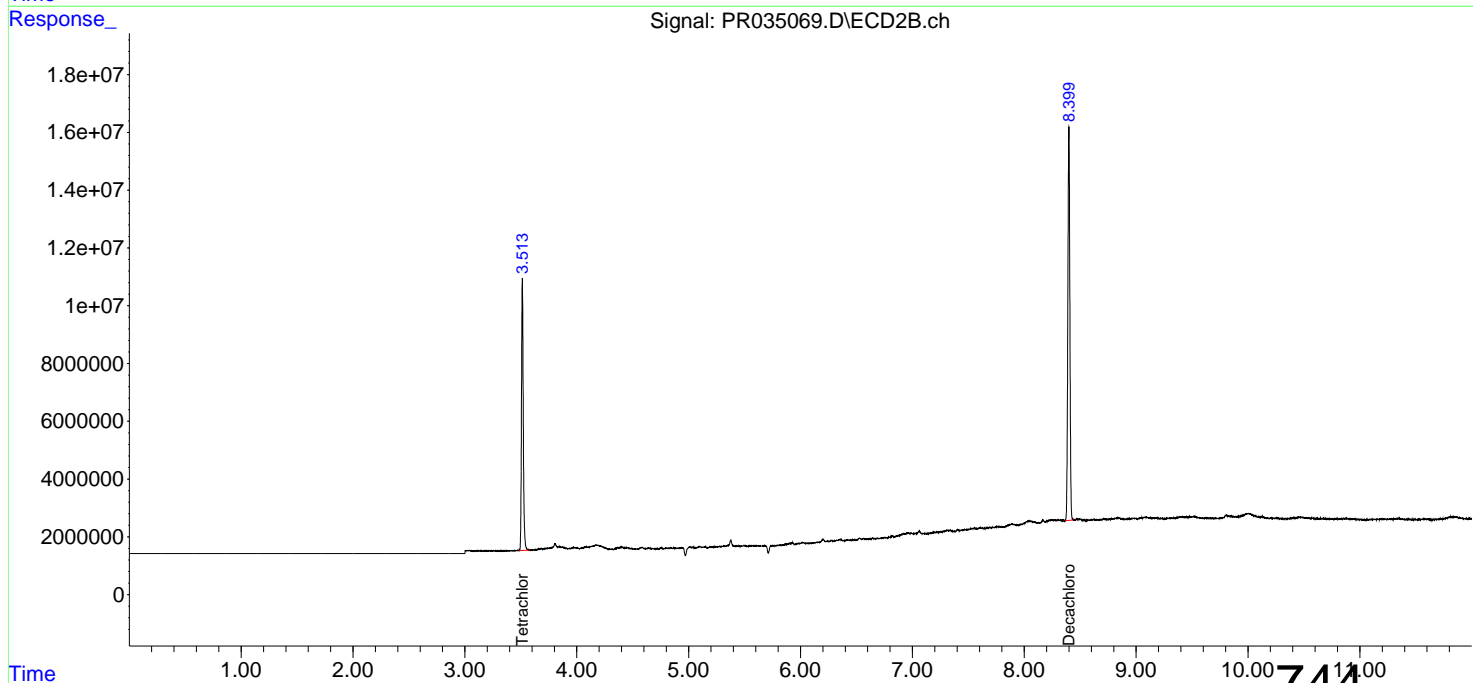
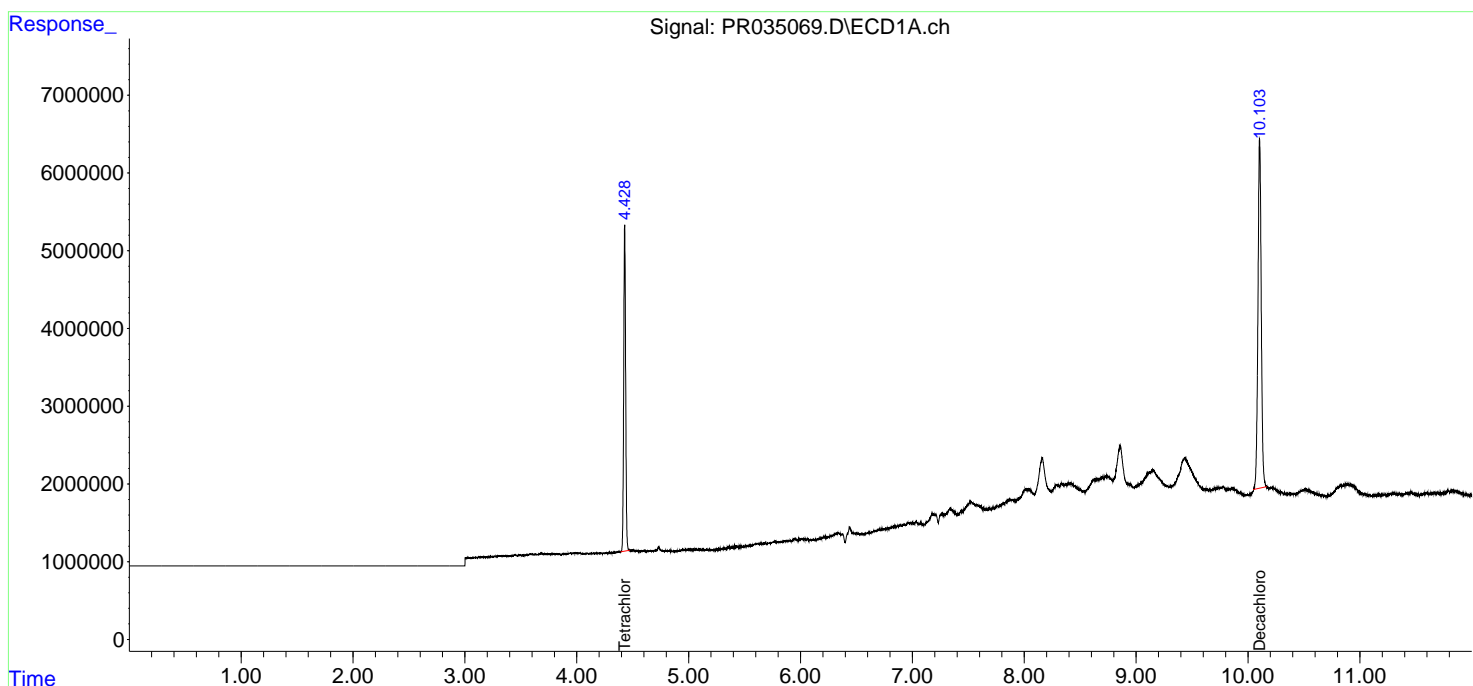
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
Data File : PR035069.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Dec 2018 07:54
Operator : SM\SJ
Sample : AIBLK52
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AIBLK52

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 23:31:52 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035069.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 07:54
 Operator : SM\SJ
 Sample : AIBLK52
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK52

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:31:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 50849044 | 104.4E6 | 26.143 | 29.957 |
| 2) SA Decachlor... | 10.104 | 8.399 | 91637201 | 171.8E6 | 46.613 | 39.064 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK53(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK53
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035094.D
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK53(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK53
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035094.D-2
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

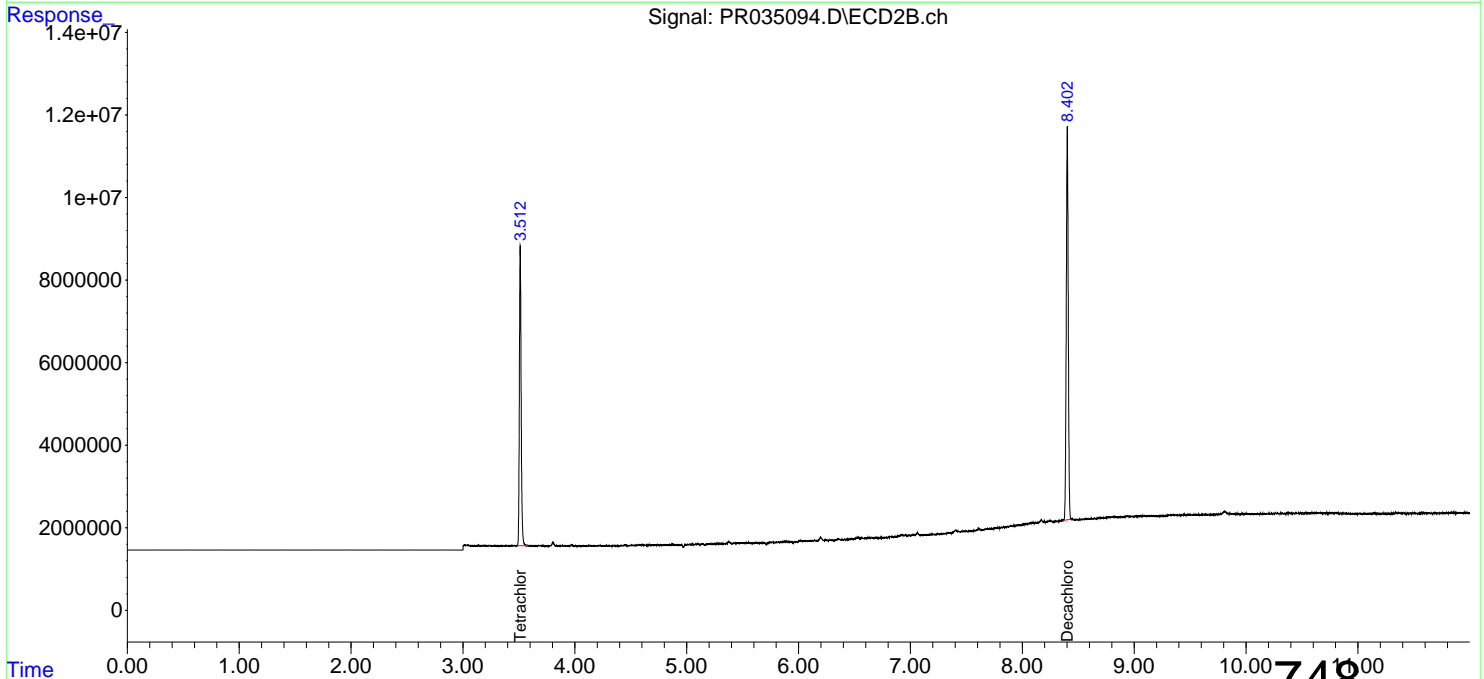
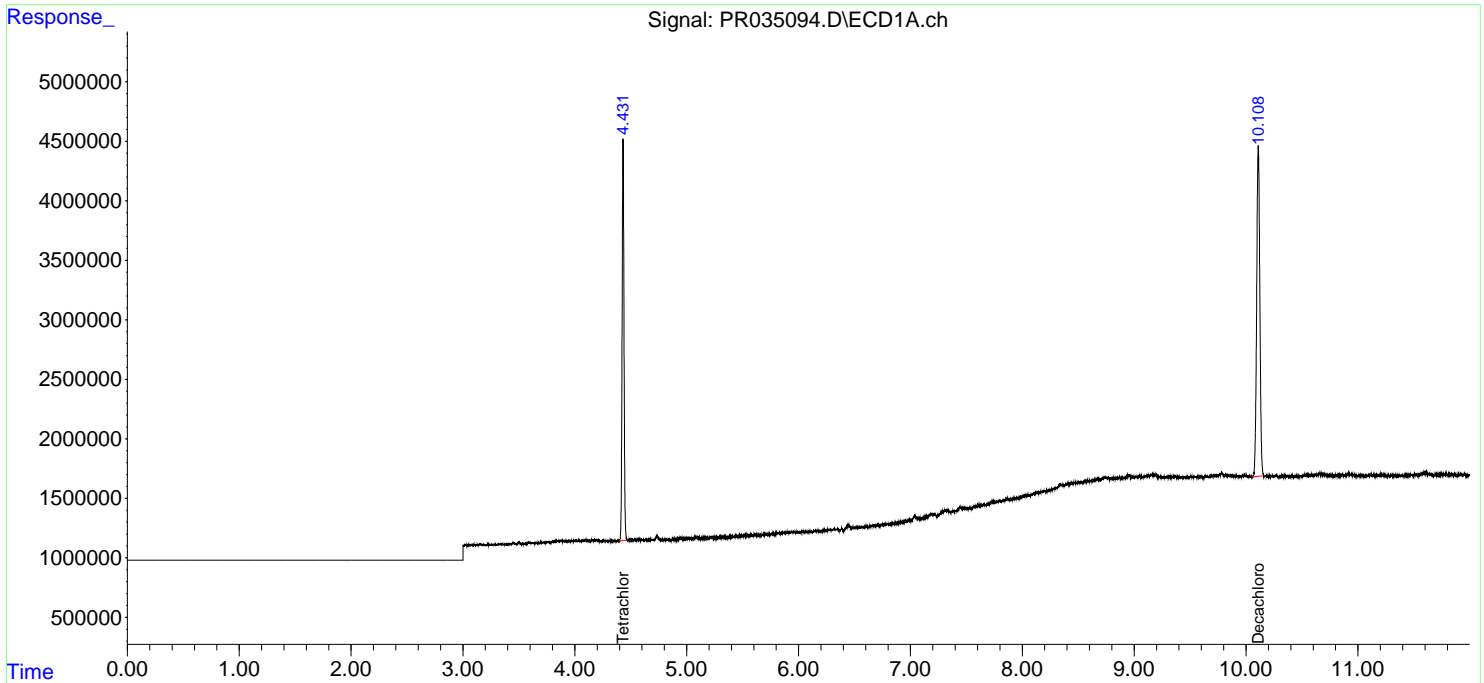
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035094.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 15:22
 Operator : SM\SJ
 Sample : AIBLK53
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AIBLK53

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035094.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 15:22
 Operator : SM\SJ
 Sample : AIBLK53
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK53

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.431 | 3.512 | 39618901 | 80129194 | 20.369 | 22.986 |
| 2) SA Decachlor... | 10.109 | 8.402 | 54409055 | 117.2E6 | 27.676 | 26.666 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK54(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK54
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035124.D
 % Solids : _____ Date Received : 12/29/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK54 (2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK54
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035124.D-2
 % Solids : _____ Date Received : 12/29/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

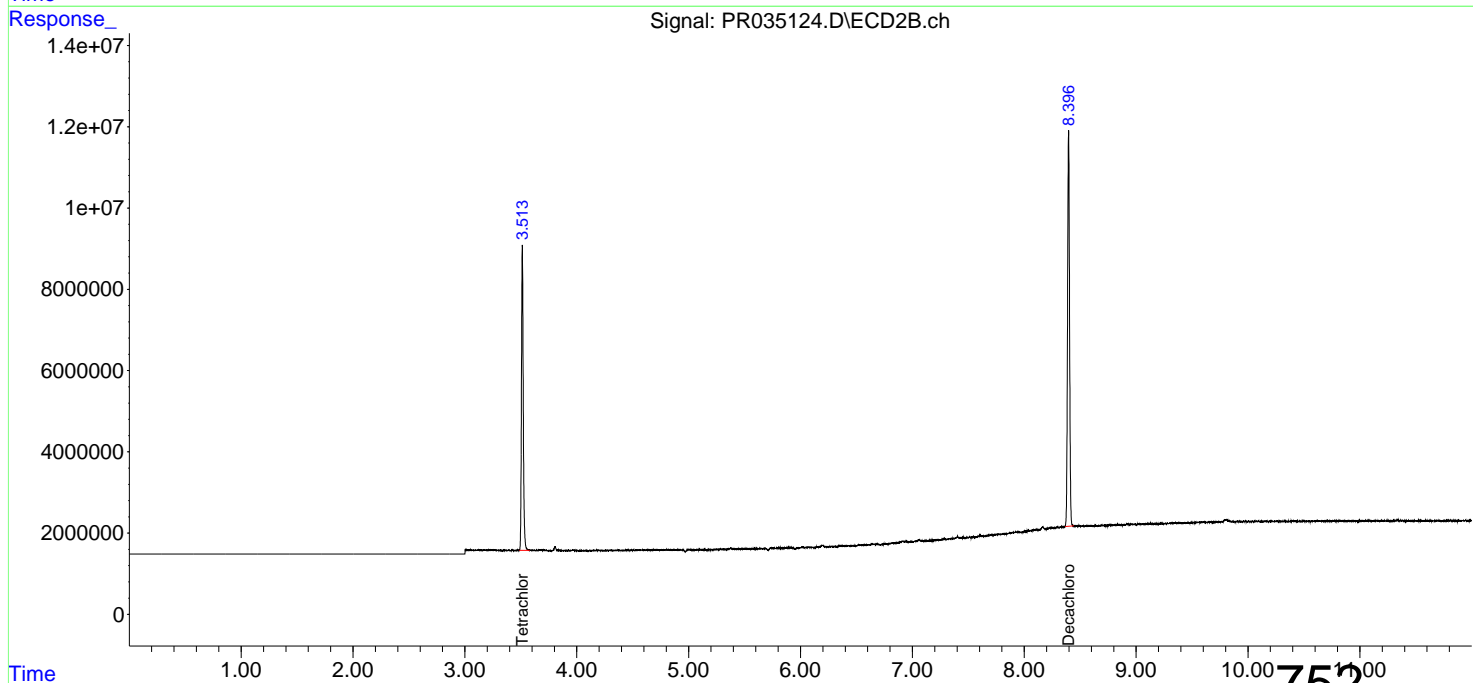
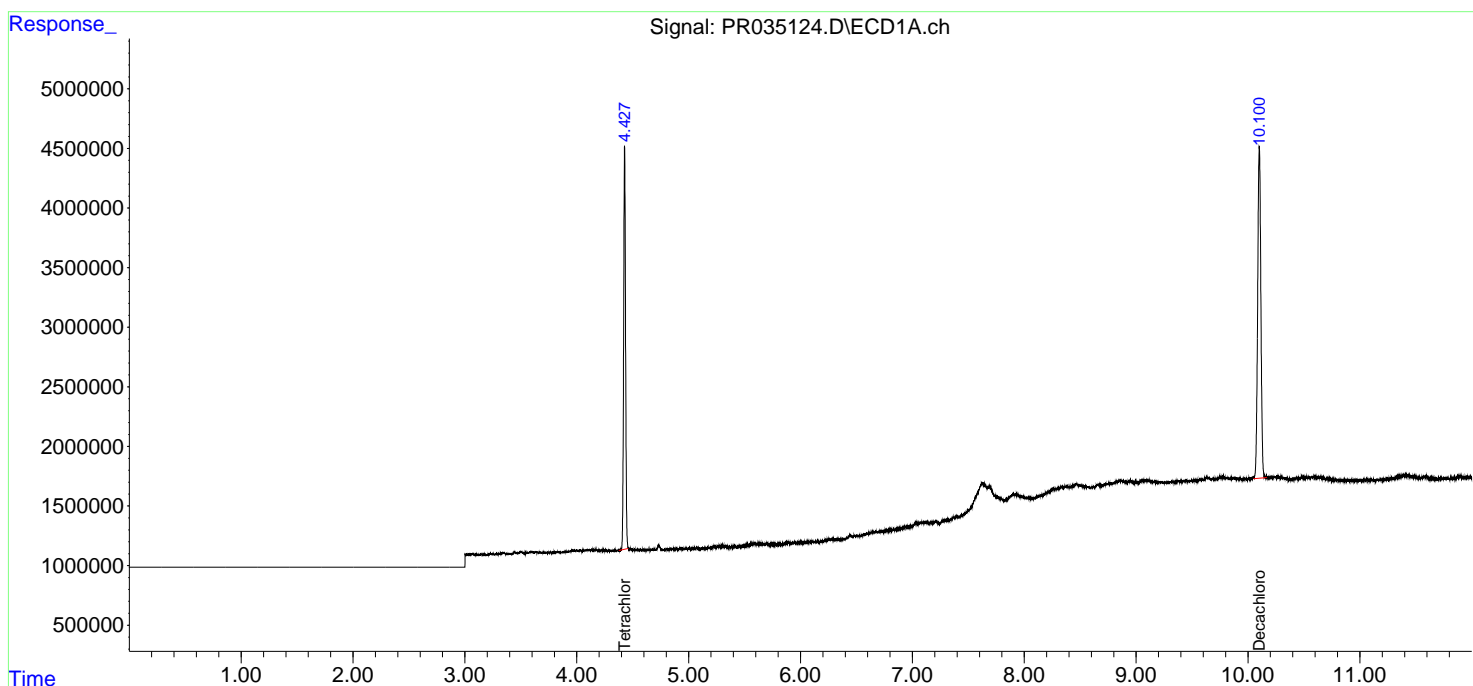
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
Data File : PR035124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Dec 2018 00:09
Operator : SM\SJ
Sample : AIBLK54
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AIBLK54

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 29 03:21:09 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035124.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 00:09
 Operator : SM\SJ
 Sample : AIBLK54
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK54

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:21:09 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 40511207 | 83851959 | 20.828 | 24.054 |
| 2) SA Decachlor... | 10.101 | 8.396 | 54994262 | 119.7E6 | 27.974 | 27.233 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK55(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK55
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035128.D
 % Solids : _____ Date Received : 12/29/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK55(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK55
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035128.D-2
 % Solids : _____ Date Received : 12/29/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

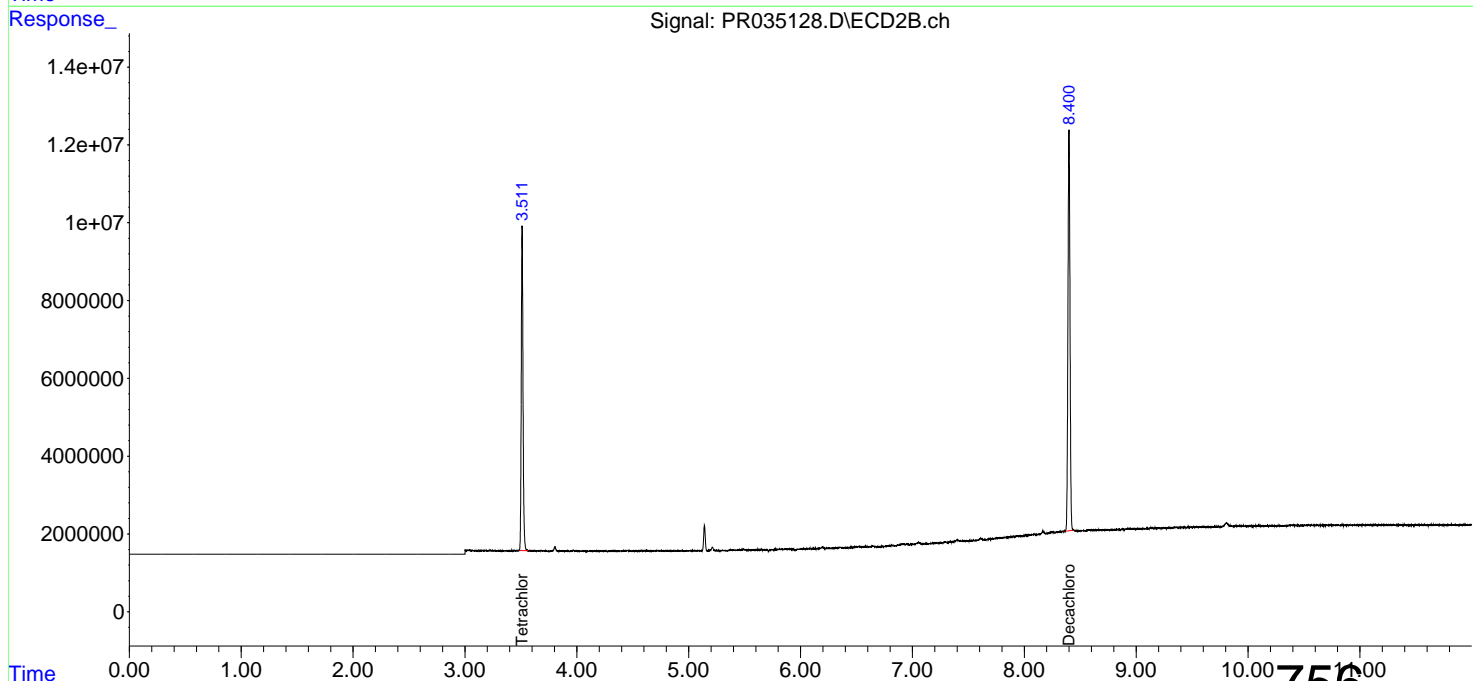
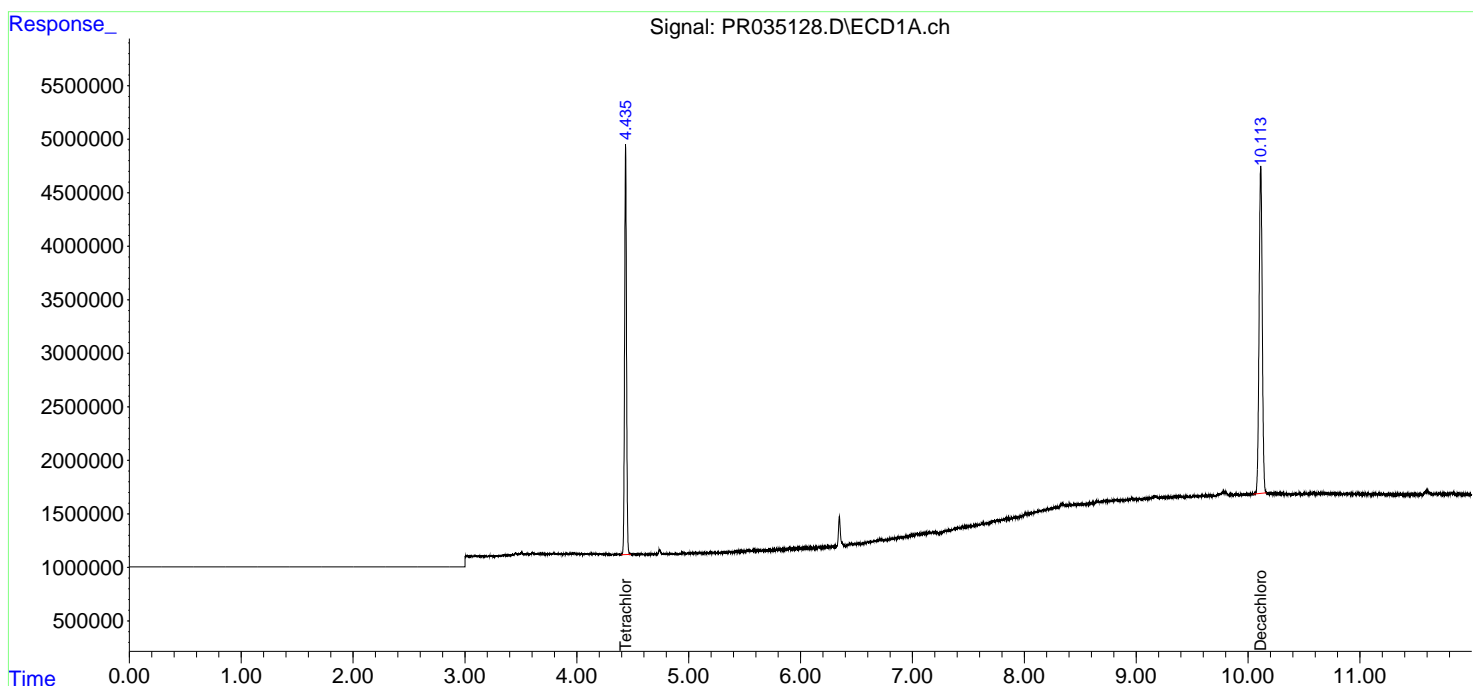
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035128.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:11
 Operator : SM\SJ
 Sample : AIBLK55
 Misc :
 ALS Vial : 139 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK55

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:10:44 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:49:59 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035128.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:11
 Operator : SM\SJ
 Sample : AIBLK55
 Misc :
 ALS Vial : 139 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AIBLK55

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:10:44 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:49:59 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.435 | 3.511 | 45358522 | 90831524 | 23.320m | 26.056 |
| 2) SA Decachlor... | 10.113 | 8.400 | 59820642 | 130.9E6 | 30.429 | 29.779 |

Target Compounds

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

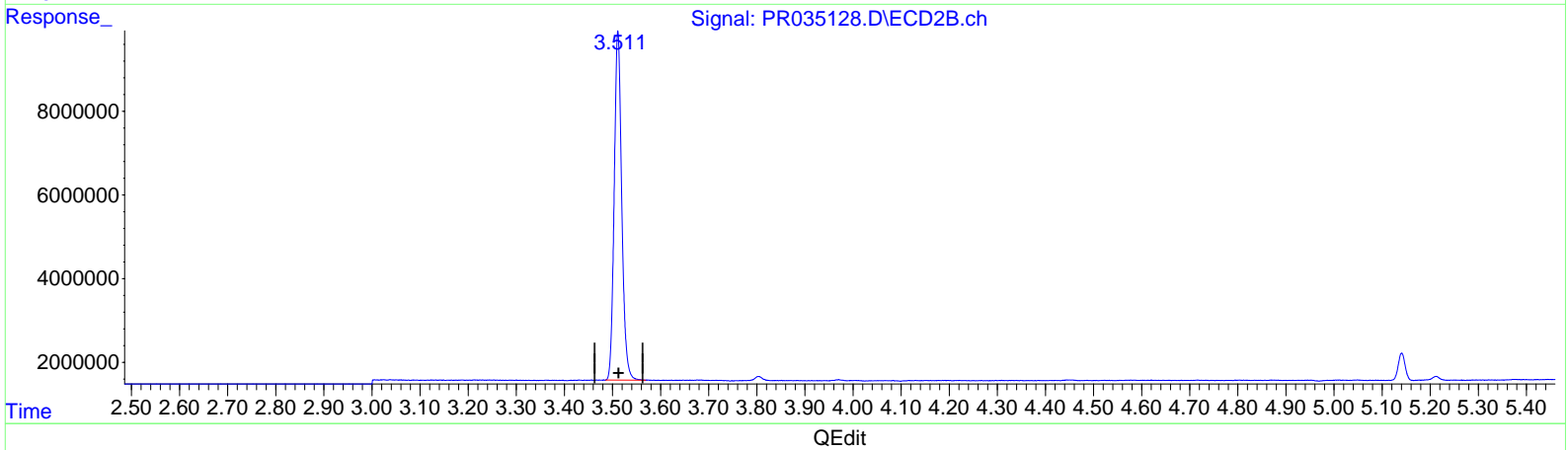
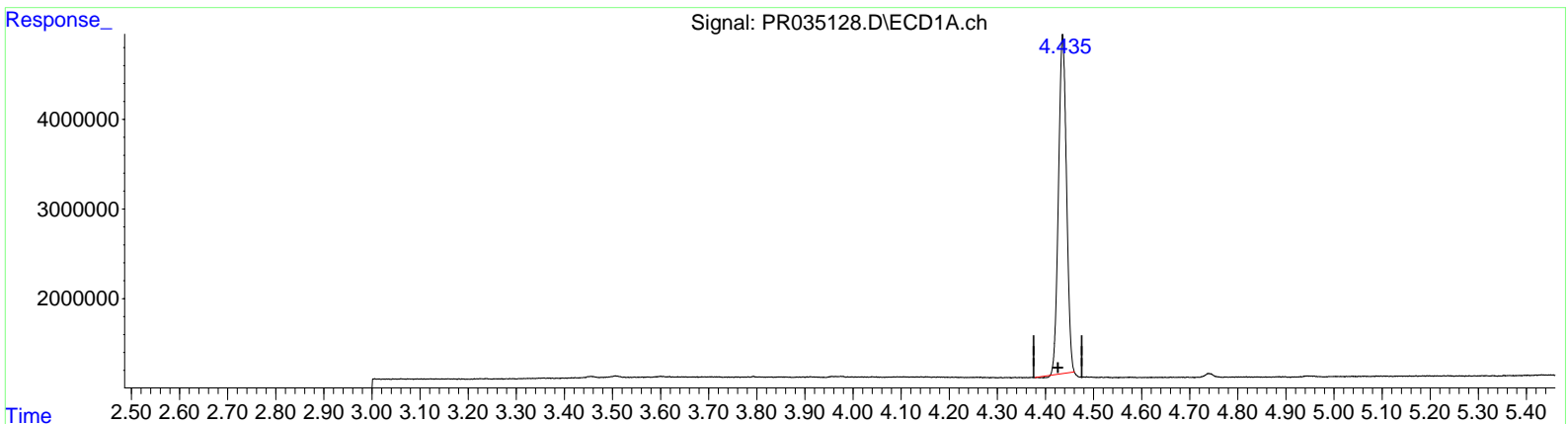
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035128.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:11
 Operator : SM\SJ
 Sample : AIBLK55
 Misc :
 ALS Vial : 139 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AIBLK55

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:10:44 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:49:59 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.436min 22.467 ng/ml

response 43699885

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 26.056 ng/ml

response 90831524

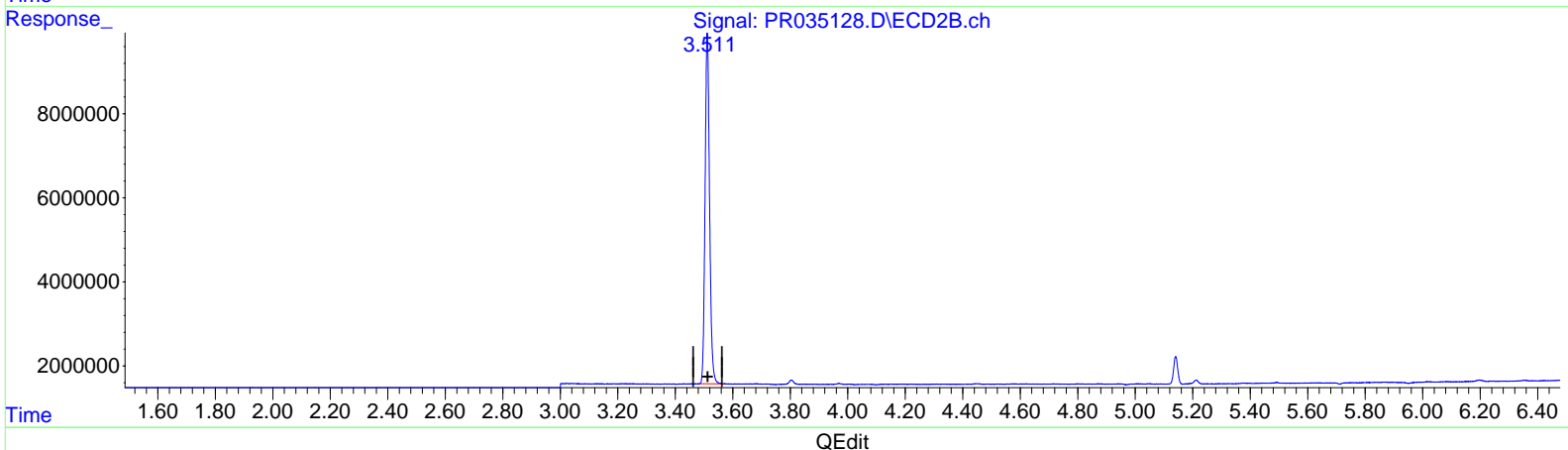
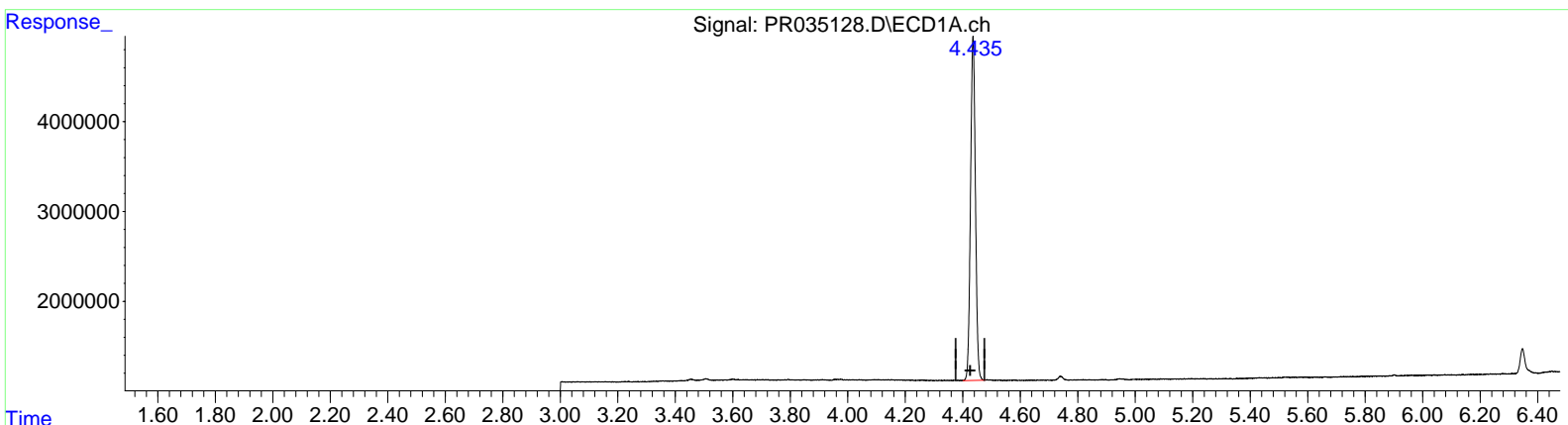
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035128.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:11
 Operator : SM\SJ
 Sample : AIBLK55
 Misc :
 ALS Vial : 139 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AIBLK55

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:10:44 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:49:59 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.435min 23.320 ng/ml m
 response 45358522

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 26.056 ng/ml
 response 90831524

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035128.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 01:11
 Operator : SM\SJ
 Sample : AIBLK55
 Misc :
 ALS Vial : 139 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AIBLK55

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 05:49:59 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

mohammad
 12/31/2018 11:10:44 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.435 | 3.511 | 45358522 | 90831524 | 23.320m | 26.056 |
| 2) SA Decachlor... | 10.113 | 8.400 | 59820642 | 130.9E6 | 30.429 | 29.779 |

> SJ
 12/31/18

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK56(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK56
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035158.D
 % Solids : _____ Date Received : 12/29/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK56(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK56
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035158.D-2
 % Solids : _____ Date Received : 12/29/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

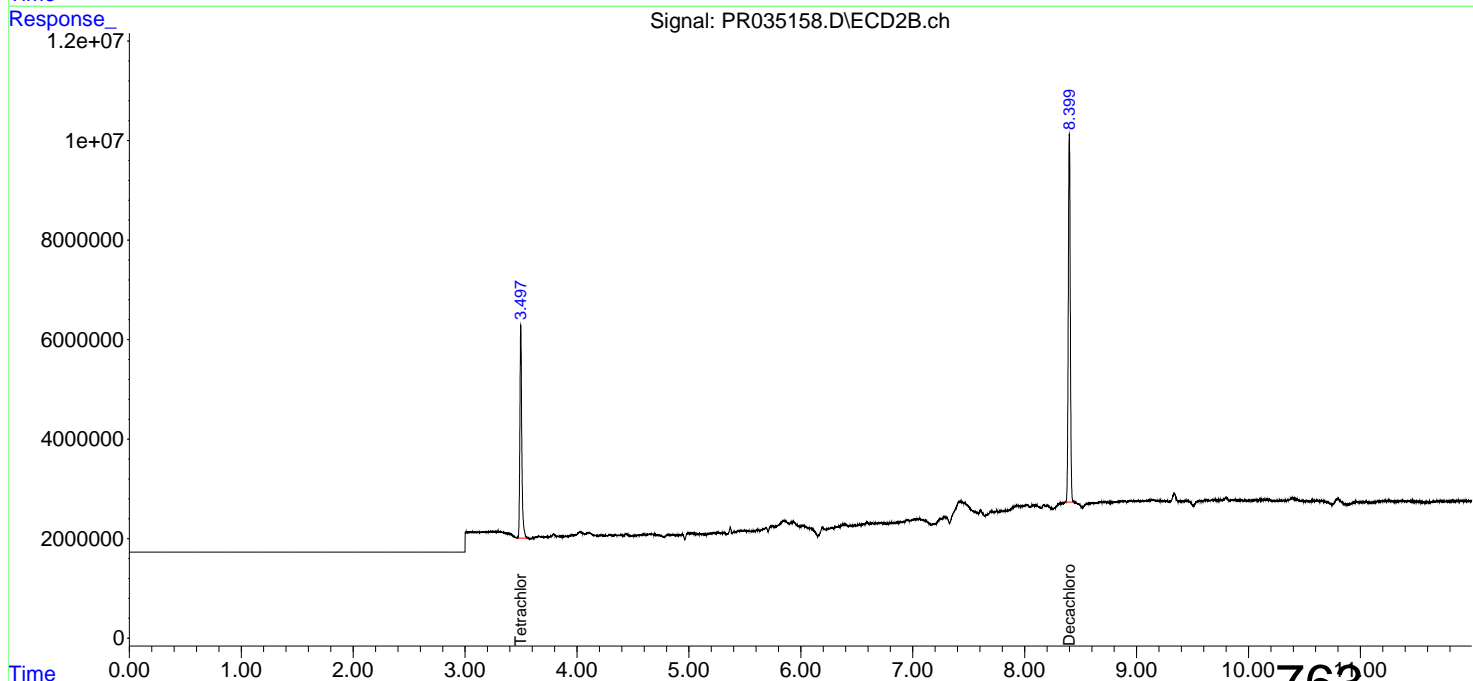
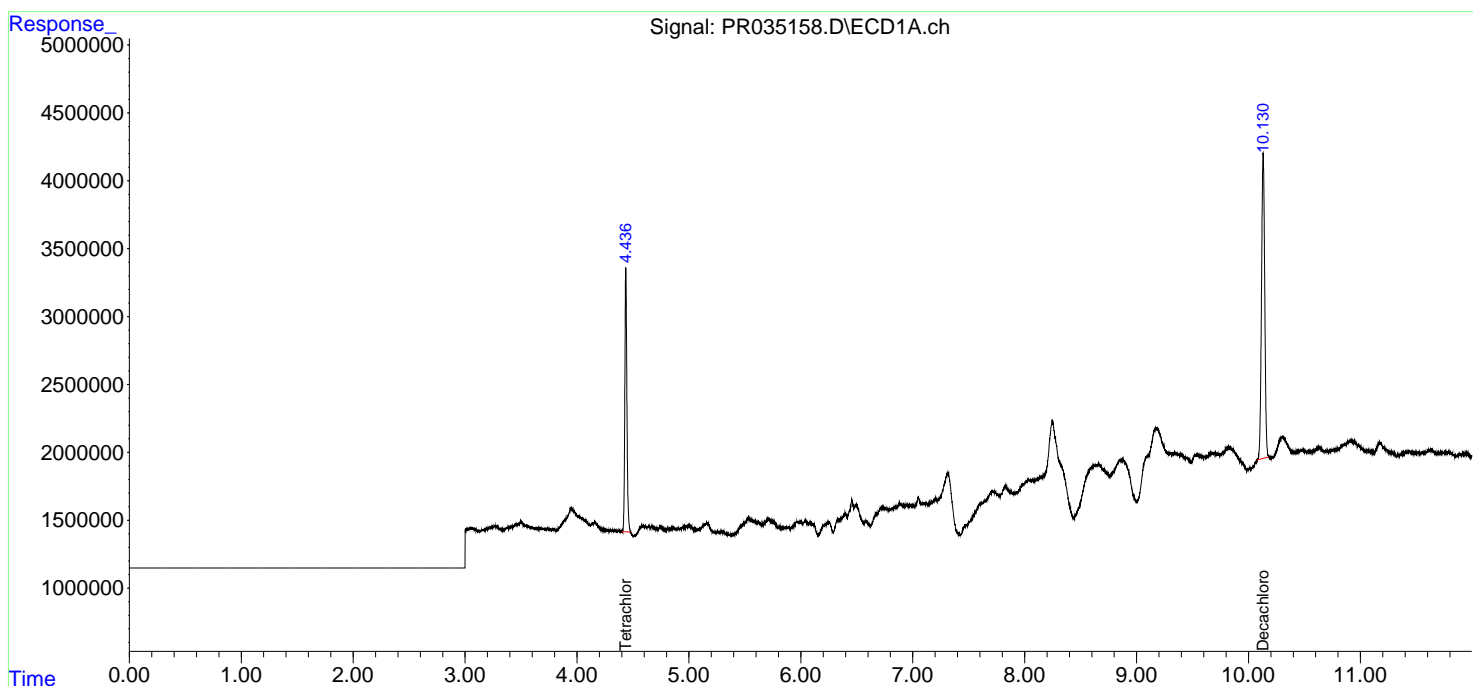
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:19
 Operator : SM\SJ
 Sample : AIBLK56
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK56

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:35 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:19
 Operator : SM\SJ
 Sample : AIBLK56
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AIBLK56

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:35 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.436 | 3.497 | 24872770 | 50641466 | 12.788m | 14.527m |
| 2) SA Decachlor... | 10.130 | 8.399 | 44802303 | 92587400 | 22.789m | 21.059 |

Target Compounds

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

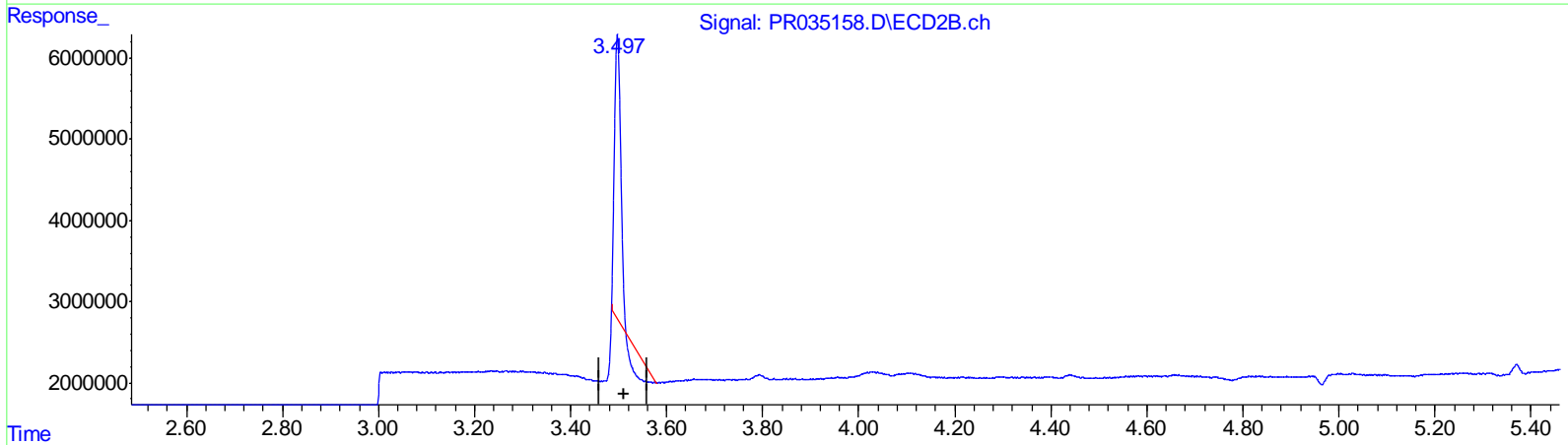
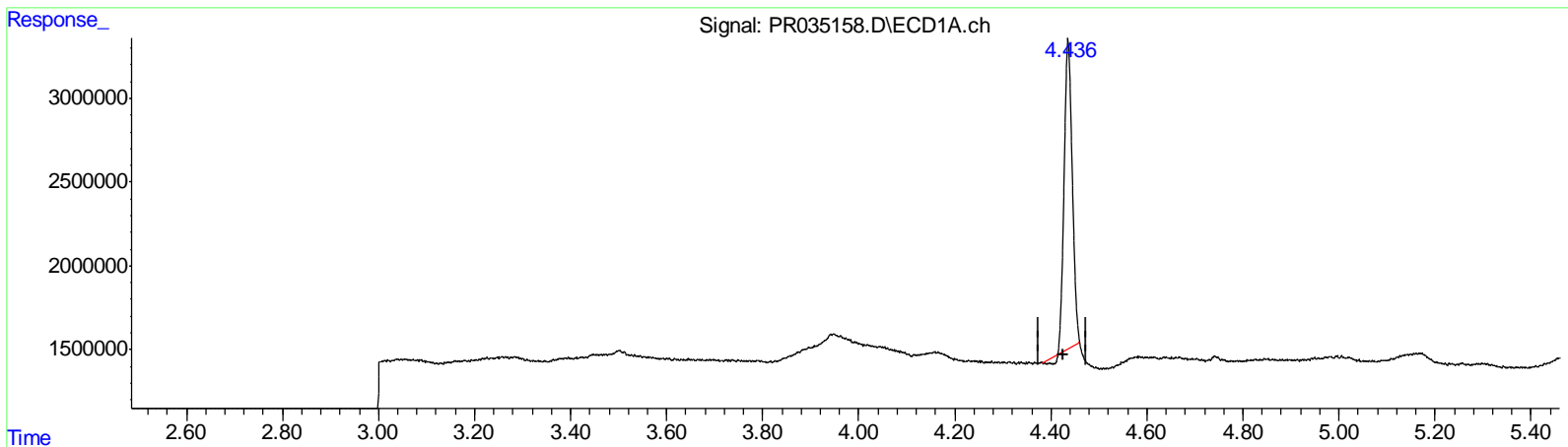
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:19
 Operator : SM\SJ
 Sample : AIBLK56
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK56

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:35 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(1) Tetrachloro-m-xylene (SA)

4.436min 11.053 ng/ml

response 21498619

(1) Tetrachloro-m-xylene #2 (SA)

3.498min 6.743 ng/ml

response 23505380

(+) = Expected Retention Time

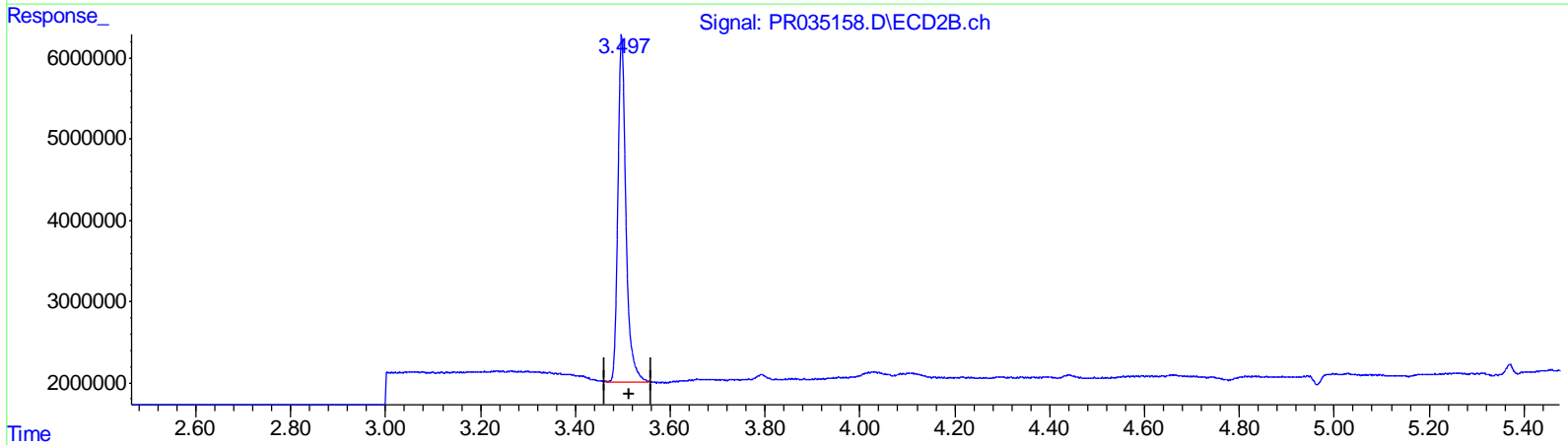
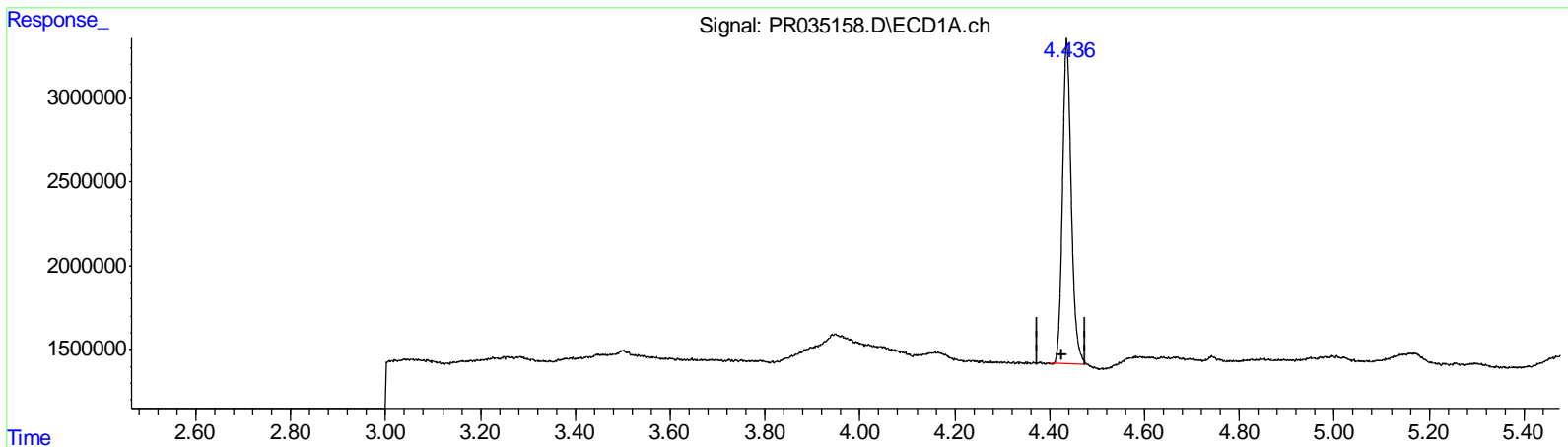
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:19
 Operator : SM\SJ
 Sample : AIBLK56
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AIBLK56

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:35 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(1) Tetrachloro-m-xylene (SA)
 4.436min 12.788 ng/ml m
 response 24872770

(1) Tetrachloro-m-xylene #2 (SA)
 3.497min 14.527 ng/ml m
 response 50641466

(+) = Expected Retention Time

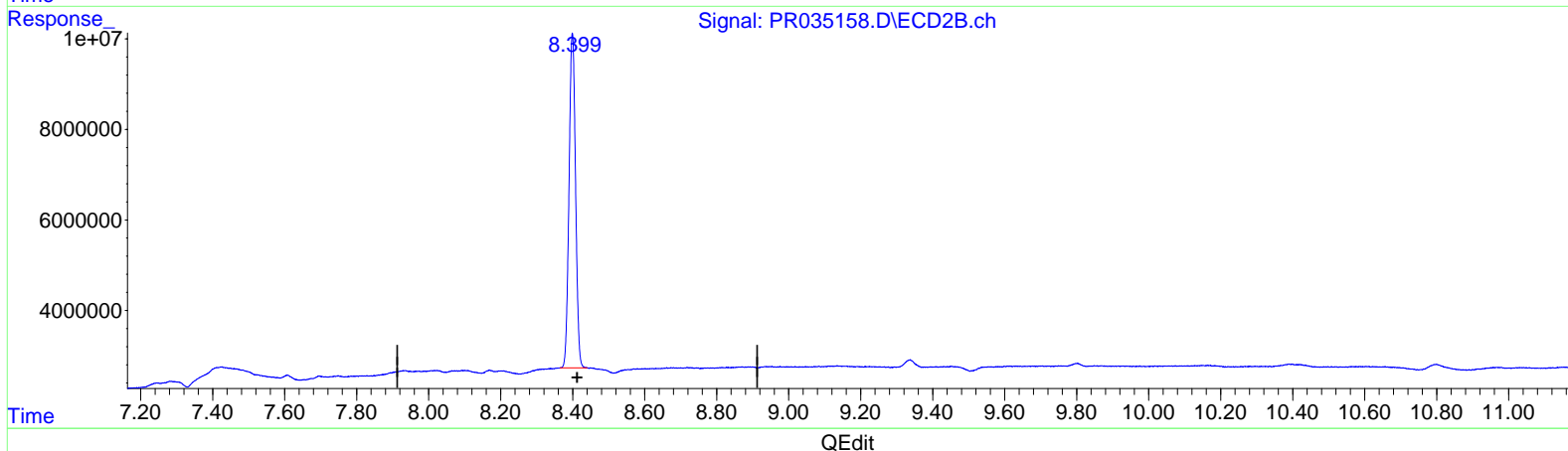
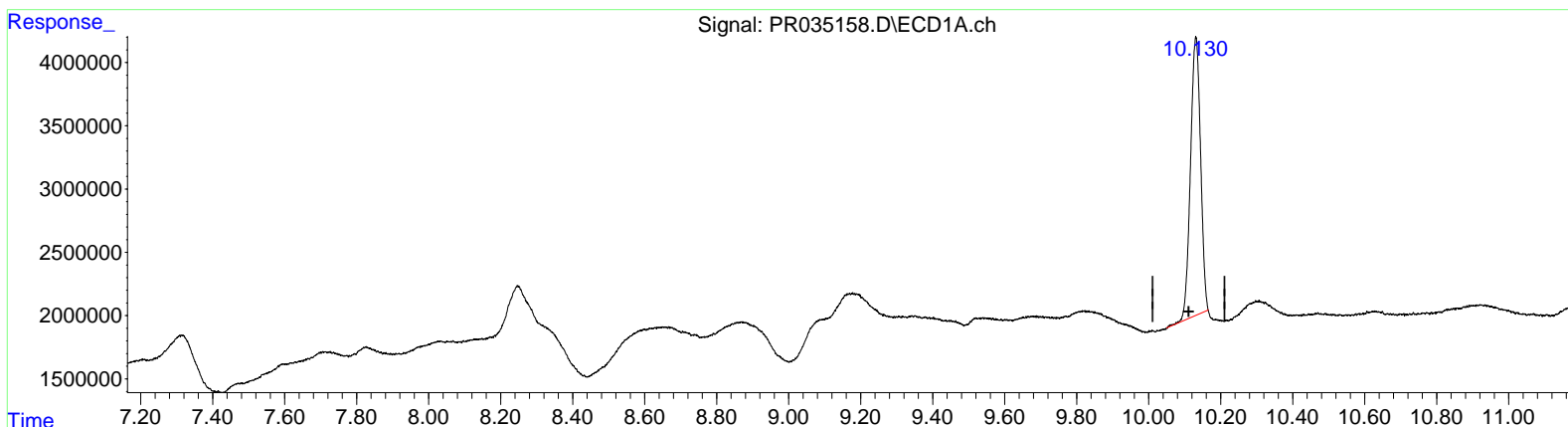
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:19
 Operator : SM\SJ
 Sample : AIBLK56
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK56

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:35 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.131min 21.786 ng/ml
 response 42829366

(2) Decachlorobiphenyl #2 (SA)
 8.399min 21.059 ng/ml
 response 92587400

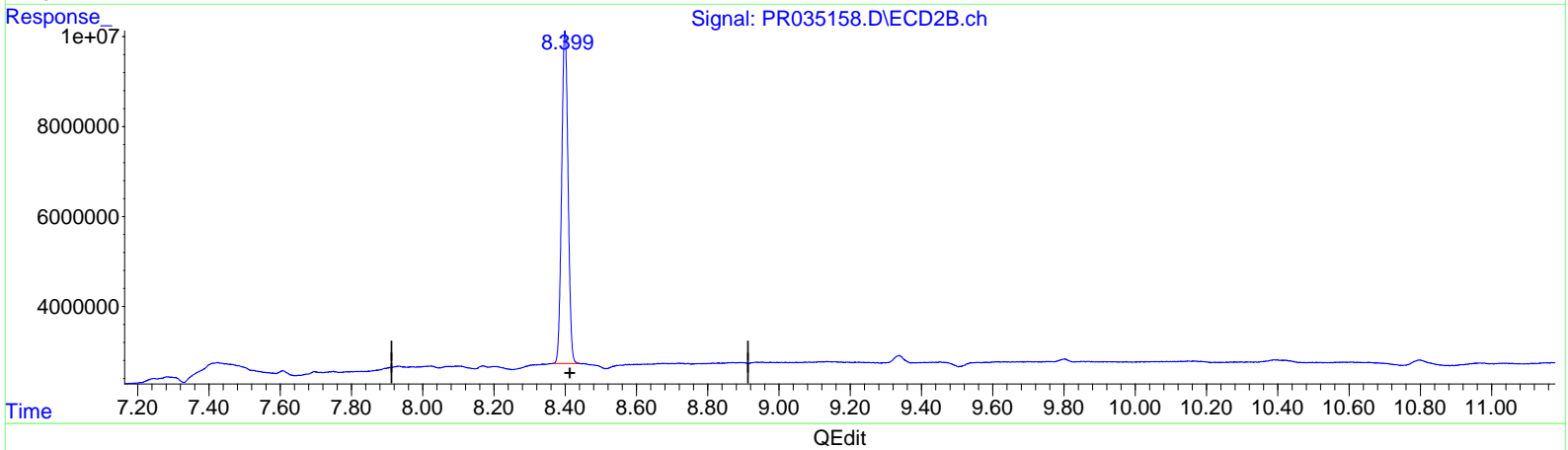
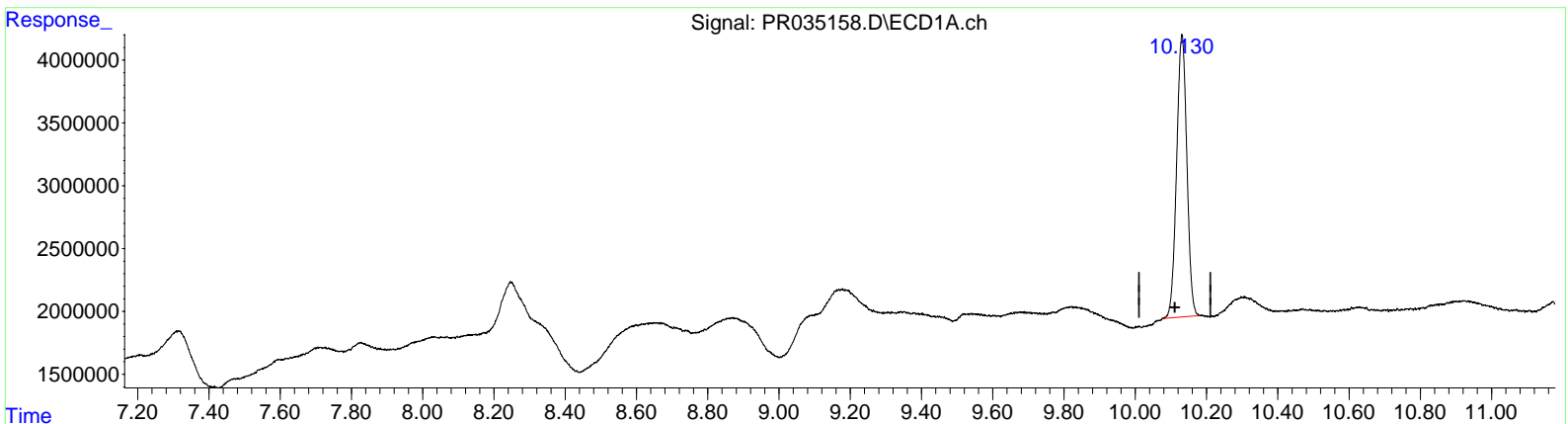
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:19
 Operator : SM\SJ
 Sample : AIBLK56
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK56

Manual Integrations
APPROVED
 mohammad
 12/31/2018 11:11:35 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.130min 22.789 ng/ml m
 response 44802303

(2) Decachlorobiphenyl #2 (SA)
 8.399min 21.059 ng/ml
 response 92587400

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035158.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 12:19
 Operator : SM\SJ
 Sample : AIBLK56
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AIBLK56

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 30 23:38:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

mohammad
 12/31/2018 11:11:35 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.436 | 3.497 | 24872770 | 50641466 | 12.788m | 14.527m |
| 2) SA Decachlor... | 10.130 | 8.399 | 44802303 | 92587400 | 22.789m | 21.059 |

> SJ
 12/31/18

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W2MS(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-09MS
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035080.D
 % Solids : 81.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 640 | P |
| 11104-28-2 | Aroclor-1221 | 40 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 9000 | E |
| 37324-23-5 | Aroclor-1262 | 40 | U |
| 11100-14-4 | Aroclor-1268 | 40 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W2MS(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-09MS
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035080.D-2
 % Solids : 81.5 Date Received : 12/14/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

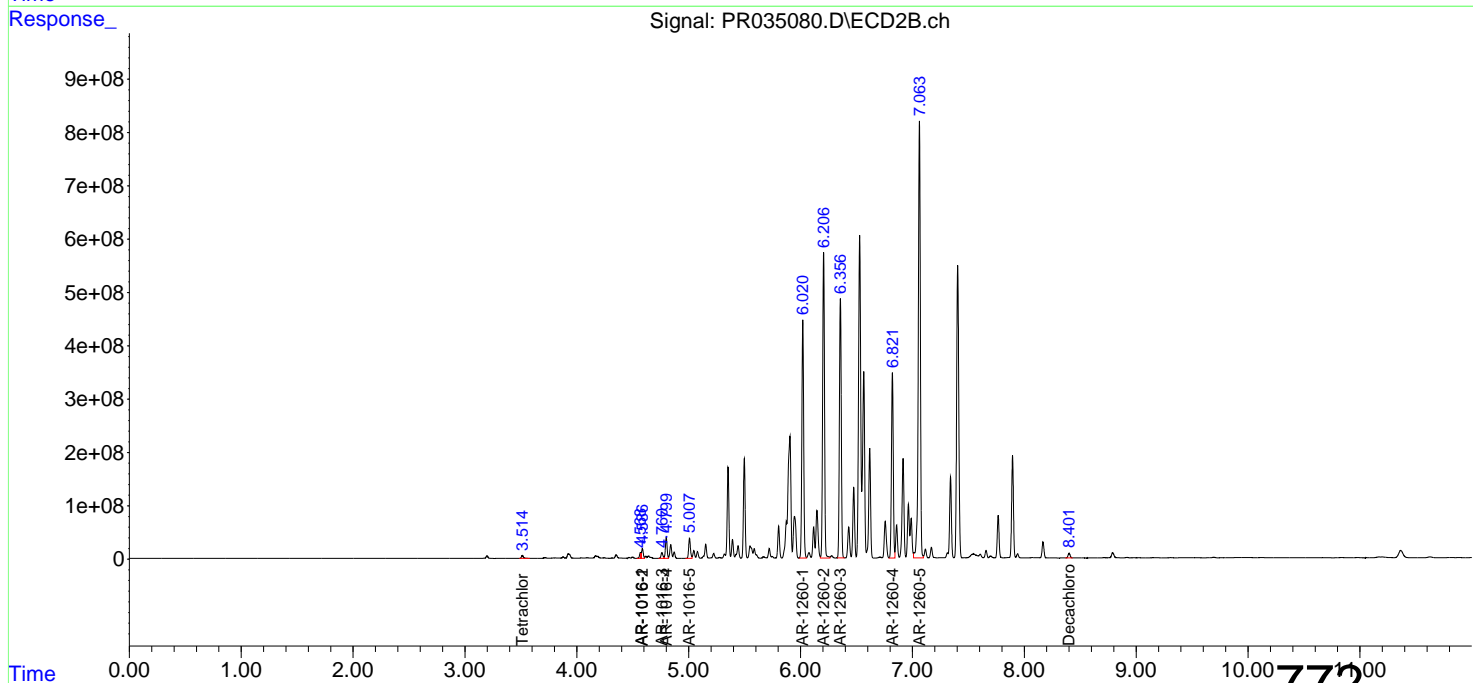
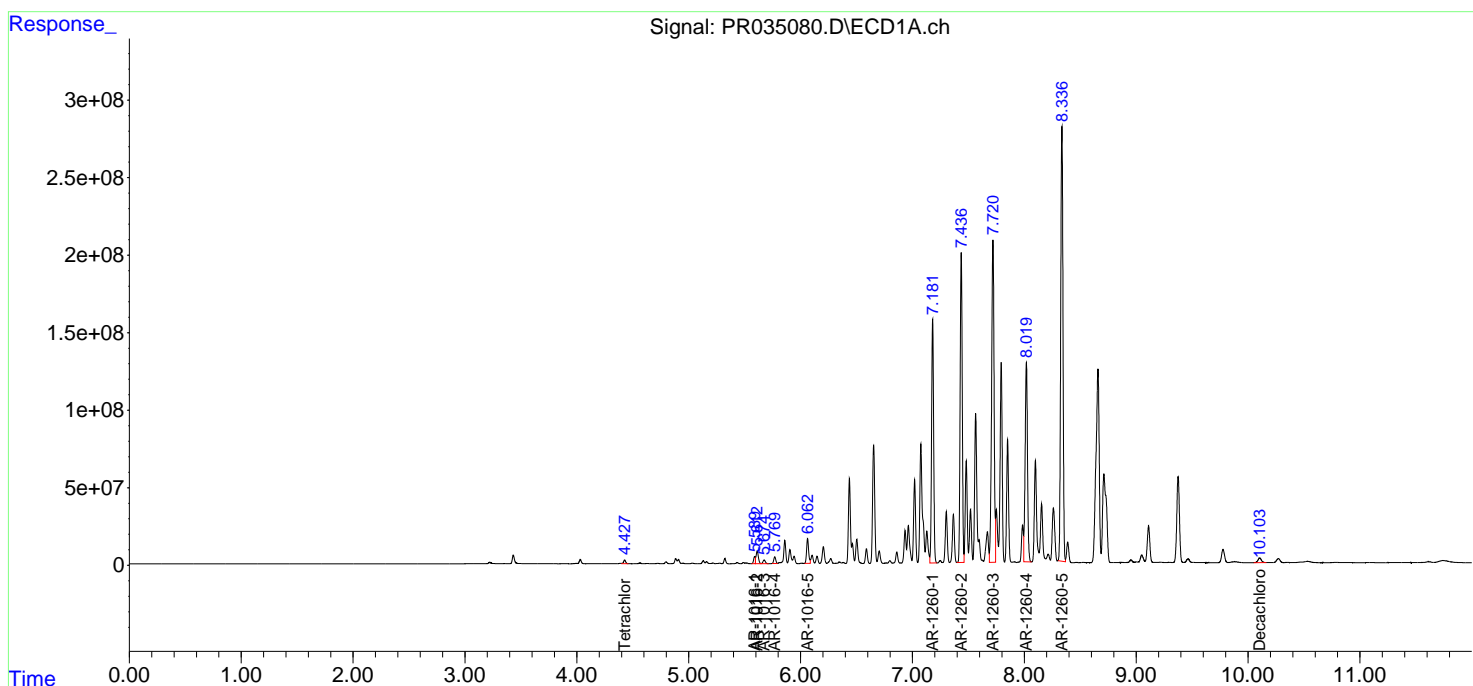
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 1000 | EP |
| 11104-28-2 | Aroclor-1221 | 40 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 9400 | E |
| 37324-23-5 | Aroclor-1262 | 40 | U |
| 11100-14-4 | Aroclor-1268 | 40 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035080.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:43
 Operator : SM\SJ
 Sample : J6428-09MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W2MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:54:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035080.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:43
 Operator : SM\SJ
 Sample : J6428-09MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W2MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:54:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 29732455 | 70271585 | 15.286 | 20.158 # |
| 2) SA Decachlor... | 10.103 | 8.401 | 62831049 | 113.1E6 | 31.960 | 25.713 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.569 | 48478143 | 96738307 | 718.161 | 743.429 |
| 4) L1 AR-1016-2 | 5.612 | 4.586 | 116.8E6 | 199.0E6 | 1179.425 | 1006.998 |
| 5) L1 AR-1016-3 | 5.674 | 4.761 | 35279350 | 126.9E6 | 599.421 | 1319.886 # |
| 6) L1 AR-1016-4 | 5.769 | 4.800 | 52494131 | 409.7E6 | 1106.610 | 5423.030 # |
| 7) L1 AR-1016-5 | 6.063 | 5.007 | 204.2E6 | 423.4E6 | 4288.482 | 4117.562 |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 1996.5E6 | 5053.4E6 | 21237.685 | 23507.196 |
| 32) L7 AR-1260-2 | 7.437 | 6.206 | 2593.7E6 | 6666.5E6 | 22339.802 | 24498.175 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 3186.6E6 | 5685.2E6 | 22833.656 | 22902.583 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 1887.9E6 | 3920.7E6 | 21859.532 | 22929.489 |
| 35) L7 AR-1260-5 | 8.336 | 7.063 | 3970.4E6 | 10564.5E6 | 21990.134 | 21843.469 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W2MSD(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-10MSD
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035081.D
 % Solids : 81.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 630 | P |
| 11104-28-2 | Aroclor-1221 | 41 | U |
| 11141-16-5 | Aroclor-1232 | 41 | U |
| 53469-21-9 | Aroclor-1242 | 41 | U |
| 12672-29-6 | Aroclor-1248 | 41 | U |
| 11097-69-1 | Aroclor-1254 | 41 | U |
| 11096-82-5 | Aroclor-1260 | 8800 | E |
| 37324-23-5 | Aroclor-1262 | 41 | U |
| 11100-14-4 | Aroclor-1268 | 41 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W2MSD(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6428-10MSD
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035081.D-2
 % Solids : 81.5 Date Received : 12/14/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

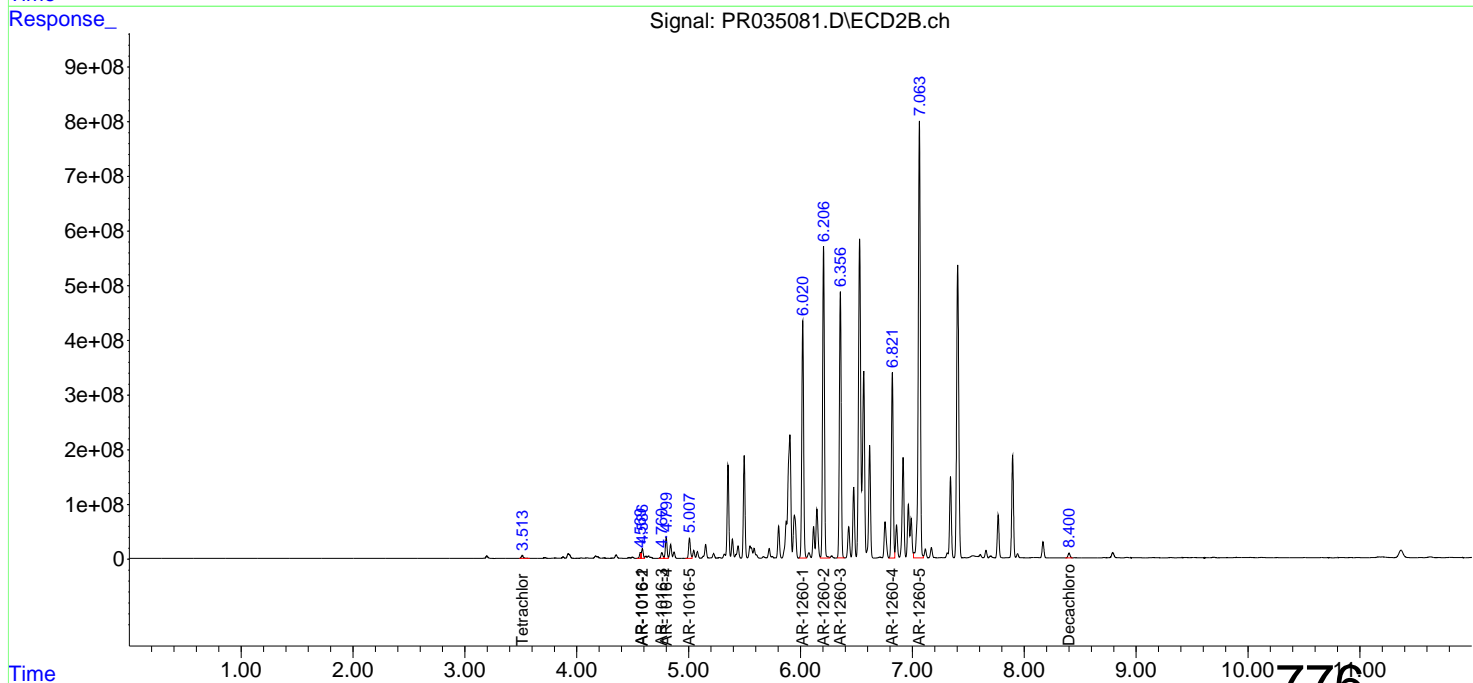
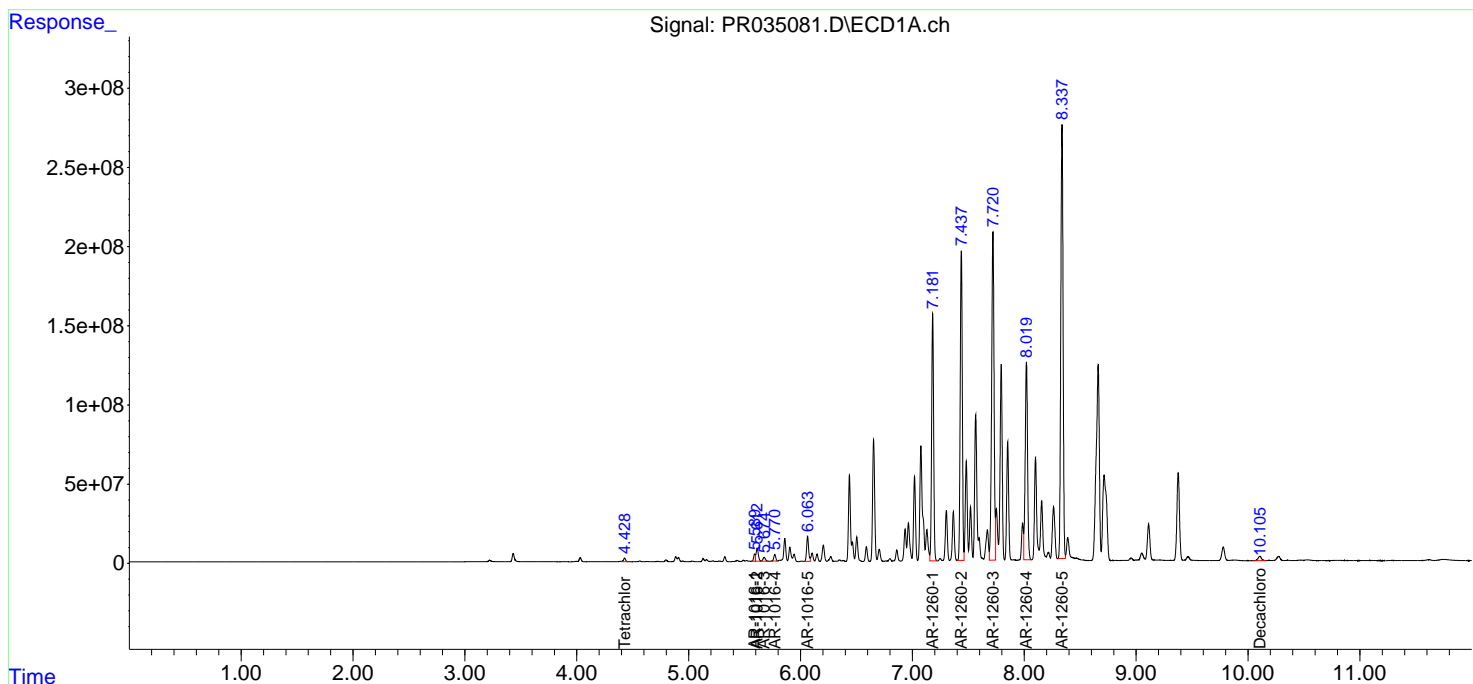
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 1000 | EP |
| 11104-28-2 | Aroclor-1221 | 41 | U |
| 11141-16-5 | Aroclor-1232 | 41 | U |
| 53469-21-9 | Aroclor-1242 | 41 | U |
| 12672-29-6 | Aroclor-1248 | 41 | U |
| 11097-69-1 | Aroclor-1254 | 41 | U |
| 11096-82-5 | Aroclor-1260 | 9300 | E |
| 37324-23-5 | Aroclor-1262 | 41 | U |
| 11100-14-4 | Aroclor-1268 | 41 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035081.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:58
 Operator : SM\SJ
 Sample : J6428-10MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W2MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:55:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035081.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 11:58
 Operator : SM\SJ
 Sample : J6428-10MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41W2MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:55:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 28917521 | 68344179 | 14.867 | 19.605 # |
| 2) SA Decachlor... | 10.105 | 8.401 | 55628221 | 109.2E6 | 28.296 | 24.846 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.569 | 46410733 | 94067864 | 687.534 | 722.907 |
| 4) L1 AR-1016-2 | 5.612 | 4.586 | 115.8E6 | 195.4E6 | 1169.653 | 988.561 |
| 5) L1 AR-1016-3 | 5.675 | 4.760 | 36977861 | 124.6E6 | 628.280 | 1296.786 # |
| 6) L1 AR-1016-4 | 5.770 | 4.800 | 51305679 | 401.2E6 | 1081.556 | 5310.836 # |
| 7) L1 AR-1016-5 | 6.063 | 5.007 | 198.8E6 | 415.0E6 | 4174.091 | 4035.851 |
| 31) L7 AR-1260-1 | 7.182 | 6.020 | 1948.1E6 | 4972.4E6 | 20722.469 | 23130.535 |
| 32) L7 AR-1260-2 | 7.438 | 6.206 | 2531.8E6 | 6498.3E6 | 21806.413 | 23880.050 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 3100.3E6 | 5571.0E6 | 22215.152 | 22442.358 |
| 34) L7 AR-1260-4 | 8.020 | 6.821 | 1835.3E6 | 3825.2E6 | 21250.947 | 22370.851 |
| 35) L7 AR-1260-5 | 8.338 | 7.063 | 3883.0E6 | 10297.5E6 | 21506.322 | 21291.488 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ALCS40(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115740BS
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035144.D
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 48 | |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 45 | |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ALCS40 (2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T4
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115740BS
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035144.D-2
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/16/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/29/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

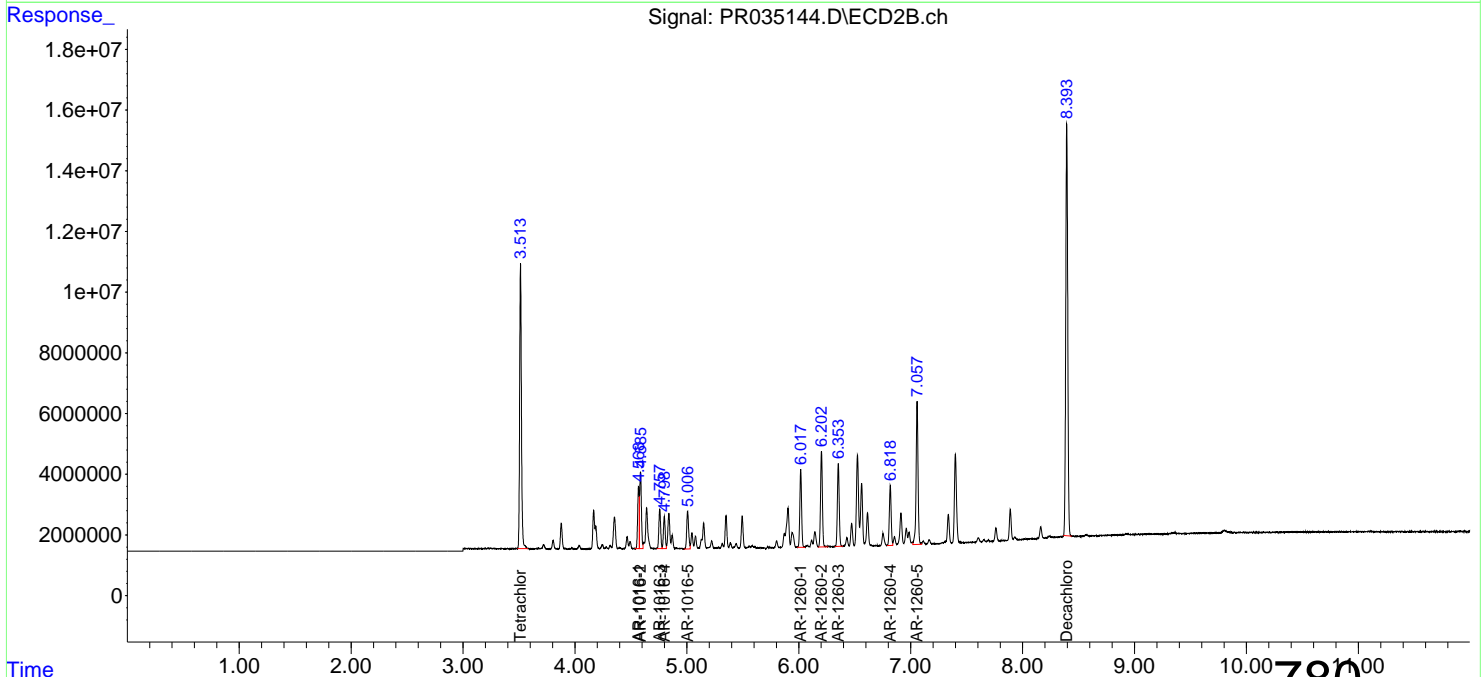
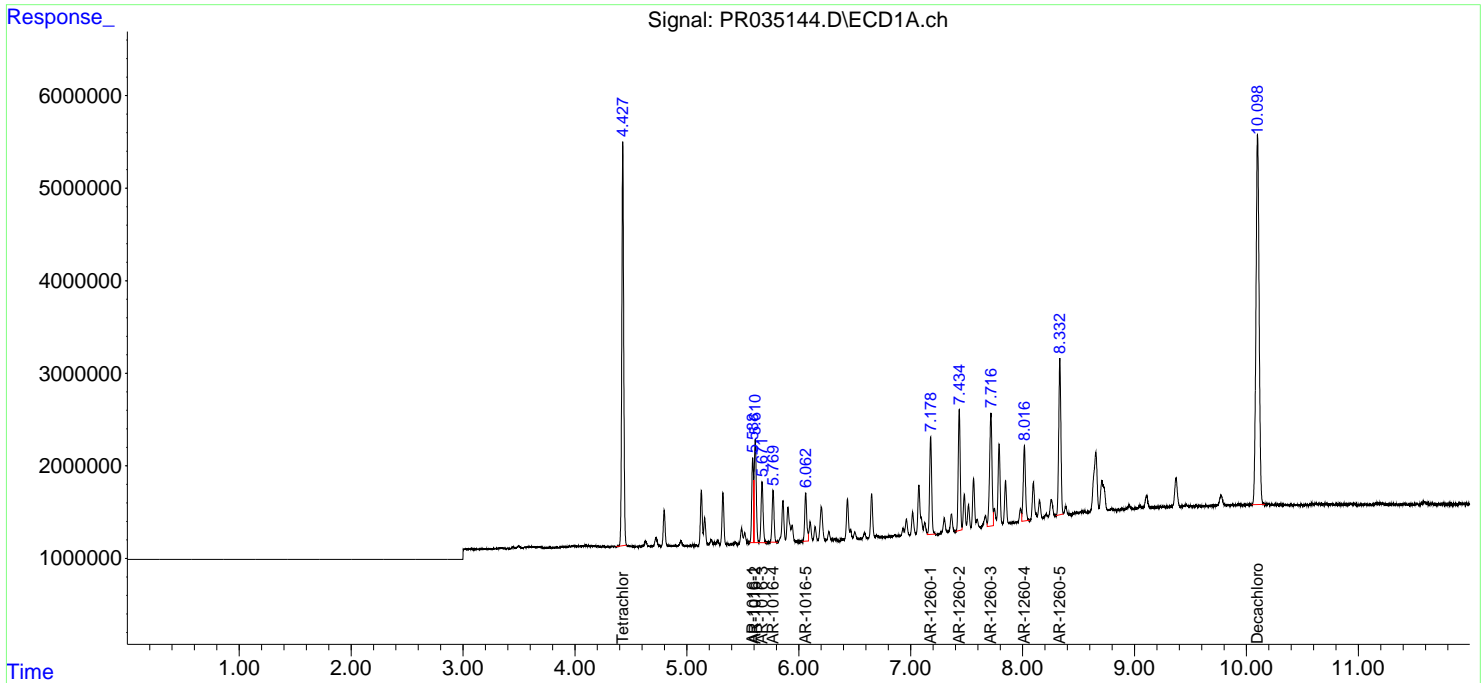
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 49 | |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 43 | |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035144.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 06:03
 Operator : SM\SJ
 Sample : PB115740BS (Sig #1); PB115948BS (Sig #2)
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 ALCS40

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 09:58:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122918\
 Data File : PR035144.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 Dec 2018 06:03
 Operator : SM\SJ
 Sample : PB115740BS (Sig #1); PB115948BS (Sig #2)
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 ALCS40

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 09:58:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.514 | 51859078 | 103.9E6 | 26.662 | 29.792 |
| 2) SA Decachlor... | 10.099 | 8.394 | 77809355 | 169.0E6 | 39.579 | 38.431 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.588 | 4.568 | 10160565 | 19221180 | 150.520 | 147.714 |
| 4) L1 AR-1016-2 | 5.611 | 4.586 | 14106143 | 27560611 | 142.448 | 139.441 |
| 5) L1 AR-1016-3 | 5.672 | 4.758 | 8418059 | 14394833 | 143.029 | 149.765 |
| 6) L1 AR-1016-4 | 5.770 | 4.798 | 6809466 | 11419012 | 143.548 | 151.147 |
| 7) L1 AR-1016-5 | 6.062 | 5.006 | 6664035 | 15120068 | 139.920 | 147.045 |
| 31) L7 AR-1260-1 | 7.178 | 6.017 | 13618680 | 28252143 | 144.867 | 131.422 |
| 32) L7 AR-1260-2 | 7.434 | 6.203 | 16226267 | 36453083 | 139.760 | 133.959 |
| 33) L7 AR-1260-3 | 7.717 | 6.353 | 18477268 | 31129494 | 132.400 | 125.403 |
| 34) L7 AR-1260-4 | 8.016 | 6.818 | 11345783 | 22370460 | 131.372 | 130.829 |
| 35) L7 AR-1260-5 | 8.333 | 7.057 | 22558290 | 56456470 | 124.939 | 116.731 |

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

SOP ID: MSOM02.4-PCB-1
Clean Up SOP #: Acid Cleanup **Extraction Start Date:** 12/16/2018
Matrix: Solid **Extraction Start Time:** 10:18
Weigh By: RJ **Extraction By:** RJ **Extraction End Date:** 12/16/2018
Balance check: HP **Filter By:** RJ **Extraction End Time:** 14:30
Balance ID: EX-SC-1 **pH Meter ID:** N/A **Concentration By:** HP
pH Strip Lot#: N/A **Hood ID:** 3,7 **Supervisor By:** rajesh
Extraction Method: Seperatory Funne Continious Liquid/Liquid Sonication Waste Dilution Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|-----------------------|---------------------|
| Spike Sol 1 | 1.0ML | 1000 PPB | PP14582 |
| Matrix Spike | 1.0ML | N/A 400015 | PP14442 |
| Surrogate | 1.0ML | 200/400 PPB | PP14678 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| Hexane/Acetone/1:1 | N/A | EP1911 |
| Baked Na2SO4 | N/A | EP1909 |
| Hexane | N/A | E2559 |
| H2SO4 1:1 | N/A | EP1896 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

Extraction Conformance/Non-Conformance Comments:

GPC PROJECT J6332 & J6203

KD Bath ID: N/A **Envap ID:** NE.VAP-2
KD Bath Temperature: N/A **Envap Temperature:** 40 °C
Received Date/Time: 12/16/18 **Received By:** SJ
Delivered Date/Time: 12/16/18/14:35 **Delivered By:** R

Analytical Method: MSOM02.4-PCB-1

Concentration Date: 12/16/2018

| Sample ID | Client Sample ID | Test | g/ mL | PH | Surr/Spike By: | | Final Vol.(mL) | JarID | Comments | Prep Pos |
|------------|------------------|------|-------|--------|----------------|------------|----------------|-------|----------|----------|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB115740BL | ABLK40 | PCB | 30.01 | | ritesh | Hiral | 10 | | | 6 |
| PB115740BS | ALCS40 | PCB | 30.03 | | ritesh | Hiral | 10 | | | U6-1 |
| J6428-01 | A41T4 | PCB | 30.13 | | ritesh | Hiral | 10 | | BLACK | U3-1 |
| J6428-02 | A41T5 | PCB | 30.12 | | ritesh | Hiral | 10 | | BLACK | 2 |
| J6428-03 | A41T7 | PCB | 30.10 | | ritesh | Hiral | 10 | | BLACK | 3 |
| J6428-04 | A41T8 | PCB | 30.02 | | ritesh | Hiral | 10 | | BLACK | 4 |
| J6428-05 | A41T9 | PCB | 30.07 | | ritesh | Hiral | 10 | | BLACK | 5 |
| J6428-06 | A41W0 | PCB | 30.09 | | ritesh | Hiral | 10 | | BLACK | 6 |
| J6428-07 | A41W1 | PCB | 30.12 | | ritesh | Hiral | 10 | | BLACK | U4-1 |
| J6428-08 | A41W2 | PCB | 30.10 | | ritesh | Hiral | 10 | | BLACK | 2 |
| J6428-09 | A41W2MS | PCB | 30.05 | | ritesh | Hiral | 10 | | BLACK | 3 |
| J6428-10 | A41W2MSD | PCB | 30.03 | | ritesh | Hiral | 10 | | BLACK | 4 |
| J6428-11 | A41W3 | PCB | 30.05 | | ritesh | Hiral | 10 | | BLACK | 5 |
| J6428-12 | A41W5 | PCB | 30.02 | | ritesh | Hiral | 10 | | BLACK | 6 |
| J6428-13 | A41W6 | PCB | 30.06 | | ritesh | Hiral | 10 | | BLACK | U5-1 |
| J6428-14 | A41W7 | PCB | 30.01 | | ritesh | Hiral | 10 | | BLACK | 2 |
| J6428-15 | A41W8 | PCB | 30.07 | | ritesh | Hiral | 10 | | BLACK | 3 |
| J6428-16 | A41W9 | PCB | 30.09 | ritesh | Hiral | 10 | | BLACK | 4 | |
| J6428-17 | A41Z3 | PCB | 30.04 | ritesh | Hiral | 10 | | BLACK | 5 | |

* Extracts relinquished on the same date as received.

12/16

PERCENT SOLID

Supervisor: apatel
 Analyst: jignesh
 Date: 12/17/2018

OVENTEMP IN Celsius(°C): 108
 Time IN: 15:10
 In Date: 12/15/2018
 Weight Check 1.0g: 1.00
 Weight Check 10g: 10.00
 OvenID: M Oven-1

OVENTEMP OUT Celsius(°C): 103
 Time OUT: 07:30
 Out Date: 12/16/2018
 Weight Check 1.0g: 1.00
 Weight Check 10g: 10.00
 BalanceID: M Sc-1

QC:LB99836

| Lab ID | Client Sample ID | Dish# | Dish Wt(g) (A) | Dish + Sample Wt(g) (B) | Dish + Dry Sample Wt(g) (C) | % Solid |
|----------|------------------|-------|-------------------|-------------------------------|-----------------------------------|---------|
| J6428-01 | A41T4 | 1 | 1.15 | 9.79 | 7.67 | 75.5 |
| J6428-02 | A41T5 | 2 | 1.14 | 9.71 | 8.41 | 84.8 |
| J6428-03 | A41T7 | 3 | 1.18 | 9.54 | 7.74 | 78.5 |
| J6428-04 | A41T8 | 4 | 1.16 | 9.87 | 8.73 | 86.9 |
| J6428-05 | A41T9 | 5 | 1.15 | 9.87 | 8.35 | 82.6 |
| J6428-06 | A41W0 | 6 | 1.17 | 9.52 | 7.68 | 78.0 |
| J6428-07 | A41W1 | 7 | 1.18 | 9.97 | 8.32 | 81.2 |
| J6428-08 | A41W2 | 8 | 1.16 | 9.64 | 8.07 | 81.5 |
| J6428-09 | A41W2MS | 9 | 1.16 | 9.64 | 8.07 | 81.5 |
| J6428-10 | A41W2MSD | 10 | 1.16 | 9.64 | 8.07 | 81.5 |
| J6428-11 | A41W3 | 11 | 1.17 | 9.57 | 7.88 | 79.9 |
| J6428-12 | A41W5 | 12 | 1.14 | 9.51 | 7.74 | 78.9 |
| J6428-13 | A41W6 | 13 | 1.18 | 9.92 | 7.31 | 70.1 |
| J6428-14 | A41W7 | 14 | 1.1 | 9.9 | 8.96 | 89.3 |
| J6428-15 | A41W8 | 15 | 1.1 | 9.62 | 7.53 | 75.5 |
| J6428-16 | A41W9 | 16 | 1.14 | 9.98 | 8.92 | 88.0 |
| J6428-17 | A41Z3 | 17 | 1.00 | 2.00 | 2.00 | 100.0 |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

1399836

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-J6428 WorkList ID : 120409 Date : 12/15/2018 8:11:36 AM

| Due Date | Matrix | Sample | Test | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method |
|------------|--------|----------|----------------|--------------|----------|------------------|-----------------|--------------|--------------|
| 12/22/2018 | Solid | J6428-01 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41T4 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-02 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41T5 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-03 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41T7 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-04 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41T8 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-05 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41T9 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-06 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W0 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-07 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W1 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-08 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W2 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-09 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W2MS | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-10 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W2MSD | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-11 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W3 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-12 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W5 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-13 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W6 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-14 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W7 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-15 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W8 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-16 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41W9 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6428-17 | Percent Solids | Cool 4 deg C | USEP04 | A12 | A41Z3 | 12/12/2018 | Chemtech -SO |

785

Date/Time 12-15-18 2:00 PM
 Received by: JO
 Relinquished by: JO

Date/Time 12-15-18 2:35 PM
 Received by: JO
 Relinquished by: JO

Prep Standard - Chemical Standard Summary**Order ID :** J6428**Test :** PCB**Prepbatch ID :** PB115740,**Sequence ID/Qc Batch ID:** pr122818,PR122918,PR121818**Standard ID :**

EP1896,EP1909,EP1911,PP14049,PP14054,PP14055,PP14056,PP14057,PP14076,PP14077,PP14078,PP14079,PP14080,PP14081,PP14082,PP14083,PP14085,PP14086,PP14087,PP14089,PP14090,PP14091,PP14390,PP14442,PP14582,P14678,

Chemical ID :

E2482,E2519,E2524,E2542,E2550,E2559,E2563,M4177,P3936,P3940,P3945,P5329,P5881,P6715,P7712,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14395,pp14396,pp14397,pp14398,pp14399,pp14400,pp14401,pp14402,V1456,W2363,

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|----------------|------------------------|------------------|---------------------|--------------------|
| 314 | 1.1 H2SO4 SOLN | EP1896 | 10/25/2018 | 04/25/2019 | Rajesh |
| FROM 1000.000ml of M4177 + 1000.000ml of V1456 = Final Quantity: 2000.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|-----------------------|------------------------|------------------|---------------------|--------------------|
| 256 | BAKED SODIUM SULPHATE | EP1909 | 12/06/2018 | 02/19/2019 | rajesh |
| FROM 4000.000gram of E2519 = Final Quantity: 4000.000 gram | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|-------------------|------------------------|------------------|---------------------|--------------------|
| 230 | 1:1ACETONE/HEXANE | EP1911 | 12/06/2018 | 06/04/2019 | rajesh |
| FROM 8000.000ml of E2559 + 8000.000ml of E2563 = Final Quantity: 16000.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|---------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 70 | 10/20 PPM Pest/PCB SOM01.2 Surg Stock | PP14049 | 08/06/2018 | 01/10/2019 | somina |
| FROM 1.000ml of E2482 + 9.000ml of P5881 = Final Quantity: 10.000 ml | | | | | |

STANDARD PREPARATION LOG

| RecipeID | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|--------------------------------------|-------------------------|-------------------------|----------------------------|---------------------------|
| 699 | Aroclor 1248 CS5 (1600\80\160 ng/ml) | PP14054 | 08/06/2018 | 01/10/2019 | somina |
| <u>FROM</u> 0.080ml of P6715 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

| RecipeID | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|--------------------------------------|-------------------------|-------------------------|----------------------------|---------------------------|
| 700 | Aroclor 1254 CS5 (1600\80\160 ng/ml) | PP14055 | 08/06/2018 | 01/10/2019 | somina |
| <u>FROM</u> 0.080ml of P3936 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 701 | Aroclor 1262 CS5 (1600\80\160 ng/ml) | PP14056 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P3945 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 702 | Aroclor 1268 CS5 (1600\80\160 ng/ml) | PP14057 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P3940 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1255 | Aroclor 1248 CS4 (800 ng/ml) | PP14076 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14054 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 692 | Aroclor 1248 CS3 (400 ng/ml) | PP14077 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14054 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1256 | Aroclor 1248 CS2 (200 ng/ml) | PP14078 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14077 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1257 | Aroclor 1248 CS1 (100 ng/ml) | PP14079 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14078 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1863 | Aroclor 1254 CS4 (800 ng/ml) | PP14080 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14055 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 693 | Aroclor 1254 CS3 (400 ng/ml) | PP14081 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14055 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1864 | Aroclor 1254 CS2 (200 ng/ml) | PP14082 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14081 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1865 | Aroclor 1254 CS1 (100 ng/ml) | PP14083 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14082 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 694 | Aroclor 1262 CS3 (400 ng/ml) | PP14085 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14056 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1867 | Aroclor 1262 CS2 (200 ng/ml) | PP14086 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14085 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1868 | Aroclor 1262 CS1 (100 ng/ml) | PP14087 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14086 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 703 | Aroclor 1268 CS3 (400 ng/ml) | PP14089 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14057 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1870 | Aroclor 1268 CS2 (200 ng/ml) | PP14090 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14089 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1871 | Aroclor 1268 CS1 (100 ng/ml) | PP14091 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14090 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|---------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 41 | 100 PPM PCB Stock Solution 2nd Source | PP14390 | 10/08/2018 | 04/02/2019 | SOMINA |
| FROM 1.000ml of P5329 + 9.000ml of E2524 = Final Quantity: 10.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1679 | 4000 PPB PCB MS-MSD Spike Solution | PP14442 | 10/16/2018 | 04/02/2019 | somina |
| FROM 0.400ml of P5329 + 99.600ml of E2524 = Final Quantity: 100.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|----------------------------|-------------------------|------------------|---------------------|--------------------|
| 923 | 1000 PPB PCB SPIKE SOMO1.2 | PP14582 | 11/07/2018 | 04/02/2019 | somina |
| FROM 99.000ml of E2542 + 1.000ml of PP14390 = Final Quantity: 100.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|--|-------------------------|------------------|---------------------|--------------------|
| 69 | 200/400 PPB Pest/PCB SOM01.2 Surg Spike | PP14678 | 11/21/2018 | 05/19/2019 | eghosa |
| FROM 1.000ml of P7712 + 499.000ml of E2550 = Final Quantity: 500.000 ml | | | | | |

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) | 0000179319 | 01/10/2019 | 07/11/2018 / Rajesh | 07/11/2018 / Rajesh | E2482 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | / Sodium sulfate (anhydrous) | 743502 | 02/19/2019 | 08/20/2018 / Rajesh | 08/13/2018 / Rajesh | E2519 |

| 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) | 0000179319 | 04/02/2019 | 10/03/2018 / Rajesh | 10/03/2018 / Rajesh | E2524 |

| 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) | 0000196203 | 04/30/2019 | 10/31/2018 / Rajesh | 10/31/2018 / Rajesh | E2542 |

| 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) | 0000196203 | 05/19/2019 | 11/19/2018 / rajesh | 11/14/2018 / RUPESH | E2550 |

| 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) | 0000209662 | 11/27/2019 | 12/05/2018 / rajesh | 11/28/2018 / rajesh | E2559 |

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) | 0000196203 | 06/04/2019 | 12/05/2018 / rajesh | 12/05/2018 / rajesh | E2563 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 0000177544 | 06/14/2022 | 09/06/2018 / mohan | 06/06/2018 / mohan | M4177 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul | A092005 | 02/28/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3936 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane | A091468 | 01/31/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3940 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane | A092660 | 03/31/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3945 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 20064 / Aroclor 1016/1260 | 102711 | 10/27/2021 | 08/31/2016 / SOMINA | 09/03/2015 / Nevilkumar | P5329 |

CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32453 / Pesticide Stock Standard, Pesticide Surrogate Mix, 1mL, 100-200ug/mL, acetone | A0117515 | 05/31/2022 | 04/06/2018 / Ankita | 10/13/2016 / Ankita | P5881 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul | A0125373 | 05/31/2023 | 03/19/2018 / somina | 09/14/2017 / somina | P6715 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32453 / SOM01.1 Pesticide Surrogate Standard | A0131432 | 01/31/2024 | 10/16/2018 / Ankita | 08/16/2018 / eghosa | P7712 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------|---------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| Res-Kem General water | DIW / DI Water | DAILY | 12/31/2019 | 03/01/2010 / apatel | 03/02/2010 / apatel | V1456 |

| 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) | 0000190529 | 03/15/2019 | 05/04/2018 / JIGNESH | 05/02/2018 / JIGNESH | W2363 |

Sulfuric Acid
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis
 Low Selenium

*M 4177
 AS
 Received on
 6/6/18*



Material No.: 9673-33
 Batch No.: 0000177544
 Manufactured Date: 2017/06/15
 Retest Date: 2022/06/14

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|--------|
| ACS - Assay (H ₂ SO ₄) | 95.0 - 98.0 % | 96.0 |
| Appearance | Passes Test | PT |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | < 1 |
| ACS - Substances Reducing Permanganate (as SO ₂) | <= 2 ppm | < 2 |
| Ammonium (NH ₄) | <= 1 ppm | < 1 |
| Chloride (Cl) | <= 0.1 ppm | < 0.1 |
| Nitrate (NO ₃) | <= 0.2 ppm | < 0.1 |
| Phosphate (PO ₄) | <= 0.5 ppm | < 0.1 |
| Trace Impurities - Aluminum (Al) | <= 30.0 ppb | 4.1 |
| Arsenic and Antimony (as As) | <= 4 ppb | < 2 |
| Trace Impurities - Barium (Ba) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Beryllium (Be) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 10.0 ppb | 1.2 |
| Trace Impurities - Cadmium (Cd) | <= 2.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 35.2 |
| Trace Impurities - Chromium (Cr) | <= 6.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 0.5 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Germanium (Ge) | <= 10.0 ppb | < 2.0 |
| Trace Impurities - Gold (Au) | <= 10.0 ppb | 0.8 |
| Heavy Metals (as Pb) | <= 500 ppb | < 100 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
 Avantor Performance Materials, LLC.
 3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

| Test | Specification | Result |
|------------------------------------|---------------|--------|
| Trace Impurities - Iron (Fe) | <= 50.0 ppb | 2.3 |
| Trace Impurities - Lead (Pb) | <= 0.5 ppb | < 0.5 |
| Trace Impurities - Lithium (Li) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Magnesium (Mg) | <= 7.0 ppb | 0.8 |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities - Molybdenum (Mo) | <= 10.0 ppb | < 3.0 |
| Trace Impurities - Nickel (Ni) | <= 2.0 ppb | < 0.3 |
| Trace Impurities - Niobium (Nb) | <= 10.0 ppb | 0.3 |
| Trace Impurities - Potassium (K) | <= 500.0 ppb | < 2.0 |
| Trace Impurities - Selenium (Se) | <= 50.0 ppb | < 10.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | 5.0 |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Sodium (Na) | <= 500.0 ppb | 1.2 |
| Trace Impurities - Strontium (Sr) | <= 5.0 ppb | < 0.2 |
| Trace Impurities - Tantalum (Ta) | <= 10.0 ppb | < 0.9 |
| Trace Impurities - Thallium (Tl) | <= 20.0 ppb | < 2.0 |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities - Titanium (Ti) | <= 10.0 ppb | < 0.5 |
| Trace Impurities - Vanadium (V) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | 1.3 |
| Trace Impurities - Zirconium (Zr) | <= 10.0 ppb | 0.1 |

For Laboratory, Research or Manufacturing Use

Country of Origin: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panoli, India 9001:2008


 Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600

Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



*W2362
 O.PURP. 05/04/2018
 EXP PURP. 03-15-2019
 Certificate of Analysis JP*

Material No.: 9262-03
 Batch No.: 0000182619
 Manufactured Date: 2017/09/01
 Expiration Date: 2018/12/01

| 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 | 10 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water) | >= 99.5 % | 100.0 |
| Assay (as n-Hexane) (by GC, corrected for water) | >= 95 % | 98 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 |
| Substances Darkened by H ₂ SO ₄ | Passes Test | PT |
| Water (by KF, coulometric) | <= 0.05 % | 0.01 |

For Laboratory, Research or Manufacturing Use
 MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panaji, India 9001:2008

Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
 Avantor Performance Materials, LLC.

3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

805



CERTIFIED WEIGHT REPORT

Part Number: 20064
Lot Number: 102711
Description: CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260
Expiration Date: 102721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000

Solvent(s): Hexane
Lot# J32E22

| | | |
|------------------------|-----------------|--------|
| <i>Pat Scaturchio</i> | | 102711 |
| Formulated By: | Pat Scaturchio | DATE |
| <i>Pedro L. Rentas</i> | | 102711 |
| Reviewed By: | Pedro L. Rentas | DATE |

5E-05 Balance Uncertainty
0.007 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | MSDS Information (Solvent Safety Info. On Attached pg.) | | |
|-----------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|---|----------------|-------------------|
| | | | | | | | | | | CAS# | OSHA PEL (TWA) | LD50 |
| 1. Aroclor 1016 | 15 | 020491JC | 1000 | 100 | 0.2 | 0.19999 | 0.20028 | 1001.5 | 4.0 | 12674-11-2 | N/A | N/A |
| 2. Aroclor 1260 | 21 | 020491JC | 1000 | 100 | 0.2 | 0.19999 | 0.20019 | 1001.0 | 4.0 | 11096-82-5 | 0.5mg/m3 | ori-rat 1315mg/kg |

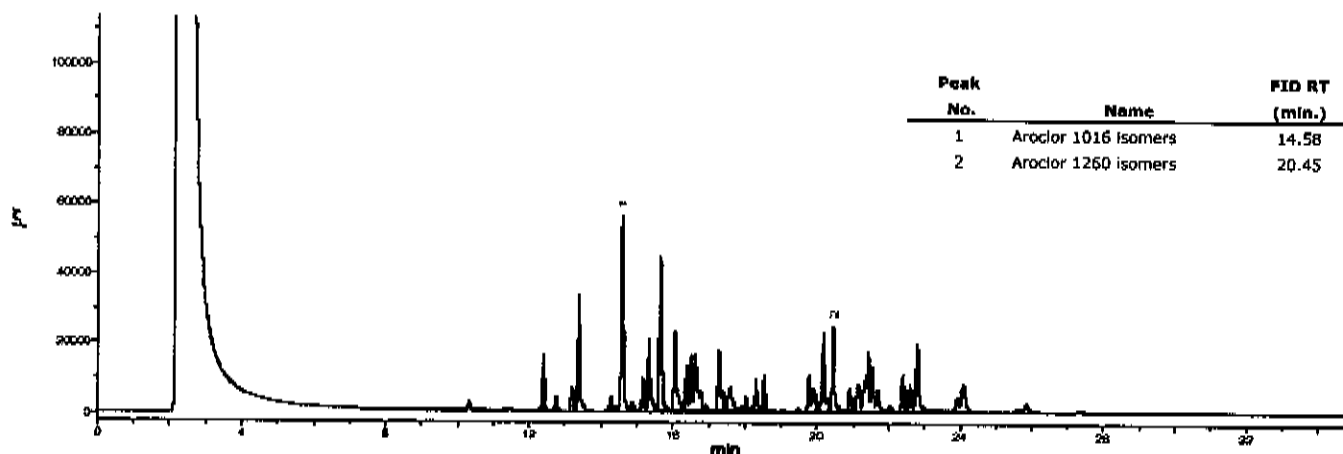
Run 43, "P20064 L102711 [1000µg/mL in hexane]"

Run Length: 35.00 min, 20000 points at 10 points/second.
Created: Fri, Oct 28, 2011 at 6:45:55 PM.
Sampled: Sequence "102711-GC3-M1", Method "GC3-M1".
Analyzed using Method "GC3-M1".

Comments
GC3-M1 Analyze by Melissa Stoner
Column ID SPB-808 3 meter X 0.53mm X 5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150 °C (Time 1 = 4 min), Temp 2 = 290 °C (Time 2 = 13.5 min)
Rate = 8 °C/min, Total run time = 35 min
Injector temp. = 200 °C, FID Temp. = 300 °C, FID Signal = Edaq Channel 1
Standard Injection = 1.0µL, Range=3

P5743
↓ NP
P7 P5747

06/30/2016





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. : 32453 **Lot No.:** A0117515

Description : SOM01.1 Pesticide Surrogate Standard
Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2022 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

P5877
↓
P5881

AJ
10/13/16

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---------------|-----------------------------------|-----------------------------|--------------------------------------|--------|-------------------|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 100.0 µg/mL | +/- | 0.7088 | µg/mL Gravimetric |
| | CAS # 877-09-8 (Lot 0052481) | | +/- | 3.1930 | µg/mL Unstressed |
| | Purity 98% | | +/- | 4.1577 | µg/mL Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 200.0 µg/mL | +/- | 1.4182 | µg/mL Gravimetric |
| | CAS # 2051-24-3 (Lot ER071509-01) | | +/- | 6.3886 | µg/mL Unstressed |
| | Purity 99% | | +/- | 8.3187 | µg/mL Stressed |

Solvent: Acetone
CAS # 67-64-1
Purity 99%



1. IDENTIFICATION

Catalog Number / Product Name: 32453 / SOMO1.1 Pesticide Surrogate Standard
Company: Restek Corporation
Address: 110 Benner Circle
Bellefonte, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 1-800-424-9300 (CHEMTREC)
+1 703-741-5970 (Outside the US)
Email: sds@restek.com
Revision Number: 5
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Flammable Liquid Category 2
Serious Eye Damage/Eye Irritation Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure
Category 3

GHS Signal Word:

Danger

GHS Hazard:

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

GHS Precautions:

Safety Precautions:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/container according to section 13 of the SDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
|---------------|---------|----------------------------|--|---|---------------------------------|
| Acetone | 67-64-1 | 2500 ppm IDLH (10% LEL) | 750 ppm STEL 750 ppm STEL; 1782 mg/m3 STEL | 500 ppm TWA 500 ppm TWA; 1188 mg/m3 TWA | 1000 ppm TWA; 2400 mg/m3 TWA |

Personal Protection:

Engineering Measures:

Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection:

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.

Eye Protection:

Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Medical Conditions Aggravated By Exposure: Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------------------|
| Appearance, color: | Depends upon product selection |
| Odor: | Strong |
| Physical State: | No data available. |
| pH: | No data available |
| Vapor Density: | 2.0 (air = 1) |
| Melting Point: | -95.4 °C Melting Point |
| Flash Point: | 39 |
| Flammability: | Highly Flammable |
| Upper Flammable/Explosive Limit, % in air: | No data available. |
| Lower Flammable/Explosive Limit, % in air: | No data available. |
| Autoignition Temperature: | 465 deg C |
| Decomposition Temperature: | No data available. |
| Specific Gravity: | 0.7845 g/cm3 at 25 °C |
| Evaporation Rate: | No data available. |
| Odor Threshold: | ND |
| Solubility: | Complete; 100% |
| Partition Coefficient: n-octanol in water: | No data available. |
| VOC % by weight: | 0.00 |
| Molecular Weight: | 58.08 |

10. STABILITY AND REACTIVITY

| | |
|--|--------------------------------------|
| Stability: | Stable under normal conditions. |
| Conditions to Avoid: | No data available. |
| Materials to Avoid / Chemical Incompatibility: | Strong oxidizing agents Strong acids |
| Hazardous Decomposition Products: | Carbon dioxide Carbon monoxide |

11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Routes of Entry: | Inhalation, Skin Contact, Eye Contact, Ingestion |
| Target Organs Potentially Affected By Exposure: | Eyes, Central nervous system stimulation, Respiratory Tract, Skin |
| Chemical Interactions That Change Toxicity: | None Known |

Immediate (Acute) Health Effects by Route of Exposure:

| | |
|------------------------|---|
| Inhalation Irritation: | Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. |
| Skin Contact: | Can cause minor skin irritation, defatting, and dermatitis. |
| Eye Contact: | Can cause minor irritation, tearing and reddening. |
| Ingestion Irritation: | May be harmful if swallowed. |
| Ingestion Toxicity: | Harmful if swallowed. May cause systemic poisoning. |

Long-Term (Chronic) Health Effects:

| | |
|--|---|
| Carcinogenicity: | No data. |
| Reproductive and Developmental Toxicity: | No data available to indicate product or any components present at greater than 0.1% may cause birth defects. |

| | | | |
|--------------------|--|--|--|
| No data available. | | | |
|--------------------|--|--|--|

15. REGULATORY INFORMATION

United States:

| Chemical Name | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
|---------------|---------|--------|----------|--------------|------|
| Acetone | 67-64-1 | X | - | - | X |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|---------|------------|---------------|--------------|------------|
| Acetone | 67-64-1 | X | X | X | X |

16. OTHER INFORMATION

Prior Version Date: 10/23/14

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Bonner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com



Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS 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.

atalog No. : 32011 Lot No.: A092005
 Description : Aroclor® 1254 Standard
Aroclor 1254 1000µg/mL, Hexane, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Production Date : February 2019 Storage: 25°C nominal
 Packaging : This product contains PCB's

CERTIFIED VALUES

| Material Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.: K=2) | | | |
|----------------|------------|--------------------------------|---|---------|-------|-------------|
| Aroclor 1254 | | 1,000.0 µg/mL | +/- | 5.8686 | µg/mL | Gravimetric |
| CAS # | 11097-69-1 | | +/- | 20.8758 | µg/mL | Unstressed |
| Purity | 99% | | +/- | 34.3670 | µg/mL | Stressed |

Solvent: Hexane
 CAS # 110-54-3
 Purity 99%

P 3936 - P 3937
 5/13/13

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

1. IDENTIFICATION

Catalog Number / Product Name: 32409, 32409-5XX, & 32509 / Aroclor 1262 Standard
Company: Restek Corporation
Address: 110 Benner Circle
Belleville, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 800-356-1688
Revision Number: 6
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Aspiration Hazard Category 1
Flammable Liquid Category 2
Skin Corrosion/Irritation Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Hazardous to the aquatic environment - Chronic Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Flame
Health Hazard
Environment
Danger

GHS Signal Word:

GHS Hazard:

H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precautions:

Safety Precautions:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands and skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Carbon dioxide, Carbon monoxide

Hazardous Combustion Products:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
|---------------|------------|-------------------------|------------|---------------|---|
| hexane | 110-54-3 | 1100 ppm IDLH (10% LEL) | 1000 ppm | 50 ppm TWA | 500 ppm TWA; 1800 mg/m ³ TWA |
| arochlor 1262 | 37324-23-5 | ND | | No TLV | No data available. |

United Kingdom:

| Chemical Name | CAS No. | EINEC No. | WEL-STEL | WEL-TWA |
|---------------|------------|-----------|---|--------------------------------------|
| hexane | 110-54-3 | 203-777-6 | 60 ppm STEL (calculated); 216 mg/m ³ STEL (calculated) | 20 ppm TWA; 72 mg/m ³ TWA |
| arochlor 1262 | 37324-23-5 | | No data available. | No data available. |

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.
Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------|----------------------------------|
| Odor: | Mild |
| pH: | No data available. |
| Vapor Density: | 2.97 (air = 1) |
| Melting Point: | -95 °C Melting Point |
| Flash Point: | -8 |
| Flammability: | Highly Flammable |
| Specific Gravity: | 0.672 g/cm ³ at 15 °C |
| Evaporation Rate: | No data available. |
| Odor Threshold: | No data available. |
| Solubility: | Negligible; 0-1% |

No data.
No data.
No data.

Group 1
Group 2A
Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

Marine Pollutant: No

15. REGULATORY INFORMATION

| United States: | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
|----------------|------------|--------|----------|--------------|------|
| hexane | 110-54-3 | X | X | - | X |
| arochlor 1262 | 37324-23-5 | - | - | - | - |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|------------|------------|---------------|--------------|------------|
| hexane | 110-54-3 | X | X | X | - |
| arochlor 1262 | 37324-23-5 | - | - | - | - |

EU Directives Classification:

Hazard Symbols:



Risk Phrases: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
R11 - Highly flammable

Safety Phrases: S2:Keep out of reach of children



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 MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32410 **Lot No.:** A091468
Description : Aroclor® 1268 Standard
Aroclor 1268 Std 1000µg/mL, 1mL/ampul, Hexane
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 2019 **Storage:** 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|-----------------|---|-----------------------------|--------------------------------------|-------|-------------|
| 1 | Aroclor 1268 CAS # 11100-14-4 Purity ---% | 1,000.0 µg/mL | +/- 5.9397 | µg/mL | Gravimetric |
| | | | +/- 20.8959 | µg/mL | Unstressed |
| | | | +/- 34.3792 | µg/mL | Stressed |
| Solvent: | Hexane CAS # 110-54-3 Purity 99% | | | | |

P3940-3941

I Certified Reference Material Notes

Expiration Notes:

Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.

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.

General 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.

Uncertainty Value Notes:

The uncertainties are determined in accordance with ISO Guides 34 and 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:

$$U_{\text{combined stressed}} = k \sqrt{U_{\text{gravimetric}}^2 + U_{\text{homogeneity}}^2 + U_{\text{storage stability}}^2 + U_{\text{shipping stability}}^2}$$

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 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) | < 25°C | ≥ 25°C up to 7 days |

Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.

The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Preparation 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.

Storage Notes:

Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.

If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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 MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32409 **Lot No.:** A092660
Description : Aroclor® 1262 Standard
Aroclor 1262 Std 1000µg/mL, 1mL/ampul, Hexane
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 2019 **Storage:** 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.: K=2) | | |
|---------------|--|-----------------------------|--------------------------------------|-------|-------------|
| 1 | Aroclor 1262 CAS # 37324-23-5 Purity ----% | 1,000.0 µg/mL | +/- 5.9397 | µg/mL | Gravimetric |
| | | | +/- 20.8959 | µg/mL | Unstressed |
| | | | +/- 34.3792 | µg/mL | Stressed |

Solvent: Hexane
 CAS # 110-54-3
 Purity 99%

p 3945 - p 3946
~~p 3938 - p 3939~~ in 5/10/13
 5/13/13

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- 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/ μ 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31640, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

1. IDENTIFICATION

Catalog Number / Product Name: 32410, 32410-5XX, & 32510 / Aroclor 1268 Standard
Company: Restek Corporation
Address: 110 Benner Circle
Bellefonte, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 800-356-1688
Revision Number: 7
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Aspiration Hazard Category 1
Flammable Liquid Category 2
Skin Corrosion/Irritation Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Hazardous to the aquatic environment - Chronic Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Flame
Health Hazard
Environment
Danger

GHS Signal Word:

GHS Hazard:

H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precautions:

Safety Precautions:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands and skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Carbon dioxide, Carbon monoxide

Hazardous Combustion Products:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| United States: | | | | | |
|------------------------|------------|-------------------------|---|--------------------------------------|---|
| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
| hexane | 110-54-3 | 1100 ppm IDLH (10% LEL) | 1000 ppm | 50 ppm TWA | 500 ppm TWA; 1800 mg/m ³ TWA |
| aroclor® 1268 | 11100-14-4 | ND | | No TLV | No data available. |
| United Kingdom: | | | | | |
| Chemical Name | CAS No. | EINEC No. | WEL-STEL | WEL-TWA | |
| hexane | 110-54-3 | 203-777-6 | 60 ppm STEL (calculated); 216 mg/m ³ STEL (calculated) | 20 ppm TWA; 72 mg/m ³ TWA | |
| aroclor® 1268 | 11100-14-4 | | No data available. | No data available. | |

Personal Protection: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Engineering Measures: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respiratory Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Eye Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

Skin Protection:

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Mild

pH: No data available.

Vapor Density: 2.97 (air = 1)

Melting Point: -95 °C Melting Point

Flash Point: -8

Flammability: Highly Flammable

Specific Gravity: 0.672 g/cm³ at 15 °C

Evaporation Rate: No data available.

Odor Threshold: No data available.

Solubility: Negligible; 0-1%

No data.
No data.
No data.

Group 1
Group 2A
Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

Marine Pollutant: No

15. REGULATORY INFORMATION

| United States: | | | | | |
|----------------|------------|--------|----------|--------------|------|
| Chemical Name | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
| hexane | 110-54-3 | X | X | - | X |
| aroclor® 1268 | 11100-14-4 | - | - | - | - |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|------------|------------|---------------|--------------|------------|
| hexane | 110-54-3 | X | X | X | - |
| aroclor® 1268 | 11100-14-4 | - | - | - | - |

EU Directives Classification:

Hazard Symbols:



Risk Phrases: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
R11 - Highly flammable

Safety Phrases: S2: Keep out of reach of children



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. : 32010 **Lot No.:** A0125373

Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L. : K=2) | | | |
|---------------|---|-----------------------------|---------------------------------------|-------|-------------|--|
| 1 | Aroclor 1248 CAS # 12672-29-6 Purity —% (Lot 07) | 1,000.5 µg/mL | +/- 5.8715 | µg/mL | Gravimetric | |
| | | | +/- 31.7098 | µg/mL | Unstressed | |
| | | | +/- 41.4236 | µg/mL | Stressed | |

Solvent: Hexane
CAS # 110-54-3
Purity 99%

26715
6
26717 Sm
9/18/17

PCI SCIENTIFIC SUPPLY, INC.

41 PLYMOUTH STREET

FAIRFIELD, NJ 07004

P# (973) 244-9002

F# (973) 244-9448

E 2519

CERTIFICATE OF ANALYSIS

| | | | |
|-------------------------------|--|----------------------|-------------------------------------|
| PRODUCT : | SODIUM SULFATE CRYSTALS ANHYDROUS | | |
| QUALITY : | ACS (CODE RMB3375) | FORMULA : | Na₂SO₄ |
| SPECIFICATION NUMBER : | 6399 | RELEASE DATE: | NOV/30/2017 |
| LOT NUMBER : | 743502 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|--|----------------|-------------|
| Assay (Na ₂ SO ₄) | Min. 99.0 % | 99.4 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 5.8 |
| Insoluble matter | Max. 0.01 % | 0.007 % |
| Loss on ignition | Max. 0.5 % | 0.1 % |
| Chloride (Cl) | Max. 0.001 % | <0.001 % |
| Nitrogen compounds (as N) | Max. 5 ppm | <5 ppm |
| Phosphate (PO ₄) | Max. 0.001 % | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001 % | <0.001 % |
| Calcium (Ca) | Max. 0.01 % | 0.001 % |
| Magnesium (Mg) | Max. 0.005 % | 0.0002 % |
| Potassium (K) | Max. 0.008 % | 0.002 % |
| 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 % | 0.0 % |
| Retained on US Standard No. 60 sieve | Min. 94 % | 98.1 % |
| Through US Standard No. 60 sieve | Max. 5 % | 1.8 % |
| Through US Standard No. 100 sieve | Max. 10 % | 0.0 % |



QC: PhC Irma Belmares

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 0000179319
Manufactured Date: 2017/06/14
Expiration Date: 2020/06/13

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.1 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ 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 | 5 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2482



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Pune, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Acetone
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



Material No.: 9254-03
 Batch No.: 0000179319
 Manufactured Date: 2017/06/14
 Expiration Date: 2020/06/13

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.1 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ 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 | 5 |

For Laboratory, Research or Manufacturing Use
 MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
 Packaging Site: Paris Mfg Ctr & DC

E 2524

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panaji, India 9001:2008

Jamie Ethier
 Vice President Global Quality

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Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 0000196203
Manufactured Date: 2018/02/06
Expiration Date: 2021/02/05
Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.3 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ O) | <= 0.5 % | 0.3 |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | 2 |
| 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: US
Packaging Site: Phillipsburg Mfg Ctr & DC

E 2542

ISO Phillipsburg, NJ 9001:2008, 14001:2004, F55C 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panaji, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600

Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 0000209662
Manufactured Date: 2018/08/28
Expiration Date: 2019/11/27
Revision No: 1

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 | 2 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water) | >= 99.5 % | 99.8 |
| Assay (as n-Hexane) (by GC, corrected for water) | >= 95 % | 98 |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 |
| Substances Darkened by H ₂ SO ₄ | Passes Test | PT |
| Water (by KF, coulometric) | <= 0.05 % | < 0.01 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

E 2559

ISO

Phillipsburg, NJ 9001:2015, FS5C22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2009
Dehradun, India, 9001:2008, 14001:2004, 13486:2003
Mumbai, India, 9001:2015, 17026:2005
Panaji, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

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

830

Acetone
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



Material No.: 9254-03
 Batch No.: 0000196203
 Manufactured Date: 2018/02/06
 Expiration Date: 2021/02/05
 Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.3 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ O) | <= 0.5 % | 0.3 |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | 2 |
| 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: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

E 2563

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FS5C 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panoli, India 9001:2008

Jamie Ethier
 Vice President Global Quality

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3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32453 Lot No.: A0131432

Description : SOM01.1 Pesticide Surrogate Standard
Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : January 31, 2024 Storage: 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | | |
|---------------|-----------------------------------|-----------------------------|--------------------------------------|--------|-------|-------------|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 100.0 µg/mL | +/- | 0.7088 | µg/mL | Gravimetric |
| | CAS # 877-09-8 (Lot 0052481) | | +/- | 3.1930 | µg/mL | Unstressed |
| | Purity 98% | | +/- | 4.1577 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 201.0 µg/mL | +/- | 1.4253 | µg/mL | Gravimetric |
| | CAS # 2051-24-3 (Lot ER071509-01) | | +/- | 6.4205 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 8.3603 | µg/mL | Stressed |

Solvent: Acetone
CAS # 67-64-1
Purity 99%

P7712



P7716

08/16/18

E-1

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

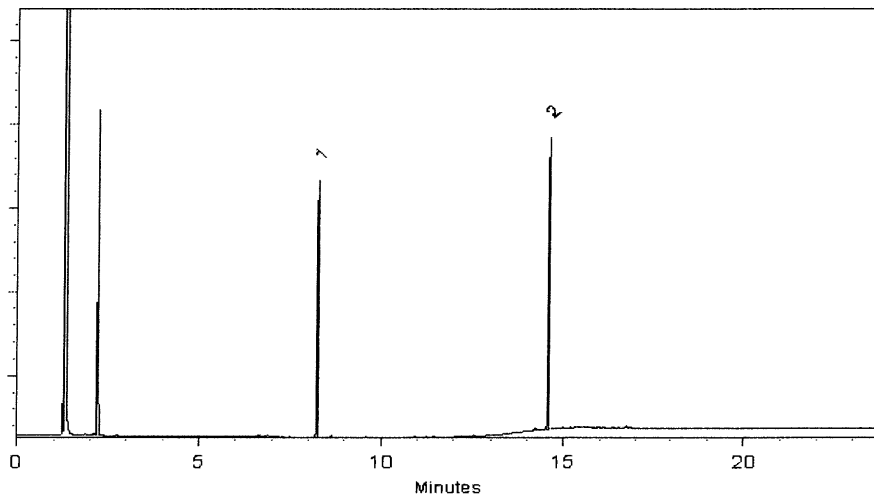
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

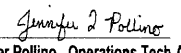
Det. Type:
FID



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.


Larry J. Moore - Mix Technician

Date Mixed: 06-Oct-2017 Balance: B707717271


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Oct-2017

Manufactured under Restek's ISO 9001:2008
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/ μ 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|---------------|----------------|-------------------|----------|--------|
| 1 | AIBLK82 | PR034706.D | 17 Dec 2018 14:52 | SM\SJ | Ok |
| 2 | AR1660ICC100 | PR034707.D | 17 Dec 2018 15:11 | SM\SJ | Ok |
| 3 | AR1660ICC200 | PR034708.D | 17 Dec 2018 15:25 | SM\SJ | Ok |
| 4 | AR1660ICC400 | PR034709.D | 17 Dec 2018 15:40 | SM\SJ | Ok |
| 5 | AR1660ICC800 | PR034710.D | 17 Dec 2018 15:54 | SM\SJ | Ok |
| 6 | AR1660ICC1600 | PR034711.D | 17 Dec 2018 16:09 | SM\SJ | Ok |
| 7 | AR1221ICC100 | PR034712.D | 17 Dec 2018 16:23 | SM\SJ | Ok |
| 8 | AR1232ICC100 | PR034713.D | 17 Dec 2018 16:37 | SM\SJ | Ok |
| 9 | AR1242ICC100 | PR034714.D | 17 Dec 2018 16:52 | SM\SJ | Ok |
| 10 | AR1242ICC200 | PR034715.D | 17 Dec 2018 17:06 | SM\SJ | Ok |
| 11 | AR1242ICC400 | PR034716.D | 17 Dec 2018 17:21 | SM\SJ | Ok |
| 12 | AR1242ICC800 | PR034717.D | 17 Dec 2018 17:35 | SM\SJ | Ok |
| 13 | AR1242ICC1600 | PR034718.D | 17 Dec 2018 17:50 | SM\SJ | Ok |
| 14 | AR1248ICC100 | PR034719.D | 17 Dec 2018 18:04 | SM\SJ | Ok |
| 15 | AR1248ICC200 | PR034720.D | 17 Dec 2018 18:19 | SM\SJ | Ok |
| 16 | AR1248ICC400 | PR034721.D | 17 Dec 2018 18:33 | SM\SJ | Ok |
| 17 | AR1248ICC800 | PR034722.D | 17 Dec 2018 18:48 | SM\SJ | Ok |
| 18 | AR1248ICC1600 | PR034723.D | 17 Dec 2018 19:02 | SM\SJ | Ok |
| 19 | AR1254ICC100 | PR034724.D | 17 Dec 2018 19:16 | SM\SJ | Ok |
| 20 | AR1254ICC200 | PR034725.D | 17 Dec 2018 19:31 | SM\SJ | Ok |
| 21 | AR1254ICC400 | PR034726.D | 17 Dec 2018 19:45 | SM\SJ | Ok |
| 22 | AR1254ICC800 | PR034727.D | 17 Dec 2018 20:00 | SM\SJ | Ok |
| 23 | AR1254ICC1600 | PR034728.D | 17 Dec 2018 20:14 | SM\SJ | Ok |
| 24 | AR1262ICC100 | PR034729.D | 17 Dec 2018 20:29 | SM\SJ | Ok |
| 25 | AR1268ICC100 | PR034730.D | 17 Dec 2018 20:43 | SM\SJ | Ok |
| 26 | AIBLK83 | PR034731.D | 17 Dec 2018 20:58 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|--------|
| 27 | AR1660CCC400 | PR034732.D | 17 Dec 2018 21:12 | SM\SJ | Ok |
| 28 | AR1242CCC400 | PR034733.D | 17 Dec 2018 21:27 | SM\SJ | Ok |
| 29 | AR1248CCC400 | PR034734.D | 17 Dec 2018 21:41 | SM\SJ | Ok |
| 30 | AR1254CCC400 | PR034735.D | 17 Dec 2018 21:56 | SM\SJ | Ok |
| 31 | PB115739BL | PR034736.D | 17 Dec 2018 22:10 | SM\SJ | Ok |
| 32 | PB115739BS | PR034737.D | 17 Dec 2018 22:25 | SM\SJ | Ok |
| 33 | J6415-01 | PR034738.D | 17 Dec 2018 22:39 | SM\SJ | Not Ok |
| 34 | J6415-02 | PR034739.D | 17 Dec 2018 22:53 | SM\SJ | Not Ok |
| 35 | J6415-03 | PR034740.D | 17 Dec 2018 23:08 | SM\SJ | Not Ok |
| 36 | J6415-04 | PR034741.D | 17 Dec 2018 23:22 | SM\SJ | Not Ok |
| 37 | J6415-05 | PR034742.D | 17 Dec 2018 23:37 | SM\SJ | Not Ok |
| 38 | J6415-06 | PR034743.D | 17 Dec 2018 23:51 | SM\SJ | Not Ok |
| 39 | J6415-07MS | PR034744.D | 18 Dec 2018 00:06 | SM\SJ | Not Ok |
| 40 | J6415-08MSD | PR034745.D | 18 Dec 2018 00:20 | SM\SJ | Not Ok |
| 41 | J6415-09 | PR034746.D | 18 Dec 2018 00:35 | SM\SJ | Not Ok |
| 42 | J6415-10 | PR034747.D | 18 Dec 2018 00:49 | SM\SJ | Not Ok |
| 43 | J6415-11 | PR034748.D | 18 Dec 2018 01:04 | SM\SJ | Not Ok |
| 44 | J6415-12 | PR034749.D | 18 Dec 2018 01:18 | SM\SJ | Not Ok |
| 45 | J6415-13 | PR034750.D | 18 Dec 2018 01:33 | SM\SJ | Not Ok |
| 46 | J6415-14 | PR034751.D | 18 Dec 2018 01:47 | SM\SJ | Not Ok |
| 47 | J6415-15 | PR034752.D | 18 Dec 2018 02:01 | SM\SJ | Not Ok |
| 48 | J6415-16 | PR034753.D | 18 Dec 2018 02:16 | SM\SJ | Not Ok |
| 49 | J6415-17 | PR034754.D | 18 Dec 2018 02:30 | SM\SJ | Not Ok |
| 50 | J6415-18 | PR034755.D | 18 Dec 2018 02:45 | SM\SJ | Not Ok |
| 51 | J6415-19 | PR034756.D | 18 Dec 2018 02:59 | SM\SJ | Not Ok |
| 52 | J6415-20 | PR034757.D | 18 Dec 2018 03:14 | SM\SJ | Not Ok |
| 53 | J6415-21 | PR034758.D | 18 Dec 2018 03:28 | SM\SJ | Not Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|--------|
| 54 | J6415-22 | PR034759.D | 18 Dec 2018 03:43 | SM\SJ | Not Ok |
| 55 | AIBLK84 | PR034760.D | 18 Dec 2018 03:57 | SM\SJ | Ok |
| 56 | AR1660CCC400 | PR034761.D | 18 Dec 2018 04:11 | SM\SJ | Ok |
| 57 | AR1242CCC400 | PR034762.D | 18 Dec 2018 04:26 | SM\SJ | Ok |
| 58 | AR1248CCC400 | PR034763.D | 18 Dec 2018 04:40 | SM\SJ | Ok |
| 59 | AR1254CCC400 | PR034764.D | 18 Dec 2018 04:55 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|--------------|----------------|-------------------|----------|----------|
| 1 | HEXANE | PR035049.D | 28 Dec 2018 02:29 | SM\SJ | Ok |
| 2 | AIBLK51 | PR035050.D | 28 Dec 2018 02:43 | SM\SJ | Ok,M |
| 3 | AR1660CCC400 | PR035051.D | 28 Dec 2018 03:03 | SM\SJ | Ok,M |
| 4 | AR1248CCC400 | PR035052.D | 28 Dec 2018 03:17 | SM\SJ | Ok,M |
| 5 | AR1254CCC400 | PR035053.D | 28 Dec 2018 03:31 | SM\SJ | Not Ok |
| 6 | J6428-05 | PR035054.D | 28 Dec 2018 04:18 | SM\SJ | Dilution |
| 7 | J6428-06 | PR035055.D | 28 Dec 2018 04:32 | SM\SJ | Dilution |
| 8 | J6428-07 | PR035056.D | 28 Dec 2018 04:46 | SM\SJ | Dilution |
| 9 | J6428-10MSD | PR035057.D | 28 Dec 2018 05:01 | SM\SJ | Not Ok |
| 10 | J6428-11 | PR035058.D | 28 Dec 2018 05:15 | SM\SJ | Dilution |
| 11 | J6428-12 | PR035059.D | 28 Dec 2018 05:30 | SM\SJ | Dilution |
| 12 | J6428-13 | PR035060.D | 28 Dec 2018 05:44 | SM\SJ | Dilution |
| 13 | J6428-15 | PR035061.D | 28 Dec 2018 05:58 | SM\SJ | Dilution |
| 14 | J6428-16 | PR035062.D | 28 Dec 2018 06:13 | SM\SJ | Dilution |
| 15 | J6428-17 | PR035063.D | 28 Dec 2018 06:27 | SM\SJ | Not Ok |
| 16 | J6428-02DL | PR035064.D | 28 Dec 2018 06:42 | SM\SJ | Dilution |
| 17 | J6428-02DL2 | PR035065.D | 28 Dec 2018 06:56 | SM\SJ | Ok,M |
| 18 | J6428-03DL | PR035066.D | 28 Dec 2018 07:11 | SM\SJ | Not Ok |
| 19 | J6428-04DL | PR035067.D | 28 Dec 2018 07:25 | SM\SJ | Dilution |
| 20 | J6428-04DL2 | PR035068.D | 28 Dec 2018 07:40 | SM\SJ | Not Ok |
| 21 | AIBLK52 | PR035069.D | 28 Dec 2018 07:54 | SM\SJ | Ok |
| 22 | AR1660CCC400 | PR035070.D | 28 Dec 2018 08:11 | SM\SJ | Ok |
| 23 | AR1248CCC400 | PR035071.D | 28 Dec 2018 09:16 | SM\SJ | Ok |
| 24 | AR1254CCC400 | PR035072.D | 28 Dec 2018 09:47 | SM\SJ | Ok |
| 25 | J6428-17 | PR035073.D | 28 Dec 2018 10:02 | SM\SJ | Dilution |
| 26 | PB115740BL | PR035074.D | 28 Dec 2018 10:17 | SM\SJ | 838 |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|----------|
| 27 | PB115740BS | PR035075.D | 28 Dec 2018 10:31 | SM\SJ | Not Ok |
| 28 | J6428-17DL | PR035076.D | 28 Dec 2018 10:46 | SM\SJ | Dilution |
| 29 | J6428-17DL2 | PR035077.D | 28 Dec 2018 11:00 | SM\SJ | Ok,M |
| 30 | J6428-01 | PR035078.D | 28 Dec 2018 11:14 | SM\SJ | Ok |
| 31 | J6428-08 | PR035079.D | 28 Dec 2018 11:29 | SM\SJ | Dilution |
| 32 | J6428-09MS | PR035080.D | 28 Dec 2018 11:43 | SM\SJ | Ok |
| 33 | J6428-10MSD | PR035081.D | 28 Dec 2018 11:58 | SM\SJ | Ok |
| 34 | J6432-13 | PR035082.D | 28 Dec 2018 12:12 | SM\SJ | Ok,M |
| 35 | J6432-02DL | PR035083.D | 28 Dec 2018 12:27 | SM\SJ | Ok |
| 36 | J6432-13 | PR035084.D | 28 Dec 2018 12:41 | SM\SJ | Not Ok |
| 37 | J6432-09DL | PR035085.D | 28 Dec 2018 12:56 | SM\SJ | Ok |
| 38 | J6432-16DL | PR035086.D | 28 Dec 2018 13:10 | SM\SJ | Ok,M |
| 39 | J6432-19DL | PR035087.D | 28 Dec 2018 13:24 | SM\SJ | Ok,M |
| 40 | J6432-01DL | PR035088.D | 28 Dec 2018 13:39 | SM\SJ | Dilution |
| 41 | J6432-01DL2 | PR035089.D | 28 Dec 2018 13:53 | SM\SJ | Ok |
| 42 | J6432-07DL | PR035090.D | 28 Dec 2018 14:08 | SM\SJ | Dilution |
| 43 | J6432-07DL2 | PR035091.D | 28 Dec 2018 14:22 | SM\SJ | Ok,M |
| 44 | J6432-08DL | PR035092.D | 28 Dec 2018 14:37 | SM\SJ | Dilution |
| 45 | J6432-08DL2 | PR035093.D | 28 Dec 2018 14:51 | SM\SJ | Ok |
| 46 | AIBLK53 | PR035094.D | 28 Dec 2018 15:22 | SM\SJ | Ok |
| 47 | AR1660CCC400 | PR035095.D | 28 Dec 2018 16:09 | SM\SJ | Ok |
| 48 | AR1248CCC400 | PR035096.D | 28 Dec 2018 16:40 | SM\SJ | Ok |
| 49 | AR1254CCC400 | PR035097.D | 28 Dec 2018 17:10 | SM\SJ | Ok,M |
| 50 | J6428-14 | PR035098.D | 28 Dec 2018 17:25 | SM\SJ | Dilution |
| 51 | J6428-03 | PR035099.D | 28 Dec 2018 17:39 | SM\SJ | Ok,M |
| 52 | J6428-03DL | PR035100.D | 28 Dec 2018 17:54 | SM\SJ | Not Ok |
| 53 | J6428-02 | PR035101.D | 28 Dec 2018 18:08 | SM\SJ | Dilution |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sample ID | File Name | Time | Operator | Result |
|-----------|--------------|------------|-------------------|----------------|
| 54 | J6428-04 | PR035102.D | 28 Dec 2018 18:22 | SM\SJ Dilution |
| 55 | J6428-04DL2 | PR035103.D | 28 Dec 2018 18:37 | SM\SJ Ok |
| 56 | J6428-05DL | PR035104.D | 28 Dec 2018 18:51 | SM\SJ Dilution |
| 57 | J6428-05DL2 | PR035105.D | 28 Dec 2018 19:06 | SM\SJ Ok,M |
| 58 | J6428-07DL | PR035106.D | 28 Dec 2018 19:20 | SM\SJ Not Ok |
| 59 | J6428-07DL | PR035107.D | 28 Dec 2018 19:35 | SM\SJ Ok |
| 60 | J6428-07DL2 | PR035108.D | 28 Dec 2018 19:49 | SM\SJ Not Ok |
| 61 | J6428-08DL | PR035109.D | 28 Dec 2018 20:04 | SM\SJ Dilution |
| 62 | J6428-08DL2 | PR035110.D | 28 Dec 2018 20:18 | SM\SJ Ok,M |
| 63 | J6428-11DL | PR035111.D | 28 Dec 2018 20:32 | SM\SJ Dilution |
| 64 | J6428-11DL2 | PR035112.D | 28 Dec 2018 20:47 | SM\SJ Ok,M |
| 65 | J6428-11DL2 | PR035113.D | 28 Dec 2018 21:01 | SM\SJ Not Ok |
| 66 | J6428-12DL | PR035114.D | 28 Dec 2018 21:16 | SM\SJ Not Ok |
| 67 | J6428-12DL | PR035115.D | 28 Dec 2018 21:30 | SM\SJ Not Ok |
| 68 | J6428-12DL2 | PR035116.D | 28 Dec 2018 21:45 | SM\SJ Not Ok |
| 69 | J6428-13DL | PR035117.D | 28 Dec 2018 21:59 | SM\SJ Ok,M |
| 70 | J6428-14DL | PR035118.D | 28 Dec 2018 22:13 | SM\SJ Dilution |
| 71 | J6428-14DL2 | PR035119.D | 28 Dec 2018 22:28 | SM\SJ Ok |
| 72 | J6428-15DL | PR035120.D | 28 Dec 2018 22:42 | SM\SJ Dilution |
| 73 | J6428-15DL2 | PR035121.D | 28 Dec 2018 22:57 | SM\SJ Ok,M |
| 74 | J6428-16DL | PR035122.D | 28 Dec 2018 23:11 | SM\SJ Not Ok |
| 75 | J6428-16DL | PR035123.D | 28 Dec 2018 23:26 | SM\SJ Ok,M |
| 76 | AIBLK54 | PR035124.D | 29 Dec 2018 00:09 | SM\SJ Ok |
| 77 | AR1660CCC400 | PR035125.D | 29 Dec 2018 00:23 | SM\SJ Ok |
| 78 | AR1248CCC400 | PR035126.D | 29 Dec 2018 00:38 | SM\SJ Ok,M |
| 79 | AR1254CCC400 | PR035127.D | 29 Dec 2018 00:52 | SM\SJ Ok,M |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122918

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | Sohil | Review On | 12/31/2018 10:59:39 AM |
| Supervise By | mohammad | Supervise On | 12/31/2018 11:11:54 AM |
| SubDirectory | PR122918 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|--------------|----------------|-------------------|----------|----------|
| 1 | AIBLK55 | PR035128.D | 29 Dec 2018 01:11 | SM\SJ | Ok,M |
| 2 | AR1660CCC400 | PR035129.D | 29 Dec 2018 01:26 | SM\SJ | Ok,M |
| 3 | J6439-08 | PR035130.D | 29 Dec 2018 02:41 | SM\SJ | Ok |
| 4 | J6439-09 | PR035131.D | 29 Dec 2018 02:55 | SM\SJ | Ok |
| 5 | J6439-13 | PR035132.D | 29 Dec 2018 03:10 | SM\SJ | Ok |
| 6 | J6439-14 | PR035133.D | 29 Dec 2018 03:24 | SM\SJ | Ok |
| 7 | J6532-08 | PR035134.D | 29 Dec 2018 03:39 | SM\SJ | Ok |
| 8 | J6532-09 | PR035135.D | 29 Dec 2018 03:53 | SM\SJ | Ok |
| 9 | J6532-13 | PR035136.D | 29 Dec 2018 04:08 | SM\SJ | Ok |
| 10 | J6532-14 | PR035137.D | 29 Dec 2018 04:22 | SM\SJ | Ok |
| 11 | PB115980BL | PR035138.D | 29 Dec 2018 04:37 | SM\SJ | Ok |
| 12 | PB115980BS | PR035139.D | 29 Dec 2018 04:51 | SM\SJ | Ok,M |
| 13 | J6536-02 | PR035140.D | 29 Dec 2018 05:05 | SM\SJ | Ok,M |
| 14 | J6536-03MS | PR035141.D | 29 Dec 2018 05:20 | SM\SJ | Ok,M |
| 15 | J6536-04MSD | PR035142.D | 29 Dec 2018 05:34 | SM\SJ | Ok,M |
| 16 | PB115948BL | PR035143.D | 29 Dec 2018 05:49 | SM\SJ | Ok |
| 17 | PB115740BS | PR035144.D | 29 Dec 2018 06:03 | SM\SJ | Ok |
| 18 | J6441-01 | PR035145.D | 29 Dec 2018 06:18 | SM\SJ | Ok,M |
| 19 | J6441-05 | PR035146.D | 29 Dec 2018 06:47 | SM\SJ | Dilution |
| 20 | J6441-08 | PR035147.D | 29 Dec 2018 07:01 | SM\SJ | Ok |
| 21 | J6441-09 | PR035148.D | 29 Dec 2018 07:15 | SM\SJ | Ok,M |
| 22 | J6441-10 | PR035149.D | 29 Dec 2018 07:44 | SM\SJ | Dilution |
| 23 | J6441-12MS | PR035150.D | 29 Dec 2018 07:59 | SM\SJ | Ok,M |
| 24 | J6441-13MSD | PR035151.D | 29 Dec 2018 08:13 | SM\SJ | Ok,M |
| 25 | J6510-01 | PR035152.D | 29 Dec 2018 08:28 | SM\SJ | Ok |
| 26 | J6510-02MS | PR035153.D | 29 Dec 2018 08:42 | SM\SJ | Ok,M |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122918

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | Sohil | Review On | 12/31/2018 10:59:39 AM |
| Supervise By | mohammad | Supervise On | 12/31/2018 11:11:54 AM |
| SubDirectory | PR122918 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

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|----|--------------|------------|-------------------|-------|----------|
| 27 | J6510-03MSD | PR035154.D | 29 Dec 2018 08:57 | SM\SJ | Ok,M |
| 28 | J6428-06DL | PR035155.D | 29 Dec 2018 09:12 | SM\SJ | Ok |
| 29 | J6428-12DL | PR035156.D | 29 Dec 2018 09:27 | SM\SJ | Dilution |
| 30 | J6428-12DL2 | PR035157.D | 29 Dec 2018 09:42 | SM\SJ | Ok |
| 31 | AIBLK56 | PR035158.D | 29 Dec 2018 12:19 | SM\SJ | Ok,M |
| 32 | AR1660CCC400 | PR035159.D | 29 Dec 2018 12:34 | SM\SJ | Ok,M |
| 33 | AR1248CCC400 | PR035160.D | 29 Dec 2018 13:10 | SM\SJ | Ok,M |
| 34 | AR1254CCC400 | PR035161.D | 29 Dec 2018 13:24 | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------|----------|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/IL.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|---------------|-----------|----------------|-------------------|---------|----------|--------|
| 1 | AIBLK82 | AIBLK82 | PR034706.D | 17 Dec 2018 14:52 | | SM\SJ | Ok |
| 2 | AR1660ICC100 | AR1660101 | PR034707.D | 17 Dec 2018 15:11 | | SM\SJ | Ok |
| 3 | AR1660ICC200 | AR1660201 | PR034708.D | 17 Dec 2018 15:25 | | SM\SJ | Ok |
| 4 | AR1660ICC400 | AR1660301 | PR034709.D | 17 Dec 2018 15:40 | | SM\SJ | Ok |
| 5 | AR1660ICC800 | AR1660401 | PR034710.D | 17 Dec 2018 15:54 | | SM\SJ | Ok |
| 6 | AR1660ICC1600 | AR1660501 | PR034711.D | 17 Dec 2018 16:09 | | SM\SJ | Ok |
| 7 | AR1221ICC100 | AR1221101 | PR034712.D | 17 Dec 2018 16:23 | | SM\SJ | Ok |
| 8 | AR1232ICC100 | AR1232201 | PR034713.D | 17 Dec 2018 16:37 | | SM\SJ | Ok |
| 9 | AR1242ICC100 | AR1242101 | PR034714.D | 17 Dec 2018 16:52 | | SM\SJ | Ok |
| 10 | AR1242ICC200 | AR1242201 | PR034715.D | 17 Dec 2018 17:06 | | SM\SJ | Ok |
| 11 | AR1242ICC400 | AR1242301 | PR034716.D | 17 Dec 2018 17:21 | | SM\SJ | Ok |
| 12 | AR1242ICC800 | AR1242401 | PR034717.D | 17 Dec 2018 17:35 | | SM\SJ | Ok |
| 13 | AR1242ICC1600 | AR1242501 | PR034718.D | 17 Dec 2018 17:50 | | SM\SJ | Ok |
| 14 | AR1248ICC100 | AR1248101 | PR034719.D | 17 Dec 2018 18:04 | | SM\SJ | Ok |
| 15 | AR1248ICC200 | AR1248201 | PR034720.D | 17 Dec 2018 18:19 | | SM\SJ | Ok |
| 16 | AR1248ICC400 | AR1248301 | PR034721.D | 17 Dec 2018 18:33 | | SM\SJ | Ok |
| 17 | AR1248ICC800 | AR1248401 | PR034722.D | 17 Dec 2018 18:48 | | SM\SJ | Ok |
| 18 | AR1248ICC1600 | AR1248501 | PR034723.D | 17 Dec 2018 19:02 | | SM\SJ | Ok |
| 19 | AR1254ICC100 | AR1254101 | PR034724.D | 17 Dec 2018 19:16 | | SM\SJ | Ok |
| 20 | AR1254ICC200 | AR1254201 | PR034725.D | 17 Dec 2018 19:31 | | SM\SJ | Ok |
| 21 | AR1254ICC400 | AR1254301 | PR034726.D | 17 Dec 2018 19:45 | | SM\SJ | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | | | |
|----|---------------|-----------|------------|-------------------|--|------|--------|
| 22 | AR1254ICC800 | AR1254401 | PR034727.D | 17 Dec 2018 20:00 | | SMSJ | Ok |
| 23 | AR1254ICC1600 | AR1254501 | PR034728.D | 17 Dec 2018 20:14 | | SMSJ | Ok |
| 24 | AR1262ICC100 | AR1262101 | PR034729.D | 17 Dec 2018 20:29 | | SMSJ | Ok |
| 25 | AR1268ICC100 | AR1268101 | PR034730.D | 17 Dec 2018 20:43 | | SMSJ | Ok |
| 26 | AIBLK83 | AIBLK83 | PR034731.D | 17 Dec 2018 20:58 | | SMSJ | Ok |
| 27 | AR1660CCC400 | AR1660316 | PR034732.D | 17 Dec 2018 21:12 | | SMSJ | Ok |
| 28 | AR1242CCC400 | AR1242316 | PR034733.D | 17 Dec 2018 21:27 | | SMSJ | Ok |
| 29 | AR1248CCC400 | AR1248316 | PR034734.D | 17 Dec 2018 21:41 | | SMSJ | Ok |
| 30 | AR1254CCC400 | AR1254316 | PR034735.D | 17 Dec 2018 21:56 | | SMSJ | Ok |
| 31 | PB115739BL | ABLK39 | PR034736.D | 17 Dec 2018 22:10 | | SMSJ | Ok |
| 32 | PB115739BS | ALCS39 | PR034737.D | 17 Dec 2018 22:25 | | SMSJ | Ok |
| 33 | J6415-01 | CB546 | PR034738.D | 17 Dec 2018 22:39 | | SMSJ | Not Ok |
| 34 | J6415-02 | CB547 | PR034739.D | 17 Dec 2018 22:53 | | SMSJ | Not Ok |
| 35 | J6415-03 | CB548 | PR034740.D | 17 Dec 2018 23:08 | | SMSJ | Not Ok |
| 36 | J6415-04 | CB549 | PR034741.D | 17 Dec 2018 23:22 | | SMSJ | Not Ok |
| 37 | J6415-05 | CB550 | PR034742.D | 17 Dec 2018 23:37 | | SMSJ | Not Ok |
| 38 | J6415-06 | CB551 | PR034743.D | 17 Dec 2018 23:51 | | SMSJ | Not Ok |
| 39 | J6415-07MS | CB551MS | PR034744.D | 18 Dec 2018 00:06 | | SMSJ | Not Ok |
| 40 | J6415-08MSD | CB551MSD | PR034745.D | 18 Dec 2018 00:20 | | SMSJ | Not Ok |
| 41 | J6415-09 | CB552 | PR034746.D | 18 Dec 2018 00:35 | | SMSJ | Not Ok |
| 42 | J6415-10 | CB553 | PR034747.D | 18 Dec 2018 00:49 | | SMSJ | Not Ok |
| 43 | J6415-11 | CB554 | PR034748.D | 18 Dec 2018 01:04 | | SMSJ | Not Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

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|----|--------------|-----------|------------|-------------------|--|-------|--------|
| 44 | J6415-12 | CB555 | PR034749.D | 18 Dec 2018 01:18 | | SM\SJ | Not Ok |
| 45 | J6415-13 | CB556 | PR034750.D | 18 Dec 2018 01:33 | | SM\SJ | Not Ok |
| 46 | J6415-14 | CB557 | PR034751.D | 18 Dec 2018 01:47 | | SM\SJ | Not Ok |
| 47 | J6415-15 | CB558 | PR034752.D | 18 Dec 2018 02:01 | | SM\SJ | Not Ok |
| 48 | J6415-16 | CB559 | PR034753.D | 18 Dec 2018 02:16 | | SM\SJ | Not Ok |
| 49 | J6415-17 | CB560 | PR034754.D | 18 Dec 2018 02:30 | | SM\SJ | Not Ok |
| 50 | J6415-18 | CB561 | PR034755.D | 18 Dec 2018 02:45 | | SM\SJ | Not Ok |
| 51 | J6415-19 | CB562 | PR034756.D | 18 Dec 2018 02:59 | | SM\SJ | Not Ok |
| 52 | J6415-20 | CB563 | PR034757.D | 18 Dec 2018 03:14 | | SM\SJ | Not Ok |
| 53 | J6415-21 | CB564 | PR034758.D | 18 Dec 2018 03:28 | | SM\SJ | Not Ok |
| 54 | J6415-22 | CB568 | PR034759.D | 18 Dec 2018 03:43 | | SM\SJ | Not Ok |
| 55 | AIBLK84 | AIBLK84 | PR034760.D | 18 Dec 2018 03:57 | | SM\SJ | Ok |
| 56 | AR1660CCC400 | AR1660317 | PR034761.D | 18 Dec 2018 04:11 | | SM\SJ | Ok |
| 57 | AR1242CCC400 | AR1242317 | PR034762.D | 18 Dec 2018 04:26 | | SM\SJ | Ok |
| 58 | AR1248CCC400 | AR1248317 | PR034763.D | 18 Dec 2018 04:40 | | SM\SJ | Ok |
| 59 | AR1254CCC400 | AR1254317 | PR034764.D | 18 Dec 2018 04:55 | | SM\SJ | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------|----------|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/IL.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|--------------|-----------|----------------|-------------------|---------------------------------|----------|----------|
| 1 | HEXANE | HEXANE | PR035049.D | 28 Dec 2018 02:29 | | SM\SJ | Ok |
| 2 | AIBLK51 | AIBLK51 | PR035050.D | 28 Dec 2018 02:43 | | SM\SJ | Ok,M |
| 3 | AR1660CCC400 | AR1660334 | PR035051.D | 28 Dec 2018 03:03 | | SM\SJ | Ok,M |
| 4 | AR1248CCC400 | AR1248334 | PR035052.D | 28 Dec 2018 03:17 | | SM\SJ | Ok,M |
| 5 | AR1254CCC400 | AR1254334 | PR035053.D | 28 Dec 2018 03:31 | failing high | SM\SJ | Not Ok |
| 6 | J6428-05 | A41T9 | PR035054.D | 28 Dec 2018 04:18 | AR1248 & AR1260 hits, need 10X | SM\SJ | Dilution |
| 7 | J6428-06 | A41W0 | PR035055.D | 28 Dec 2018 04:32 | AR1260 hits, need 5X | SM\SJ | Dilution |
| 8 | J6428-07 | A41W1 | PR035056.D | 28 Dec 2018 04:46 | AR1260 hits, need 10X | SM\SJ | Dilution |
| 9 | J6428-10MSD | A41W2MSD | PR035057.D | 28 Dec 2018 05:01 | need MS | SM\SJ | Not Ok |
| 10 | J6428-11 | A41W3 | PR035058.D | 28 Dec 2018 05:15 | AR1248 & AR1260 hits, need 5X | SM\SJ | Dilution |
| 11 | J6428-12 | A41W5 | PR035059.D | 28 Dec 2018 05:30 | AR1260 hits | SM\SJ | Dilution |
| 12 | J6428-13 | A41W6 | PR035060.D | 28 Dec 2018 05:44 | AR1260 hits, need 2X | SM\SJ | Dilution |
| 13 | J6428-15 | A41W8 | PR035061.D | 28 Dec 2018 05:58 | AR1248&AR1260 hits, need 10X | SM\SJ | Dilution |
| 14 | J6428-16 | A41W9 | PR035062.D | 28 Dec 2018 06:13 | AR1248 & AR1260 hits, need 5X | SM\SJ | Dilution |
| 15 | J6428-17 | A41Z3 | PR035063.D | 28 Dec 2018 06:27 | AR1254 & AR1260 hits,need 20X | SM\SJ | Not Ok |
| 16 | J6428-02DL | A41T5DL | PR035064.D | 28 Dec 2018 06:42 | AR1248 & AR1260 hits, need 50X | SM\SJ | Dilution |
| 17 | J6428-02DL2 | A41T5DL2 | PR035065.D | 28 Dec 2018 06:56 | AR1248 & AR1260 hits | SM\SJ | Ok,M |
| 18 | J6428-03DL | A41T7DL | PR035066.D | 28 Dec 2018 07:11 | AR1248 & AR1260 hits, | SM\SJ | Not Ok |
| 19 | J6428-04DL | A41T8DL | PR035067.D | 28 Dec 2018 07:25 | AR1248 & AR1260 hits, need 200X | SM\SJ | Dilution |
| | | | | | | | |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | | | | | |
|--------------------------|---|-------------------|------------------------|-------------------|---|-------|----------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM | | | | |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM | | | | |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method | | | | |
| STD. NAME | STD REF.# | | | | | | |
| Tune/Reschk | na | | | | | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | | | | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | | | | | |
| Internal Standard/PEM | na | | | | | | |
| ICV/I.BLK | | | | | | | |
| 20 | J6428-04DL2 | A41T8DL2 | PR035068.D | 28 Dec 2018 07:40 | AR1248 & AR1260 hits, need further dilution | SM\SJ | Not Ok |
| 21 | AIBLK52 | AIBLK52 | PR035069.D | 28 Dec 2018 07:54 | | SM\SJ | Ok |
| 22 | AR1660CCC400 | AR1660335 | PR035070.D | 28 Dec 2018 08:11 | | SM\SJ | Ok |
| 23 | AR1248CCC400 | AR1248335 | PR035071.D | 28 Dec 2018 09:16 | | SM\SJ | Ok |
| 24 | AR1254CCC400 | AR1254335 | PR035072.D | 28 Dec 2018 09:47 | | SM\SJ | Ok |
| 25 | J6428-17 | A41Z3 | PR035073.D | 28 Dec 2018 10:02 | AR1254 & AR1260 hits, need 2X | SM\SJ | Dilution |
| 26 | PB115740BL | ABLK40 | PR035074.D | 28 Dec 2018 10:17 | | SM\SJ | Ok |
| 27 | PB115740BS | ALCS40 | PR035075.D | 28 Dec 2018 10:31 | Recovery fail for AR1016. | SM\SJ | Not Ok |
| 28 | J6428-17DL | A41Z3DL | PR035076.D | 28 Dec 2018 10:46 | AR1254 & AR1260 hits, need further dilution | SM\SJ | Dilution |
| 29 | J6428-17DL2 | A41Z3DL2 | PR035077.D | 28 Dec 2018 11:00 | | SM\SJ | Ok,M |
| 30 | J6428-01 | A41T4 | PR035078.D | 28 Dec 2018 11:14 | | SM\SJ | Ok |
| 31 | J6428-08 | A41W2 | PR035079.D | 28 Dec 2018 11:29 | AR1260 hits, need 5X | SM\SJ | Dilution |
| 32 | J6428-09MS | A41W2MS | PR035080.D | 28 Dec 2018 11:43 | | SM\SJ | Ok |
| 33 | J6428-10MSD | A41W2MSD | PR035081.D | 28 Dec 2018 11:58 | | SM\SJ | Ok |
| 34 | J6432-13 | A41Z2 | PR035082.D | 28 Dec 2018 12:12 | AR1254 & AR1260 hits, | SM\SJ | Ok,M |
| 35 | J6432-02DL | A41X0DL | PR035083.D | 28 Dec 2018 12:27 | AR1260 Hit | SM\SJ | Ok |
| 36 | J6432-13 | A41Z2 | PR035084.D | 28 Dec 2018 12:41 | | SM\SJ | Not Ok |
| 37 | J6432-09DL | A41Y8DL | PR035085.D | 28 Dec 2018 12:56 | AR1260 hit | SM\SJ | Ok |
| 38 | J6432-16DL | A41Z7DL | PR035086.D | 28 Dec 2018 13:10 | AR1248+AR1260 hit | SM\SJ | Ok,M |
| 39 | J6432-19DL | A4200DL | PR035087.D | 28 Dec 2018 13:24 | AR1260 hit | SM\SJ | Ok,M |
| 40 | J6432-01DL | A41T3DL | PR035088.D | 28 Dec 2018 13:39 | AR1260 hit & Need further dilution | SM\SJ | Dilution |
| 41 | J6432-01DL2 | A41T3DL2 | PR035089.D | 28 Dec 2018 13:53 | AR1260 hit | SM\SJ | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | | | | | |
|--------------------------|---|-------------------|------------------------|-------------------|---------------------------------|-------|----------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM | | | | |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM | | | | |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method | | | | |
| STD. NAME | STD REF.# | | | | | | |
| Tune/Reschk | na | | | | | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | | | | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | | | | | |
| Internal Standard/PEM | na | | | | | | |
| ICV/I.BLK | | | | | | | |
| 42 | J6432-07DL | A41Y6DL | PR035090.D | 28 Dec 2018 14:08 | AR1260 hit & Need 20x | SM\SJ | Dilution |
| 43 | J6432-07DL2 | A41Y6DL2 | PR035091.D | 28 Dec 2018 14:22 | AR1260 hit | SM\SJ | Ok,M |
| 44 | J6432-08DL | A41Y7DL | PR035092.D | 28 Dec 2018 14:37 | AR1260 hit & Need 40x | SM\SJ | Dilution |
| 45 | J6432-08DL2 | A41Y7DL2 | PR035093.D | 28 Dec 2018 14:51 | AR1260 hit | SM\SJ | Ok |
| 46 | AIBLK53 | AIBLK53 | PR035094.D | 28 Dec 2018 15:22 | | SM\SJ | Ok |
| 47 | AR1660CCC400 | AR1660336 | PR035095.D | 28 Dec 2018 16:09 | | SM\SJ | Ok |
| 48 | AR1248CCC400 | AR1248336 | PR035096.D | 28 Dec 2018 16:40 | | SM\SJ | Ok |
| 49 | AR1254CCC400 | AR1254336 | PR035097.D | 28 Dec 2018 17:10 | | SM\SJ | Ok,M |
| 50 | J6428-14 | A41W7 | PR035098.D | 28 Dec 2018 17:25 | AR1260 hits, need 50X | SM\SJ | Dilution |
| 51 | J6428-03 | A41T7 | PR035099.D | 28 Dec 2018 17:39 | AR1260 AR1248 | SM\SJ | Ok,M |
| 52 | J6428-03DL | A41T7DL | PR035100.D | 28 Dec 2018 17:54 | not require | SM\SJ | Not Ok |
| 53 | J6428-02 | A41T5 | PR035101.D | 28 Dec 2018 18:08 | AR1248 & AR1260 hits, need 50X | SM\SJ | Dilution |
| 54 | J6428-04 | A41T8 | PR035102.D | 28 Dec 2018 18:22 | AR1248 & AR1260 hits, need 10X | SM\SJ | Dilution |
| 55 | J6428-04DL2 | A41T8DL2 | PR035103.D | 28 Dec 2018 18:37 | | SM\SJ | Ok |
| 56 | J6428-05DL | A41T9DL | PR035104.D | 28 Dec 2018 18:51 | AR1248 & AR1260 hits, need 100X | SM\SJ | Dilution |
| 57 | J6428-05DL2 | A41T9DL2 | PR035105.D | 28 Dec 2018 19:06 | | SM\SJ | Ok,M |
| 58 | J6428-07DL | A41W1DL | PR035106.D | 28 Dec 2018 19:20 | | SM\SJ | Not Ok |
| 59 | J6428-07DL | A41W1DL | PR035107.D | 28 Dec 2018 19:35 | AR1260 hits | SM\SJ | Ok |
| 60 | J6428-07DL2 | A41W1DL2 | PR035108.D | 28 Dec 2018 19:49 | | SM\SJ | Not Ok |
| 61 | J6428-08DL | A41W2DL | PR035109.D | 28 Dec 2018 20:04 | AR1260 hits, need 50X | SM\SJ | Dilution |
| 62 | J6428-08DL2 | A41W2DL2 | PR035110.D | 28 Dec 2018 20:18 | | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------|----------|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/I.BLK | |

| 63 | J6428-11DL | A41W3DL | PR035111.D | 28 Dec 2018 20:32 | AR1248 & AR1260 hits, need further dilution | SM\SJ | Dilution |
|----|--------------|-----------|------------|-------------------|---|-------|----------|
| 64 | J6428-11DL2 | A41W3DL2 | PR035112.D | 28 Dec 2018 20:47 | | SM\SJ | Ok,M |
| 65 | J6428-11DL2 | A41W3DL2 | PR035113.D | 28 Dec 2018 21:01 | | SM\SJ | Not Ok |
| 66 | J6428-12DL | A41W5DL | PR035114.D | 28 Dec 2018 21:16 | need further dilution. all surrogate high | SM\SJ | Not Ok |
| 67 | J6428-12DL | A41W5DL | PR035115.D | 28 Dec 2018 21:30 | need further dilution | SM\SJ | Not Ok |
| 68 | J6428-12DL2 | A41W5DL2 | PR035116.D | 28 Dec 2018 21:45 | need further dilution | SM\SJ | Not Ok |
| 69 | J6428-13DL | A41W6DL | PR035117.D | 28 Dec 2018 21:59 | AR1260 hits | SM\SJ | Ok,M |
| 70 | J6428-14DL | A41W7DL | PR035118.D | 28 Dec 2018 22:13 | AR1260 hits, need 50X | SM\SJ | Dilution |
| 71 | J6428-14DL2 | A41W7DL2 | PR035119.D | 28 Dec 2018 22:28 | | SM\SJ | Ok |
| 72 | J6428-15DL | A41W8DL | PR035120.D | 28 Dec 2018 22:42 | AR1248&AR1260 hits, need 50X | SM\SJ | Dilution |
| 73 | J6428-15DL2 | A41W8DL2 | PR035121.D | 28 Dec 2018 22:57 | AR1248&AR1260 hits | SM\SJ | Ok,M |
| 74 | J6428-16DL | A41W9DL | PR035122.D | 28 Dec 2018 23:11 | | SM\SJ | Not Ok |
| 75 | J6428-16DL | A41W9DL | PR035123.D | 28 Dec 2018 23:26 | AR1248 & AR1260 hits, check hit | SM\SJ | Ok,M |
| 76 | AIBLK54 | AIBLK54 | PR035124.D | 29 Dec 2018 00:09 | | SM\SJ | Ok |
| 77 | AR1660CCC400 | AR1660337 | PR035125.D | 29 Dec 2018 00:23 | | SM\SJ | Ok |
| 78 | AR1248CCC400 | AR1248337 | PR035126.D | 29 Dec 2018 00:38 | | SM\SJ | Ok,M |
| 79 | AR1254CCC400 | AR1254337 | PR035127.D | 29 Dec 2018 00:52 | | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122918

| | | | |
|--------------|----------|-------------------|------------------------|
| Review By | Sohil | Review On | 12/31/2018 10:59:39 AM |
| Supervise By | mohammad | Supervise On | 12/31/2018 11:11:54 AM |
| SubDirectory | PR122918 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/IL.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|--------------|-------------------|----------------|-------------------|----------------------|----------|----------|
| 1 | AIBLK55 | AIBLK55 | PR035128.D | 29 Dec 2018 01:11 | | SM\SJ | Ok,M |
| 2 | AR1660CCC400 | AR1660338 | PR035129.D | 29 Dec 2018 01:26 | | SM\SJ | Ok,M |
| 3 | J6439-08 | PCB-GPC-BLANK | PR035130.D | 29 Dec 2018 02:41 | | SM\SJ | Ok |
| 4 | J6439-09 | PCB-GPC-BLANK-SPI | PR035131.D | 29 Dec 2018 02:55 | | SM\SJ | Ok |
| 5 | J6439-13 | PCB-GPC2-BLANK | PR035132.D | 29 Dec 2018 03:10 | | SM\SJ | Ok |
| 6 | J6439-14 | PCB-GPC2-BLANK-SP | PR035133.D | 29 Dec 2018 03:24 | | SM\SJ | Ok |
| 7 | J6532-08 | PCB-GPC-BLANK | PR035134.D | 29 Dec 2018 03:39 | | SM\SJ | Ok |
| 8 | J6532-09 | PCB-GPC-BLANK-SPI | PR035135.D | 29 Dec 2018 03:53 | | SM\SJ | Ok |
| 9 | J6532-13 | PCB-GPC2-BLANK | PR035136.D | 29 Dec 2018 04:08 | | SM\SJ | Ok |
| 10 | J6532-14 | PCB-GPC2-BLANK-SP | PR035137.D | 29 Dec 2018 04:22 | | SM\SJ | Ok |
| 11 | PB115980BL | ABLK80 | PR035138.D | 29 Dec 2018 04:37 | | SM\SJ | Ok |
| 12 | PB115980BS | ALCS80 | PR035139.D | 29 Dec 2018 04:51 | | SM\SJ | Ok,M |
| 13 | J6536-02 | BE809 | PR035140.D | 29 Dec 2018 05:05 | | SM\SJ | Ok,M |
| 14 | J6536-03MS | BE809MS | PR035141.D | 29 Dec 2018 05:20 | | SM\SJ | Ok,M |
| 15 | J6536-04MSD | BE809MSD | PR035142.D | 29 Dec 2018 05:34 | | SM\SJ | Ok,M |
| 16 | PB115948BL | ABLK48 | PR035143.D | 29 Dec 2018 05:49 | | SM\SJ | Ok |
| 17 | PB115740BS | ALCS40 | PR035144.D | 29 Dec 2018 06:03 | | SM\SJ | Ok |
| 18 | J6441-01 | BE7Z7 | PR035145.D | 29 Dec 2018 06:18 | AR1254, AR1260 Hit | SM\SJ | Ok,M |
| 19 | J6441-05 | BF025 | PR035146.D | 29 Dec 2018 06:47 | AR1260 hits, need 5X | SM\SJ | Dilution |
| 20 | J6441-08 | BE7Z8 | PR035147.D | 29 Dec 2018 07:01 | | SM\SJ | Ok |
| 21 | J6441-09 | BE802 | PR035148.D | 29 Dec 2018 07:15 | | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122918

| | | | |
|--------------|----------|-------------------|------------------------|
| Review By | Sohil | Review On | 12/31/2018 10:59:39 AM |
| Supervise By | mohammad | Supervise On | 12/31/2018 11:11:54 AM |
| SubDirectory | PR122918 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/I.BLK | |

| Run No | Sample Name | Method | File Name | Time | Notes | Operator | Result |
|--------|--------------|-----------|------------|-------------------|-----------------------------------|----------|----------|
| 22 | J6441-10 | BF023 | PR035149.D | 29 Dec 2018 07:44 | AR1254, AR1260 Hit, need 5X | SM\SJ | Dilution |
| 23 | J6441-12MS | BF023MS | PR035150.D | 29 Dec 2018 07:59 | Recovery fail for AR1016 + AR1260 | SM\SJ | Ok,M |
| 24 | J6441-13MSD | BF023MSD | PR035151.D | 29 Dec 2018 08:13 | Recovery fail for AR1016 + AR1260 | SM\SJ | Ok,M |
| 25 | J6510-01 | BECF5 | PR035152.D | 29 Dec 2018 08:28 | | SM\SJ | Ok |
| 26 | J6510-02MS | BECF5MS | PR035153.D | 29 Dec 2018 08:42 | | SM\SJ | Ok,M |
| 27 | J6510-03MSD | BECF5MSD | PR035154.D | 29 Dec 2018 08:57 | | SM\SJ | Ok,M |
| 28 | J6428-06DL | A41W0DL | PR035155.D | 29 Dec 2018 09:12 | AR1260 hits | SM\SJ | Ok |
| 29 | J6428-12DL | A41W5DL | PR035156.D | 29 Dec 2018 09:27 | AR1260 hits, need 400X | SM\SJ | Dilution |
| 30 | J6428-12DL2 | A41W5DL2 | PR035157.D | 29 Dec 2018 09:42 | AR1260 hits | SM\SJ | Ok |
| 31 | AIBLK56 | AIBLK56 | PR035158.D | 29 Dec 2018 12:19 | | SM\SJ | Ok,M |
| 32 | AR1660CCC400 | AR1660339 | PR035159.D | 29 Dec 2018 12:34 | | SM\SJ | Ok,M |
| 33 | AR1248CCC400 | AR1248339 | PR035160.D | 29 Dec 2018 13:10 | | SM\SJ | Ok,M |
| 34 | AR1254CCC400 | AR1254339 | PR035161.D | 29 Dec 2018 13:24 | | SM\SJ | Ok,M |

Login Summary Report

| | | | | | |
|-----------------|-----------------------|----------------|-----------------------|---------------|-----------|
| Order ID : | J6428 | Order Date : | 12/14/2018 1:00:00 PM | Project Mgr : | Deepak |
| Client : | USEPA CLP Organics | Project : | 48033 | Report Type : | USEPA CLP |
| Contact : | Anita Kapadia | Receive Date : | 12/14/2018 1:00:00 PM | EDD Type : | EPA CLP |
| Date Sign Off : | 12/14/2018 3:53:12 PM | | | | |

| Sample ID | Client ID | Matrix | Sampling Date | Test | Test Group | Method | TAT Days | Fax Due Date | HC Due Date |
|-----------|-----------|--------|---------------|----------------|------------|---------------|----------|--------------|-------------|
| J6428-01 | A41T4 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-02 | A41T5 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-03 | A41T7 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-04 | A41T8 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-05 | A41T9 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-06 | A41W0 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-07 | A41W1 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-08 | A41W2 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-09 | A41W2MS | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6428-10 | A41W2MSD | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |

| | | | | | | | | | |
|----------|-------|-------|------------|----------------|---------------|----|------------|------------|--|
| J6428-11 | A41W3 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 | |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 | |
| J6428-12 | A41W5 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 | |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 | |
| J6428-13 | A41W6 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 | |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 | |
| J6428-14 | A41W7 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 | |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 | |
| J6428-15 | A41W8 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 | |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 | |
| J6428-16 | A41W9 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 | |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 | |
| J6428-17 | A41Z3 | Solid | 12/12/2018 | | PE | | | | |
| | | | | PCB | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 | |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 | |

15750
12/16/18

WORKLIST(Hardcopy Internal Chain)

WorkList Name : J6428 WorkList ID : 120438 Date : 12/16/2018 7:42:36 AM

| Due Date | Matrix | Sample | Test | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method |
|------------|--------|----------|------|--------------|----------|------------------|-----------------|--------------|-------------|
| 12/26/2018 | Solid | J6428-01 | PCB | Cool 4 deg C | USEP04 | A12 | A41T4 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-02 | PCB | Cool 4 deg C | USEP04 | A12 | A41T5 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-03 | PCB | Cool 4 deg C | USEP04 | A12 | A41T7 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-04 | PCB | Cool 4 deg C | USEP04 | A12 | A41T8 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-05 | PCB | Cool 4 deg C | USEP04 | A12 | A41T9 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-06 | PCB | Cool 4 deg C | USEP04 | A12 | A41W0 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-07 | PCB | Cool 4 deg C | USEP04 | A12 | A41W1 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-08 | PCB | Cool 4 deg C | USEP04 | A12 | A41W2 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-09 | PCB | Cool 4 deg C | USEP04 | A12 | A41W2MS | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-10 | PCB | Cool 4 deg C | USEP04 | A12 | A41W2MSD | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-11 | PCB | Cool 4 deg C | USEP04 | A12 | A41W3 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-12 | PCB | Cool 4 deg C | USEP04 | A12 | A41W5 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-13 | PCB | Cool 4 deg C | USEP04 | A12 | A41W6 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-14 | PCB | Cool 4 deg C | USEP04 | A12 | A41W7 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-15 | PCB | Cool 4 deg C | USEP04 | A12 | A41W8 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-16 | PCB | Cool 4 deg C | USEP04 | A12 | A41W9 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6428-17 | PCB | Cool 4 deg C | USEP04 | A12 | A41Z3 | 12/12/2018 | SOM02.4_PCB |

854

Date/Time 12/16/18 / 0:15
 Received by: RJ
 Relinquished by: SP

Date/Time 12/16/18 / 0:35
 Received by: JP
 Relinquished by: RJ



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2008 Certified Program"

Instructions for QATS Catalog Numbers: 04-005 06-001
06-002 06-005
06-006 SR-PES
Aroclors in Soil

QATS LABORATORY INSTRUCTIONS FOR AROCLORS IN SOIL
PERFORMANCE EVALUATION SAMPLES

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions, or other appropriate methods.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Acetone and Dichloromethane
FLAMMABLE LIQUID
POISON

Contains Trace Organics
Safety Data Sheets
Available Upon Request

(A) SAMPLE DESCRIPTION

Enclosed is a set of Aroclors in Soil Performance Evaluation Samples (PESs). This set consists of one (1) or more bottles, each containing 40 grams of soil. Check the chain-of-custody record for descriptions and number of bottles of soil provided for Aroclors in soil analysis. The bottle(s) should not be opened until sample preparation or analysis is to occur.

CAUTION: The bottle(s) could contain compounds that are light sensitive and should be protected from light during storage. Store the sample(s) at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for up to ten (10) days.

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, CB&I Federal Services LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
CB&I Federal Services LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120





Instructions for QATS Catalog Numbers: 04-005 06-001
 06-002 06-005
 06-006 SR-PES
Aroclors in Soil

(C) ANALYSIS REQUIREMENTS

Samples generated from the bottle(s) are to be analyzed in accordance with the SOW, other appropriate method, or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the SOW, other appropriate method, or your contract, disregard these instructions.

(D) GENERATION OF SAMPLES FROM BOTTLE(S) FOR ANALYSIS

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Perform the analysis as per the SOW, other appropriate method, or your contract. The sample container does not contain sufficient material to perform duplicate analyses.

Instructions for Aroclors in Soil Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

The following steps should be performed rapidly after opening the container. Do not perform a pH determination on the sample. When calculating the concentrations of analytes, use 0% as the soil moisture content.

To prepare the Aroclors in soil sample for analysis, weigh out an appropriate aliquot of soil, as specified in the SOW (30 grams), other appropriate method, or your contract, and record the exact weight. Do not weigh out additional soil for moisture determination. Proceed immediately with the extraction and analysis as described in the SOW, other appropriate method, or your contract.

(E) REPORTING

Report the results for the soil sample(s) prepared as directed above.

Report format and other instructions for submission of data packages containing these analysis results are included in the SOW, other appropriate method, or your contract.

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Cas No.: 48033 MA No. : _____ SDG No.: A41T6
 SOW No. : SOM02.4

| EPA Sample No. | Lab Sample ID | Trace VOA | Low Med VOA | Analysis Method | | | |
|----------------|---------------|--------------|-------------------|-----------------|-------------|------|-----|
| | | | | SVOA | SVOA SIM | PEST | ARO |
| A41T6 | J6431-01 | | | | | | X |
| A41T6MS | J6431-02 | | | | | | X |
| A41T6MSD | J6431-03 | | | | | | X |
| A41W4 | J6431-04 | | | | | | X |
| A41X1 | J6431-05 | | | | | | X |
| A41X2 | J6431-06 | | | | | | X |
| A41X3 | J6431-07 | | | | | | X |
| A41X4 | J6431-08 | | | | | | X |
| A41X5 | J6431-09 | | | | | | X |
| A41X6 | J6431-10 | | | | | | X |
| A41X7 | J6431-11 | | | | | | X |
| A41X8 | J6431-12 | | | | | | X |
| A41X9 | J6431-13 | | | | | | X |
| A41Y0 | J6431-14 | | | | | | X |
| A41Y1 | J6431-15 | | | | | | X |
| A41Y2 | J6431-16 | | | | | | X |
| A41Y3 | J6431-17 | | | | | | X |
| A41Z4 | J6431-18 | | | | | | X |

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:  Name: Nimisha Pandya
 Date: 01/03/19 Title: QA/QC

USEPA CLP COC (LAB COPY)

Date Shipped: 12/14/2018
 Carrier Name: Hand Delivered
 Airbill No: NA

CHAIN OF CUSTODY RECORD

Case #: 48033
 Cooler #: 0001/0002

No: 1-121218-133215-0002
 Lab: Chemtech Consulting Group
 Lab Contact: Divya Mehta
 Lab Phone: 908-789-8900

SDG # A41T6

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|-------------------|----------------|-----------------|--------------|----------------------------|--------------------------|----------|----------------------|------------------|
| 0252-0004 | A41T6 | Soil/ START | Grab | ARO(21) | 1003 (4 C) (2) | EW-04 | 12/12/2018 08:47 | — |
| 0252-0013 | A41W4 | Soil/ START | Grab | ARO(21) | 1011 (4 C) (1) | WW-04 | 12/12/2018 09:25 | • |
| 0252-0022 | A41X1 | Soil/ START | Grab | ARO(21) | 1018 (4 C) (1) | FS-09 | 12/12/2018 10:20 | • |
| 0252-0023 | A41X2 | Soil/ START | Grab | ARO(21) | 1019 (4 C) (1) | FS-10 | 12/12/2018 10:25 | • |
| 0252-0024 | A41X3 | Soil/ START | Grab | ARO(21) | 1020 (4 C) (1) | FS-06 | 12/12/2018 10:45 | • |
| 0252-0025 | A41X4 | Soil/ START | Grab | ARO(21) | 1021 (4 C) (1) | FS-106 | 12/12/2018 10:45 | • |
| 0252-0026 | A41X5 | Soil/ START | Grab | ARO(21) | 1022 (4 C) (1) | FS-05 | 12/12/2018 10:40 | • |
| 0252-0027 | A41X6 | Soil/ START | Grab | ARO(21) | 1023 (4 C) (1) | FS-04 | 12/12/2018 10:35 | • |
| 0252-0028 | A41X7 | Soil/ START | Grab | ARO(21) | 1024 (4 C) (1) | FS-02 | 12/12/2018 10:25 | • |
| 0252-0029 | A41X8 | Soil/ START | Grab | ARO(21) | 1025 (4 C) (1) | FS-11 | 12/12/2018 10:30 | • |
| 0252-0030 | A41X9 | Soil/ START | Grab | ARO(21) | 1026 (4 C) (1) | FS-12 | 12/12/2018 10:35 | • |
| 0252-0031 | A41Y0 | Soil/ START | Grab | ARO(21) | 1027 (4 C) (1) | FS-13 | 12/12/2018 10:40 | • |
| 0252-0032 | A41Y1 | Soil/ START | Grab | ARO(21) | 1028 (4 C) (1) | FS-14 | 12/12/2018 10:45 | • |
| 0252-0033 | A41Y2 | Soil/ START | Grab | ARO(21) | 1029 (4 C) (1) | FS-15 | 12/12/2018 11:05 | • |
| 0252-0034 | A41Y3 | Soil/ START | Grab | ARO(21) | 1030 (4 C) (1) | FS-16 | 12/12/2018 11:10 | • |
| 0252-0045 | A41Z4 | Lab Sand/ START | Grab | ARO(21) | 1041 (4 C) (1) | AS1963 | 12/12/2018 12:01 | PE |

| Sample(s) to be used for Lab QC: 0252-0004 Tag 1003 - Special Instructions: A portion of samples in Cooler # -0001 and Cooler # -0002 | | Shipment for Case Complete? N Samples Transferred From Chain of Custody # | |
|---|--|--|--|
| Analysis Key: ARO=CLP Aroclors | | | |

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|--------------|--|------------------|--|-------------------|-------------------------------|
| | <i>Ester Gunn</i> | 12/13/18 1500 | <i>Ch...</i> | 12-14-18 13:00 | 2.8 |
| | | | | | |
| | | | | | |
| | | | | | |

Sample Delivery Group (SDG) Cover Sheet

SDG Number A41T6 Case Number 48033 Contract Number EP-W-14-030
 Lab Code CHM SDG Turnaround 21 days Delivery CLIN(s) 1-1
 First Sample Received in SDG A41T6 Last Sample Received in SDG A41Z4
 First Sample Receipt Date 12/14/2018 13:00 Last Sample Receipt Date 12/14/2018 13:00

USEPA Sample Numbers in SDG (Listed in Numerical Order)

| CLP Sample ID | Sample Type | Requested Analytical CLIN(s)/SubCLIN(s) | Solicitation Number | MA Number(s) |
|---------------|--------------|---|---------------------|--------------|
| A41T6 | Field Sample | 0020AB | N/A | N/A |
| A41T6MS | Field Sample | 0020AB | N/A | N/A |
| A41T6MSD | Field Sample | 0020AB | N/A | N/A |
| A41W4 | Field Sample | 0020AB | N/A | N/A |
| A41X1 | Field Sample | 0020AB | N/A | N/A |
| A41X2 | Field Sample | 0020AB | N/A | N/A |
| A41X3 | Field Sample | 0020AB | N/A | N/A |
| A41X4 | Field Sample | 0020AB | N/A | N/A |
| A41X5 | Field Sample | 0020AB | N/A | N/A |
| A41X6 | Field Sample | 0020AB | N/A | N/A |
| A41X7 | Field Sample | 0020AB | N/A | N/A |
| A41X8 | Field Sample | 0020AB | N/A | N/A |
| A41X9 | Field Sample | 0020AB | N/A | N/A |
| A41Y0 | Field Sample | 0020AB | N/A | N/A |
| A41Y1 | Field Sample | 0020AB | N/A | N/A |
| A41Y2 | Field Sample | 0020AB | N/A | N/A |
| A41Y3 | Field Sample | 0020AB | N/A | N/A |
| A41Z4 | PE SAMPLE | 0020AB | N/A | N/A |

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature 

Date 12/14/18

FORM DC-1
SAMPLE LOG-IN SHEET

| | | |
|--|----------------------|-------------------------------|
| Lab Name CHEMTECH CONSULTING GROUP | | Page <u>1</u> of <u>1</u> |
| Received By (Print Name) <u>Cassiano Feira</u> | | Log-in Date 12/14/2018 |
| Received By (Signature) <u>[Signature]</u> | | |
| Case Number 48033 | SDG No. A41T6 | MA No. N/A |

| | |
|--|--------------------------|
| Remarks: | |
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | <u>N/A</u> |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. | <u>HAND-DELIVERED</u> |
| 6. Sample Tags | Absent |
| Sample Tag # | Listed on Traffic Report |
| 7. Sample Condition | Intact |
| 8. Shipping Container Temperature Indicator Bottle | Present |
| 9. Shipping Container Temperature | <u>2.8</u> Degree C |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | <u>12/14/2018</u> |
| 12. Time Received | <u>13:00</u> |

| | EPA Sample # | Corresponding | | Remarks: Condition of Sample shipment, etc. |
|----|--------------|---------------|----------------|---|
| | | Sample Tag # | Assigned Lab # | |
| 1 | A41T6 | 1003 | J6431-01 | Intact |
| 2 | A41T6MS | 1003 | J6431-02 | Intact |
| 3 | A41T6MSD | 1003 | J6431-03 | Intact |
| 4 | A41W4 | 1011 | J6431-04 | Intact |
| 5 | A41X1 | 1018 | J6431-05 | Intact |
| 6 | A41X2 | 1019 | J6431-06 | Intact |
| 7 | A41X3 | 1020 | J6431-07 | Intact |
| 8 | A41X4 | 1021 | J6431-08 | Intact |
| 9 | A41X5 | 1022 | J6431-09 | Intact |
| 10 | A41X6 | 1023 | J6431-10 | Intact |
| 11 | A41X7 | 1024 | J6431-11 | Intact |
| 12 | A41X8 | 1025 | J6431-12 | Intact |
| 13 | A41X9 | 1026 | J6431-13 | Intact |
| 14 | A41Y0 | 1027 | J6431-14 | Intact |
| 15 | A41Y1 | 1028 | J6431-15 | Intact |
| 16 | A41Y2 | 1029 | J6431-16 | Intact |
| 17 | A41Y3 | 1030 | J6431-17 | Intact |
| 18 | A41Z4 | 1041 | J6431-18 | Intact |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |

* Contact SMO and attach record of resolution

| | |
|--------------------------------|---------------------------|
| Reviewed By <u>[Signature]</u> | Logbook No. <u>2</u> |
| Date <u>12/14/18</u> | Logbook Page No. <u>2</u> |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | | | |
|--------------|---------------------------|---------|-------|
| LAB NAME | CHEMTECH CONSULTING GROUP | | |
| LAB CODE | CHM | | |
| CONTRACT NO. | EPW14030 | | |
| CASE NO. | 48033 | SDG NO. | A41T6 |
| MA NO. | | | |
| SOW NO. | SOM02.4 | | |

All documents delivered in the complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

| | PAGE NOS. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 1. SDG Cover Page | 1 | 1 | ✓ | |
| 2. Traffic Report/Chain of Custody Record(s) | 2 | 3 | ✓ | |
| 3. Sample Log-In Sheet (DC-1) | 4 | 4 | ✓ | |
| 4. CSF Inventory Sheet (DC-2) | 5 | 11 | ✓ | |
| 5. SDG Narrative | 12 | 24 | ✓ | |

Organic Analysis

Trace Volatiles

Quality Control Summary

| | | | | |
|--|----|----|---|--|
| 6. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 7. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region) | NA | NA | ✓ | |
| 8. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 9. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 10. Internal Standard Area and Retention Summary (Form 8A-OR) | NA | NA | ✓ | |

Sample Data

| | | | | |
|---|----|----|---|--|
| 11. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 12. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 13. Raw Data for each sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | | | | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |
| Standards Data (All Instruments) | | | | |
| 14. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 15. RICs and Quantitation Reports for all Standards | | | | |

FORM DC-2
 FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|---|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 16. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7-OR) | NA | NA | ✓ | |
| 17. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 18. Performance Check | NA | NA | ✓ | |
| 19. Blank Data | NA | NA | ✓ | |
| 20. Matrix Spike/Matrix Spike Duplicate Data (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 21. Original Preparation and analysis forms or copies of preparation and analysis logbook pages (including screening records if applicable) | NA | NA | ✓ | |
| Low-Medium Volatiles | | | | |
| Quality Control Summary | | | | |
| 22. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 23. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 24. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 25. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 26. Internal Standard Area and Retention Time Summary (Form 8A-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 27. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 28. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 29. Raw Data for Each Sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | | | | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |
| Standards Data (All Instruments) | | | | |
| 30. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 31. RICs and Quantitation Reports for all Standards | | | | |
| 32. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7A-OR) | NA | NA | ✓ | |
| 33. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 34. Performance Check | NA | NA | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 35. Blank Data | NA | NA | ✓ | |
| 36. Matrix Spike/Matrix Spike Duplicate Data (if requested by EPA Region) | NA | NA | ✓ | |
| 37. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Semivolatiles | | | | |
| Quality Control Summary | | | | |
| 38. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 39. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 40. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 41. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 42. Internal Standard Area and Retention Time Summary (Form 8A-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 43. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 44. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 45. Raw Data for Each sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | NA | NA | ✓ | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |
| GPC chromatograms (if GPC is required) | | | | |
| Standards Data (All Instruments) | | | | |
| 46. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 47. RICs and Quantitation Reports for all Standards | | | | |
| 48. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7A-OR) | NA | NA | ✓ | |
| 49. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 50. Performance Check | NA | NA | ✓ | |
| 51. Blank Data | NA | NA | ✓ | |
| 52. Matrix Spike/Matrix Spike Duplicate Data (if requested by EPA Region) | NA | NA | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 53. Raw GPC Data | NA | NA | ✓ | |
| 54. For SIM analysis (if requested), at the same sequence as listed above, except for that Form 1B-OR and TIC spectra data which are not required for SIM method. | NA | NA | ✓ | |
| 55. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Pesticides | | | | |
| Quality Control Summary | | | | |
| 56. Surrogate Recovery (Form 2C-OR) | NA | NA | ✓ | |
| 57. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR each columns) | NA | NA | ✓ | |
| 58. Laboratory Control Sample Recovery (Form 3B-OR each column) | NA | NA | ✓ | |
| 59. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 60. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 61. Raw Data for Each Sample: | | | | |
| Chromatograms (Primary Column) | | | | |
| Chromatograms (Secondary Column) | | | | |
| Quantitation Reports | | | | |
| Manual Worksheets | | | | |
| 62. For Pesticides by GC/MS Confirmation: | | | | |
| Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards) | | | | |
| Standards Data | | | | |
| 63. Initial Calibration of Single Component Analytes (Form 6B-OR and 6C-OR) | NA | NA | ✓ | |
| 64. Initial Calibration of Multicomponent Analytes (Form 6D-OR and 6E-OR) | NA | NA | ✓ | |
| 65. Analyte Resolution Summary (Form 6G-OR) | NA | NA | ✓ | |
| 66. Pesticide Performance Evaluation Mixture Calibration Verification Summary (Form 7B-OR) | NA | NA | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|--|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 67. Continuing Calibration Verification Summary (Form 7C-OR) | NA | NA | ✓ | |
| 68. Multicomponent Continuing Calibration Verification Summary (Form 7D-OR) | NA | NA | ✓ | |
| 69. Analytical Sequence (Form 8B-OR) | NA | NA | ✓ | |
| 70. Florisil Cartridge Check (Form 9A-OR) | NA | NA | ✓ | |
| 71. GPC Calibration Verification (Form 9B-OR) | NA | NA | ✓ | |
| 72. Identification Summary for Single Component Analytes (Form 10A-OR) | NA | NA | ✓ | |
| 73. Identification Summary for Multicomponent Analytes (Form 10B-OR) | | | | |
| 74. Chromatograms and Quantitation Reports: A printout of Retention Times and corresponding peak areas or peak heights | NA | NA | ✓ | |
| Quality Control Data | | | | |
| 75. Blank Data | NA | NA | ✓ | |
| 76. Matrix Spike/Matrix Spike Duplicate Data | NA | NA | ✓ | |
| 77. Laboratory Control Sample | NA | NA | ✓ | |
| 78. Raw GPC Data | NA | NA | ✓ | |
| 79. Raw Florisil Data | NA | NA | ✓ | |
| 80. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Aroclor Data | | | | |
| Quality Control Summary | | | | |
| 81. Surrogate Recovery (Form 2C-OR) | 25 | 26 | ✓ | |
| 82. Matrix Spike/Matrix Spike Duplicate Summary (Form 3A-OR) | 27 | 28 | ✓ | |
| 83. Laboratory Control Sample Recovery (Form 3B-OR for each column) | 29 | 29 | ✓ | |
| 84. Method Blank Summary (Form 4-OR) | 30 | 30 | ✓ | |
| Sample Data | | | | |
| 85. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | 31 | 232 | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

PAGE NOS.

CHECK

FROM

TO

LAB


REGION

| | | | | |
|---|-----|-----|---|--|
| 86. Raw Data for Each Sample: | NA | NA | ✓ | |
| Chromatograms (Primary Column) | NA | NA | ✓ | |
| Chromatograms (Secondary Column) | NA | NA | ✓ | |
| Quantitation Reports | NA | NA | ✓ | |
| Manual Worksheets | NA | NA | ✓ | |
| 87. For Aroclors by GC/MS Confirmation: | NA | NA | ✓ | |
| Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards) | NA | NA | ✓ | |
| Standards Data | | | | |
| 88. Initial Calibration of Multicomponent Analytes (Form 6D-OR, Form 6E-OR, and Form 6F-OR) | 233 | 242 | ✓ | |
| 89. Multicomponent Continuing Calibration Verification Summary (Form 7D-OR) | 241 | 276 | ✓ | |
| 90. Analytical Sequence (Form 8B-OR) | 277 | 290 | ✓ | |
| 91. Identification Summary for Multicomponent Analytes (Form 10B-OR) | 291 | 318 | ✓ | |
| 92. Chromatograms and data system printouts: | 319 | 418 | ✓ | |
| A printout of Retention Times and corresponding peak areas or peak heights | | | | |
| Quality Control Data | | | | |
| 93. Blank Data | 419 | 445 | ✓ | |
| 94. Matrix Spike/Matrix Spike Duplicate Data | 446 | 467 | ✓ | |
| 95. Laboratory Control Sample (LCS) Data | 468 | 471 | ✓ | |
| 96. Raw GPC Data (if performed) | NA | NA | ✓ | |
| 97. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including Percent Solid Determinations logs and screening records if applicable) | 472 | 542 | ✓ | |
| Additional | | | | |
| 98. EPA Shipping/Receiving Documents | | | | |
| Airbills (No. of shipments NA) | NA | NA | ✓ | |
| Sample Tags | NA | NA | ✓ | |
| Sample Log-In Sheet (Lab) | 543 | 544 | ✓ | |

FORM DC-2
 FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| PAGE NOS. | | CHECK | |
|-----------|----|-------|--------|
| FROM | TO | LAB | REGION |

| | | | | |
|---|--------------|--------------|------------|----------------|
| 99. Misc. Shipping/Receiving Records (list all individual records) Communication Logs _____ _____ | NA _____ | NA _____ | ✓ _____ | _____ _____ |
| 100. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list) _____ _____ | 545 _____ | 545 _____ | ✓ _____ | _____ _____ |
| 101. PE/PT Instruction Forms _____ _____ | 546 _____ | 547 _____ | ✓ _____ | _____ _____ |
| 102. Other Records (describe or list) Communication Log _____ _____ | NA _____ | NA _____ | ✓ _____ | _____ _____ |
| 103. Comments _____ _____ _____ | | | | |

| | | | |
|---------------|---|---|-----------------------------|
| Completed by: |  _____ (Signature) | Nimisho Pandey QA/QC _____ (Printed Name/Title) | 01/03/19 _____ (Date) |
| Audited by: | _____ (Signature) | _____ (Printed Name/Title) | _____ (Date) |

SDG NARRATIVE**LAB NAME: CHEMTECH CONSULTING GROUP****CASE: 48033****SDG: A41T6****CONTRACT: EPW14030****LAB CODE: CHM****CHEMTECH PROJECT: J6432****MODIFICATION REF. NUMBER: NA**

| Sample ID | EPA Sample ID | pH |
|------------------|----------------------|-----------|
| J6431-01 | A41T6 | |
| J6431-01DL | A41T6DL | |
| J6431-01DL2 | A41T6DL2 | |
| J6431-02MS | A41T6MS | |
| J6431-03MSD | A41T6MSD | |
| J6431-04 | A41W4 | |
| J6431-04DL | A41W4DL | |
| J6431-05 | A41X1 | |
| J6431-06 | A41X2 | |
| J6431-06DL | A41X2DL | |
| J6431-06DL2 | A41X2DL2 | |
| J6431-07 | A41X3 | |
| J6431-08 | A41X4 | |
| J6431-09 | A41X5 | |
| J6431-09DL | A41X5DL | |
| J6431-10 | A41X6 | |
| J6431-10DL | A41X6DL | |
| J6431-10DL2 | A41X6DL2 | |
| J6431-11 | A41X7 | |
| J6431-11DL | A41X7DL | |
| J6431-12 | A41X8 | |
| J6431-13 | A41X9 | |
| J6431-14 | A41Y0 | |
| J6431-15 | A41Y1 | |
| J6431-16 | A41Y2 | |
| J6431-17 | A41Y3 | |
| J6431-17DL | A41Y3DL | |
| J6431-18 | A41Z4 | |

18 Soil samples were delivered to the laboratory intact on 12/14/2018.

Test requested on the Chain of Custody was Aroclor by Method SOM02.4.

Sample Tags were not received with the samples.

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.8 degrees Celsius.

Shipping Discrepancies and/or QC issues:

Issue 1: Sample tags were not received with samples at the laboratory. Sample tag numbers may or may not be listed on the TR/COC.

Resolution 1: In accordance with previous direction from Region 1, the laboratory will note the issue in the SDG Narrative, and proceed with the analysis of the sample. The Resolution will be applied to all samples received for this Case.

Aroclors:

The analyses were performed on instrument GCECD_R. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.

Samples were analyzed on a single injection dual column system. To distinguish the second column analysis from the first column a -2 suffix was added to the file id on the form 8 and form 1. This refers to forms where both columns are reported. Form 1s for the IBLK, MS, MSD and ALCS have the -2 on the form as per the method section 3.3.7.1 foot notes.

Aroclor sample were extracted by Method SOM02.4 on 12/17/2018 and analyzed on 12/20,21/2018. All the samples were subjected to a Sulfuric acid cleanup. The samples were extracted and analyzed within contractual holding time.

The Surrogate recoveries met the requirements except for A41X4 DCB [29%, 29%] in both columns.

The SOW allows one surrogate to fail to meet the criteria per column. (Section 11.3.6 of Exhibit D Aroclor Analysis). No further corrective action was taken.

A41T6MS/MSD did not meet the requirements on either column. No corrective action is required for failure to meet the MS/MSD criteria by the SOW. (Section 12.2.5.5 of Exhibit D Aroclor Analysis).

The RPD met the requirements. No corrective action is required for failure to meet the MS/MSD criteria by the SOW.

The Retention Times met requirements.

The Laboratory Control Sample met requirements.

The Blank analysis did not indicate the presence of lab contamination.
 The Initial Calibration met the requirements.
 The Continuing Calibrations met the requirements.

Samples A41T6, A41W4, A41X2, A41X5, A41X6, A41X7 and A41Y3 were diluted due to the high concentration of AR1260, AR1254 and AR1248.

Samples A41T6MS/MSD and A41X9 failed to meet the %D for the results between the two columns criteria.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

Calculation for Concentration in Soil samples:

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(A_x) (V_t) (DF) (GPC)}{(CF) (V_i) (W_s) (D)}$$

Where,

A_x = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

V_t = Volume of the concentrated extract in uL

V_i = Volume of extract injected (uL). (If a single injection is made onto two columns, use ½ the volume in the syringe as the volume injected onto each column).

W_s = Weight of sample extracted (g).

D = % dry weight or $\frac{100 - \% \text{Moisture}}{100}$

$GPC = \frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, $GPC=1$)

DF = Dilution Factor

Example of AR1260 calculation for Peak 1

Calibration factor Peak 1 100ppb ISTD=
 Column 2 $\frac{\text{peak area}}{\text{Mass injected ng}}$

$$= \frac{25538159}{0.100}$$

= 255381590 calibration factor for Peak 1 100ppb AR1254

Average of 5 peaks = 214972196

Sample A41Y2

Ax = 164100000

CF = 214972196

Vt = 10000

Vi = 1.0

Ws = 30.1

D = 0.563

GPC = 1.0

DF = 1.0


$$\begin{aligned} \text{Concentration ug/Kg (Dry weight basis)} &= \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)} \\ &= \frac{(164100000)(10000)(1.0)(1.0)}{(214972196)(1.0)(30.1)(0.563)} \end{aligned}$$

Peak 1 = 450.4550

Average of 5 peaks = 459.0032

Reported results = 460 ug/kg

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

Signature  Name: Mildred V. ReyesDate: 01/03/19 Title: Document Control Officer



Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR121818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|
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Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR122118 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|--------------------------|------------|-------------------------|-----------|-----------------------|---------------|--------------------|---|
| AR1242CCC400 / AR1242325 | PR034909.D | AR-1242-1 #2 | Ankita | 12/21/2018 6:08:08 PM | Sohil | 12/21/2018 6:11:43 | Peak Integrated by Software incorrectly |
| AR1242CCC400 / AR1242325 | PR034909.D | AR-1242-2 #2 | Ankita | 12/21/2018 6:08:08 PM | Sohil | 12/21/2018 6:11:43 | Peak Integrated by Software incorrectly |
| AR1242CCC400 / AR1242325 | PR034909.D | AR-1242-5 | Ankita | 12/21/2018 6:08:08 PM | Sohil | 12/21/2018 6:11:43 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | AR-1248-1 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | AR-1248-1 #2 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | AR-1248-2 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | AR-1254-4 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | AR-1254-5 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | AR-1260-3 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | AR-1260-4 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | Decachlorobiphenyl #2 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | Tetrachloro-m-xylene | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |
| J6431-01/A41T6 | PR034924.D | Tetrachloro-m-xylene #2 | Ankita | 12/21/2018 6:08:14 PM | Sohil | 12/21/2018 6:11:47 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR122118 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|----------------------|------------|--------------|-----------|-----------------------|---------------|--------------------|---|
| J6431-02MS/A41T6MS | PR034925.D | AR-1016-1 #2 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-02MS/A41T6MS | PR034925.D | AR-1016-2 #2 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-02MS/A41T6MS | PR034925.D | AR-1016-4 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-02MS/A41T6MS | PR034925.D | AR-1016-5 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-02MS/A41T6MS | PR034925.D | AR-1248-1 #2 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-02MS/A41T6MS | PR034925.D | AR-1248-2 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-02MS/A41T6MS | PR034925.D | AR-1248-3 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-02MS/A41T6MS | PR034925.D | AR-1248-4 #2 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-02MS/A41T6MS | PR034925.D | AR-1254-4 | Ankita | 12/21/2018 6:08:16 PM | Sohil | 12/21/2018 6:11:48 | Peak Integrated by Software incorrectly |
| J6431-03MSD/A41T6MSD | PR034926.D | AR-1016-1 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/A41T6MSD | PR034926.D | AR-1016-1 #2 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/A41T6MSD | PR034926.D | AR-1016-2 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/A41T6MSD | PR034926.D | AR-1016-2 #2 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR122118 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|----------------------|-----------|--------------------------|---------------|--------------------|---|
| J6431-03MSD/ A41T6MSD | PR034926.D | AR-1016-3 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/ A41T6MSD | PR034926.D | AR-1016-4 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/ A41T6MSD | PR034926.D | AR-1016-5 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/ A41T6MSD | PR034926.D | AR-1248-1 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/ A41T6MSD | PR034926.D | AR-1248-1 #2 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/ A41T6MSD | PR034926.D | AR-1248-2 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| J6431-03MSD/ A41T6MSD | PR034926.D | AR-1254-4 | Ankita | 12/21/2018 6:08:18 PM | Sohil | 12/21/2018 6:11:50 | Peak Integrated by Software incorrectly |
| AR1242CCC400 / AR1242326 | PR034929.D | AR-1242-5 | Ankita | 12/21/2018 6:08:20 PM | Sohil | 12/21/2018 6:11:51 | Peak Integrated by Software incorrectly |
| J6431-04/ A41W4 | PR034932.D | AR-1260-3 #2 | Ankita | 12/21/2018 6:08:22 PM | Sohil | 12/21/2018 6:11:52 | Peak Integrated by Software incorrectly |
| J6431-04/ A41W4 | PR034932.D | AR-1260-4 | Ankita | 12/21/2018 6:08:22 PM | Sohil | 12/21/2018 6:11:52 | Peak Integrated by Software incorrectly |
| J6431-04/ A41W4 | PR034932.D | AR-1260-4 #2 | Ankita | 12/21/2018 6:08:22 PM | Sohil | 12/21/2018 6:11:52 | Peak Integrated by Software incorrectly |
| J6431-04/ A41W4 | PR034932.D | AR-1260-5 | Ankita | 12/21/2018 6:08:22 PM | Sohil | 12/21/2018 6:11:52 | Peak Integrated by Software incorrectly |
| J6431-04/ A41W4 | PR034932.D | Tetrachloro-m-xylene | Ankita | 12/21/2018 6:08:22 PM | Sohil | 12/21/2018 6:11:52 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR122118 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|--------------------|------------|-------------------------|-----------|--------------------------|---------------|--------------------|---|
| J6431-05/ A41X1 | PR034933.D | AR-1260-4 | Ankita | 12/21/2018 6:08:24 PM | Sohil | 12/21/2018 6:11:53 | Peak Integrated by Software incorrectly |
| J6431-05/ A41X1 | PR034933.D | Tetrachloro-m-xylene #2 | Ankita | 12/21/2018 6:08:24 PM | Sohil | 12/21/2018 6:11:53 | Peak Integrated by Software incorrectly |
| J6431-07/ A41X3 | PR034935.D | AR-1260-1 #2 | Ankita | 12/21/2018 6:08:25 PM | Sohil | 12/21/2018 6:11:54 | Peak Integrated by Software incorrectly |
| J6431-07/ A41X3 | PR034935.D | AR-1260-3 | Ankita | 12/21/2018 6:08:25 PM | Sohil | 12/21/2018 6:11:54 | Peak Integrated by Software incorrectly |
| J6431-07/ A41X3 | PR034935.D | AR-1260-4 | Ankita | 12/21/2018 6:08:25 PM | Sohil | 12/21/2018 6:11:54 | Peak Integrated by Software incorrectly |
| J6431-08/ A41X4 | PR034936.D | AR-1260-1 #2 | Ankita | 12/21/2018 6:08:27 PM | Sohil | 12/21/2018 6:11:55 | Peak Integrated by Software incorrectly |
| J6431-08/ A41X4 | PR034936.D | AR-1260-4 | Ankita | 12/21/2018 6:08:27 PM | Sohil | 12/21/2018 6:11:55 | Peak Integrated by Software incorrectly |
| J6431-09/ A41X5 | PR034937.D | AR-1248-1 | Ankita | 12/21/2018 6:08:29 PM | Sohil | 12/21/2018 6:11:57 | Peak Integrated by Software incorrectly |
| J6431-09/ A41X5 | PR034937.D | AR-1248-1 #2 | Ankita | 12/21/2018 6:08:29 PM | Sohil | 12/21/2018 6:11:57 | Peak Integrated by Software incorrectly |
| J6431-09/ A41X5 | PR034937.D | AR-1248-2 | Ankita | 12/21/2018 6:08:29 PM | Sohil | 12/21/2018 6:11:57 | Peak Integrated by Software incorrectly |
| J6431-09/ A41X5 | PR034937.D | AR-1260-1 #2 | Ankita | 12/21/2018 6:08:29 PM | Sohil | 12/21/2018 6:11:57 | Peak Integrated by Software incorrectly |
| J6431-09/ A41X5 | PR034937.D | AR-1260-3 #2 | Ankita | 12/21/2018 6:08:29 PM | Sohil | 12/21/2018 6:11:57 | Peak Integrated by Software incorrectly |
| J6431-09/ A41X5 | PR034937.D | AR-1260-4 #2 | Ankita | 12/21/2018 6:08:29 PM | Sohil | 12/21/2018 6:11:57 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR122118 | Instrument | ECD_r |
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| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|--------------------------|---------------|--------------------|---|
| J6431-09/ A41X5 | PR034937.D | Tetrachloro-m-xylene #2 | Ankita | 12/21/2018 6:08:29 PM | Sohil | 12/21/2018 6:11:57 | Peak Integrated by Software incorrectly |
| J6431-10/ A41X6 | PR034938.D | AR-1248-1 #2 | Ankita | 12/21/2018 6:08:31 PM | Sohil | 12/21/2018 6:11:58 | Peak Integrated by Software incorrectly |
| J6431-10/ A41X6 | PR034938.D | AR-1248-2 | Ankita | 12/21/2018 6:08:31 PM | Sohil | 12/21/2018 6:11:58 | Peak Integrated by Software incorrectly |
| J6431-10/ A41X6 | PR034938.D | AR-1254-2 #2 | Ankita | 12/21/2018 6:08:31 PM | Sohil | 12/21/2018 6:11:58 | Peak Integrated by Software incorrectly |
| J6431-13/ A41X9 | PR034941.D | AR-1248-2 | Ankita | 12/21/2018 6:08:32 PM | Sohil | 12/21/2018 6:11:59 | Peak Integrated by Software incorrectly |
| J6431-13/ A41X9 | PR034941.D | AR-1260-4 #2 | Ankita | 12/21/2018 6:08:32 PM | Sohil | 12/21/2018 6:11:59 | Peak Integrated by Software incorrectly |
| J6431-13/ A41X9 | PR034941.D | AR-1260-5 | Ankita | 12/21/2018 6:08:32 PM | Sohil | 12/21/2018 6:11:59 | Peak Integrated by Software incorrectly |
| J6431-15/ A41Y1 | PR034943.D | Tetrachloro-m-xylene | Ankita | 12/21/2018 6:08:34 PM | Sohil | 12/21/2018 6:12:00 | Peak Integrated by Software incorrectly |
| J6431-15/ A41Y1 | PR034943.D | Tetrachloro-m-xylene #2 | Ankita | 12/21/2018 6:08:34 PM | Sohil | 12/21/2018 6:12:00 | Peak Integrated by Software incorrectly |
| AR1242CCC400 / AR1242327 | PR034949.D | AR-1242-5 | Ankita | 12/21/2018 6:08:36 PM | Sohil | 12/21/2018 6:12:01 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254327 | PR034951.D | AR-1254-1 | Ankita | 12/21/2018 6:08:37 PM | Sohil | 12/21/2018 6:12:02 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254327 | PR034951.D | AR-1254-3 | Ankita | 12/21/2018 6:08:37 PM | Sohil | 12/21/2018 6:12:02 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR122218 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|--------------------------|------------|-------------------------|-----------|------------------------|---------------|--------------------|---|
| AR1254CCC400 / AR1254328 | PR034956.D | AR-1254-1 | SOMINA | 12/26/2018 7:59:49 AM | Sohil | 12/26/2018 8:06:23 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254329 | PR034982.D | AR-1254-1 | SOMINA | 12/26/2018 8:08:58 AM | Sohil | 12/26/2018 8:14:01 | Peak Integrated by Software incorrectly |
| J6431-10DL/ A41X6DL | PR034985.D | AR-1248-1 #2 | SOMINA | 12/26/2018 8:13:44 AM | Sohil | 12/26/2018 8:14:04 | Peak Integrated by Software incorrectly |
| J6431-10DL2/ A41X6DL2 | PR034986.D | AR-1248-1 #2 | SOMINA | 12/26/2018 8:13:45 AM | Sohil | 12/26/2018 8:14:06 | Peak Integrated by Software incorrectly |
| J6431-10DL2/ A41X6DL2 | PR034986.D | AR-1260-3 #2 | SOMINA | 12/26/2018 8:13:45 AM | Sohil | 12/26/2018 8:14:06 | Peak Integrated by Software incorrectly |
| J6431-10DL2/ A41X6DL2 | PR034986.D | AR-1260-4 #2 | SOMINA | 12/26/2018 8:13:45 AM | Sohil | 12/26/2018 8:14:06 | Peak Integrated by Software incorrectly |
| J6431-09DL/ A41X5DL | PR034987.D | AR-1248-1 | SOMINA | 12/26/2018 12:59:34 PM | Sohil | 12/26/2018 1:01:55 | Peak Integrated by Software incorrectly |
| J6431-09DL/ A41X5DL | PR034987.D | AR-1248-1 #2 | SOMINA | 12/26/2018 12:59:34 PM | Sohil | 12/26/2018 1:01:55 | Peak Integrated by Software incorrectly |
| J6431-09DL/ A41X5DL | PR034987.D | AR-1260-1 #2 | SOMINA | 12/26/2018 12:59:34 PM | Sohil | 12/26/2018 1:01:55 | Peak Integrated by Software incorrectly |
| J6431-06DL/ A41X2DL | PR034988.D | Tetrachloro-m-xylene | SOMINA | 12/26/2018 8:15:22 AM | Sohil | 12/26/2018 8:20:16 | Peak Integrated by Software incorrectly |
| J6431-06DL/ A41X2DL | PR034988.D | Tetrachloro-m-xylene #2 | SOMINA | 12/26/2018 8:15:22 AM | Sohil | 12/26/2018 8:20:16 | Peak Integrated by Software incorrectly |
| J6431-04DL/ A41W4DL | PR034990.D | AR-1260-3 | SOMINA | 12/26/2018 8:14:40 AM | Sohil | 12/26/2018 8:20:18 | Peak Integrated by Software incorrectly |
| J6431-04DL/ A41W4DL | PR034990.D | AR-1260-4 | SOMINA | 12/26/2018 8:14:40 AM | Sohil | 12/26/2018 8:20:18 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR122218 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|--------------------------|------------|----------------------|-----------|---------------------------|---------------|--------------------|---|
| J6431-04DL/ A41W4DL | PR034990.D | AR-1260-5 | SOMINA | 12/26/2018 8:14:40 AM | Sohil | 12/26/2018 8:20:18 | Peak Integrated by Software incorrectly |
| J6431-04DL/ A41W4DL | PR034990.D | Tetrachloro-m-xylene | SOMINA | 12/26/2018 8:14:40 AM | Sohil | 12/26/2018 8:20:18 | Peak Integrated by Software incorrectly |
| J6431-01DL/ A41T6DL | PR034991.D | AR-1248-1 | SOMINA | 12/26/2018 12:59:36 PM | Sohil | 12/26/2018 1:01:57 | Peak Integrated by Software incorrectly |
| J6431-01DL/ A41T6DL | PR034991.D | AR-1248-1 #2 | SOMINA | 12/26/2018 12:59:36 PM | Sohil | 12/26/2018 1:01:57 | Peak Integrated by Software incorrectly |
| J6431-01DL/ A41T6DL | PR034991.D | AR-1248-2 | SOMINA | 12/26/2018 12:59:36 PM | Sohil | 12/26/2018 1:01:57 | Peak Integrated by Software incorrectly |
| J6431-01DL/ A41T6DL | PR034991.D | AR-1248-4 #2 | SOMINA | 12/26/2018 12:59:36 PM | Sohil | 12/26/2018 1:01:57 | Peak Integrated by Software incorrectly |
| J6431-01DL/ A41T6DL | PR034991.D | AR-1254-1 | SOMINA | 12/26/2018 12:59:36 PM | Sohil | 12/26/2018 1:01:57 | Peak Integrated by Software incorrectly |
| J6431-01DL/ A41T6DL | PR034991.D | AR-1254-4 | SOMINA | 12/26/2018 12:59:36 PM | Sohil | 12/26/2018 1:01:57 | Peak Integrated by Software incorrectly |
| J6431-01DL2/ A41T6DL2 | PR034992.D | AR-1248-1 | SOMINA | 12/26/2018 12:59:37 PM | Sohil | 12/26/2018 1:02:01 | Peak Integrated by Software incorrectly |
| J6431-01DL2/ A41T6DL2 | PR034992.D | AR-1248-1 #2 | SOMINA | 12/26/2018 12:59:37 PM | Sohil | 12/26/2018 1:02:01 | Peak Integrated by Software incorrectly |
| J6431-01DL2/ A41T6DL2 | PR034992.D | AR-1248-2 | SOMINA | 12/26/2018 12:59:37 PM | Sohil | 12/26/2018 1:02:01 | Peak Integrated by Software incorrectly |
| J6431-01DL2/ A41T6DL2 | PR034992.D | AR-1248-4 #2 | SOMINA | 12/26/2018 12:59:37 PM | Sohil | 12/26/2018 1:02:01 | Peak Integrated by Software incorrectly |
| J6431-01DL2/ A41T6DL2 | PR034992.D | AR-1254-1 | SOMINA | 12/26/2018 12:59:37 PM | Sohil | 12/26/2018 1:02:01 | Peak Integrated by Software incorrectly |

Manual Integration Report

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|-----------|----------|------------|-------|
| Sequence: | PR122218 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|---------------------------|---------------|--------------------|---|
| J6431-01DL2/ A41T6DL2 | PR034992.D | AR-1254-4 | SOMINA | 12/26/2018 12:59:37 PM | Sohil | 12/26/2018 1:02:01 | Peak Integrated by Software incorrectly |
| AR1248CCC400 / AR1248330 | PR035000.D | Tetrachloro-m-xylene #2 | SOMINA | 12/26/2018 8:17:19 AM | Sohil | 12/26/2018 8:20:23 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254330 | PR035001.D | AR-1254-1 | SOMINA | 12/26/2018 8:17:20 AM | Sohil | 12/26/2018 8:20:25 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254330 | PR035001.D | AR-1254-4 | SOMINA | 12/26/2018 8:17:20 AM | Sohil | 12/26/2018 8:20:25 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660331 | PR035017.D | AR-1260-3 | SOMINA | 12/26/2018 8:19:15 AM | Sohil | 12/26/2018 8:20:42 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254331 | PR035020.D | AR-1254-1 | SOMINA | 12/26/2018 8:19:16 AM | Sohil | 12/26/2018 8:20:44 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254331 | PR035020.D | AR-1254-3 | SOMINA | 12/26/2018 8:19:16 AM | Sohil | 12/26/2018 8:20:44 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254331 | PR035020.D | AR-1254-4 | SOMINA | 12/26/2018 8:19:16 AM | Sohil | 12/26/2018 8:20:44 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254331 | PR035020.D | AR-1254-4 #2 | SOMINA | 12/26/2018 8:19:16 AM | Sohil | 12/26/2018 8:20:44 | Peak Integrated by Software incorrectly |

FORM 2C-OR
SURROGATE RECOVERY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Matrix: Soil
 GC Column (1) : ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

| EPA SAMPLE | SUR (TCX) 1-1 %R | SUR (TCX) 1-2 %R | SUR (DCB) 2-1 %R | SUR (DCB) 2-2 %R | OTHER (1) | OTHER (2) | TOT OUT |
|------------|------------------|------------------|------------------|------------------|-----------|-----------|---------|
| A41T6 | 86 | 94 | 117 | 121 | | | 0 |
| A41T6DL | 105 | 133 | 137 | 119 | | | 0 |
| A41T6DL2 | 135 | 163 D | 419 D | 149 | | | 2 |
| A41T6MS | 82 | 89 | 129 | 116 | | | 0 |
| A41T6MSD | 71 | 78 | 126 | 116 | | | 0 |
| A41W4 | 78 | 87 | 112 | 114 | | | 0 |
| A41W4DL | 80 | 98 | 137 | 129 | | | 0 |
| A41X1 | 61 | 87 | 48 | 42 | | | 0 |
| A41X2 | 55 | 79 | 47 | 48 | | | 0 |
| A41X2DL | 69 | 81 | 66 | 63 | | | 0 |
| A41X2DL2 | 82 | 99 | 107 | 72 | | | 0 |
| A41X3 | 76 | 92 | 40 | 39 | | | 0 |
| A41X4 | 62 | 71 | 29 * | 29 * | | | 2 |
| A41X5 | 85 | 101 | 55 | 73 | | | 0 |
| A41X5DL | 107 | 122 | 62 | 74 | | | 0 |
| A41X6 | 68 | 65 | 52 | 57 | | | 0 |
| A41X6DL | 67 | 76 | 58 | 64 | | | 0 |
| A41X6DL2 | 73 | 91 | 148 | 80 | | | 0 |
| A41X7 | 75 | 88 | 70 | 63 | | | 0 |
| A41X7DL | 72 | 102 | 59 | 64 | | | 0 |
| A41X8 | 75 | 81 | 60 | 60 | | | 0 |
| A41X9 | 71 | 86 | 72 | 72 | | | 0 |
| A41Y0 | 53 | 70 | 53 | 59 | | | 0 |
| A41Y1 | 39 | 50 | 47 | 43 | | | 0 |
| A41Y2 | 87 | 95 | 59 | 65 | | | 0 |
| A41Y3 | 55 | 65 | 53 | 56 | | | 0 |
| A41Y3DL | 79 | 92 | 56 | 54 | | | 0 |

QC LIMITS

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

(30-150)
 (30-150)

FORM 2C-OR
SURROGATE RECOVERY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Matrix: Soil
 GC Column (1) : ZB-MR1 ID: 0.32 (mm) GC Column (2) : ZB-MR2 ID: 0.32 (mm)

| EPA SAMPLE | SUR (TCX) 1-1 %R | SUR (TCX) 1-2 %R | SUR (DCB) 2-1 %R | SUR (DCB) 2-2 %R | OTHER (1) | OTHER (2) | TOT OUT |
|---------------|---------------------|---------------------|---------------------|---------------------|--------------|--------------|------------|
| A41Z4 | 86 | 95 | 96 | 95 | | | 0 |
| ABLK54 | 83 | 90 | 96 | 99 | | | 0 |
| ALCS54 | 85 | 92 | 98 | 101 | | | 0 |

QC LIMITS

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

(30-150)
 (30-150)

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No .: _____ SDG No. : A41T6
 Analytical Method : ARO Level : _____
 Matrix Soil
 EPA Sample No. (Matrix Spike/Matrix Spike Duplicate): A41T6
 Instrument ID : ECD_R GC Column ZB-MR1 ID : 0.32 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/kg

| ANALYTE | SPIKE | SAMPLE | MS | MS %R # | QC |
|---------|-------|---------------|---------------|---------|-----------|
| | ADDED | CONCENTRATION | CONCENTRATION | | Limits %R |
| AR1016 | 170 | 0.0 | 5100 | 3045 * | 29 - 135 |
| AR1260 | 170 | 6800 | 5300 | 0 * | 29 - 135 |

| ANALYTE | SPIKE AADDED | MSD CONCENTRATION | MSD %R # | RPD | QC Limits | |
|---------|-----------------|----------------------|----------|-----|-----------|----------|
| | | | | | RPD | %R |
| AR1016 | 170 | 4600 | 2748 * | 10 | 15 | 29 - 135 |
| AR1260 | 170 | 4900 | 0 * | 0 | 20 | 29 - 135 |

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No .: _____ SDG No. : A41T6
 Analytical Method : ARO Level : _____
 Matrix Soil
 EPA Sample No. (Matrix Spike/Matrix Spike Duplicate): A41T6
 Instrument ID : ECD_R GC Column ZB-MR2 ID : 0.32 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/kg

| ANALYTE | SPIKE | SAMPLE | MS | MS %R # | | QC |
|---------|-------|---------------|---------------|---------|---|-----------|
| | ADDED | CONCENTRATION | CONCENTRATION | | | Limits %R |
| AR1016 | 170 | 0.0 | 8000 | 4717 | * | 29 - 135 |
| AR1260 | 170 | 7100 | 5600 | 0 | * | 29 - 135 |

| ANALYTE | SPIKE AADDDED | MSD CONCENTRATION | MSD %R # | | RPD | QC Limits | |
|---------|------------------|----------------------|----------|---|-----|-----------|----------|
| | | | | | | RPD | %R |
| AR1016 | 170 | 7200 | 4269 | * | 10 | 15 | 29 - 135 |
| AR1260 | 170 | 5200 | 0 | * | 0 | 20 | 29 - 135 |

FORM 3B-OR
 LABORATORY CONTROL
 SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS54

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No. : _____ SDG No. : A41T6
 Analytical Method: ARO
 Matrix : Soil Lab Sample ID : PB115754BS
 LCS Lot No. : PP14582 Date Extracted : 12/17/2018
 Concentration Units (ug/L,mg/L,ug/kg) : ug/kg

Instrument ID (1) : ECD_R GC Column (1) : ZB-MR1 ID : 0.32 (mm)
 Date Analyzed (1) : 12/20/2018

| ANALYTE | AMOUNT ADDED | AMOUNT RECOVERED | % R | QC LIMITS |
|---------|--------------|------------------|-----|-----------|
| AR1016 | 33.33 | 34 | 103 | 50-150 |
| AR1260 | 33.33 | 35 | 106 | 50-150 |

Instrument ID (2) : ECD_R GC Column (2) : ZB-MR2 ID : 0.32 (mm)
 Date Analyzed (2) : 12/20/2018

| ANALYTE | AMOUNT ADDED | AMOUNT RECOVERED | % R | QC LIMITS |
|---------|--------------|------------------|-----|-----------|
| AR1016 | 33.33 | 34 | 103 | 50-150 |
| AR1260 | 33.33 | 38 | 114 | 50-150 |

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK54

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115754BL
 Instrument ID: ECD_R Lab File ID : PR034922.D
 Extraction Type: SOXH Date Extracted : 12/17/2018
 GC Column (1) : ZB-MR1 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 GC Column (2) : ZB-MR2 ID : 0.32 (mm) Time Analyzed : 13:54
 Heated Purge : (Y/N) _____ Cleanup(Y/N) : Y Cleanup Types : Acid

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED |
|----------------|---------------|-------------|----------------------|
| ALCS54 | PB115754BS | PR034923.D | 12/20/2018 14:09 |
| A41T6 | J6431-01 | PR034924.D | 12/20/2018 14:23 |
| A41T6MS | J6431-02MS | PR034925.D | 12/20/2018 14:38 |
| A41T6MSD | J6431-03MSD | PR034926.D | 12/20/2018 14:52 |
| A41W4 | J6431-04 | PR034932.D | 12/20/2018 16:19 |
| A41X1 | J6431-05 | PR034933.D | 12/20/2018 16:33 |
| A41X2 | J6431-06 | PR034934.D | 12/20/2018 16:48 |
| A41X3 | J6431-07 | PR034935.D | 12/20/2018 17:02 |
| A41X4 | J6431-08 | PR034936.D | 12/20/2018 17:17 |
| A41X5 | J6431-09 | PR034937.D | 12/20/2018 17:31 |
| A41X6 | J6431-10 | PR034938.D | 12/20/2018 17:46 |
| A41X7 | J6431-11 | PR034939.D | 12/20/2018 18:00 |
| A41X8 | J6431-12 | PR034940.D | 12/20/2018 18:15 |
| A41X9 | J6431-13 | PR034941.D | 12/20/2018 18:29 |
| A41Y0 | J6431-14 | PR034942.D | 12/20/2018 18:44 |
| A41Y1 | J6431-15 | PR034943.D | 12/20/2018 18:58 |
| A41Y3 | J6431-17 | PR034945.D | 12/20/2018 19:27 |
| A41Z4 | J6431-18 | PR034946.D | 12/20/2018 19:41 |
| A41X7DL | J6431-11DL | PR034984.D | 12/21/2018 18:20 |
| A41X6DL | J6431-10DL | PR034985.D | 12/21/2018 18:34 |
| A41X6DL2 | J6431-10DL2 | PR034986.D | 12/21/2018 18:48 |
| A41X5DL | J6431-09DL | PR034987.D | 12/21/2018 19:03 |
| A41X2DL | J6431-06DL | PR034988.D | 12/21/2018 19:17 |
| A41X2DL2 | J6431-06DL2 | PR034989.D | 12/21/2018 19:32 |
| A41W4DL | J6431-04DL | PR034990.D | 12/21/2018 19:46 |
| A41T6DL | J6431-01DL | PR034991.D | 12/21/2018 20:01 |
| A41T6DL2 | J6431-01DL2 | PR034992.D | 12/21/2018 20:15 |
| A41Y2 | J6431-16 | PR034994.D | 12/21/2018 20:44 |
| A41Y3DL | J6431-17DL | PR034995.D | 12/21/2018 20:59 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T6

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-01
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034924.D
 % Solids : 78.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 6900 | EC |
| 11097-69-1 | Aroclor-1254 | 6500 | EC |
| 11096-82-5 | Aroclor-1260 | 6800 | EC |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

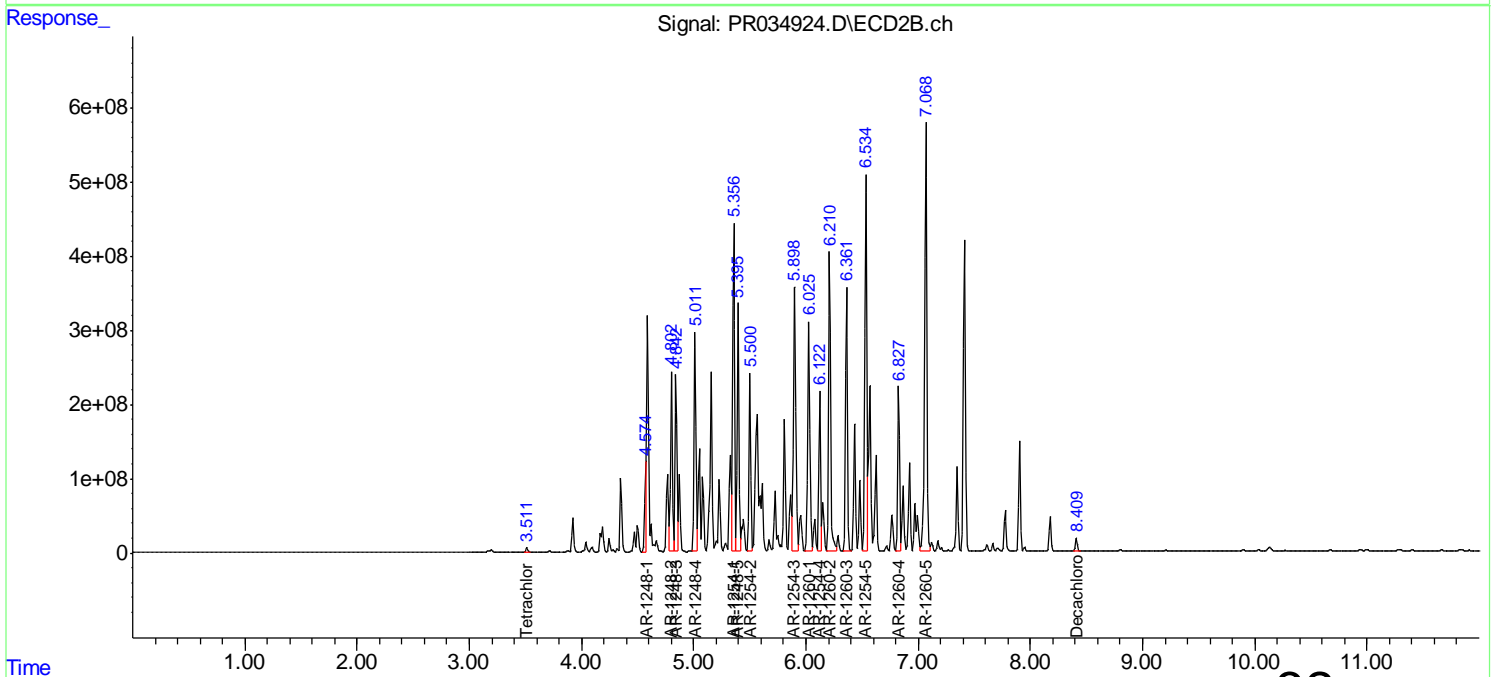
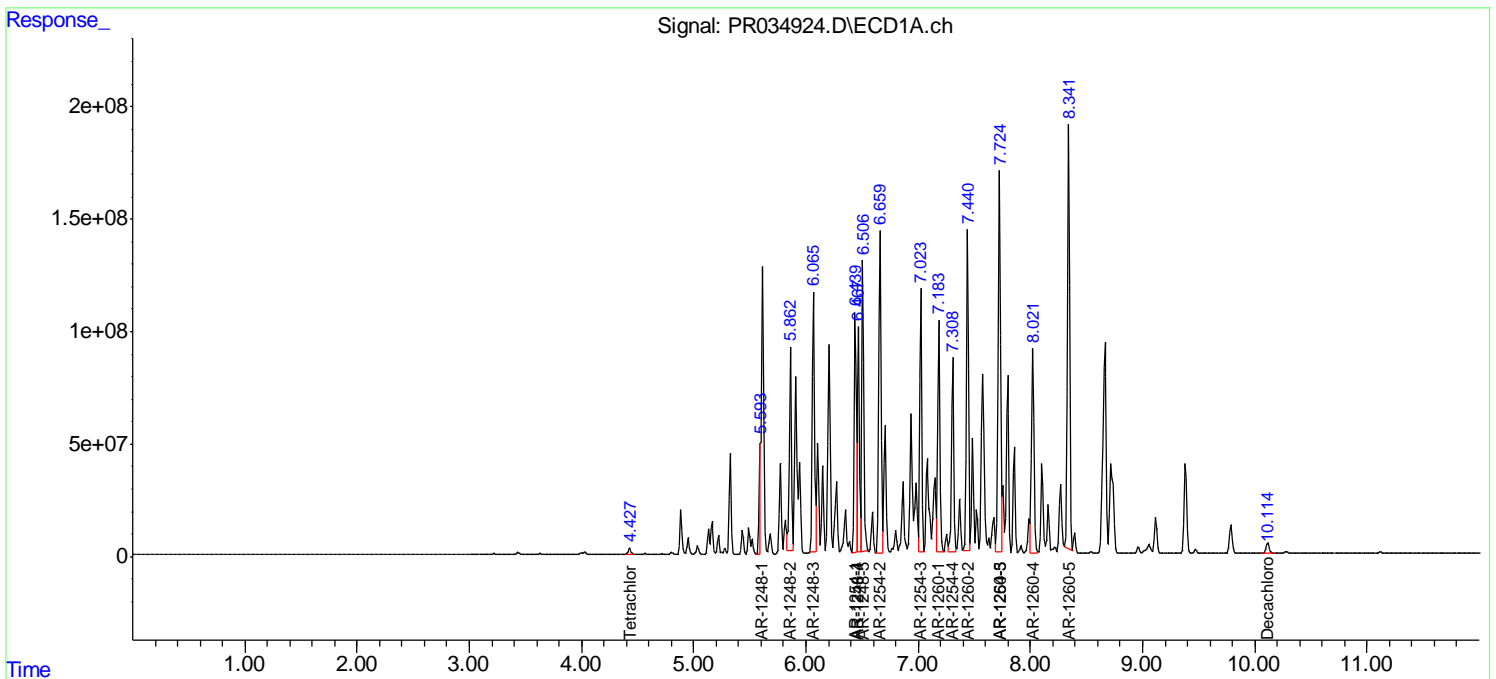
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 Data File : PR034924.D
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 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
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 Quant Time: Dec 21 00:41:42 2018
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 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|-----------------|--------|-------|----------|----------|------------|-------------|
| ----- | | | | | | | |
| System Monitoring Compounds | | | | | | | |
| 1) | SA Tetrachlo... | 4.427 | 3.511 | 33463155 | 65743941 | 17.204m | 18.859m |
| 2) | SA Decachlor... | 10.114 | 8.409 | 92059181 | 212.7E6 | 46.827 | 48.373m |
| Target Compounds | | | | | | | |
| 21) | L5 AR-1248-1 | 5.593 | 4.574 | 414.4E6 | 912.1E6 | 8539.540m | 9354.813m |
| 22) | L5 AR-1248-2 | 5.862 | 4.802 | 1158.6E6 | 2644.9E6 | 17534.766m | 20646.682 |
| 23) | L5 AR-1248-3 | 6.065 | 4.842 | 1559.0E6 | 2729.8E6 | 20865.516 | 20684.077 |
| 24) | L5 AR-1248-4 | 6.467 | 5.011 | 1247.0E6 | 3411.4E6 | 13956.538 | 20734.362 # |
| 25) | L5 AR-1248-5 | 6.506 | 5.396 | 1716.4E6 | 3606.5E6 | 20514.064 | 21549.819 |
| 26) | L6 AR-1254-1 | 6.439 | 5.356 | 1293.8E6 | 4963.2E6 | 15835.315 | 20283.124 # |
| 27) | L6 AR-1254-2 | 6.660 | 5.501 | 2108.6E6 | 2577.2E6 | 16501.974 | 12117.387 # |
| 28) | L6 AR-1254-3 | 7.023 | 5.898 | 1466.6E6 | 5190.7E6 | 10865.896 | 14526.689 # |
| 29) | L6 AR-1254-4 | 7.308 | 6.123 | 1143.5E6 | 2331.4E6 | 10779.392m | 9870.836 |
| 30) | L6 AR-1254-5 | 7.724 | 6.534 | 2514.9E6 | 6430.7E6 | 23472.097m | 20162.591 |
| 31) | L7 AR-1260-1 | 7.184 | 6.025 | 1390.7E6 | 4236.9E6 | 14793.710 | 19709.054 # |
| 32) | L7 AR-1260-2 | 7.440 | 6.211 | 1866.4E6 | 4835.5E6 | 16075.961 | 17769.721 |
| 33) | L7 AR-1260-3 | 7.724 | 6.361 | 2499.3E6 | 3934.2E6 | 17908.553m | 15848.616 |
| 34) | L7 AR-1260-4 | 8.021 | 6.827 | 1429.8E6 | 2441.3E6 | 16556.078m | 14277.438 |
| 35) | L7 AR-1260-5 | 8.341 | 7.069 | 2627.8E6 | 7726.9E6 | 14554.342 | 15976.325 |
| ----- | | | | | | | |

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

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 Data File : PR034924.D
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 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

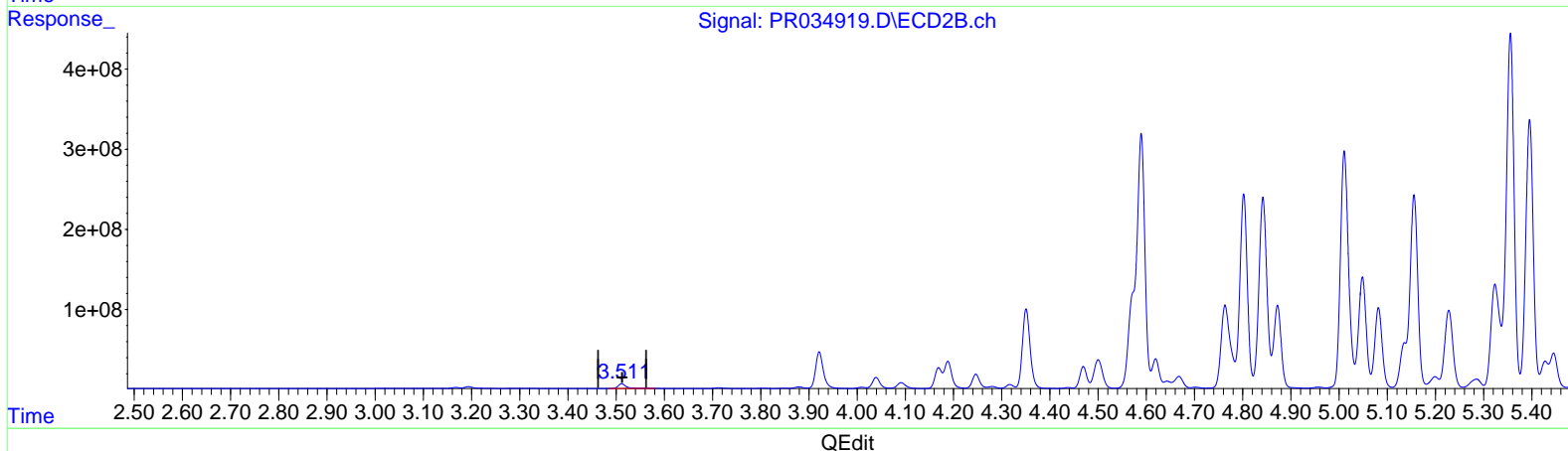
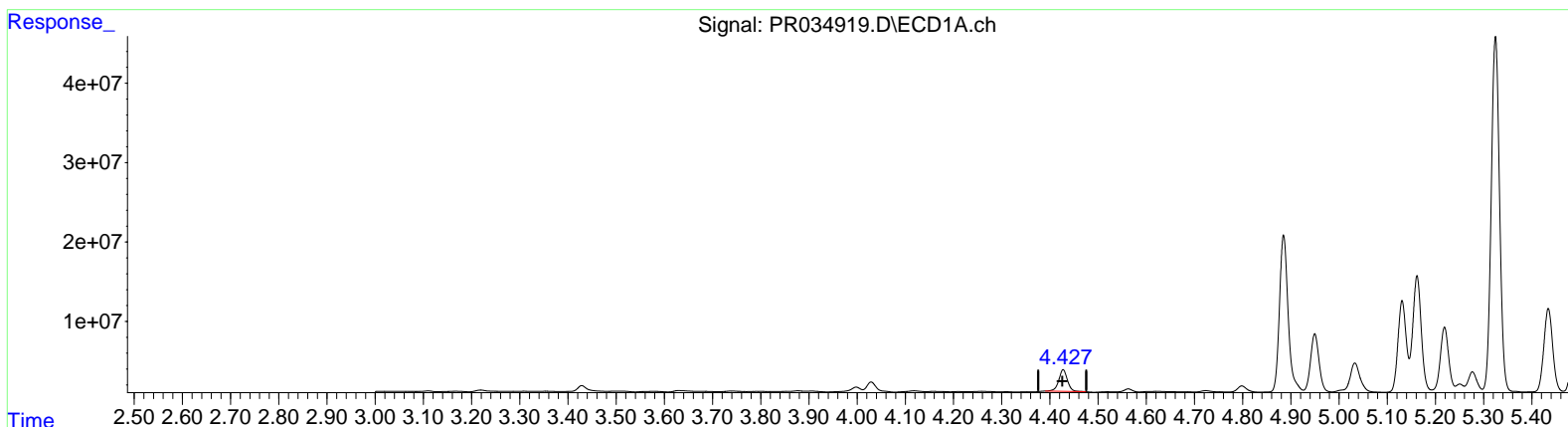
Instrument :
 ECD_R
 ClientSampled :
 A41T6

Manual Integrations
 APPROVED

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 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.428min 17.717 ng/ml

response 34459654

(1) Tetrachloro-m-xylene #2 (SA)

3.512min 20.111 ng/ml

response 70105821

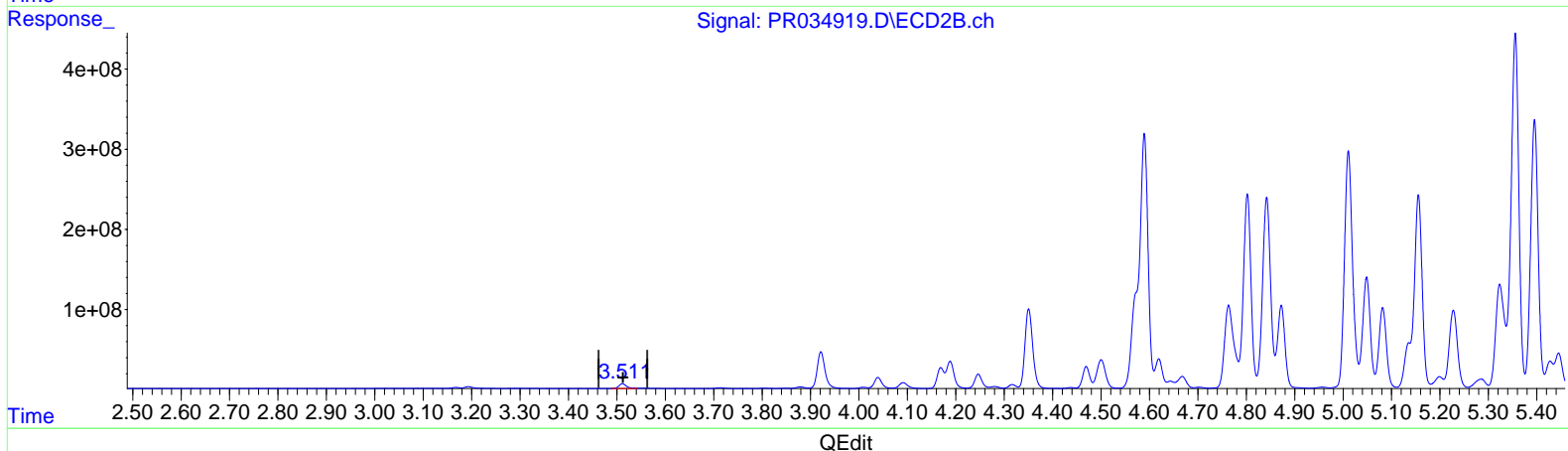
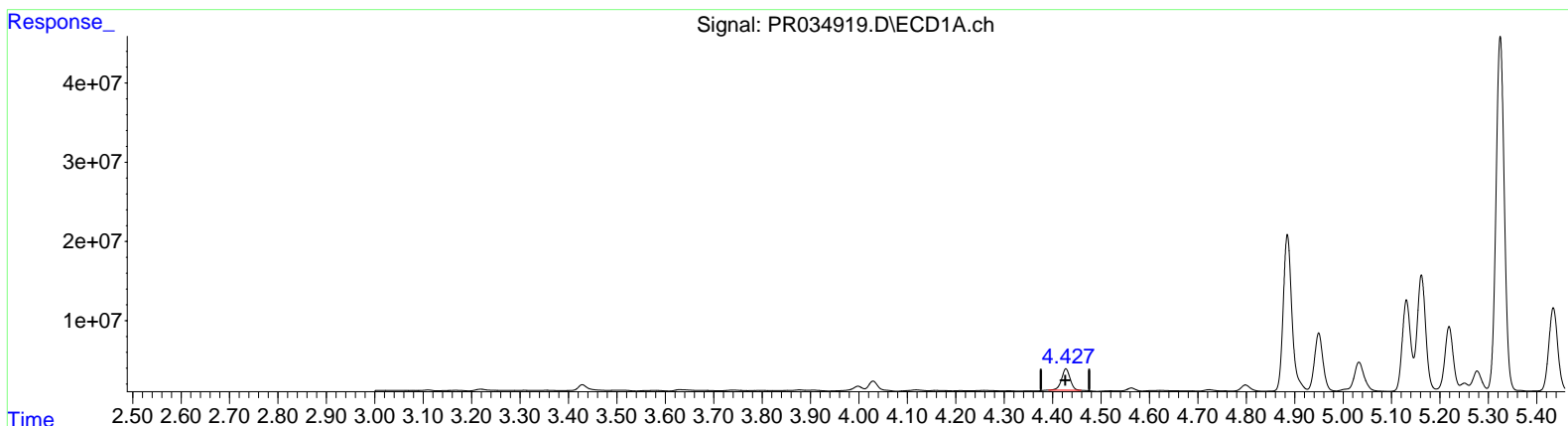
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 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.427min 17.204 ng/ml m
 response 33463155

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 18.859 ng/ml m
 response 65743941

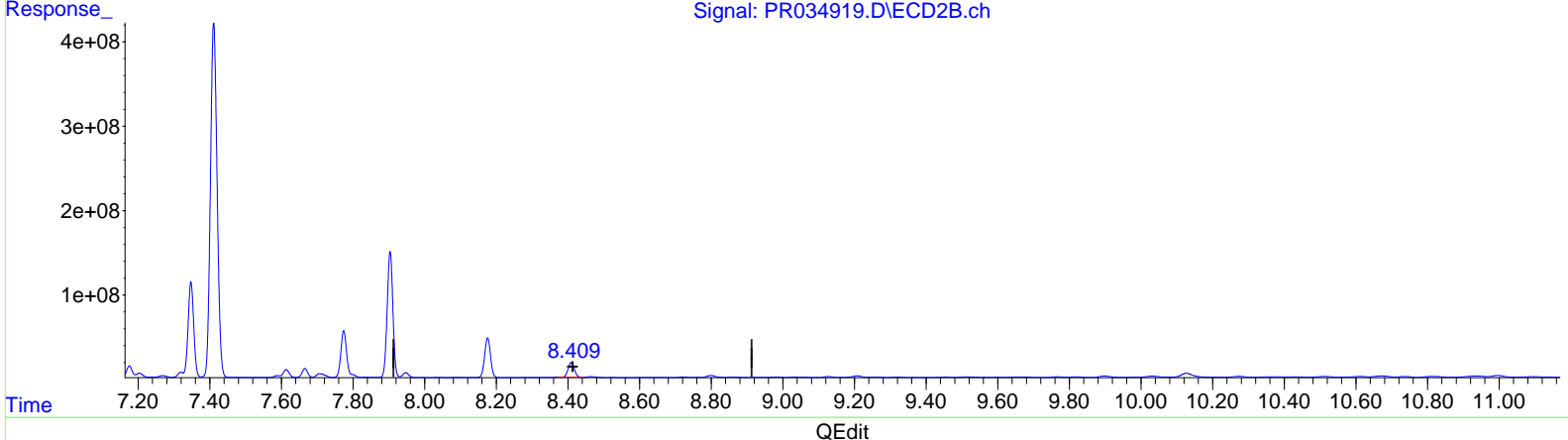
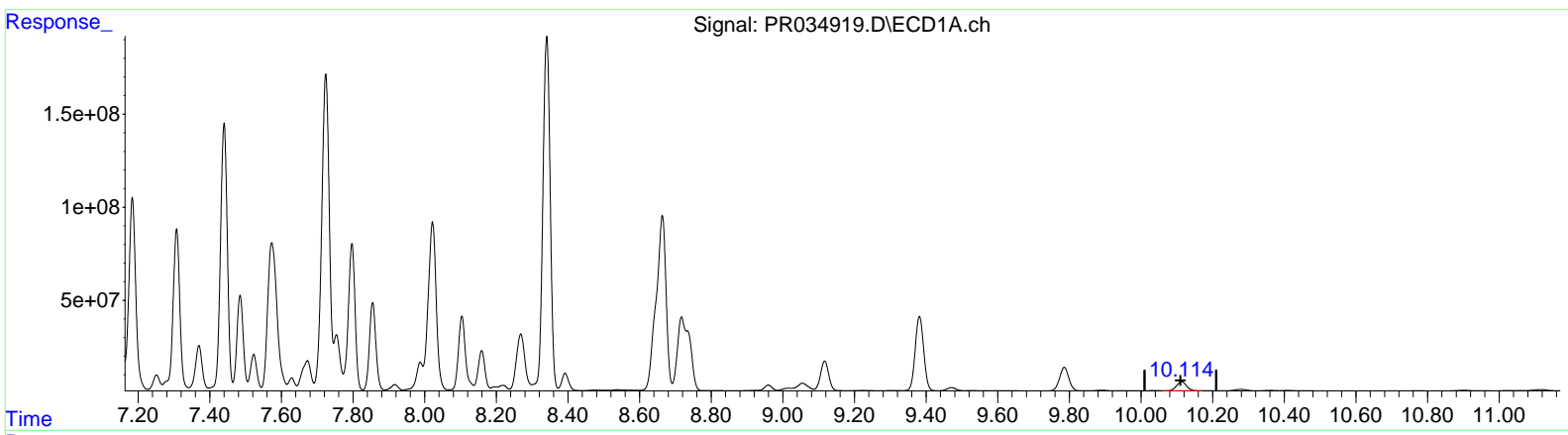
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 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41T6

Manual Integrations
 APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.114min 46.827 ng/ml
 response 92059181

(2) Decachlorobiphenyl #2 (SA)
 8.409min 48.294 ng/ml
 response 212334626

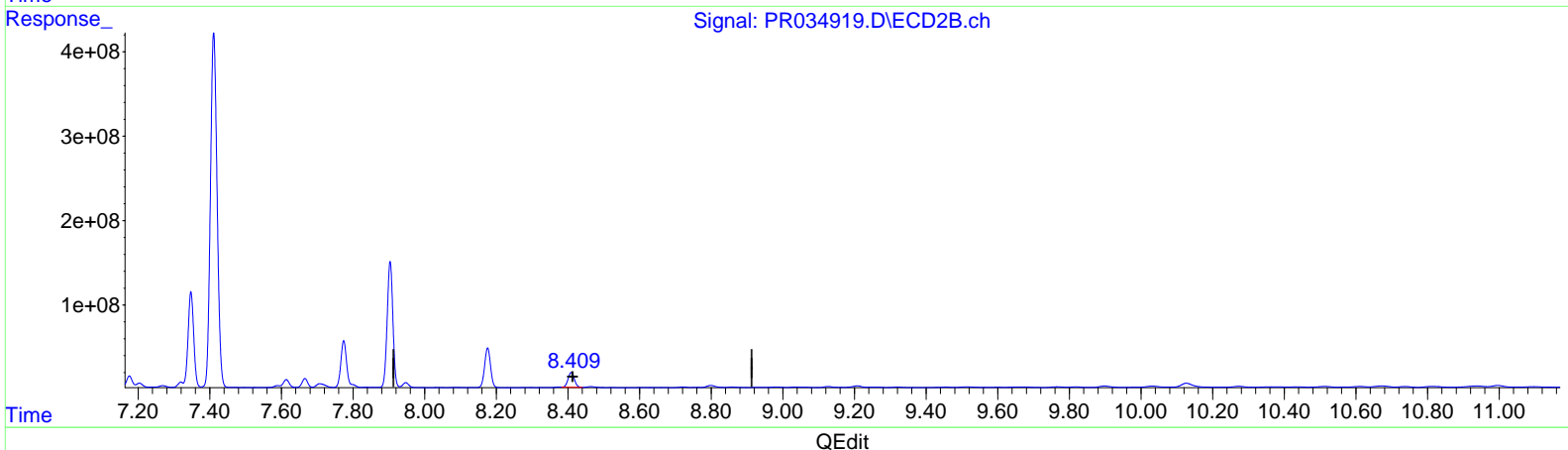
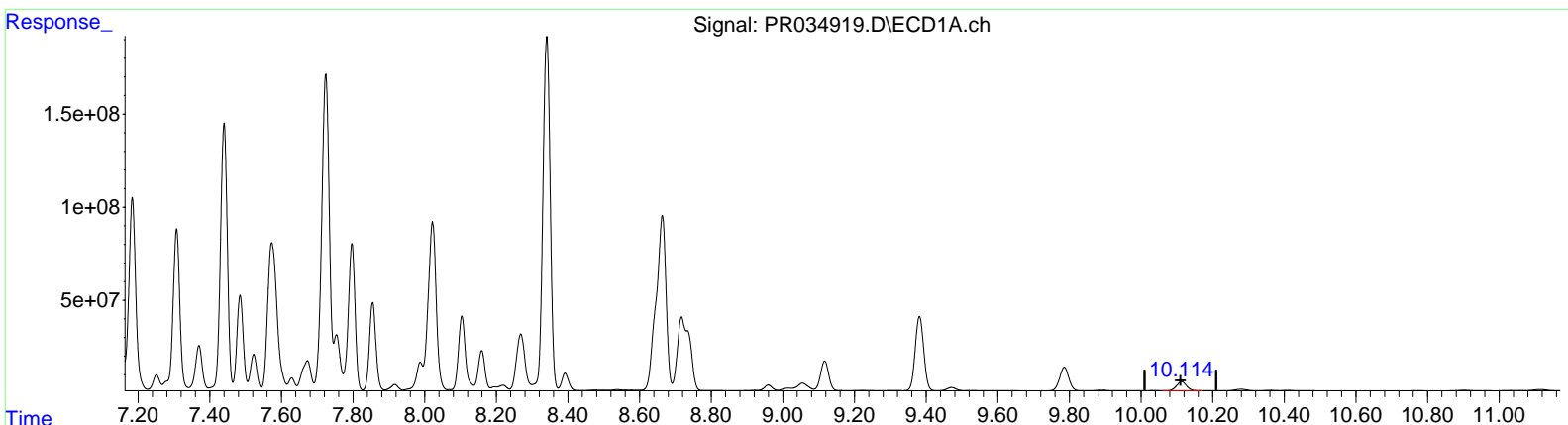
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 Data File : PR034924.D
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 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)

10.114min 46.827 ng/ml

response 92059181

(2) Decachlorobiphenyl #2 (SA)

8.409min 48.373 ng/ml m

response 212679198

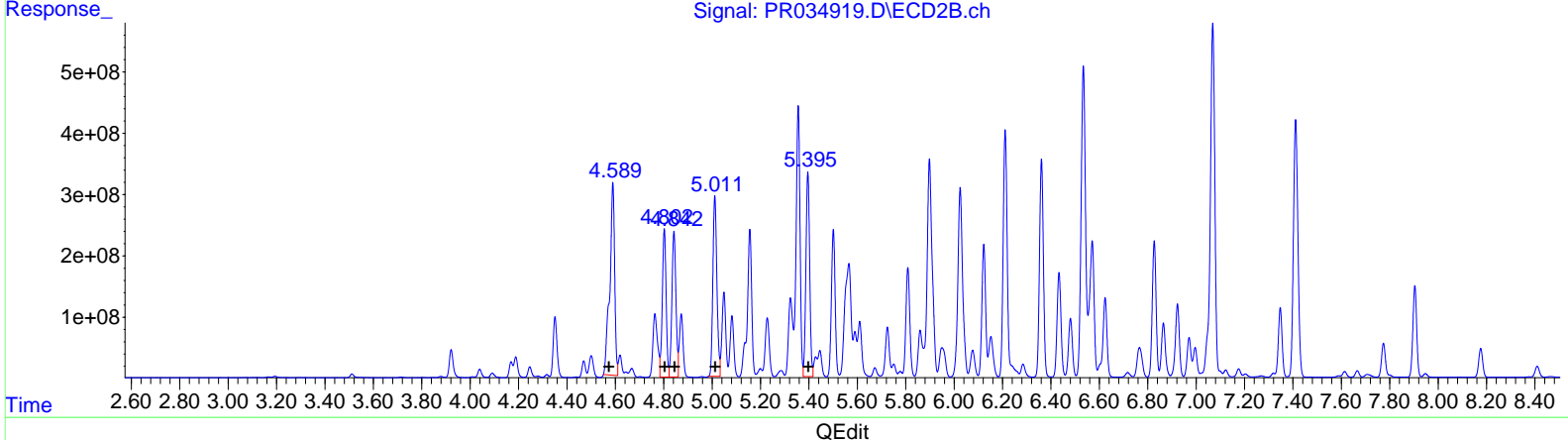
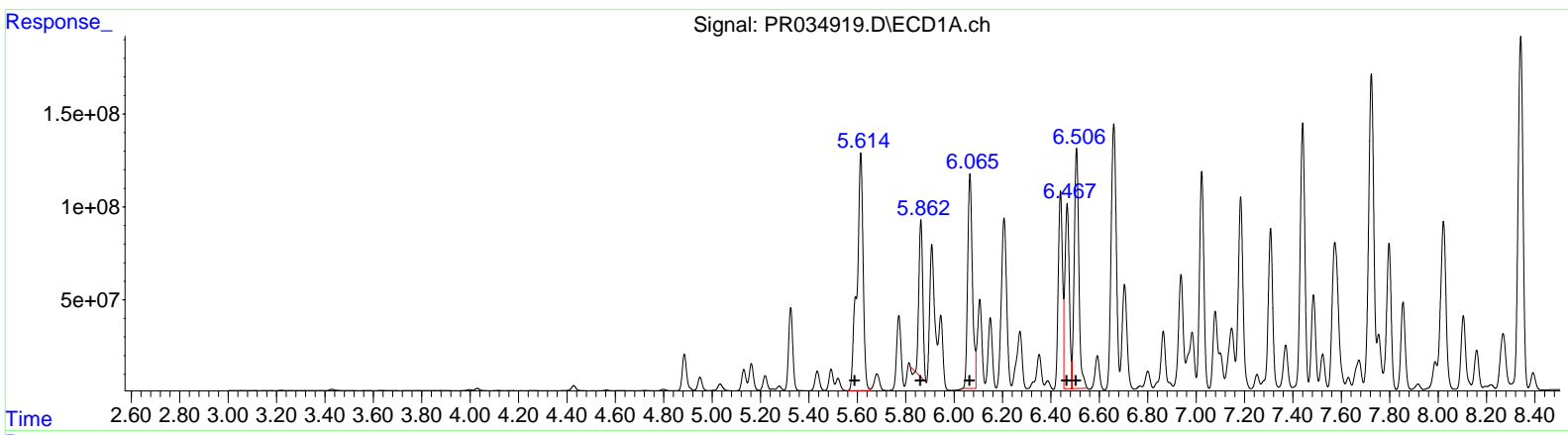
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6

Manual Integrations
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 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | | |
|------------------------|------------|----------|--|
| R.T. | Response | Conc | |
| 5.61 | 2255866933 | 46491.03 | |
| 5.86 | 935892315 | 14164.41 | |
| 6.07 | 1558965288 | 20865.52 | |
| 6.47 | 1246959904 | 13956.54 | |
| 6.51 | 1716375592 | 20514.06 | |
| (21) AR-1248-1 #2 (L5) | | | |
| R.T. | Response | Conc | |
| 4.59 | 4417949525 | 45311.52 | |
| 4.80 | 2644889778 | 20646.68 | |
| 4.84 | 2729826242 | 20684.08 | |
| 5.01 | 3411430813 | 20734.36 | |
| 5.40 | 3606484768 | 21549.82 | |

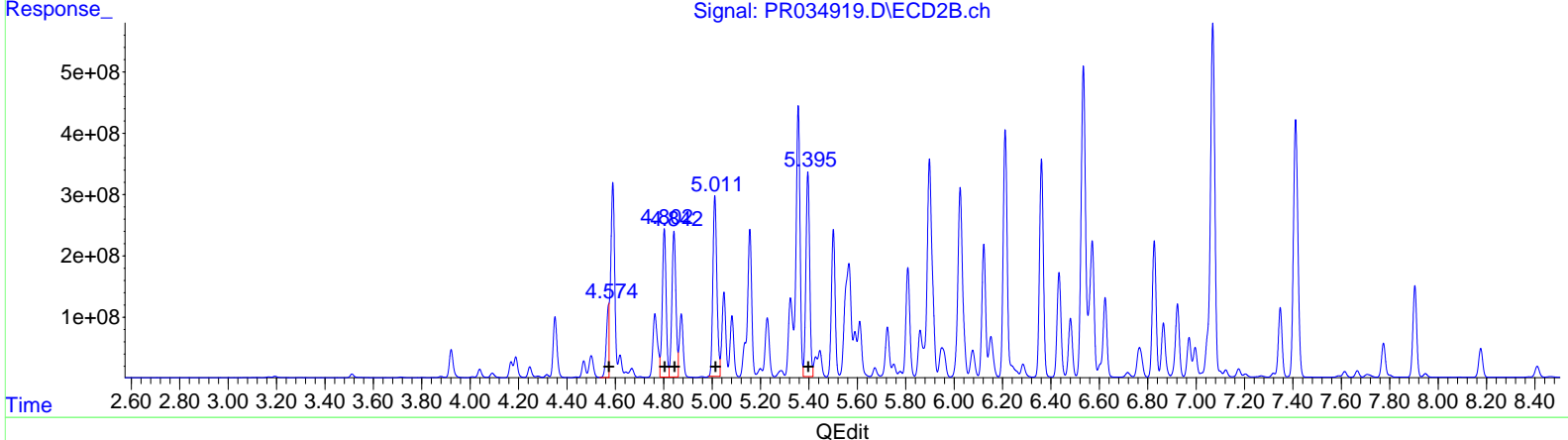
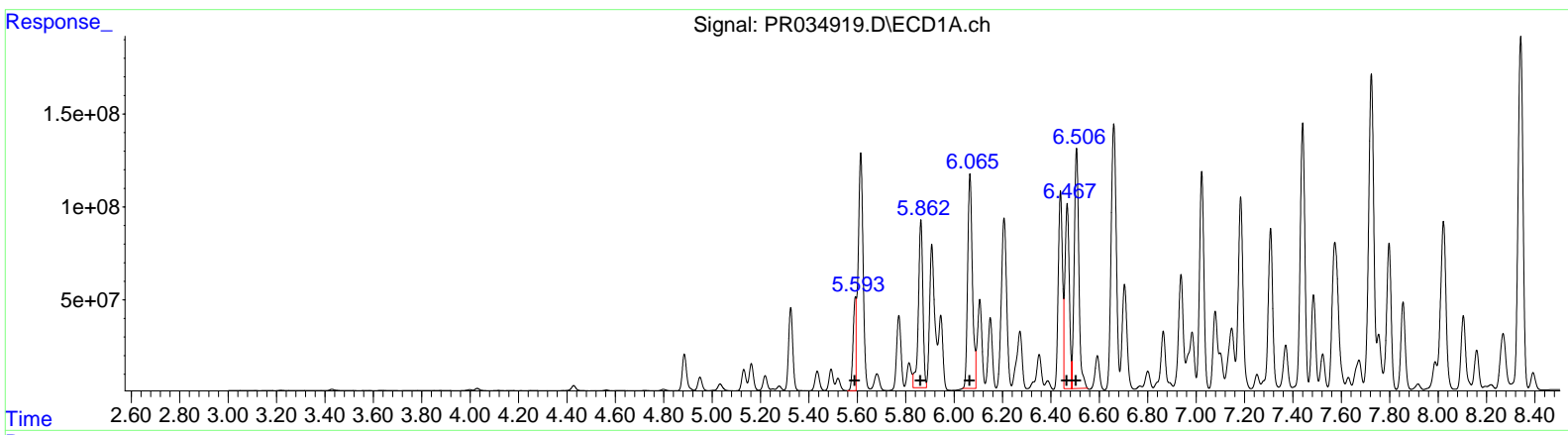
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 5.59 | 414360917 | 8539.54 |
| 5.86 | 1158583401 | 17534.77 |
| 6.07 | 1558965288 | 20865.52 |
| 6.47 | 1246959904 | 13956.54 |
| 6.51 | 1716375592 | 20514.06 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 4.57 | 912110048 | 9354.81 |
| 4.80 | 2644889778 | 20646.68 |
| 4.84 | 2729826242 | 20684.08 |
| 5.01 | 3411430813 | 20734.36 |
| 5.40 | 3606484768 | 21549.82 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

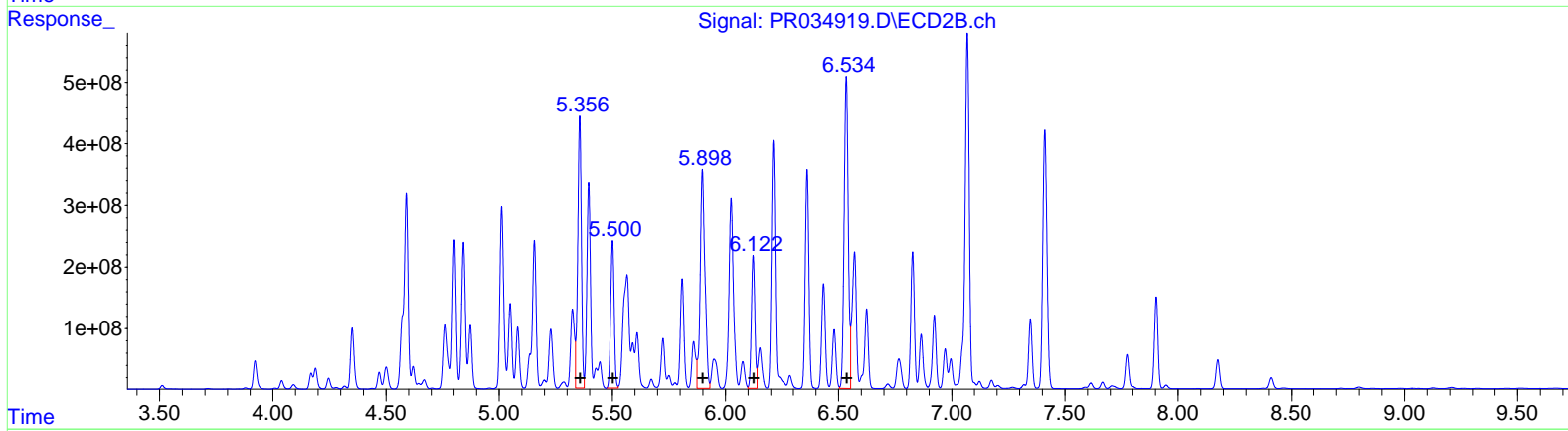
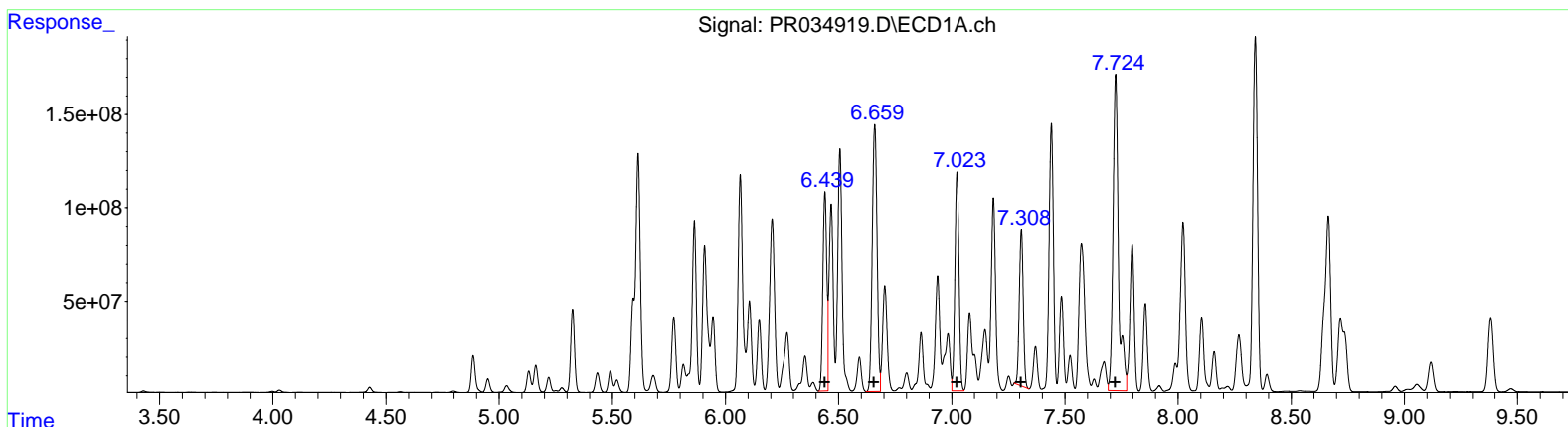
Instrument :
 ECD_R
 Client Sampled :
 A41T6

Manual Integrations
 APPROVED

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 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 6.44 | 1293824780 | 15835.31 |
| 6.66 | 2108566633 | 16501.97 |
| 7.02 | 1466592288 | 10865.90 |
| 7.31 | 1024541323 | 9658.39 |
| 7.72 | 2842057454 | 26525.75 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.36 | 4963152167 | 20283.12 |
| 5.50 | 2577241067 | 12117.39 |
| 5.90 | 5190651495 | 14526.69 |
| 6.12 | 2331396367 | 9870.84 |
| 6.53 | 6430692761 | 20162.59 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

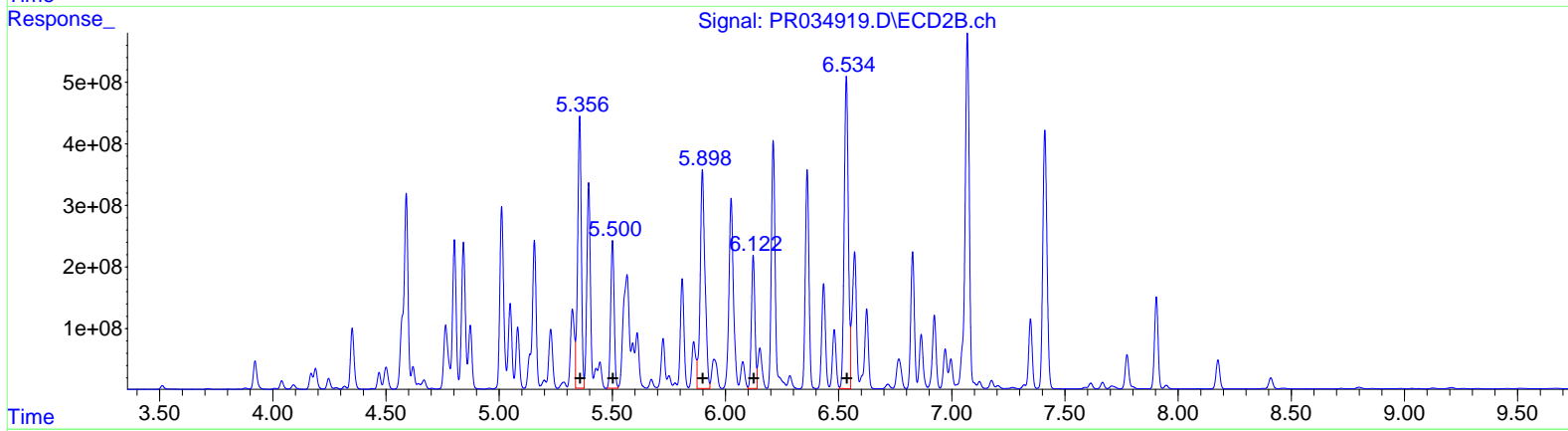
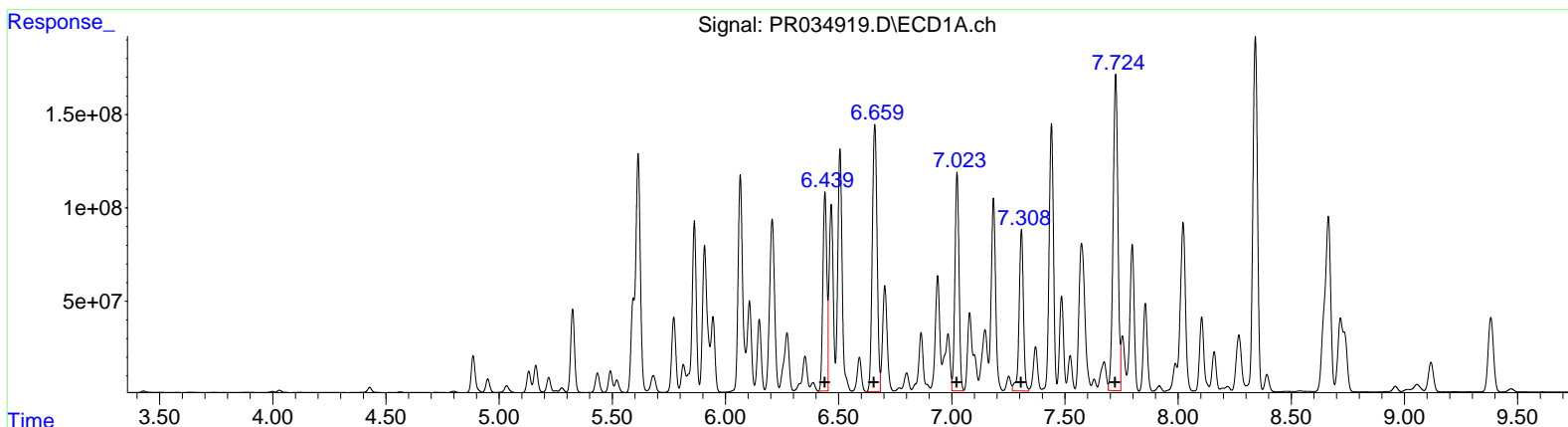
Instrument :
 ECD_R
 ClientSampled :
 A41T6

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 6.44 | 1293824780 | 15835.31 |
| 6.66 | 2108566633 | 16501.97 |
| 7.02 | 1466592288 | 10865.90 |
| 7.31 | 1143454969 | 10779.39 |
| 7.72 | 2514879277 | 23472.10 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 5.36 | 4963152167 | 20283.12 |
| 5.50 | 2577241067 | 12117.39 |
| 5.90 | 5190651495 | 14526.69 |
| 6.12 | 2331396367 | 9870.84 |
| 6.53 | 6430692761 | 20162.59 |

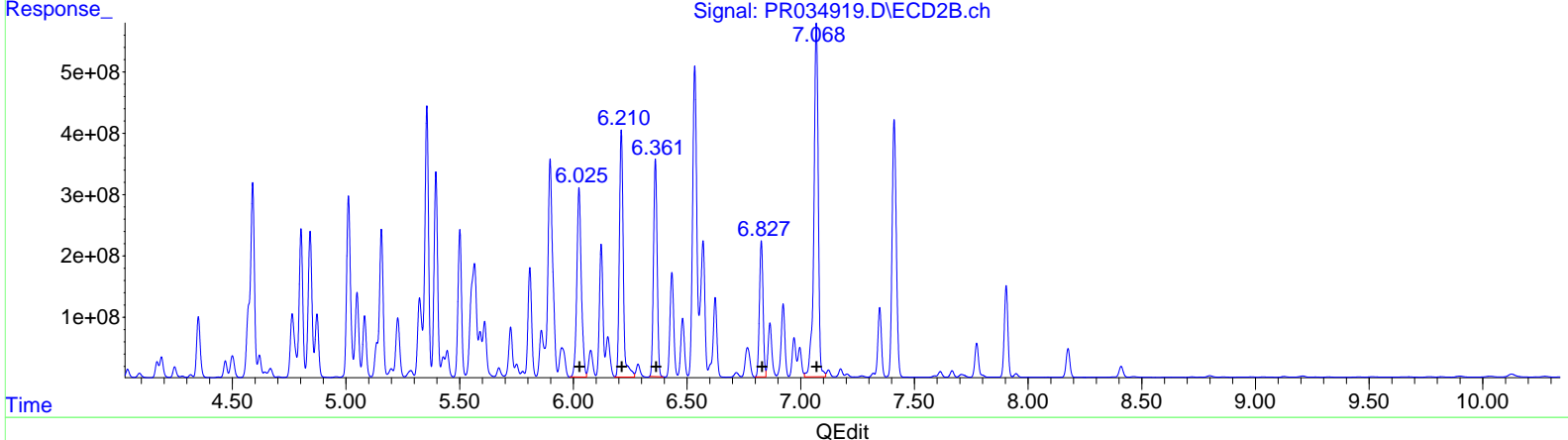
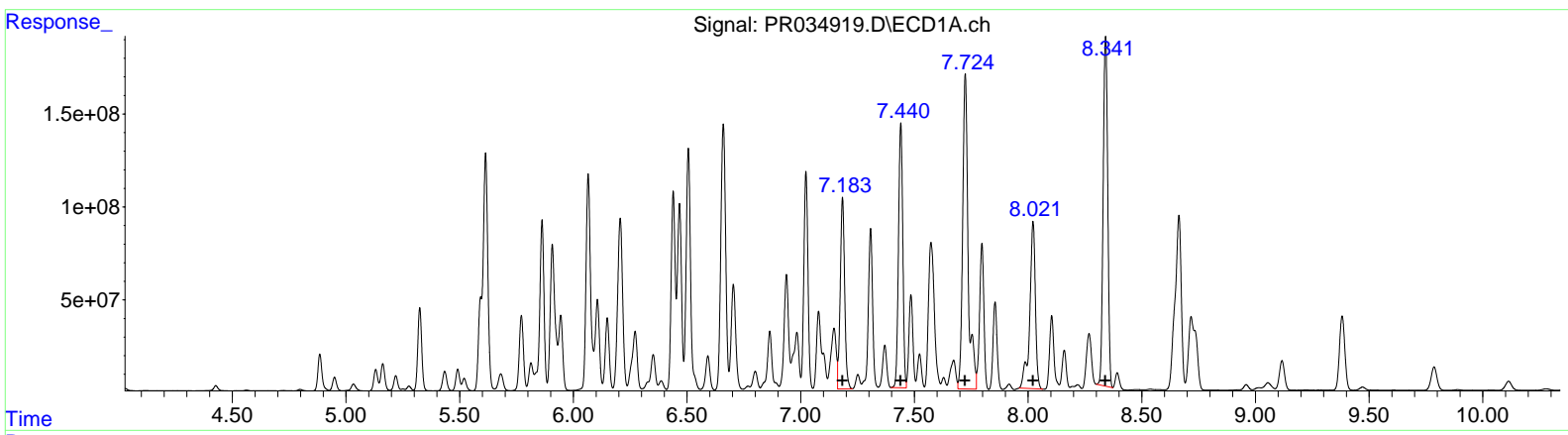
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T6

Manual Integrations
 APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 7.18 | 1390727135 | 14793.71 |
| 7.44 | 1866437922 | 16075.96 |
| 7.72 | 2842057454 | 20364.94 |
| 8.02 | 1558473290 | 18045.49 |
| 8.34 | 2627840838 | 14554.34 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 6.03 | 4236898536 | 19709.05 |
| 6.21 | 4835524528 | 17769.72 |
| 6.36 | 3934194782 | 15848.62 |
| 6.83 | 2441303762 | 14277.44 |
| 7.07 | 7726875628 | 15976.32 |

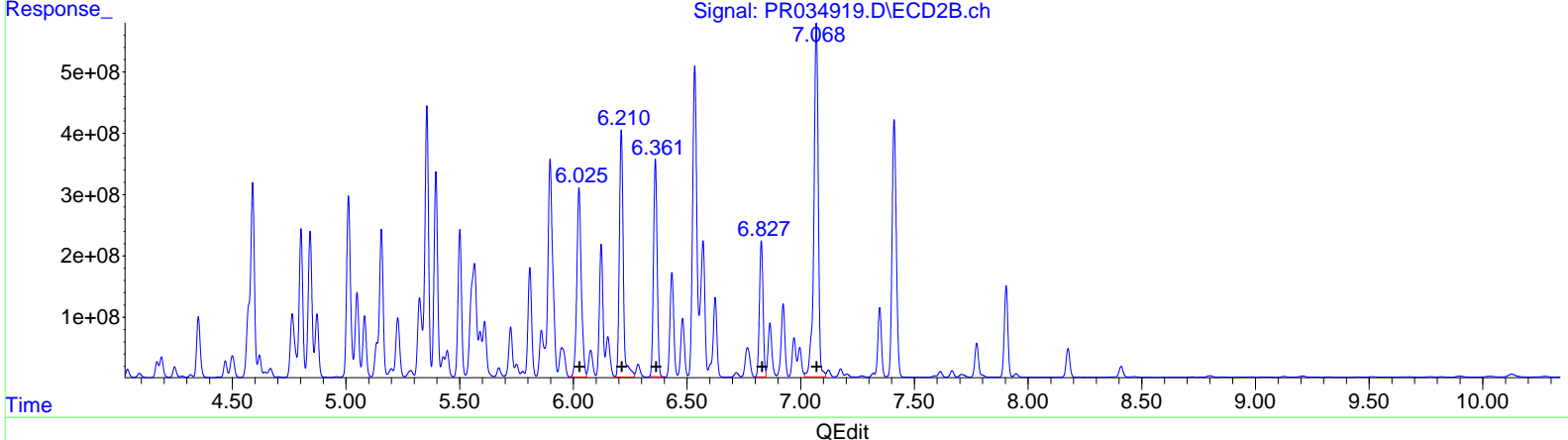
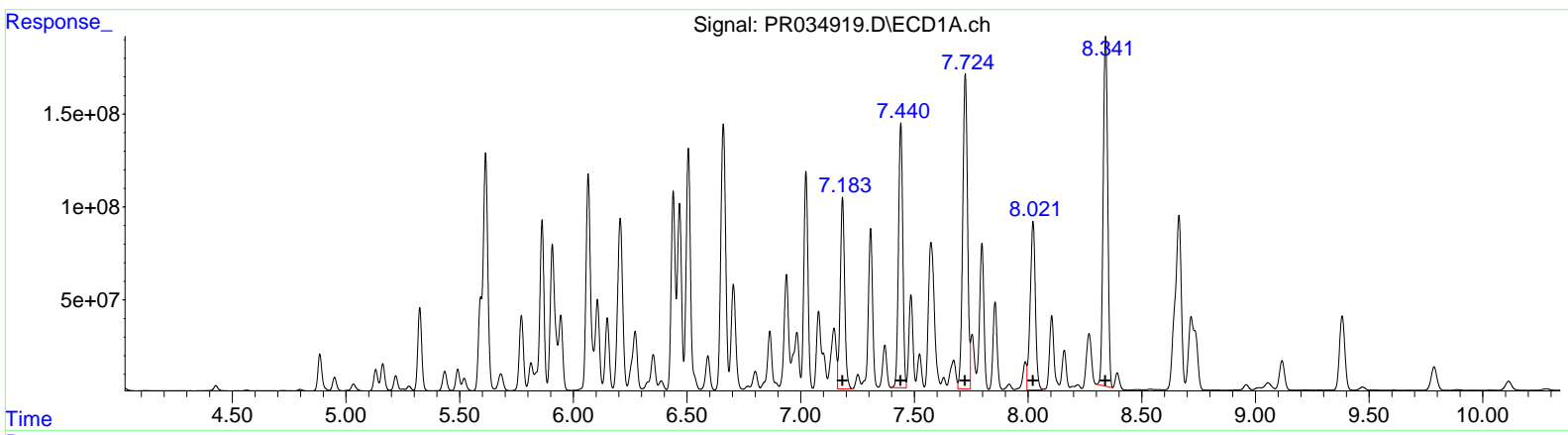
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|------------|----------|
| 7.18 | 1390727135 | 14793.71 |
| 7.44 | 1866437922 | 16075.96 |
| 7.72 | 2499253284 | 17908.55 |
| 8.02 | 1429842245 | 16556.08 |
| 8.34 | 2627840838 | 14554.34 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|------------|----------|
| 6.03 | 4236898536 | 19709.05 |
| 6.21 | 4835524528 | 17769.72 |
| 6.36 | 3934194782 | 15848.62 |
| 6.83 | 2441303762 | 14277.44 |
| 7.07 | 7726875628 | 15976.32 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034924.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:23
 Operator : SM\SJ
 Sample : J6431-01
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T6

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:47 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 33463155 | 65743941 | 17.204m | 18.859m |
| 2) SA Decachlor... | 10.114 | 8.409 | 92059181 | 212.7E6 | 46.827 | 48.373m |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.593 | 4.574 | 414.4E6 | 912.1E6 | 8539.540m | 9354.813m |
| 22) L5 AR-1248-2 | 5.862 | 4.802 | 1158.6E6 | 2644.9E6 | 17534.766m | 20646.682 |
| 23) L5 AR-1248-3 | 6.065 | 4.842 | 1559.0E6 | 2729.8E6 | 20865.516 | 20684.077 |
| 24) L5 AR-1248-4 | 6.467 | 5.011 | 1247.0E6 | 3411.4E6 | 13956.538 | 20734.362 # |
| 25) L5 AR-1248-5 | 6.506 | 5.396 | 1716.4E6 | 3606.5E6 | 20514.064 | 21549.819 |
| 26) L6 AR-1254-1 | 6.439 | 5.356 | 1293.8E6 | 4963.2E6 | 15835.315 | 20283.124 # |
| 27) L6 AR-1254-2 | 6.660 | 5.501 | 2108.6E6 | 2577.2E6 | 16501.974 | 12117.387 # |
| 28) L6 AR-1254-3 | 7.023 | 5.898 | 1466.6E6 | 5190.7E6 | 10865.896 | 14526.689 # |
| 29) L6 AR-1254-4 | 7.308 | 6.123 | 1143.5E6 | 2331.4E6 | 10779.392m | 9870.836 |
| 30) L6 AR-1254-5 | 7.724 | 6.534 | 2514.9E6 | 6430.7E6 | 23472.097m | 20162.591 |
| 31) L7 AR-1260-1 | 7.184 | 6.025 | 1390.7E6 | 4236.9E6 | 14793.710 | 19709.054 # |
| 32) L7 AR-1260-2 | 7.440 | 6.211 | 1866.4E6 | 4835.5E6 | 16075.961 | 17769.721 |
| 33) L7 AR-1260-3 | 7.724 | 6.361 | 2499.3E6 | 3934.2E6 | 17908.553m | 15848.616 |
| 34) L7 AR-1260-4 | 8.021 | 6.827 | 1429.8E6 | 2441.3E6 | 16556.078m | 14277.438 |
| 35) L7 AR-1260-5 | 8.341 | 7.069 | 2627.8E6 | 7726.9E6 | 14554.342 | 15976.325 |

53
 12/26/18

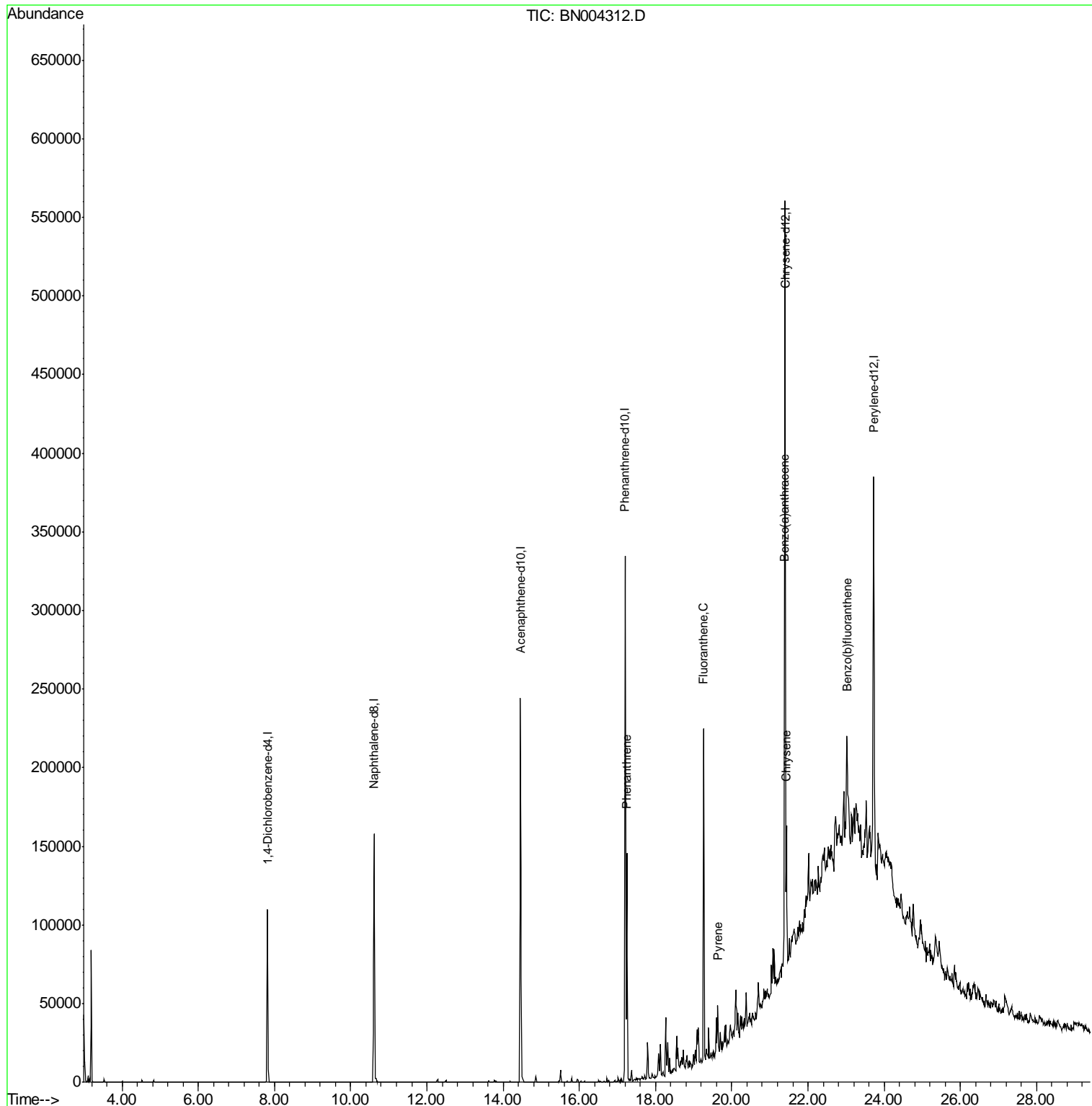
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

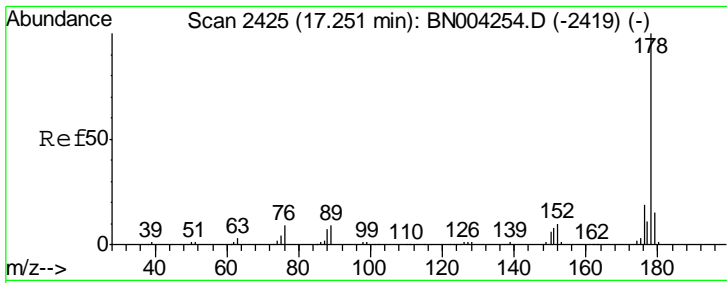
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004312.D
 Acq On : 02 Jan 2019 15:45
 Operator : JU/SJ
 Sample : J6431-01
 Misc : GCMS Confirmation
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampled :
 A41T6

Manual Integrations
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 Sohil
 1/2/2019 4:47:41 PM

Quant Time: Jan 02 16:36:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration



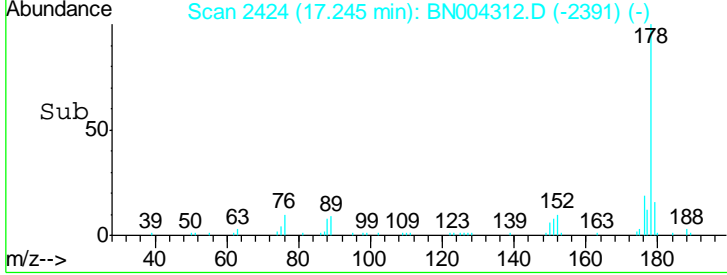
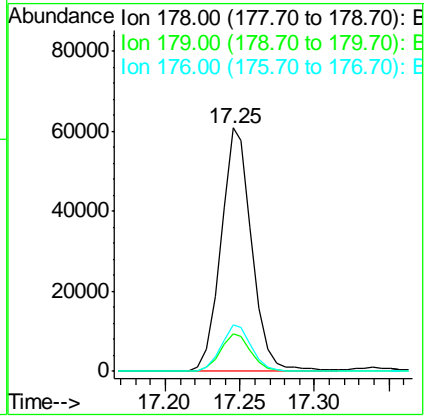
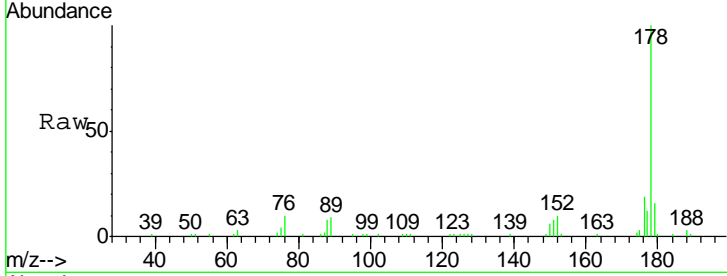


#69
 Phenanthrene
 Concen: 7.412 ng/ul
 RT: 17.25 min Scan# 2424
 Delta R.T. -0.01 min
 Lab File: BN004312.D
 Acq: 02 Jan 2019 15:45

Instrument :
 BNA_N
ClientSampled :
 A41T6

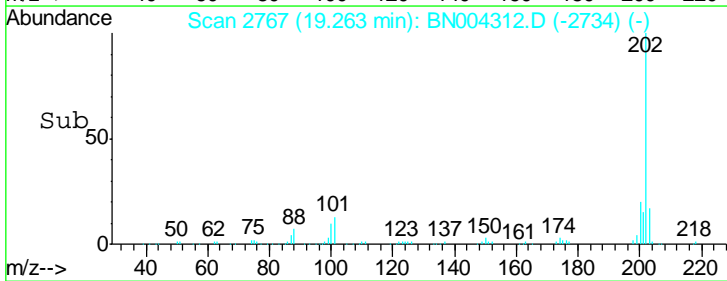
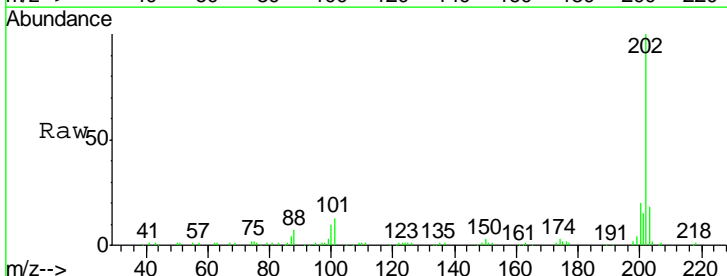
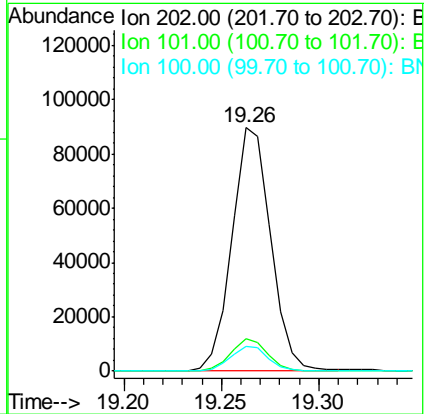
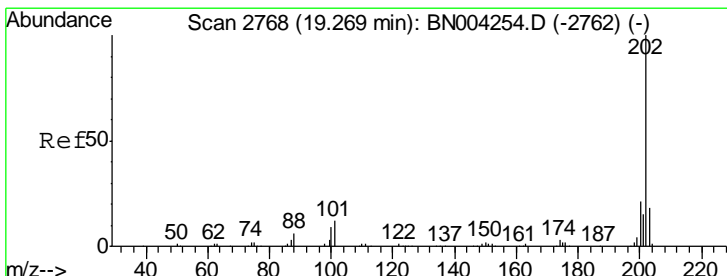
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178 | 100 | | |
| 179 | 15.6 | 12.1 | 18.1 |
| 176 | 19.0 | 15.0 | 22.6 |

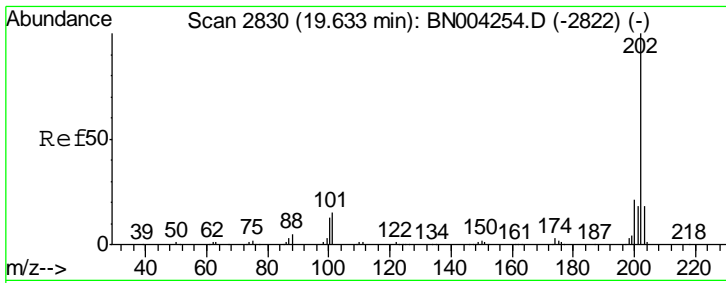
Manual Integrations
APPROVED
 Sohil
 1/2/2019 4:47:41 PM



#76
 Fluoranthene
 Concen: 8.499 ng/ul
 RT: 19.26 min Scan# 2767
 Delta R.T. -0.01 min
 Lab File: BN004312.D
 Acq: 02 Jan 2019 15:45

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 13.1 | 10.2 | 15.2 |
| 100 | 10.2 | 7.8 | 11.8 |





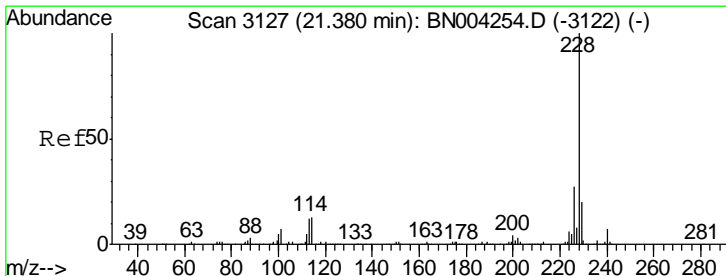
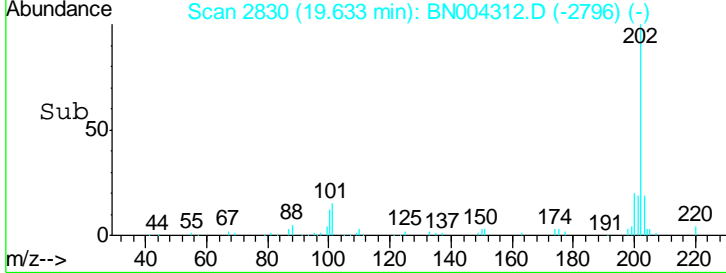
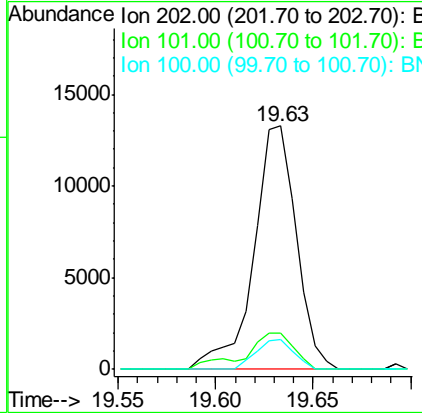
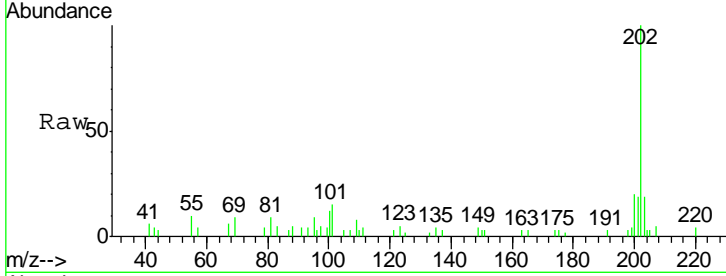
#79
 Pyrene
 Concen: 1.708 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. -0.00 min
 Lab File: BN004312.D
 Acq: 02 Jan 2019 15:45

Instrument :
 BNA_N
 ClientSampled :
 A41T6

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202 | 100 | | |
| 101 | 14.7 | 12.2 | 18.2 |
| 100 | 12.1 | 9.9 | 14.9 |

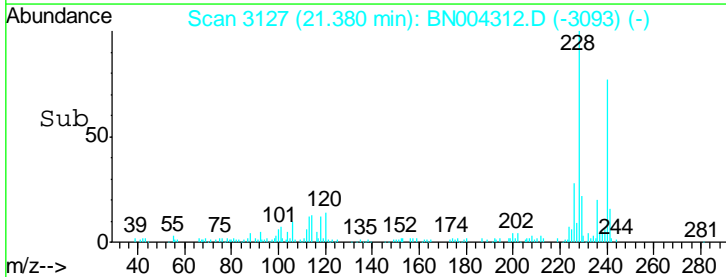
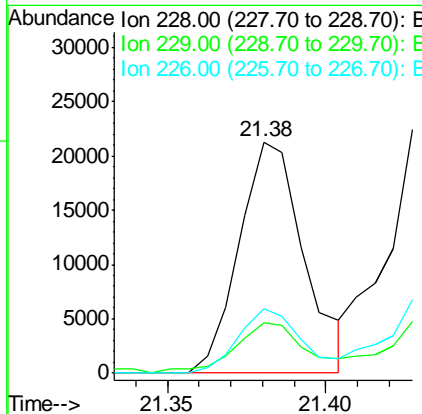
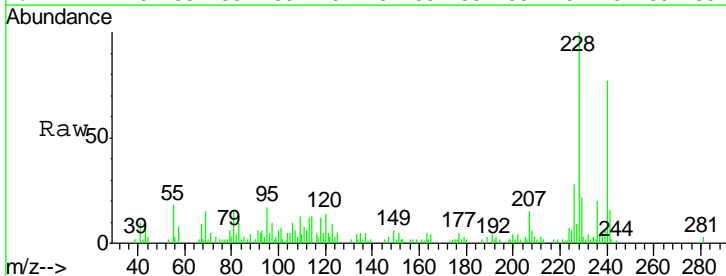
Manual Integrations
 APPROVED

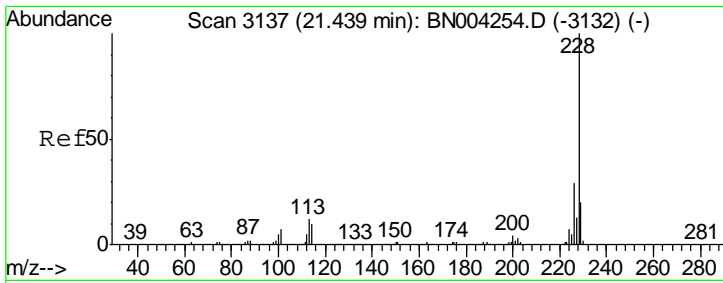
Sohil
 1/2/2019 4:47:41 PM



#82
 Benzo(a)anthracene
 Concen: 2.307 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. -0.00 min
 Lab File: BN004312.D
 Acq: 02 Jan 2019 15:45

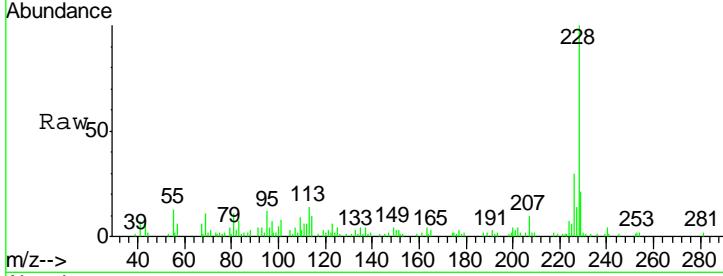
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228 | 100 | | |
| 229 | 21.7 | 15.9 | 23.9 |
| 226 | 27.6 | 21.4 | 32.2 |





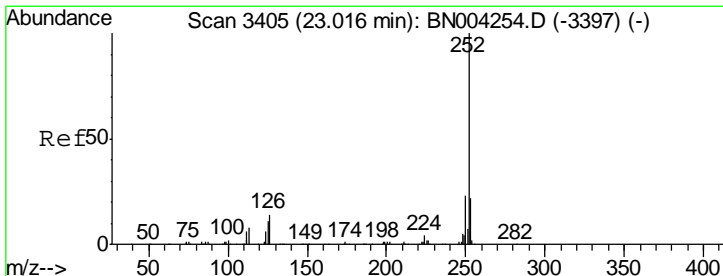
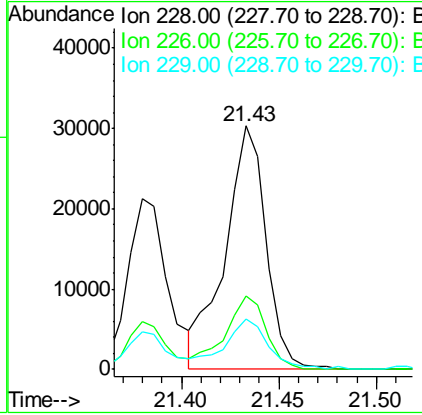
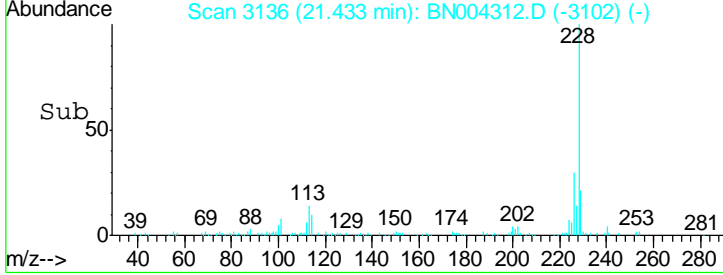
#84
 Chrysene
 Concen: 3.604 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. -0.00 min
 Lab File: BN004312.D
 Acq: 02 Jan 2019 15:45

Instrument :
 BNA_N
 ClientSampled :
 A41T6

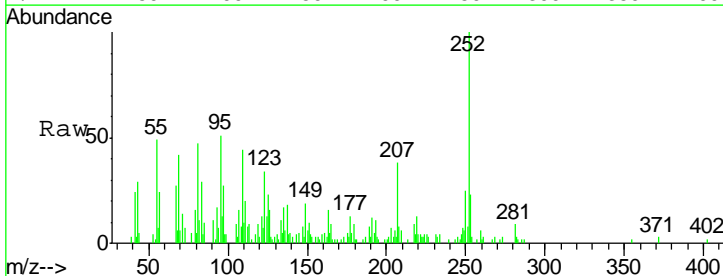


| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 226 | 30.0 | 23.8 | 35.8 |
| 229 | 20.9 | 15.8 | 23.6 |

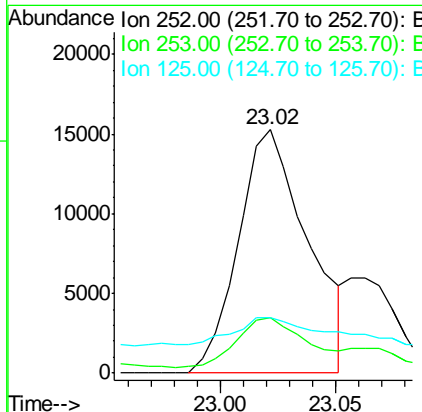
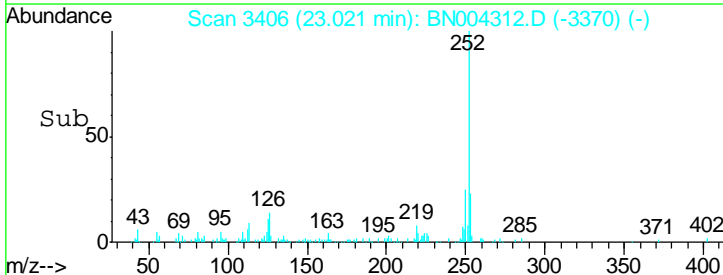
Manual Integrations
 APPROVED
 Sohil
 1/2/2019 4:47:41 PM



#87
 Benzo(b)fluoranthene
 Concen: 2.846 ng/ul
 RT: 23.02 min Scan# 3406
 Delta R.T. 0.01 min
 Lab File: BN004312.D
 Acq: 02 Jan 2019 15:45



| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 23.0 | 17.3 | 25.9 |
| 125 | 22.6 | 8.2 | 12.4# |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004312.D
 Acq On : 02 Jan 2019 15:45
 Operator : JU/SJ
 Sample : J6431-01
 Misc : GCMS Confirmation
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T6

Manual Integrations
 APPROVED

Sohil
 1/2/2019 4:47:41 PM

Quant Time: Jan 02 16:36:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 31954 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.61 | 136 | 144630 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 87196 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 204972 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 210231 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.73 | 264 | 187632 | 20.00 | ng/ul | 0.01 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0 | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|--------------------------|-------|-----|--------|--------------|--------|
| 69) Phenanthrene | 17.25 | 178 | 87786 | 7.412 ng/ul | 99 |
| 76) Fluoranthene | 19.26 | 202 | 123373 | 8.499 ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 20060 | 1.708 ng/ul | 99 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 30245 | 2.307 ng/ul | 97 |
| 84) Chrysene | 21.43 | 228 | 44260 | 3.604 ng/ul | 99 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 31993 | 2.846 ng/ul# | 87 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004312.D
 Acq On : 02 Jan 2019 15:45
 Operator : JU/SJ
 Sample : J6431-01
 Misc : GCMS Confirmation
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T6

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.193 | 31 | 35 | 41 | rVB | 83906 | 93329 | 13.15% | 2.336% |
| 2 | 7.816 | 815 | 821 | 829 | rBB | 109980 | 166920 | 23.52% | 4.177% |
| 3 | 10.610 | 1290 | 1296 | 1303 | rBV | 158201 | 267878 | 37.74% | 6.704% |
| 4 | 14.457 | 1944 | 1950 | 1959 | rBV2 | 244524 | 382085 | 53.84% | 9.562% |
| 5 | 15.510 | 2125 | 2129 | 2134 | rBB | 7621 | 9981 | 1.41% | 0.250% |
| 6 | 17.204 | 2411 | 2417 | 2421 | rBV2 | 334174 | 486171 | 68.50% | 12.166% |
| 7 | 17.245 | 2421 | 2424 | 2432 | rVB | 144401 | 197115 | 27.77% | 4.933% |
| 8 | 17.375 | 2441 | 2446 | 2449 | rVB | 6890 | 9091 | 1.28% | 0.228% |
| 9 | 17.798 | 2512 | 2518 | 2524 | rBV2 | 22760 | 37248 | 5.25% | 0.932% |
| 10 | 18.080 | 2557 | 2566 | 2570 | rBV | 15346 | 29936 | 4.22% | 0.749% |
| 11 | 18.127 | 2570 | 2574 | 2580 | rVB | 20643 | 28094 | 3.96% | 0.703% |
| 12 | 18.263 | 2593 | 2597 | 2603 | rBV3 | 37215 | 62566 | 8.82% | 1.566% |
| 13 | 18.322 | 2603 | 2607 | 2611 | rVV3 | 20034 | 30255 | 4.26% | 0.757% |
| 14 | 18.363 | 2611 | 2614 | 2618 | rVB2 | 10127 | 13493 | 1.90% | 0.338% |
| 15 | 18.551 | 2642 | 2646 | 2649 | rBV | 22545 | 30380 | 4.28% | 0.760% |
| 16 | 18.580 | 2649 | 2651 | 2661 | rVB2 | 13437 | 24612 | 3.47% | 0.616% |
| 17 | 18.686 | 2666 | 2669 | 2673 | rVV2 | 6803 | 9958 | 1.40% | 0.249% |
| 18 | 18.727 | 2673 | 2676 | 2680 | rVB | 10353 | 12421 | 1.75% | 0.311% |
| 19 | 18.827 | 2690 | 2693 | 2698 | rVB3 | 7950 | 10311 | 1.45% | 0.258% |
| 20 | 18.910 | 2705 | 2707 | 2715 | rVB3 | 3908 | 7450 | 1.05% | 0.186% |
| 21 | 18.998 | 2715 | 2722 | 2726 | rBV2 | 8756 | 15917 | 2.24% | 0.398% |
| 22 | 19.039 | 2726 | 2729 | 2734 | rVV5 | 9115 | 13717 | 1.93% | 0.343% |
| 23 | 19.086 | 2734 | 2737 | 2740 | rVV | 21647 | 30799 | 4.34% | 0.771% |
| 24 | 19.122 | 2740 | 2743 | 2748 | rVB3 | 21955 | 35247 | 4.97% | 0.882% |
| 25 | 19.263 | 2762 | 2767 | 2774 | rBV | 212376 | 286911 | 40.43% | 7.180% |
| 26 | 19.392 | 2786 | 2789 | 2793 | rVB2 | 19460 | 20822 | 2.93% | 0.521% |
| 27 | 19.592 | 2819 | 2823 | 2826 | rBV2 | 21924 | 29410 | 4.14% | 0.736% |
| 28 | 19.633 | 2826 | 2830 | 2837 | rVB | 29564 | 43948 | 6.19% | 1.100% |
| 29 | 19.698 | 2838 | 2841 | 2845 | rBV | 11935 | 15851 | 2.23% | 0.397% |
| 30 | 19.810 | 2858 | 2860 | 2863 | rVV2 | 10636 | 8861 | 1.25% | 0.222% |
| 31 | 19.839 | 2863 | 2865 | 2869 | rVB | 13885 | 15883 | 2.24% | 0.397% |
| 32 | 19.963 | 2881 | 2886 | 2891 | rBV2 | 11107 | 25796 | 3.63% | 0.646% |
| 33 | 20.104 | 2906 | 2910 | 2912 | rBV | 22303 | 26416 | 3.72% | 0.661% |
| 34 | 20.163 | 2917 | 2920 | 2923 | rVB2 | 12548 | 13340 | 1.88% | 0.334% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004312.D
 Acq On : 02 Jan 2019 15:45
 Operator : JU/SJ
 Sample : J6431-01
 Misc : GCMS Confirmation
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T6

Integration Parameters: LSCINT.P
 Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 35 | 20.227 | 2928 | 2931 | 2935 | rBV | 9428 | 10287 | 1.45% | 0.257% |
| 36 | 20.380 | 2954 | 2957 | 2960 | rVB | 21465 | 23212 | 3.27% | 0.581% |
| 37 | 21.039 | 3067 | 3069 | 3072 | rBV | 16421 | 18612 | 2.62% | 0.466% |
| 38 | 21.080 | 3073 | 3076 | 3079 | rVV | 24589 | 30745 | 4.33% | 0.769% |
| 39 | 21.116 | 3080 | 3082 | 3086 | rVB | 22281 | 26907 | 3.79% | 0.673% |
| 40 | 21.398 | 3123 | 3130 | 3134 | rBV | 486777 | 709721 | 100.00% | 17.761% |
| 41 | 21.433 | 3134 | 3136 | 3142 | rVB | 86794 | 101821 | 14.35% | 2.548% |
| 42 | 23.021 | 3403 | 3406 | 3411 | rBV | 41608 | 60924 | 8.58% | 1.525% |
| 43 | 23.721 | 3520 | 3525 | 3533 | rVB2 | 249266 | 506234 | 71.33% | 12.669% |
| 44 | 26.180 | 3940 | 3943 | 3946 | rBV4 | 9987 | 15321 | 2.16% | 0.383% |

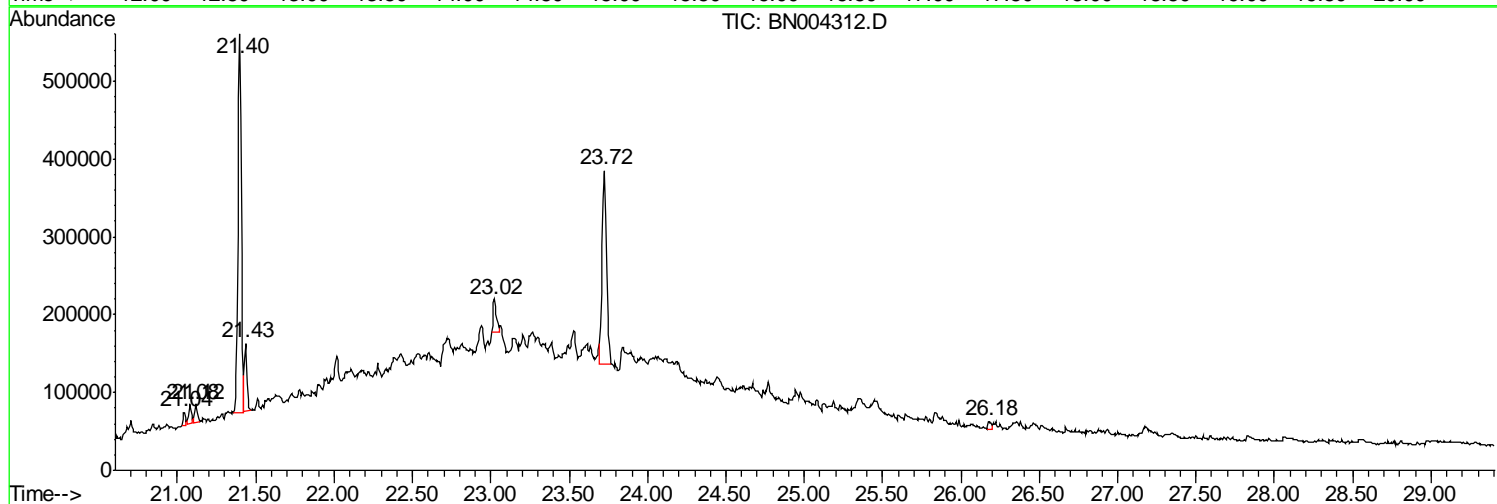
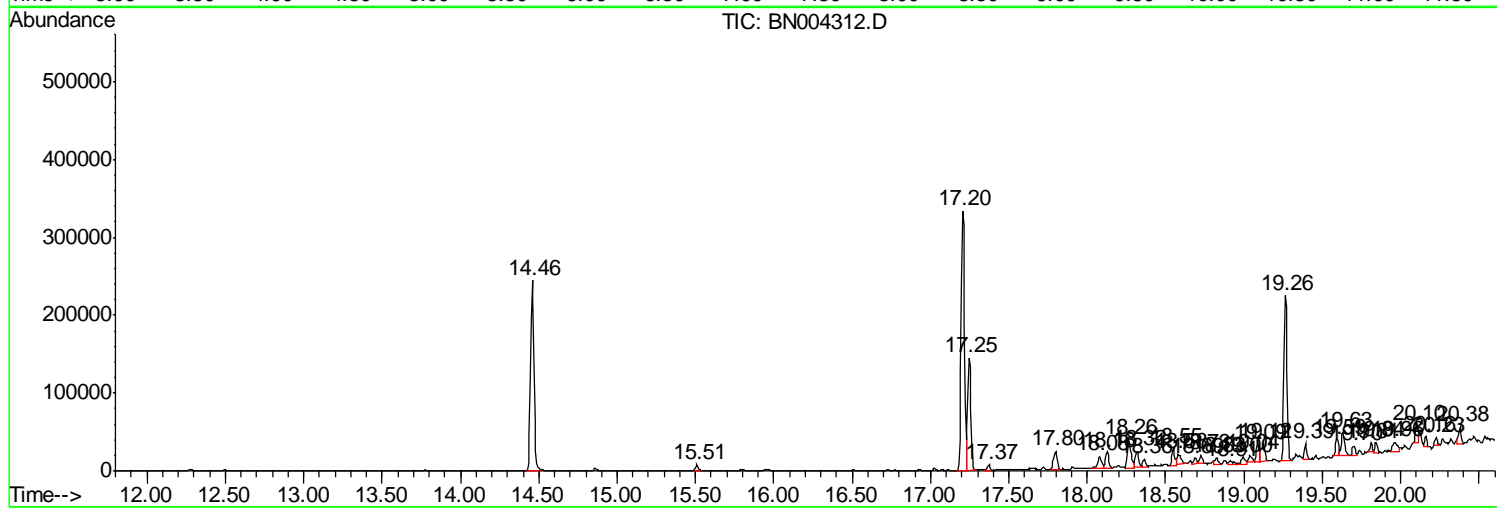
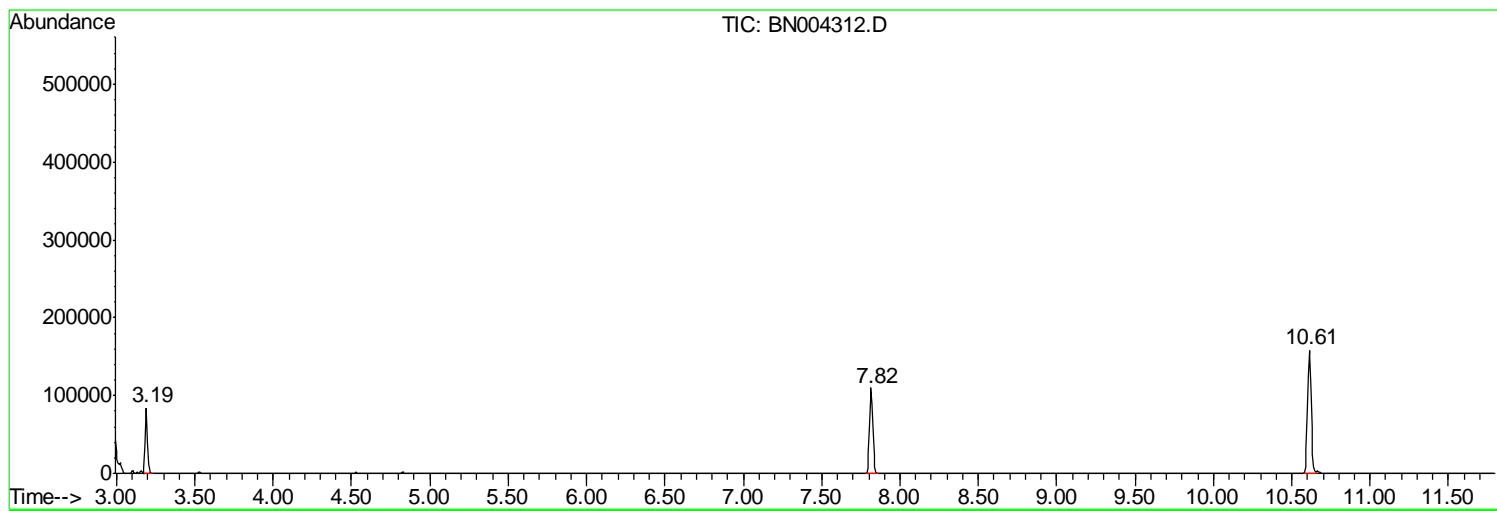
Sum of corrected areas: 3995996

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004312.D
 Acq On : 02 Jan 2019 15:45
 Operator : JU/SJ
 Sample : J6431-01
 Misc : GCMS Confirmation
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004312.D
 Acq On : 02 Jan 2019 15:45
 Operator : JU/SJ
 Sample : J6431-01
 Misc : GCMS Confirmation
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T6

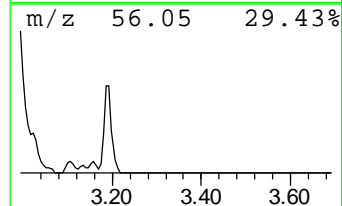
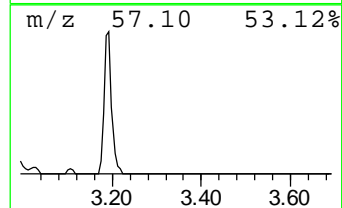
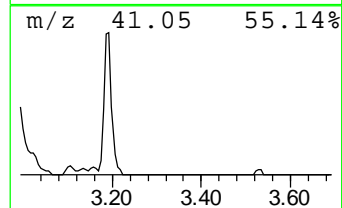
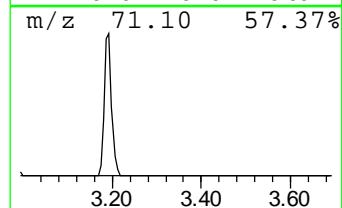
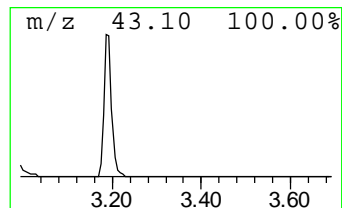
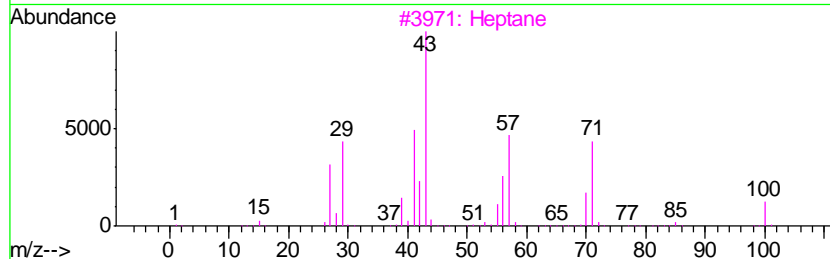
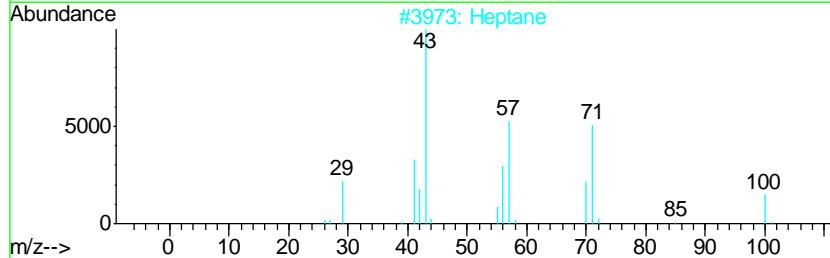
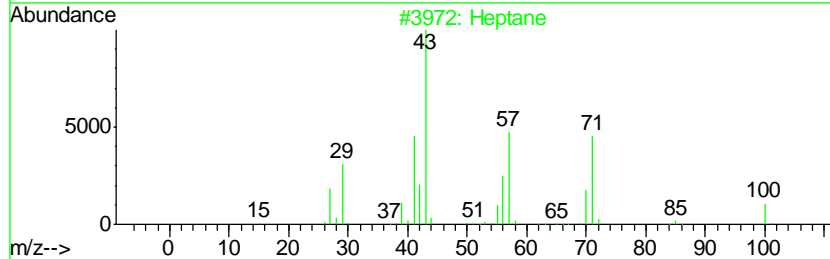
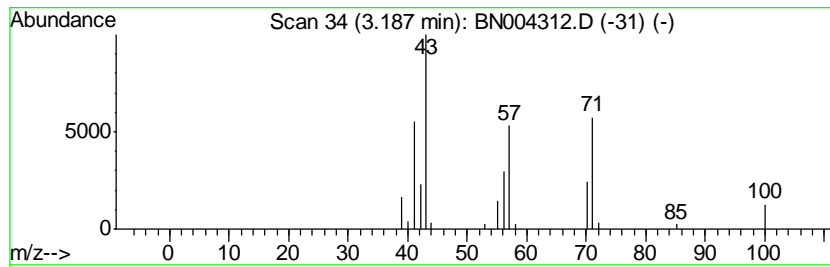
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 11.18 ng/ul | 93329 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 90 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 86 |
| 5 | | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004312.D
 Acq On : 02 Jan 2019 15:45
 Operator : JU/SJ
 Sample : J6431-01
 Misc : GCMS Confirmation
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T6

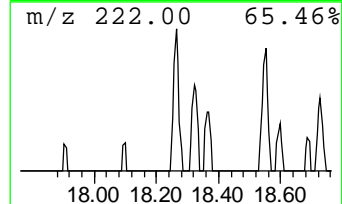
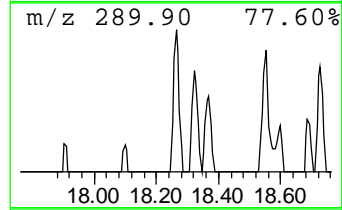
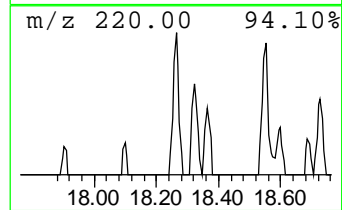
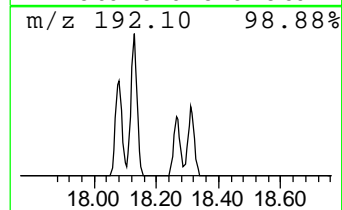
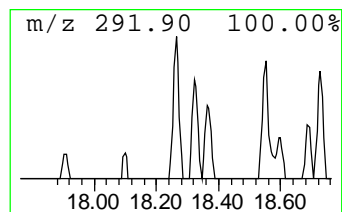
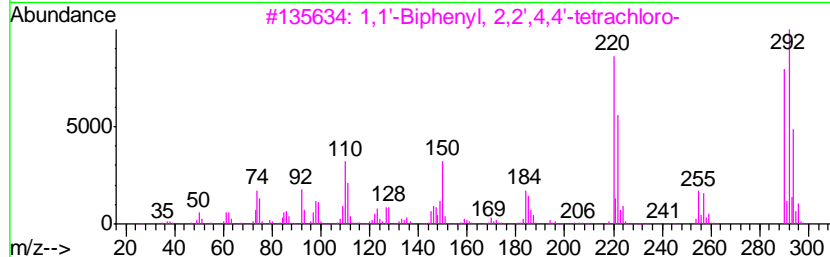
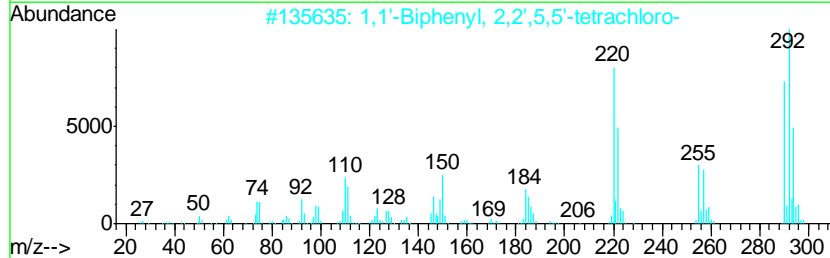
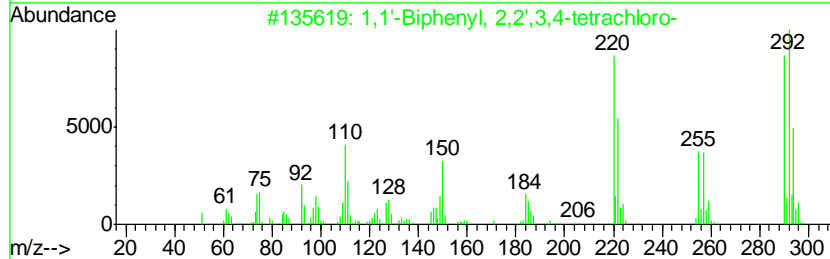
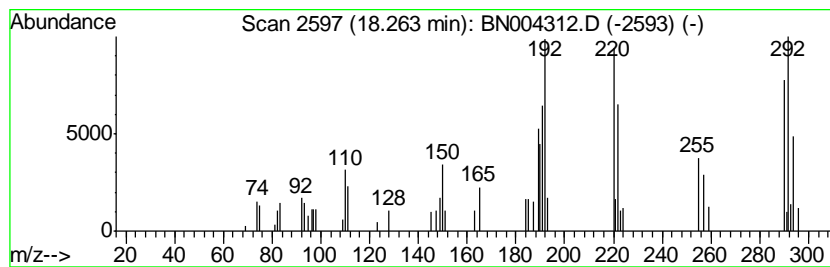
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 1,1'-Biphenyl, 2,2',3,4-tet... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.26 | 2.57 ng/ul | 62566 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 1,1'-Biphenyl, 2,2',3,4-tetrachl... | 290 | C12H6Cl4 | 052663-59-9 | 98 |
| 2 | | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 98 |
| 3 | | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 97 |
| 4 | | 2,2',4,6'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 068194-04-7 | 97 |
| 5 | | 1,1'-Biphenyl, 2,2',4,6-Tetrachl... | 290 | C12H6Cl4 | 062796-65-0 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004312.D
Acq On : 02 Jan 2019 15:45
Operator : JU/SJ
Sample : J6431-01
Misc : GCMS Confirmation
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41T6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 11.2 | ng/ul | 93329 | 1 | 7.82 | 166920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.26 | 2.6 | ng/ul | 62566 | 4 | 17.20 | 486171 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T6DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-01DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034991.D
 % Solids : 78.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 210 | U |
| 11104-28-2 | Aroclor-1221 | 210 | U |
| 11141-16-5 | Aroclor-1232 | 210 | U |
| 53469-21-9 | Aroclor-1242 | 210 | U |
| 12672-29-6 | Aroclor-1248 | 9200 | ED |
| 11097-69-1 | Aroclor-1254 | 8400 | ED |
| 11096-82-5 | Aroclor-1260 | 8700 | ED |
| 37324-23-5 | Aroclor-1262 | 210 | U |
| 11100-14-4 | Aroclor-1268 | 210 | U |

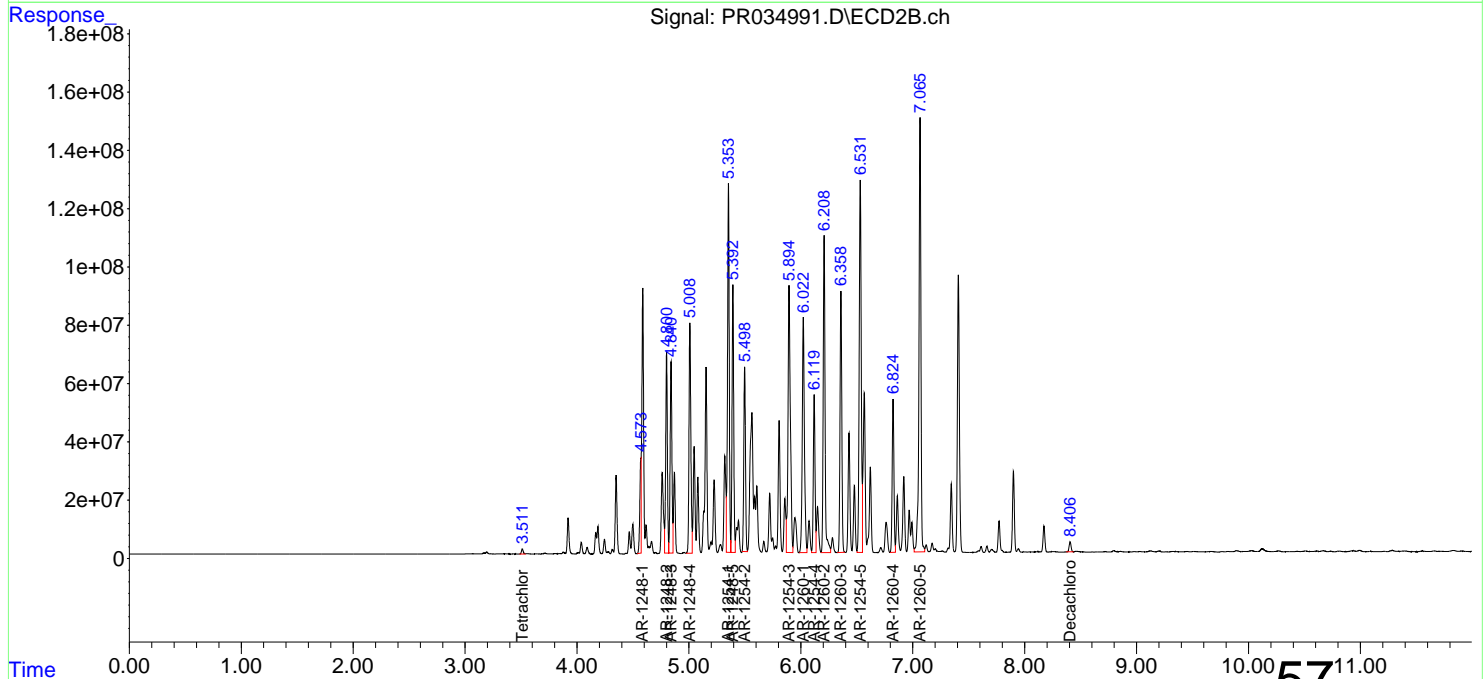
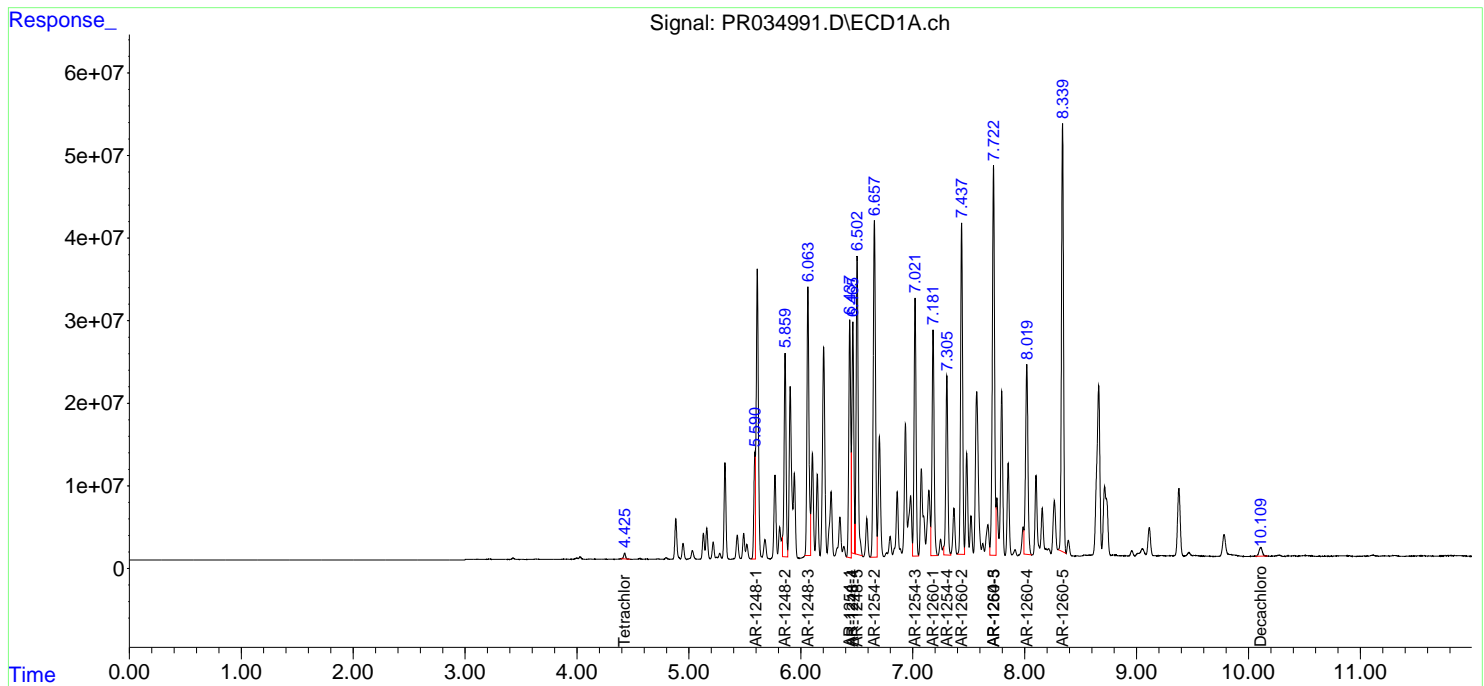
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 Data File : PR034991.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:01
 Operator : SM\SJ
 Sample : J6431-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:00:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034991.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:01
 Operator : SM\SJ
 Sample : J6431-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:00:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 8205812 | 18523588 | 4.219 | 5.314 # |
| 2) SA Decachlor... | 10.110 | 8.407 | 21576070 | 41704982 | 10.975 | 9.486 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 115.8E6 | 256.3E6 | 2385.907m | 2629.144m |
| 22) L5 AR-1248-2 | 5.859 | 4.800 | 304.1E6 | 717.9E6 | 4602.732m | 5603.736 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 415.6E6 | 727.2E6 | 5562.512 | 5510.402 |
| 24) L5 AR-1248-4 | 6.465 | 5.008 | 331.8E6 | 903.2E6 | 3713.869 | 5489.817m# |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 459.1E6 | 955.3E6 | 5486.898 | 5708.345 |
| 26) L6 AR-1254-1 | 6.437 | 5.353 | 347.5E6 | 1350.5E6 | 4253.709m | 5519.060 # |
| 27) L6 AR-1254-2 | 6.657 | 5.498 | 574.5E6 | 664.4E6 | 4496.399 | 3123.917 # |
| 28) L6 AR-1254-3 | 7.021 | 5.895 | 385.6E6 | 1338.2E6 | 2857.041 | 3745.082 # |
| 29) L6 AR-1254-4 | 7.305 | 6.119 | 277.7E6 | 575.8E6 | 2617.980m | 2438.030 |
| 30) L6 AR-1254-5 | 7.722 | 6.531 | 662.4E6 | 1609.1E6 | 6182.294 | 5045.261 |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 356.3E6 | 1071.7E6 | 3790.094 | 4985.075 # |
| 32) L7 AR-1260-2 | 7.437 | 6.208 | 503.8E6 | 1254.7E6 | 4339.473 | 4610.830 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 662.4E6 | 988.8E6 | 4746.409 | 3983.138 |
| 34) L7 AR-1260-4 | 8.020 | 6.824 | 345.1E6 | 566.3E6 | 3995.601 | 3311.697 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 668.6E6 | 1820.1E6 | 3703.031 | 3763.301 |
| ----- | | | | | | |

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

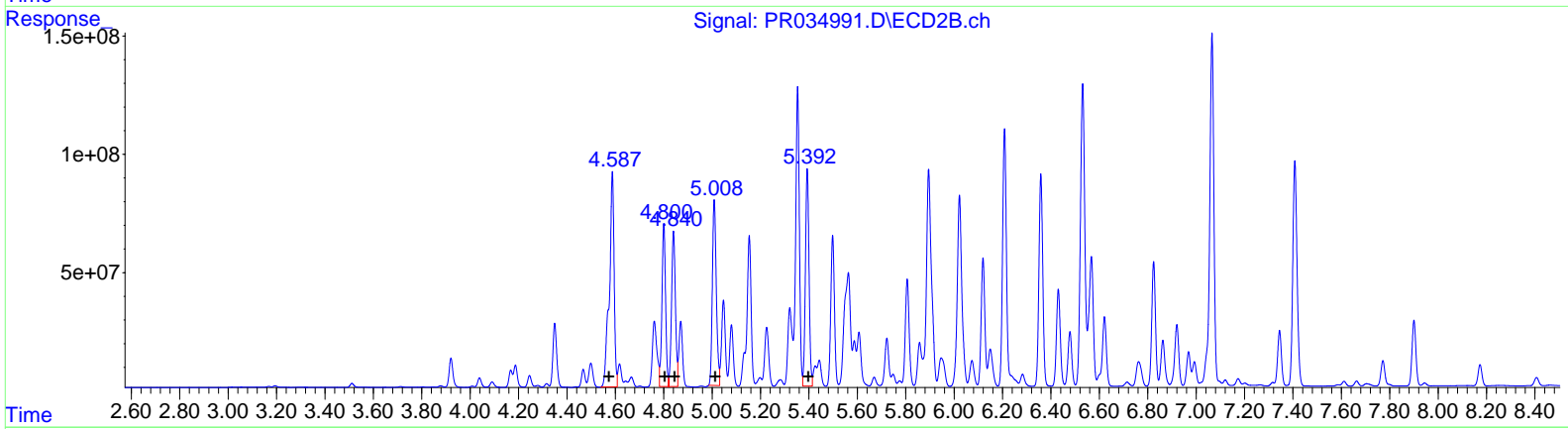
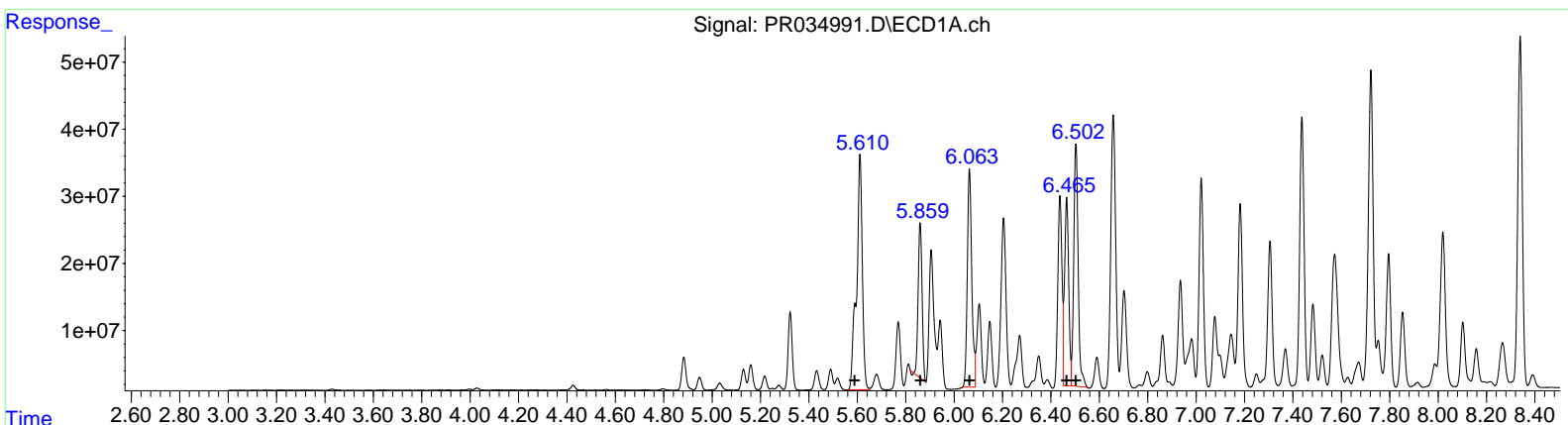
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034991.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:01
 Operator : SM\SJ
 Sample : J6431-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL

Manual Integrations
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 Sohil
 12/26/2018 1:01:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:00:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|-----------|----------|
| R.T. | Response | Conc |
| 5.61 | 584332704 | 12042.48 |
| 5.86 | 259045182 | 3920.56 |
| 6.06 | 415602602 | 5562.51 |
| 6.46 | 331819068 | 3713.87 |
| 6.50 | 459079050 | 5486.90 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 4.59 | 1248327676 | 12803.14 |
| 4.80 | 717852052 | 5603.74 |
| 4.84 | 727247286 | 5510.40 |
| 5.01 | 889396328 | 5405.67 |
| 5.39 | 955324024 | 5708.35 |

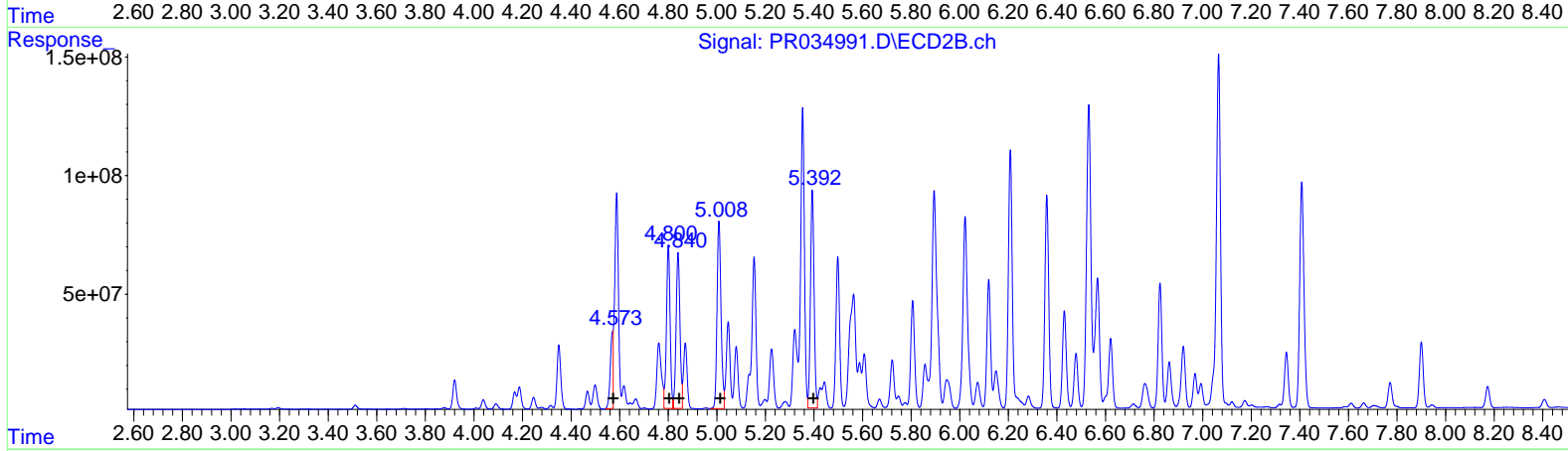
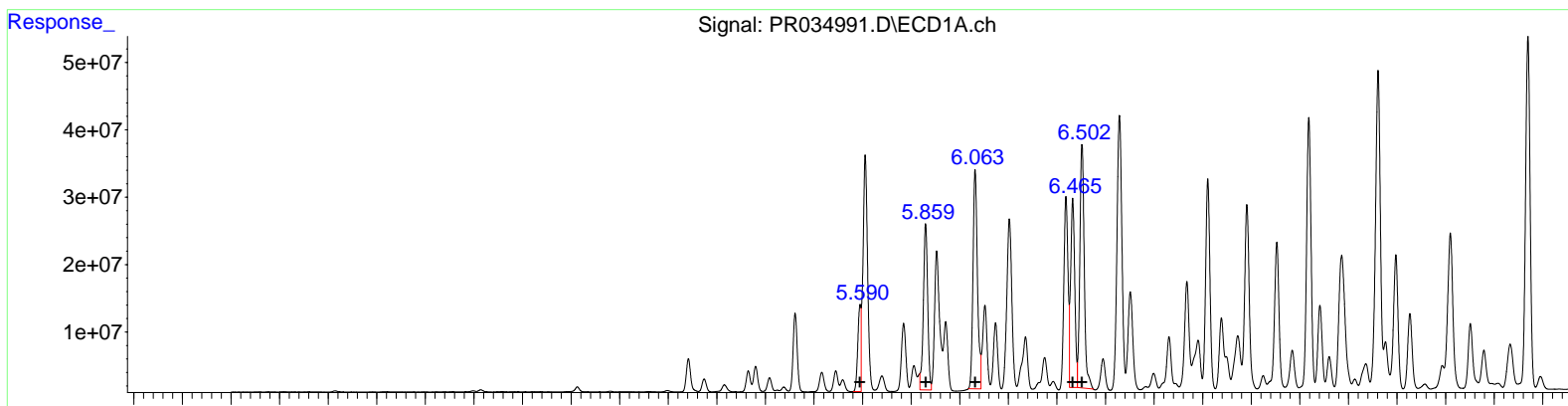
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034991.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:01
 Operator : SM\SJ
 Sample : J6431-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:00:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 115770472 | 2385.91 |
| 5.86 | 304118639 | 4602.73 |
| 6.06 | 415602602 | 5562.51 |
| 6.46 | 331819068 | 3713.87 |
| 6.50 | 459079050 | 5486.90 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 256346025 | 2629.14 |
| 4.80 | 717852052 | 5603.74 |
| 4.84 | 727247286 | 5510.40 |
| 5.01 | 903241218 | 5489.82 |
| 5.39 | 955324024 | 5708.35 |

(+) = Expected Retention Time

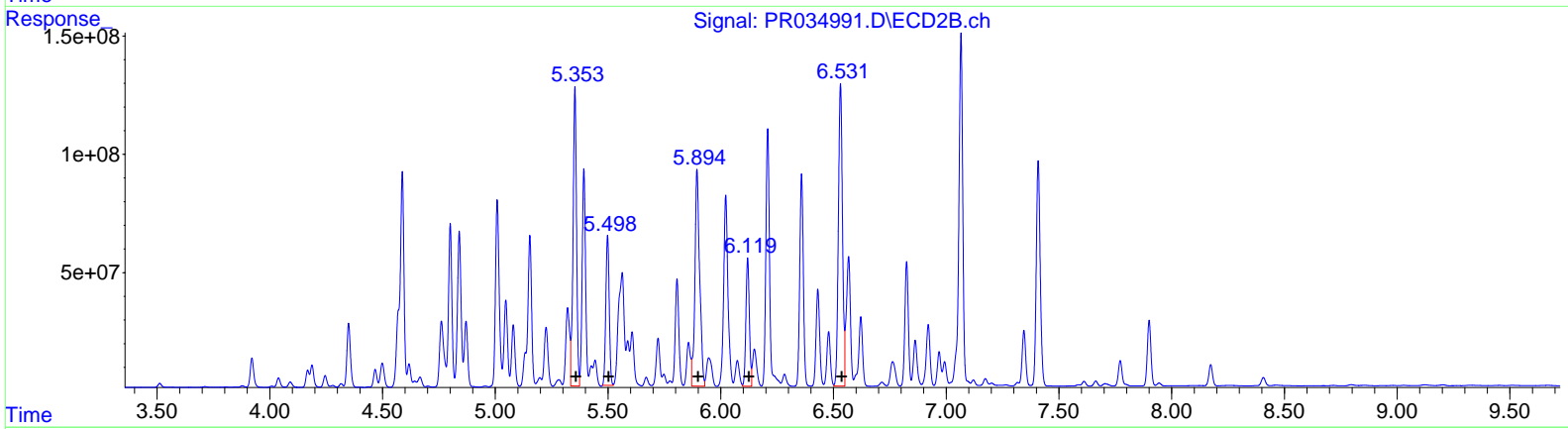
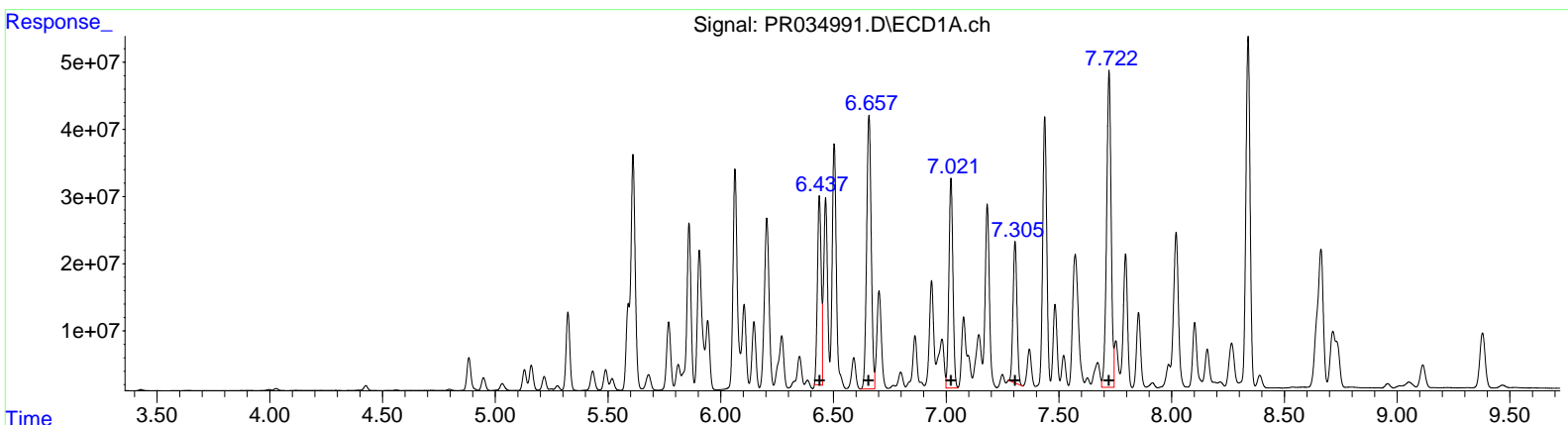
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034991.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:01
 Operator : SM\SJ
 Sample : J6431-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:00:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.44 | 329589654 | 4033.90 |
| 6.66 | 574534734 | 4496.40 |
| 7.02 | 385620714 | 2857.04 |
| 7.31 | 256643174 | 2419.38 |
| 7.72 | 662391769 | 6182.29 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|------------|---------|
| R.T. | Response | Conc |
| 5.35 | 1350479015 | 5519.06 |
| 5.50 | 664424475 | 3123.92 |
| 5.89 | 1338186166 | 3745.08 |
| 6.12 | 575839240 | 2438.03 |
| 6.53 | 1609144498 | 5045.26 |

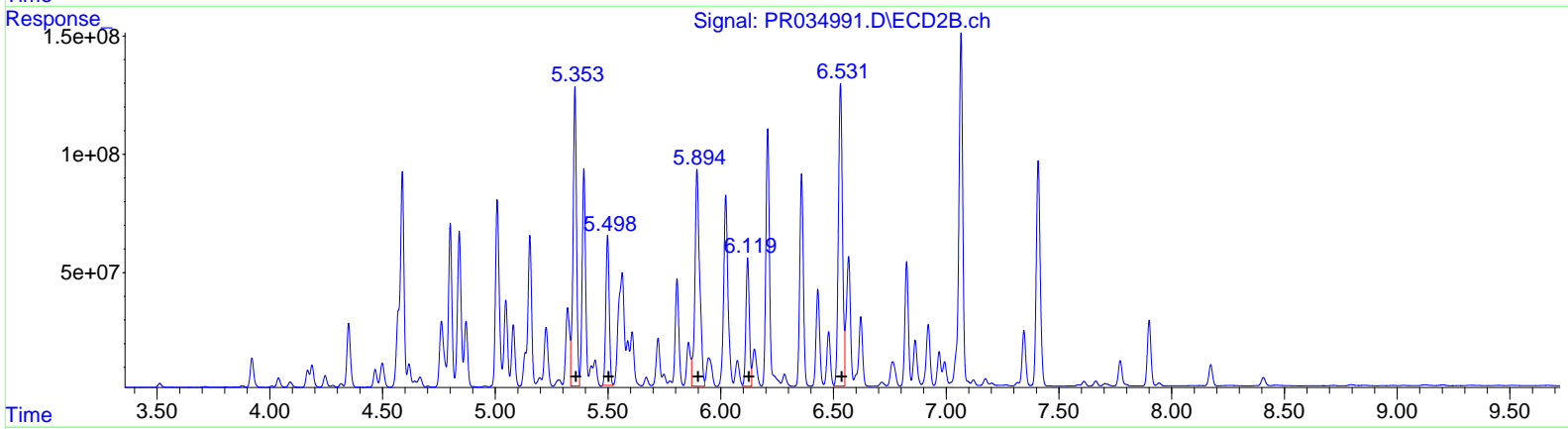
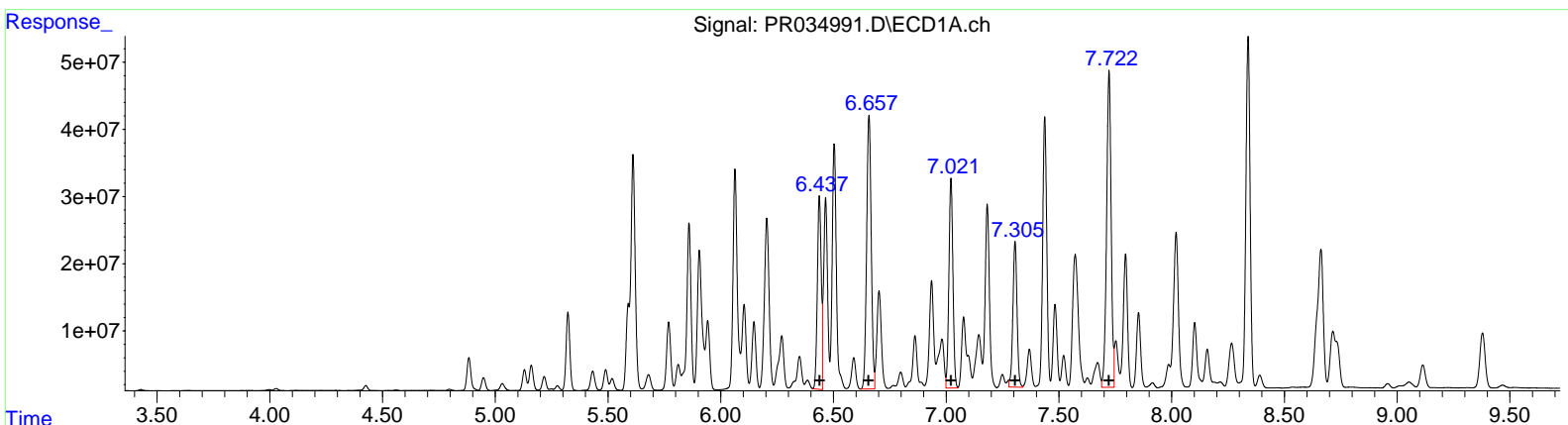
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034991.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:01
 Operator : SM\SJ
 Sample : J6431-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:00:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.44 | 347549401 | 4253.71 |
| 6.66 | 574534734 | 4496.40 |
| 7.02 | 385620714 | 2857.04 |
| 7.30 | 277709773 | 2617.98 |
| 7.72 | 662391769 | 6182.29 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|------------|---------|
| R.T. | Response | Conc |
| 5.35 | 1350479015 | 5519.06 |
| 5.50 | 664424475 | 3123.92 |
| 5.89 | 1338186166 | 3745.08 |
| 6.12 | 575839240 | 2438.03 |
| 6.53 | 1609144498 | 5045.26 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034991.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:01
 Operator : SM\SJ
 Sample : J6431-01DL 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:00:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

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 12/26/2018 1:01:57 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 8205812 | 18523588 | 4.219 | 5.314 # |
| 2) SA Decachlor... | 10.110 | 8.407 | 21576070 | 41704982 | 10.975 | 9.486 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 115.8E6 | 256.3E6 | 2385.907m | 2629.144m |
| 22) L5 AR-1248-2 | 5.859 | 4.800 | 304.1E6 | 717.9E6 | 4602.732m | 5603.736 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 415.6E6 | 727.2E6 | 5562.512 | 5510.402 |
| 24) L5 AR-1248-4 | 6.465 | 5.008 | 331.8E6 | 903.2E6 | 3713.869 | 5489.817m# |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 459.1E6 | 955.3E6 | 5486.898 | 5708.345 |
| 26) L6 AR-1254-1 | 6.437 | 5.353 | 347.5E6 | 1350.5E6 | 4253.709m | 5519.060 # |
| 27) L6 AR-1254-2 | 6.657 | 5.498 | 574.5E6 | 664.4E6 | 4496.399 | 3123.917 # |
| 28) L6 AR-1254-3 | 7.021 | 5.895 | 385.6E6 | 1338.2E6 | 2857.041 | 3745.082 # |
| 29) L6 AR-1254-4 | 7.305 | 6.119 | 277.7E6 | 575.8E6 | 2617.980m | 2438.030 |
| 30) L6 AR-1254-5 | 7.722 | 6.531 | 662.4E6 | 1609.1E6 | 6182.294 | 5045.261 |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 356.3E6 | 1071.7E6 | 3790.094 | 4985.075 # |
| 32) L7 AR-1260-2 | 7.437 | 6.208 | 503.8E6 | 1254.7E6 | 4339.473 | 4610.830 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 662.4E6 | 988.8E6 | 4746.409 | 3983.138 |
| 34) L7 AR-1260-4 | 8.020 | 6.824 | 345.1E6 | 566.3E6 | 3995.601 | 3311.697 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 668.6E6 | 1820.1E6 | 3703.031 | 3763.301 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T6DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-01DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034992.D
 % Solids : 78.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 50.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 2100 | U |
| 11104-28-2 | Aroclor-1221 | 2100 | U |
| 11141-16-5 | Aroclor-1232 | 2100 | U |
| 53469-21-9 | Aroclor-1242 | 2100 | U |
| 12672-29-6 | Aroclor-1248 | 12000 | D |
| 11097-69-1 | Aroclor-1254 | 10000 | D |
| 11096-82-5 | Aroclor-1260 | 11000 | D |
| 37324-23-5 | Aroclor-1262 | 2100 | U |
| 11100-14-4 | Aroclor-1268 | 2100 | U |

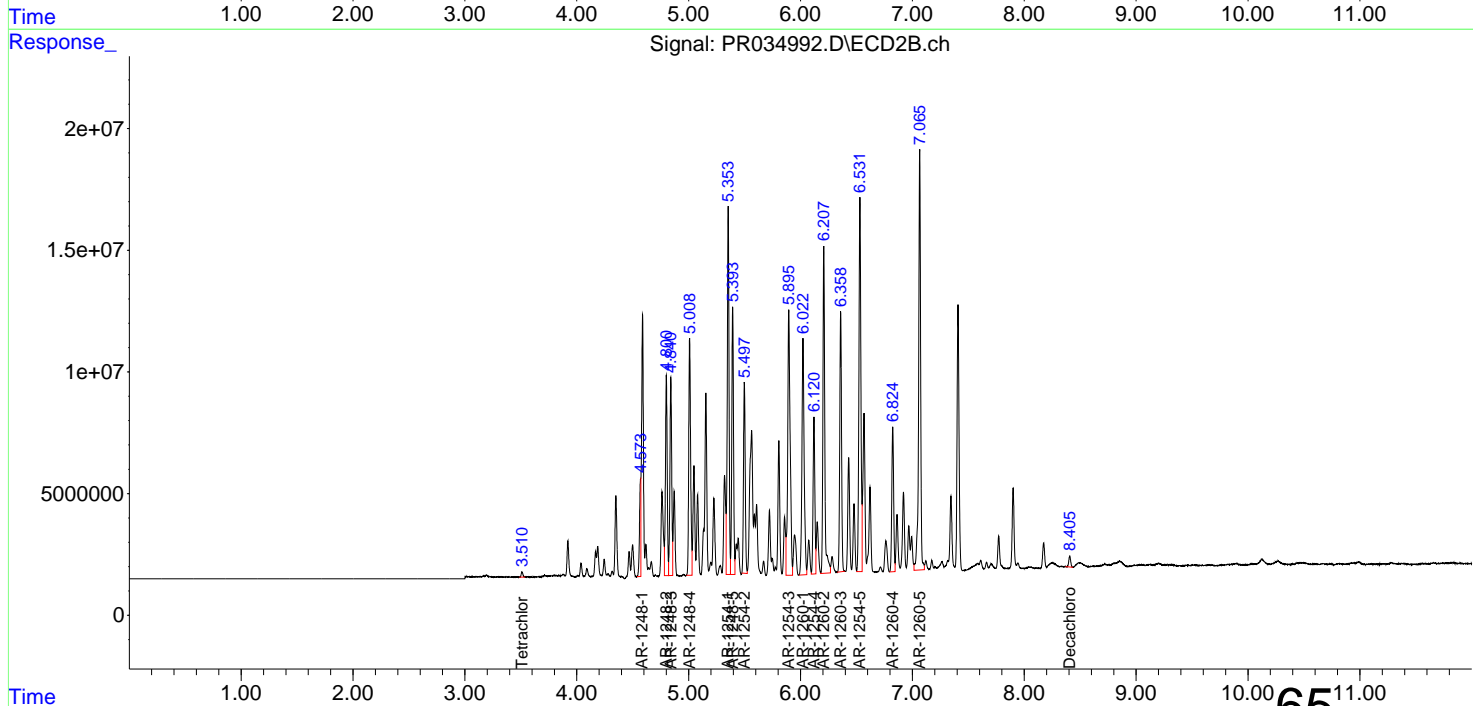
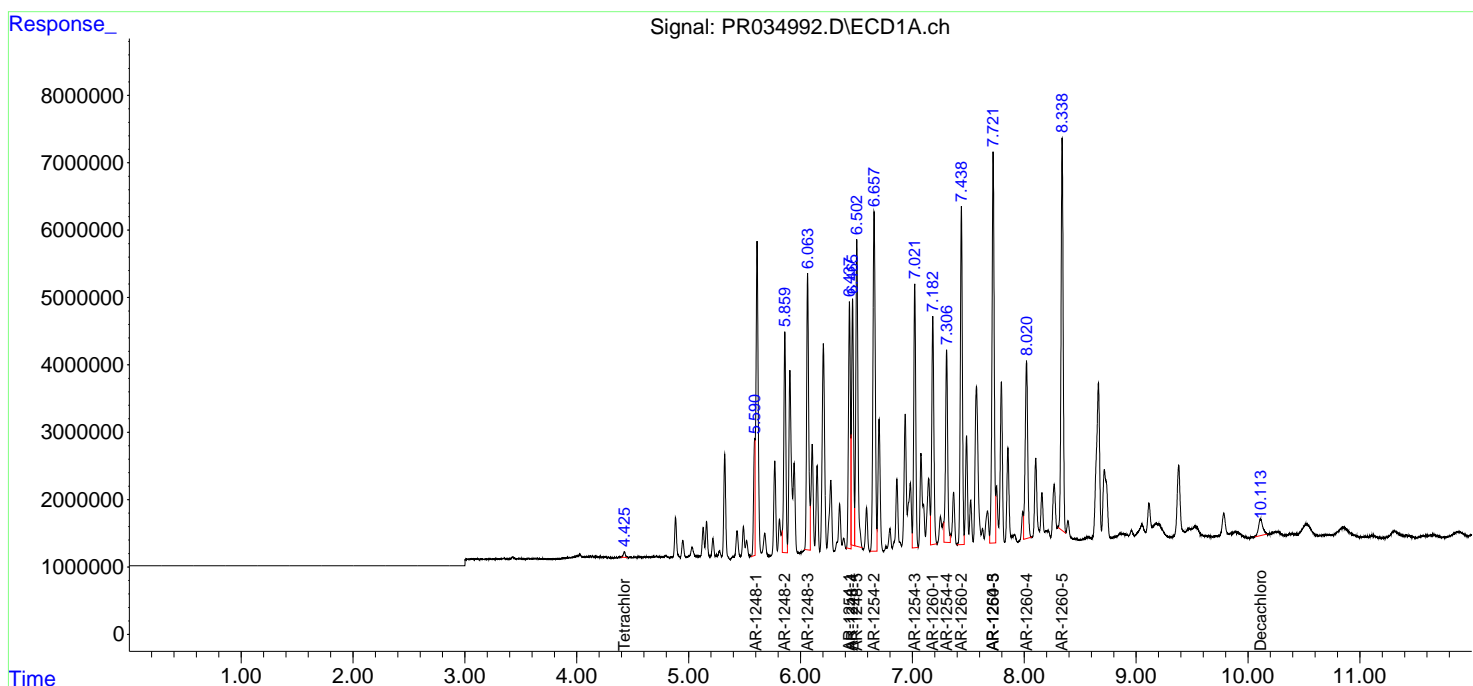
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034992.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:04:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034992.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleID :
 A41T6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:04:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 1048446 | 2254196 | 0.539m | 0.647 |
| 2) SA Decachlor... | 10.113 | 8.407 | 6586456 | 5222056 | 3.350 | 1.188 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 15065437 | 31990757 | 310.483m | 328.105m |
| 22) L5 AR-1248-2 | 5.859 | 4.801 | 41136960 | 90201456 | 622.594m | 704.136 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 52957208 | 92202262 | 708.790 | 698.623 |
| 24) L5 AR-1248-4 | 6.466 | 5.008 | 44127001 | 113.6E6 | 493.889 | 690.746m# |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 60295275 | 118.7E6 | 720.647 | 709.254 |
| 26) L6 AR-1254-1 | 6.437 | 5.354 | 45313677 | 165.9E6 | 554.601m | 677.946 |
| 27) L6 AR-1254-2 | 6.658 | 5.498 | 73197968 | 84507752 | 572.859 | 397.329 # |
| 28) L6 AR-1254-3 | 7.021 | 5.895 | 48714302 | 165.8E6 | 360.921 | 464.057 # |
| 29) L6 AR-1254-4 | 7.306 | 6.120 | 38697469 | 71158928 | 364.802m | 301.278 |
| 30) L6 AR-1254-5 | 7.722 | 6.531 | 79315850 | 189.5E6 | 740.278 | 594.200 |
| 31) L7 AR-1260-1 | 7.183 | 6.022 | 44589750 | 133.8E6 | 474.319 | 622.417 # |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 63097026 | 156.9E6 | 543.466 | 576.532 |
| 33) L7 AR-1260-3 | 7.722 | 6.359 | 79315850 | 118.2E6 | 568.343 | 475.973 |
| 34) L7 AR-1260-4 | 8.021 | 6.825 | 41617154 | 68458790 | 481.883 | 400.366 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 76526422 | 212.0E6 | 423.843 | 438.259 |
| ----- | | | | | | |

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

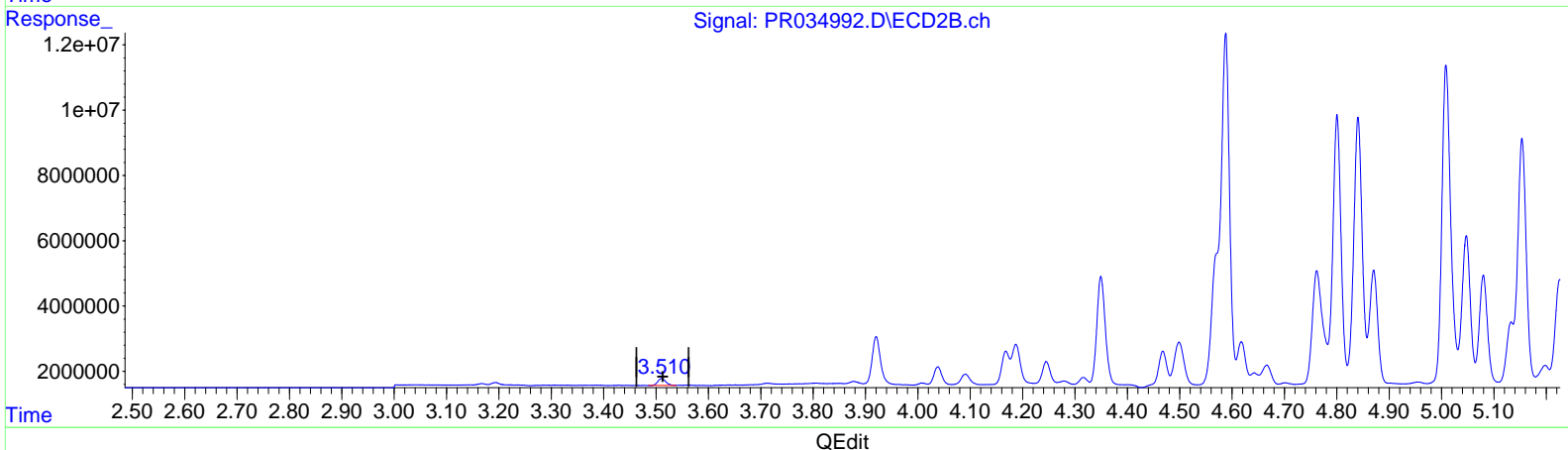
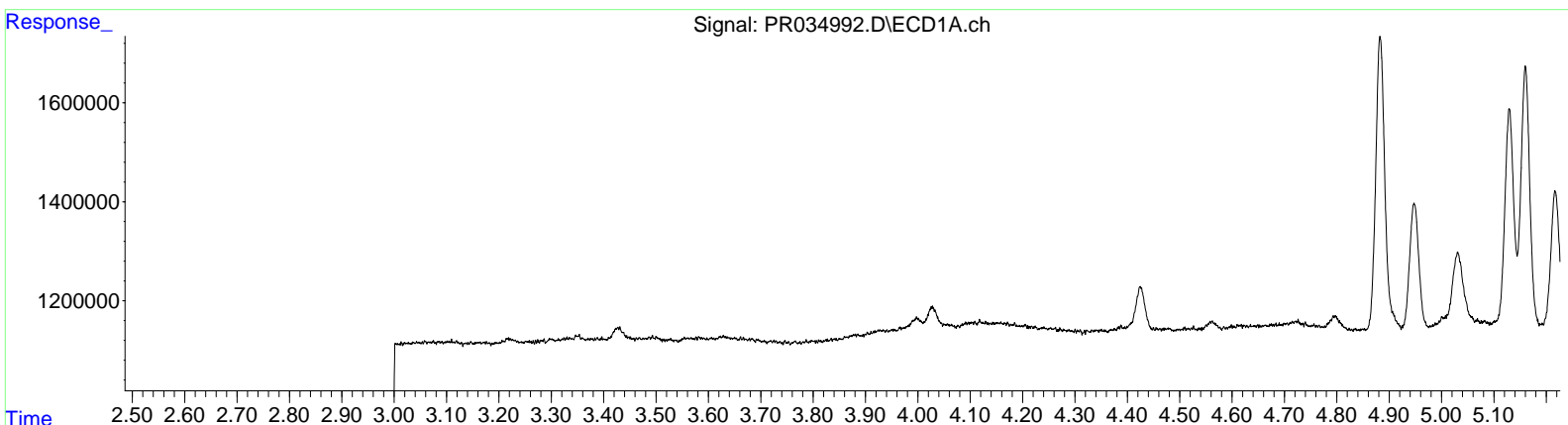
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 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:59:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 0.000min 0.000 ng/ml
 response 0

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 0.647 ng/ml
 response 2254196

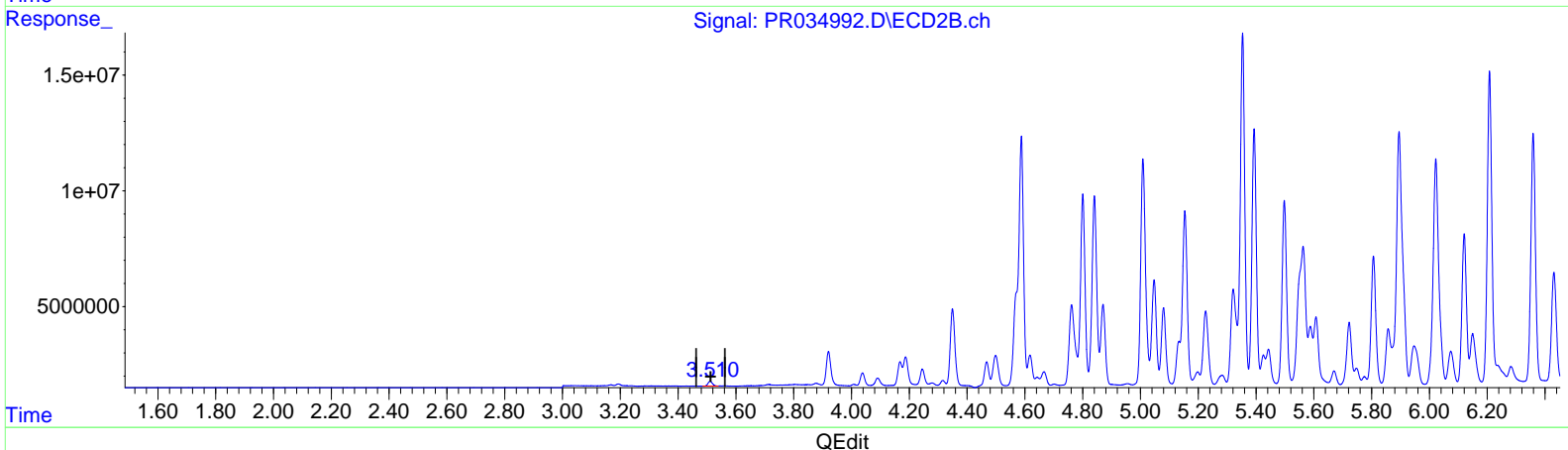
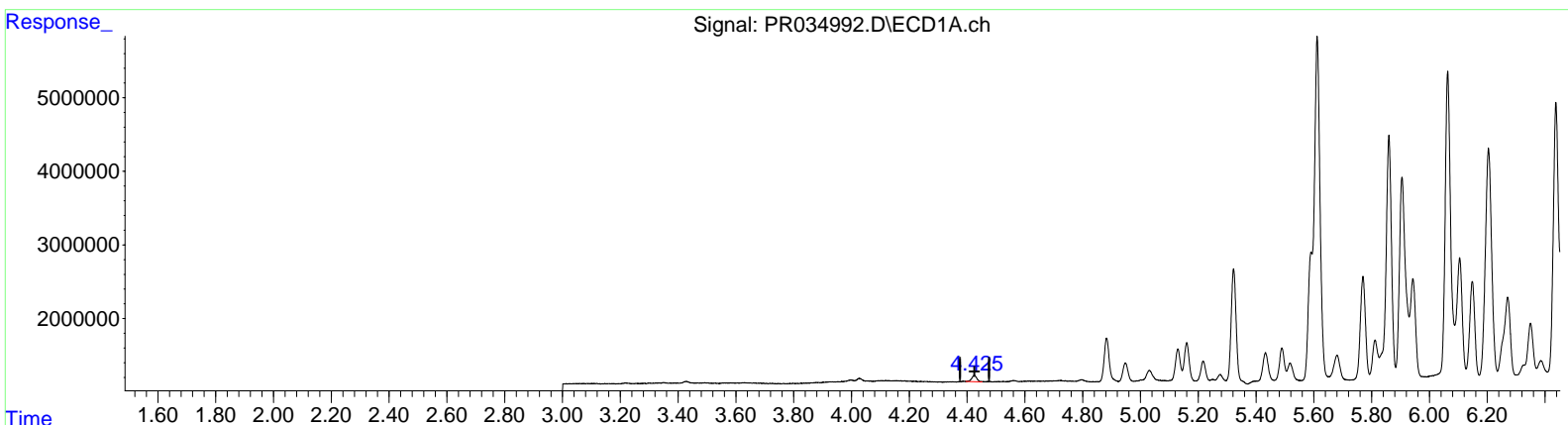
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 Data File : PR034992.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:04:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.425min 0.539 ng/ml m
 response 1048446

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 0.647 ng/ml
 response 2254196

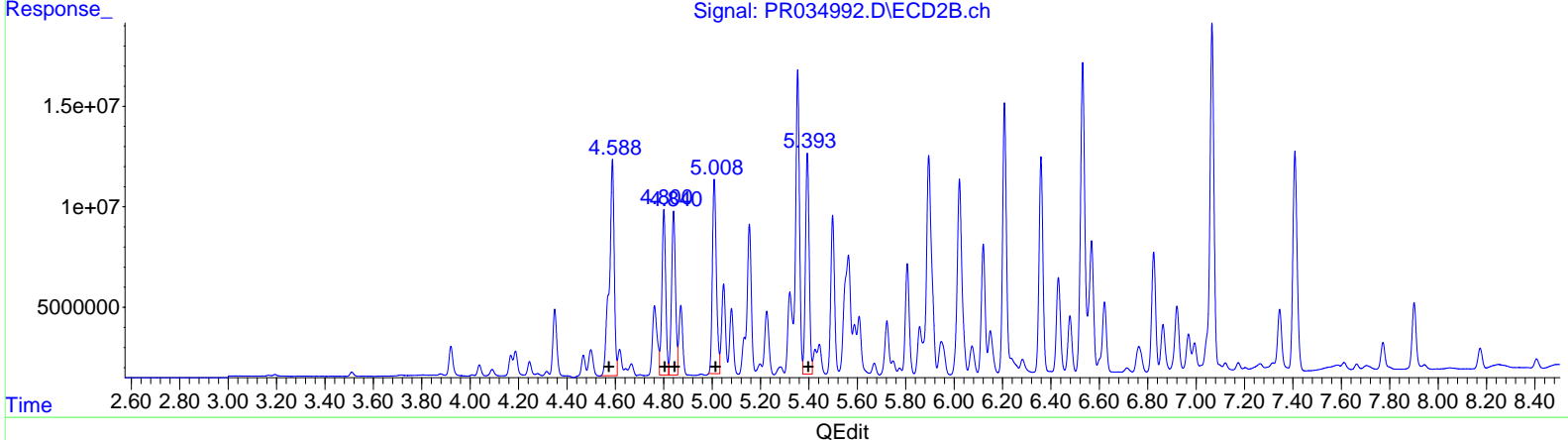
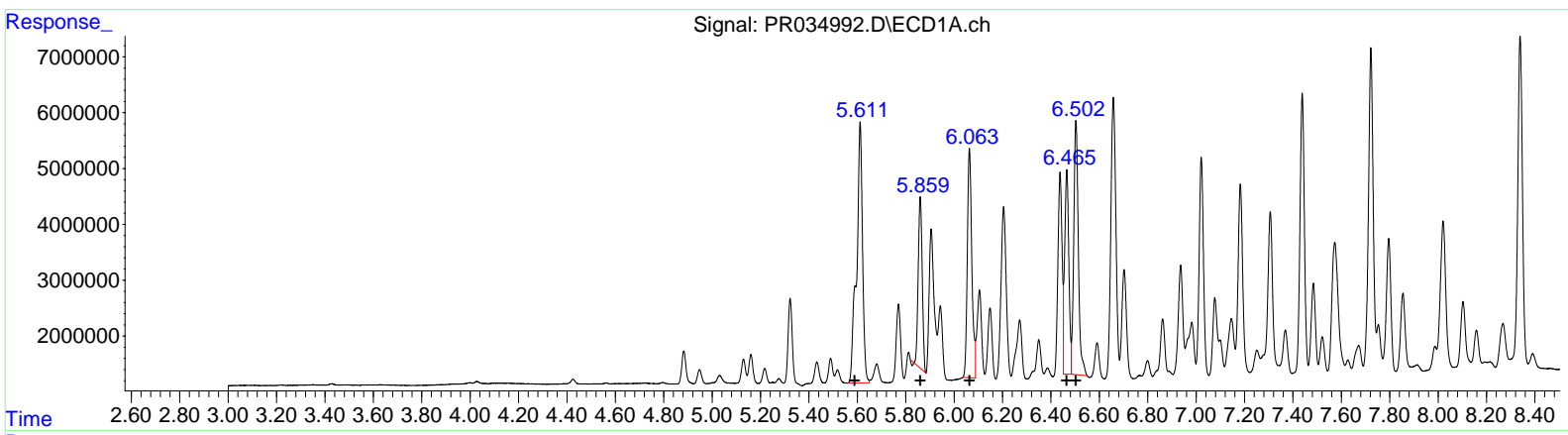
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 Data File : PR034992.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:04:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|----------|---------|
| R.T. | Response | Conc |
| 5.61 | 79601899 | 1640.51 |
| 5.86 | 34985772 | 529.50 |
| 6.06 | 52957208 | 708.79 |
| 6.47 | 44127001 | 493.89 |
| 6.50 | 60295275 | 720.65 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 4.59 | 152631926 | 1565.43 |
| 4.80 | 90201456 | 704.14 |
| 4.84 | 92202262 | 698.62 |
| 5.01 | 111874816 | 679.96 |
| 5.39 | 118697687 | 709.25 |

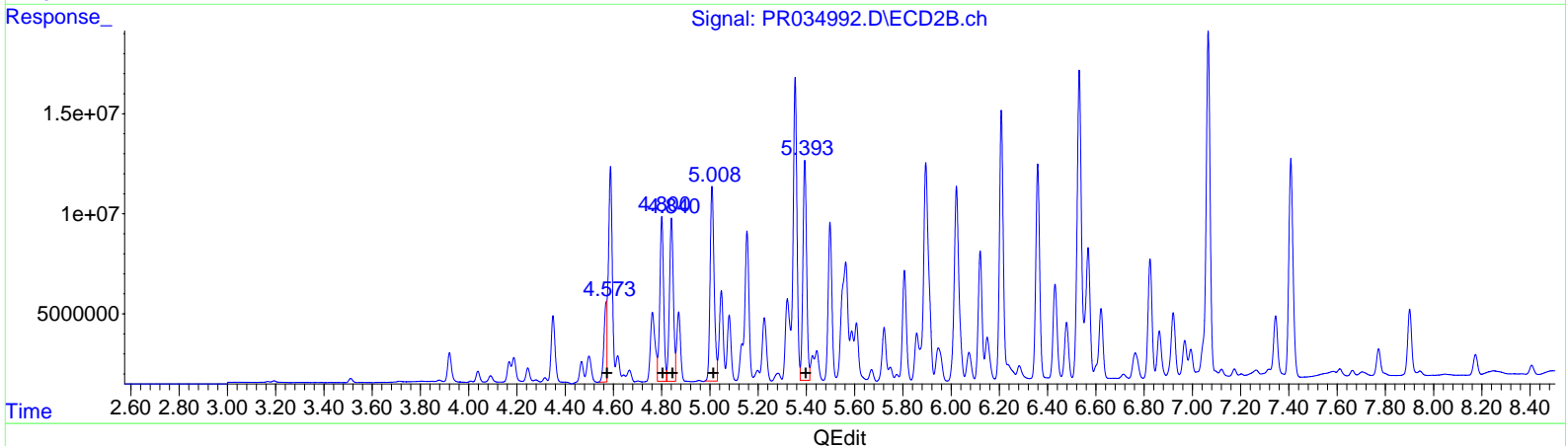
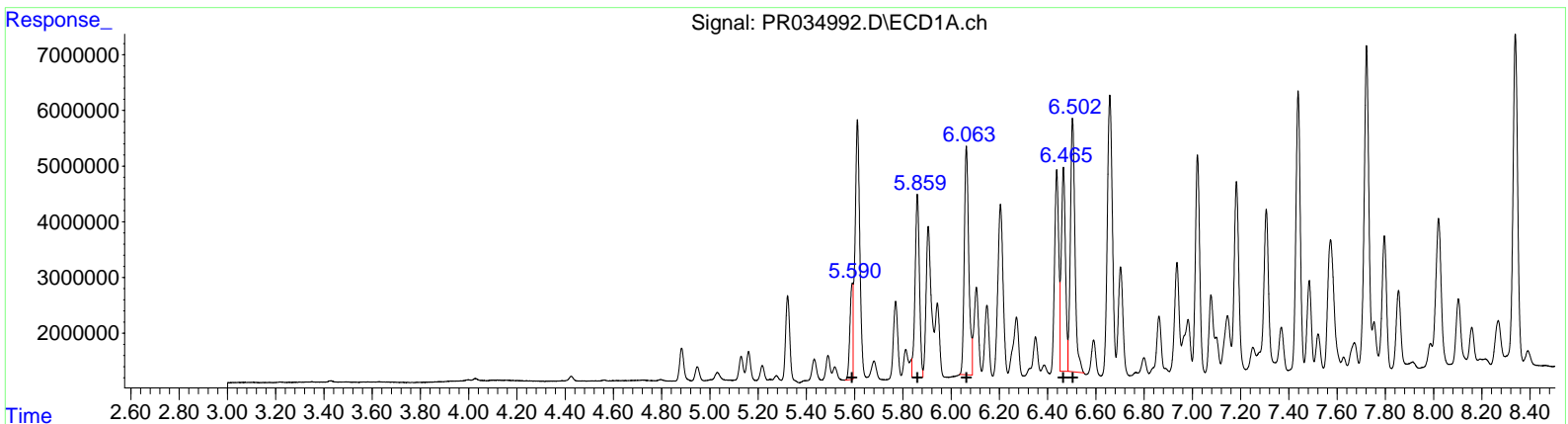
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034992.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL2

Manual Integrations
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 Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:04:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 5.59 | 15065437 | 310.48 |
| 5.86 | 41136960 | 622.59 |
| 6.06 | 52957208 | 708.79 |
| 6.47 | 44127001 | 493.89 |
| 6.50 | 60295275 | 720.65 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 4.57 | 31990757 | 328.10 |
| 4.80 | 90201456 | 704.14 |
| 4.84 | 92202262 | 698.62 |
| 5.01 | 113648572 | 690.75 |
| 5.39 | 118697687 | 709.25 |

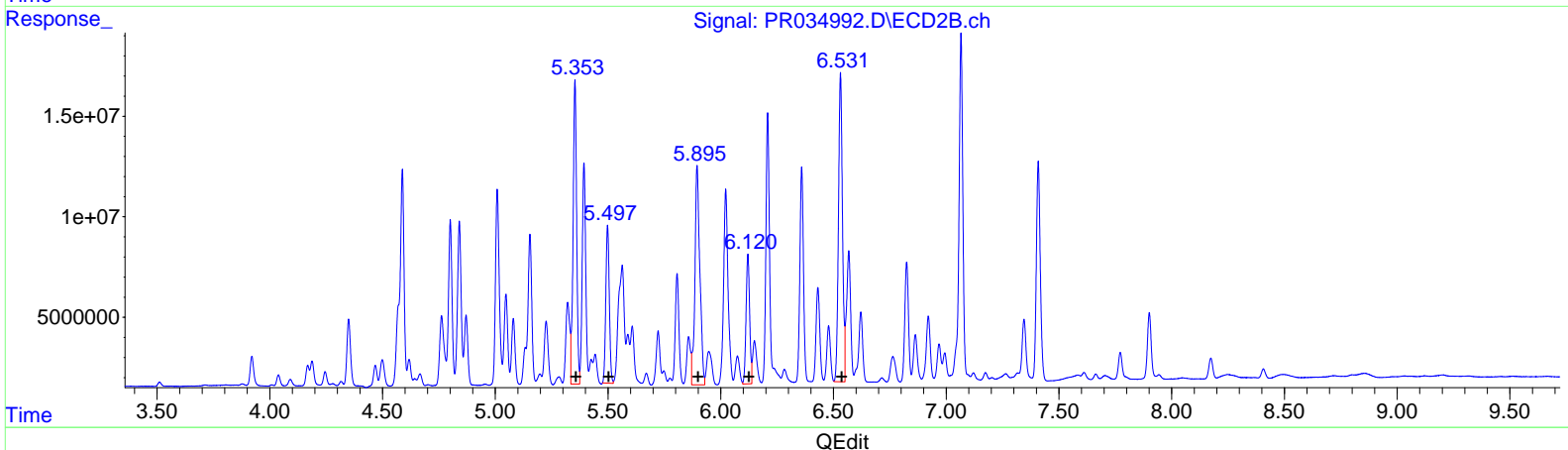
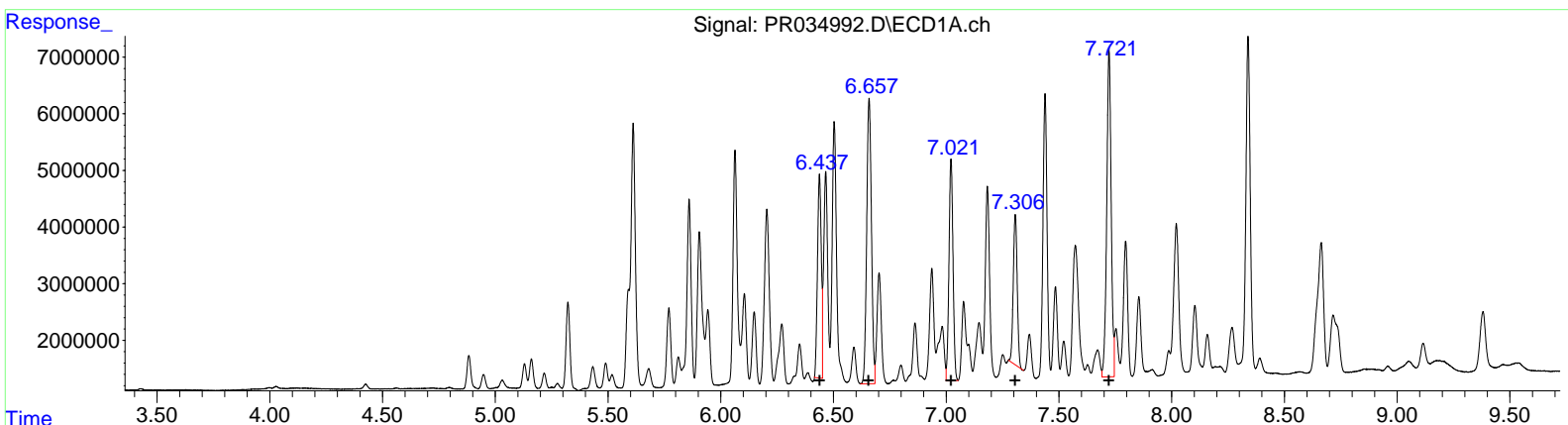
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 Data File : PR034992.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:04:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.44 | 42560632 | 520.91 |
| 6.66 | 73197968 | 572.86 |
| 7.02 | 48714302 | 360.92 |
| 7.31 | 32326256 | 304.74 |
| 7.72 | 79315850 | 740.28 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|--------|
| 5.35 | 165889020 | 677.95 |
| 5.50 | 84507752 | 397.33 |
| 5.89 | 165816029 | 464.06 |
| 6.12 | 71158928 | 301.28 |
| 6.53 | 189515125 | 594.20 |

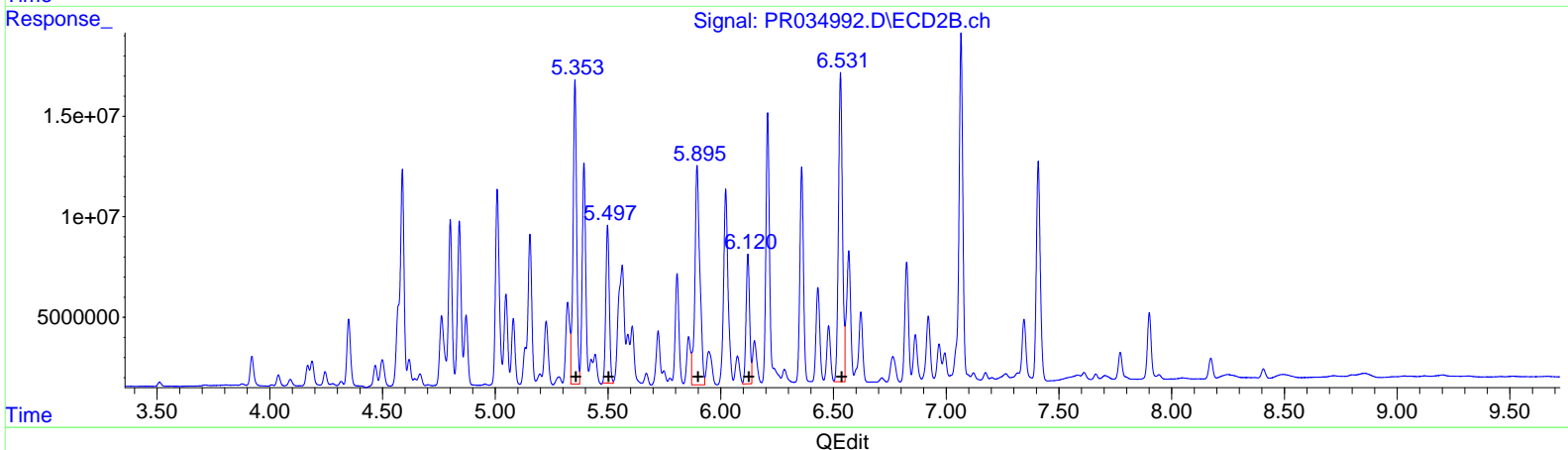
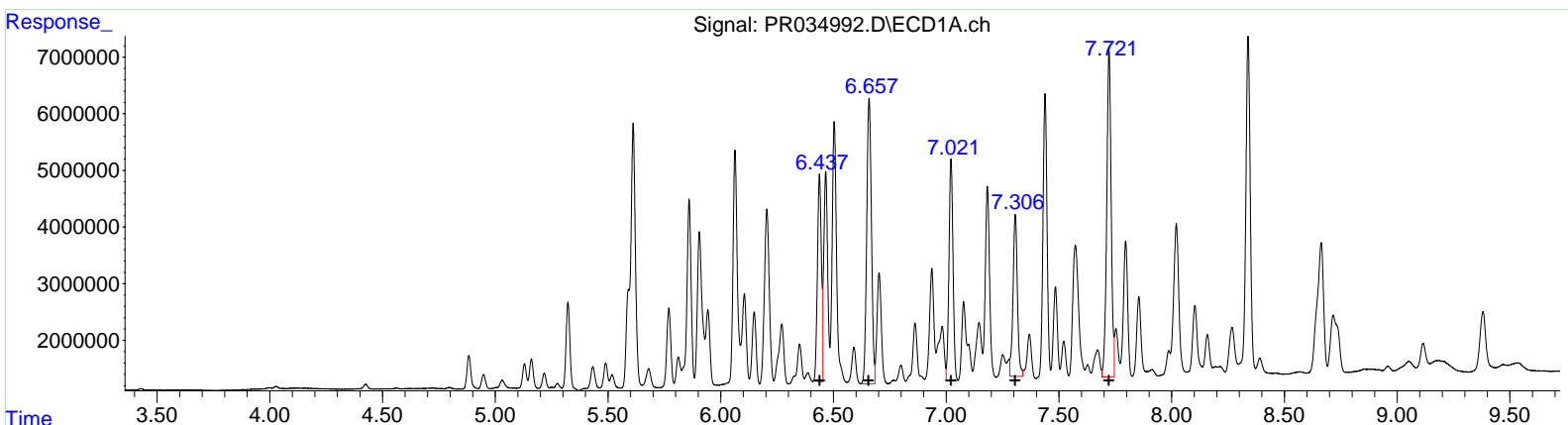
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 Data File : PR034992.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:04:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.44 | 45313677 | 554.60 |
| 6.66 | 73197968 | 572.86 |
| 7.02 | 48714302 | 360.92 |
| 7.31 | 38697469 | 364.80 |
| 7.72 | 79315850 | 740.28 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|--------|
| 5.35 | 165889020 | 677.95 |
| 5.50 | 84507752 | 397.33 |
| 5.89 | 165816029 | 464.06 |
| 6.12 | 71158928 | 301.28 |
| 6.53 | 189515125 | 594.20 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034992.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:15
 Operator : SM\SJ
 Sample : J6431-01DL2 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T6DL2

Manual Integrations
 APPROVED

Sohil
 12/26/2018 1:02:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:04:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 1048446 | 2254196 | 0.539m | 0.647 |
| 2) SA Decachlor... | 10.113 | 8.407 | 6586456 | 5222056 | 3.350 | 1.188 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 15065437 | 31990757 | 310.483m | 328.105m |
| 22) L5 AR-1248-2 | 5.859 | 4.801 | 41136960 | 90201456 | 622.594m | 704.136 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 52957208 | 92202262 | 708.790 | 698.623 |
| 24) L5 AR-1248-4 | 6.466 | 5.008 | 44127001 | 113.6E6 | 493.889 | 690.746m# |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 60295275 | 118.7E6 | 720.647 | 709.254 |
| 26) L6 AR-1254-1 | 6.437 | 5.354 | 45313677 | 165.9E6 | 554.601m | 677.946 |
| 27) L6 AR-1254-2 | 6.658 | 5.498 | 48714302 | 165.8E6 | 360.921 | 464.057 # |
| 28) L6 AR-1254-3 | 7.021 | 5.895 | 48714302 | 165.8E6 | 360.921 | 464.057 # |
| 29) L6 AR-1254-4 | 7.306 | 6.120 | 38697469 | 71158928 | 364.802m | 301.278 |
| 30) L6 AR-1254-5 | 7.722 | 6.531 | 79315850 | 189.5E6 | 740.278 | 594.200 |
| 31) L7 AR-1260-1 | 7.183 | 6.022 | 44589750 | 133.8E6 | 474.319 | 622.417 # |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 63097026 | 156.9E6 | 543.466 | 576.532 |
| 33) L7 AR-1260-3 | 7.722 | 6.359 | 79315850 | 118.2E6 | 568.343 | 475.973 |
| 34) L7 AR-1260-4 | 8.021 | 6.825 | 41617154 | 68458790 | 481.883 | 400.366 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 76526422 | 212.0E6 | 423.843 | 438.259 |

Handwritten: SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W4

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-04
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034932.D
 % Solids : 88.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 37 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 1400 | E |
| 37324-23-5 | Aroclor-1262 | 37 | U |
| 11100-14-4 | Aroclor-1268 | 37 | U |

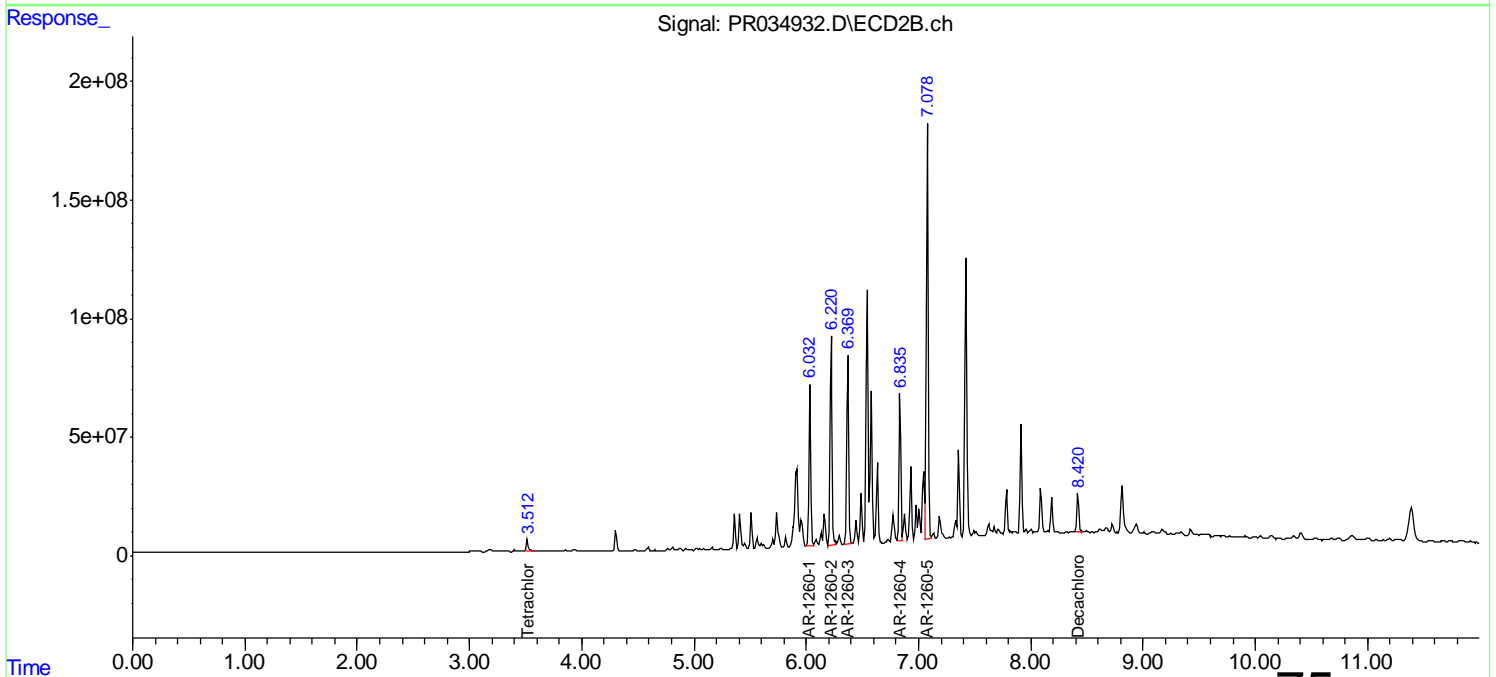
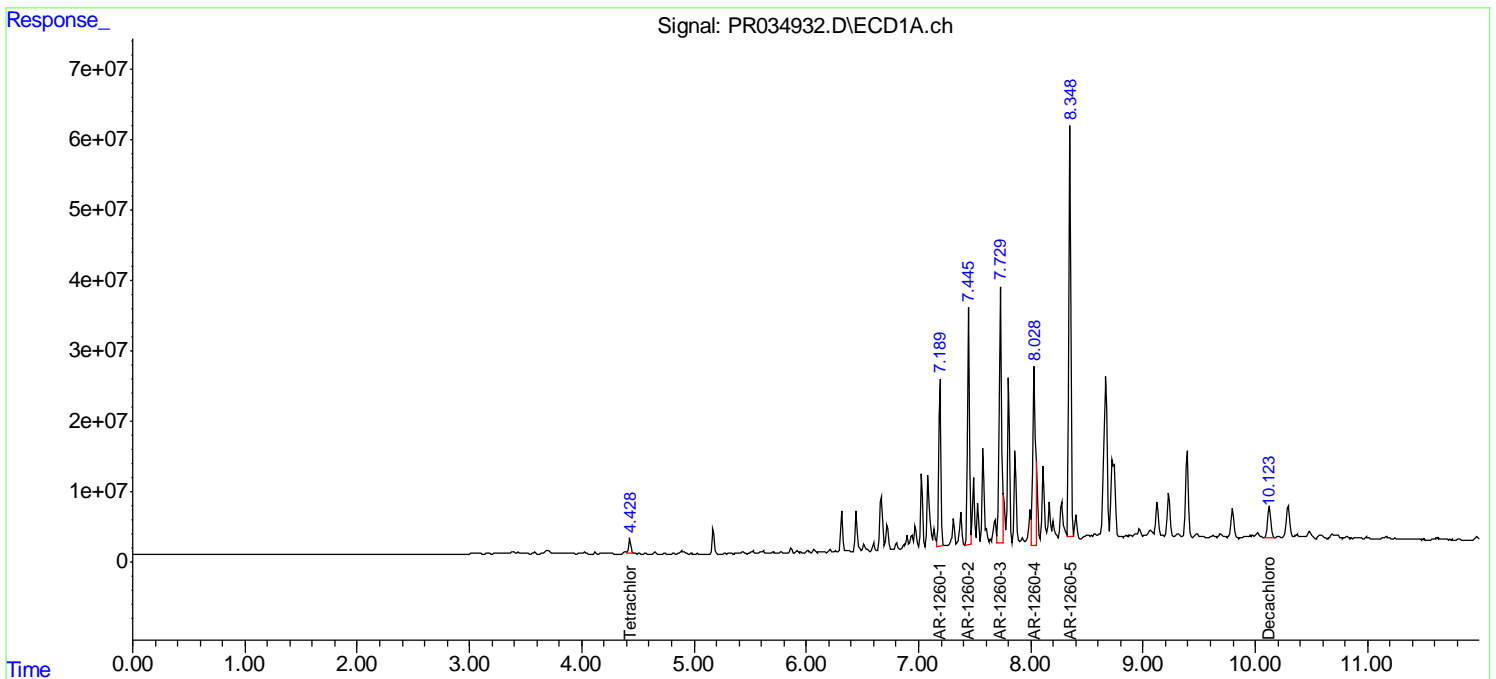
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 Acq On : 20 Dec 2018 16:19
 Operator : SM\SJ
 Sample : J6431-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41W4

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034932.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:19
 Operator : SM\SJ
 Sample : J6431-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41W4

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 30295616 | 60650430 | 15.576m | 17.398 |
| 2) SA Decachlor... | 10.124 | 8.420 | 87905740 | 200.5E6 | 44.715 | 45.605 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.190 | 6.032 | 295.5E6 | 741.5E6 | 3143.491 | 3449.448 |
| 32) L7 AR-1260-2 | 7.446 | 6.220 | 407.1E6 | 973.5E6 | 3506.654 | 3577.291 |
| 33) L7 AR-1260-3 | 7.730 | 6.369 | 528.6E6 | 901.1E6 | 3787.569 | 3630.181m |
| 34) L7 AR-1260-4 | 8.028 | 6.835 | 378.5E6 | 670.8E6 | 4382.649m | 3923.263m |
| 35) L7 AR-1260-5 | 8.348 | 7.078 | 782.3E6 | 2035.3E6 | 4332.798m | 4208.305 |
| ----- | | | | | | |

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

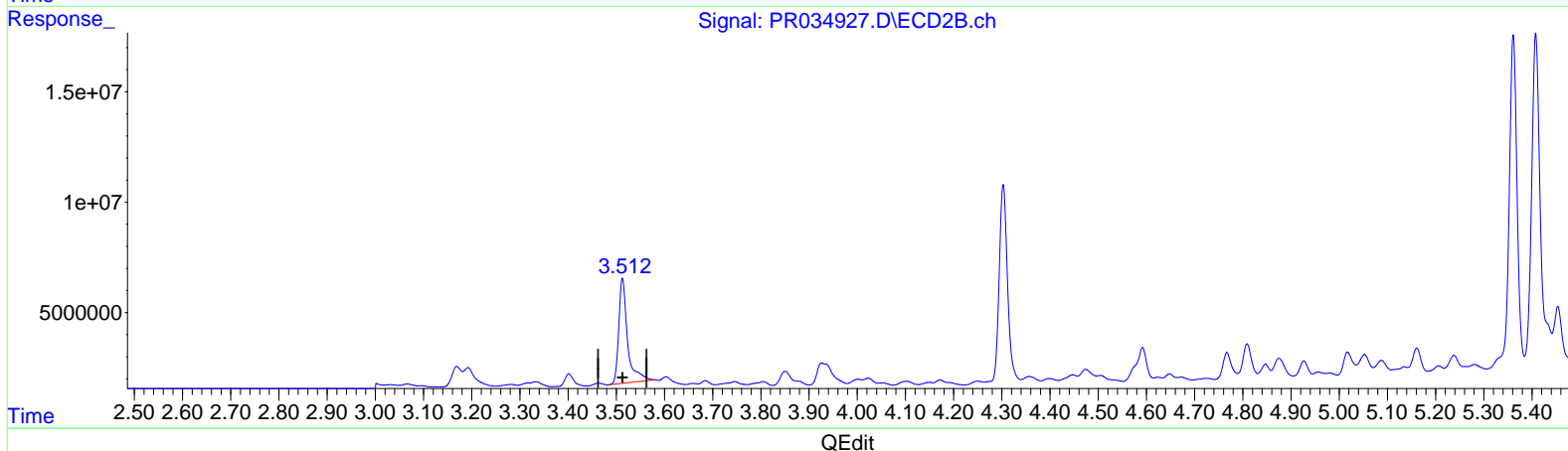
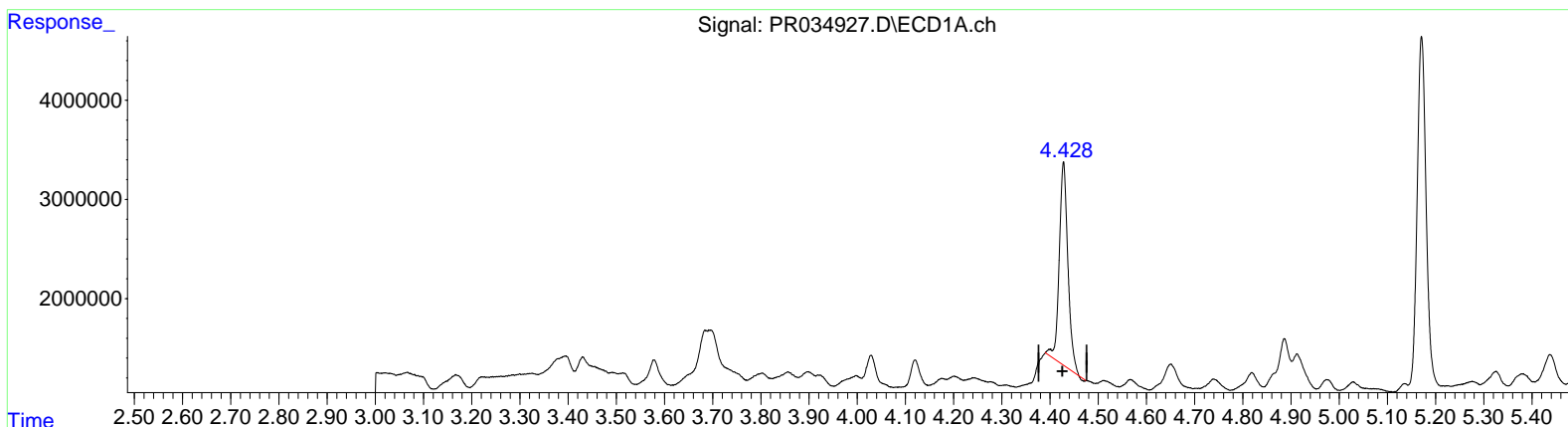
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 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:19
 Operator : SM\SJ
 Sample : J6431-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W4

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.428min 12.987 ng/ml

response 25260250

(1) Tetrachloro-m-xylene #2 (SA)

3.513min 17.398 ng/ml

response 60650430

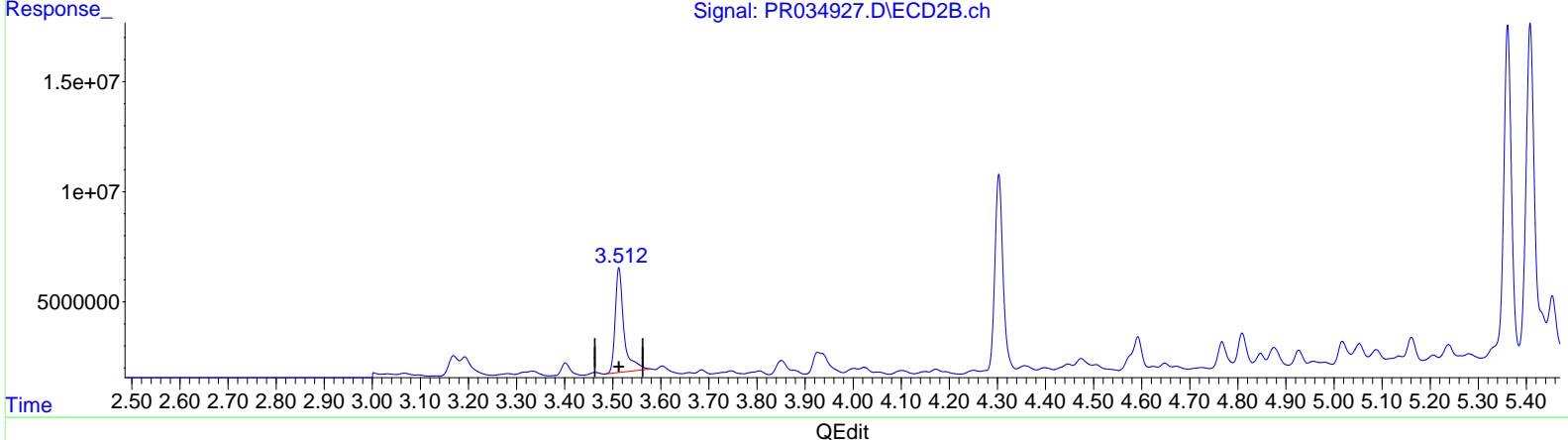
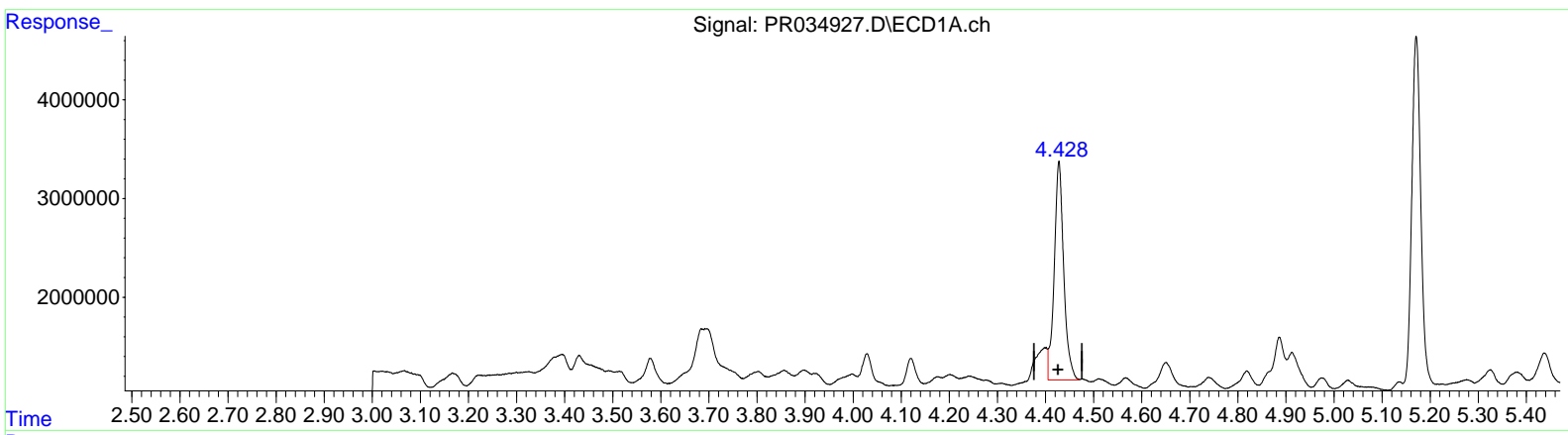
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 Data File : PR034932.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:19
 Operator : SM\SJ
 Sample : J6431-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W4

Manual Integrations
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 12/21/2018 6:11:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.428min 15.576 ng/ml m
 response 30295616

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 17.398 ng/ml
 response 60650430

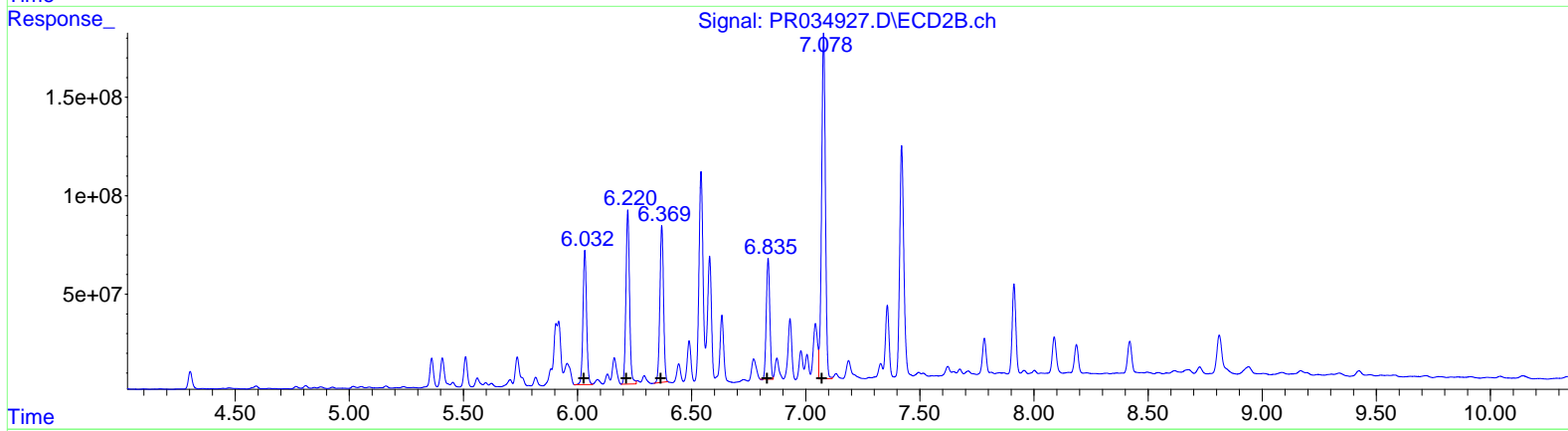
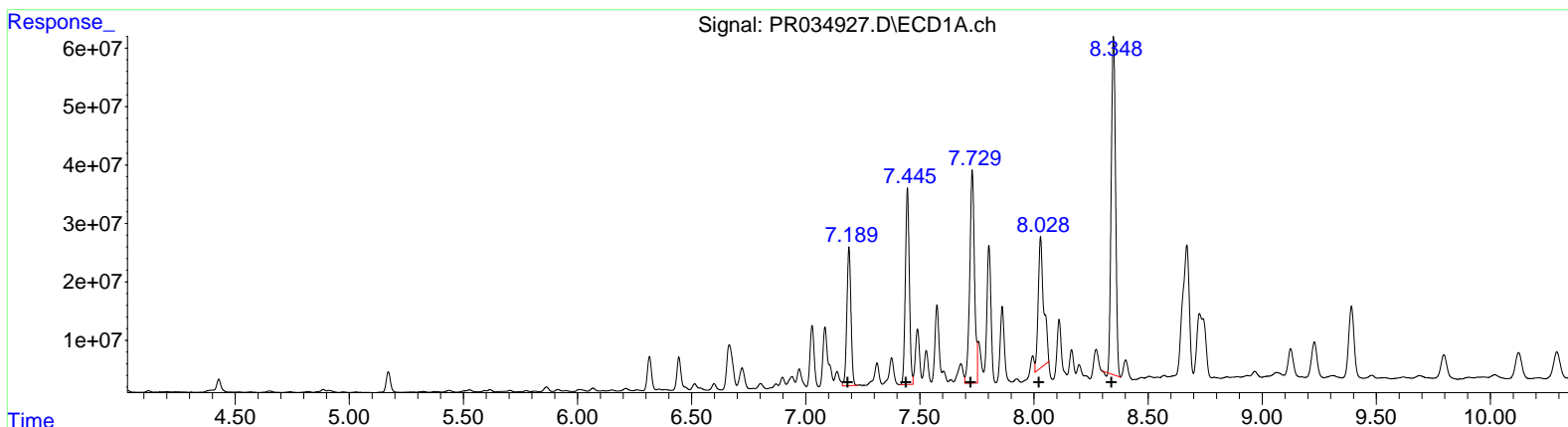
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034932.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:19
 Operator : SM\SJ
 Sample : J6431-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W4

Manual Integrations
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 Sohil
 12/21/2018 6:11:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.19 | 295513293 | 3143.49 |
| 7.45 | 407126631 | 3506.65 |
| 7.73 | 528579579 | 3787.57 |
| 8.03 | 374103506 | 4331.73 |
| 8.35 | 761154456 | 4215.67 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|------------|---------|
| 6.03 | 741535408 | 3449.45 |
| 6.22 | 973457960 | 3577.29 |
| 6.37 | 884537236 | 3563.29 |
| 6.84 | 658678410 | 3852.14 |
| 7.08 | 2035327329 | 4208.31 |

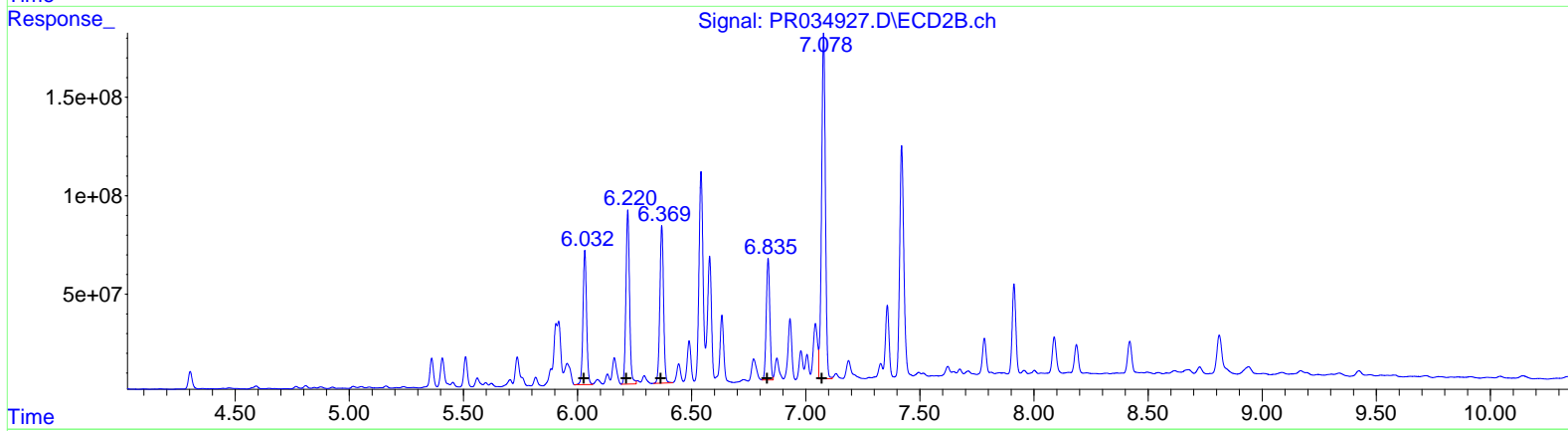
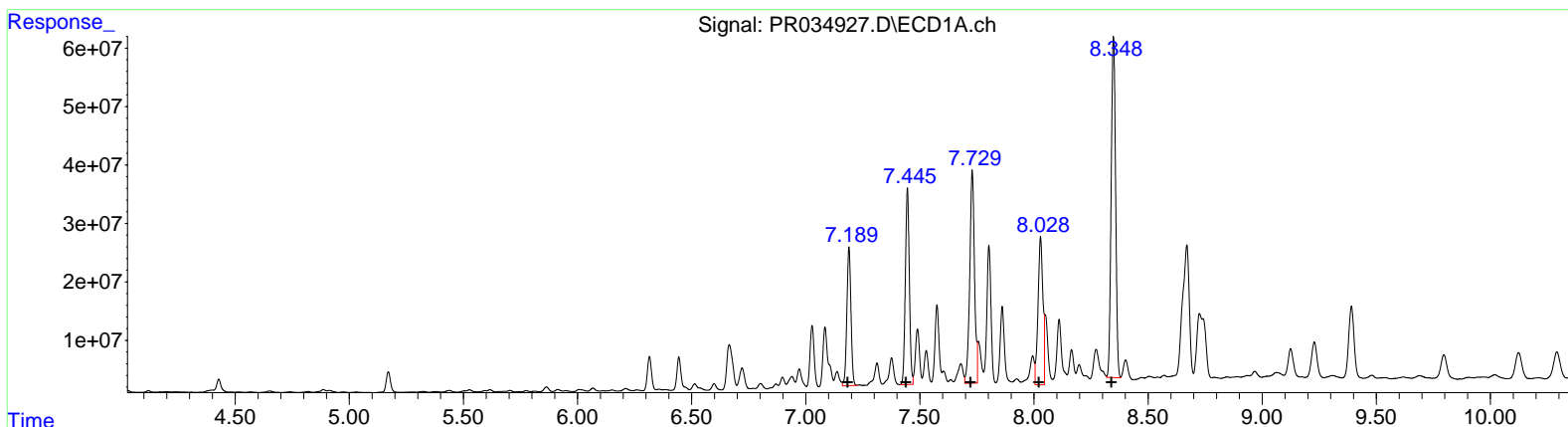
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034932.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:19
 Operator : SM\SJ
 Sample : J6431-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W4

Manual Integrations
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 12/21/2018 6:11:52 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.19 | 295513293 | 3143.49 |
| 7.45 | 407126631 | 3506.65 |
| 7.73 | 528579579 | 3787.57 |
| 8.03 | 378501246 | 4382.65 |
| 8.35 | 782302879 | 4332.80 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|------------|---------|
| 6.03 | 741535408 | 3449.45 |
| 6.22 | 973457960 | 3577.29 |
| 6.37 | 901141092 | 3630.18 |
| 6.83 | 670839966 | 3923.26 |
| 7.08 | 2035327329 | 4208.31 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034932.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:19
 Operator : SM\SJ
 Sample : J6431-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W4

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:52 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 30295616 | 60650430 | 15.576m | 17.398 |
| 2) SA Decachlor... | 10.124 | 8.420 | 87905740 | 200.5E6 | 44.715 | 45.605 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.190 | 6.032 | 295.5E6 | 741.5E6 | 3143.491 | 3449.448 |
| 32) L7 AR-1260-2 | 7.446 | 6.220 | 407.1E6 | 973.5E6 | 3506.654 | 3577.291 |
| 33) L7 AR-1260-3 | 7.730 | 6.369 | 528.6E6 | 901.1E6 | 3787.569 | 3630.181m |
| 34) L7 AR-1260-4 | 8.028 | 6.835 | 378.5E6 | 670.8E6 | 4382.649m | 3923.263m |
| 35) L7 AR-1260-5 | 8.348 | 7.078 | 782.3E6 | 2035.3E6 | 4332.798m | 4208.305 |
| ----- | | | | | | |

}
 53
 12/26/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41W4DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-04DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034990.D
 % Solids : 88.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 190 | U |
| 11104-28-2 | Aroclor-1221 | 190 | U |
| 11141-16-5 | Aroclor-1232 | 190 | U |
| 53469-21-9 | Aroclor-1242 | 190 | U |
| 12672-29-6 | Aroclor-1248 | 190 | U |
| 11097-69-1 | Aroclor-1254 | 190 | U |
| 11096-82-5 | Aroclor-1260 | 1500 | D |
| 37324-23-5 | Aroclor-1262 | 190 | U |
| 11100-14-4 | Aroclor-1268 | 190 | U |

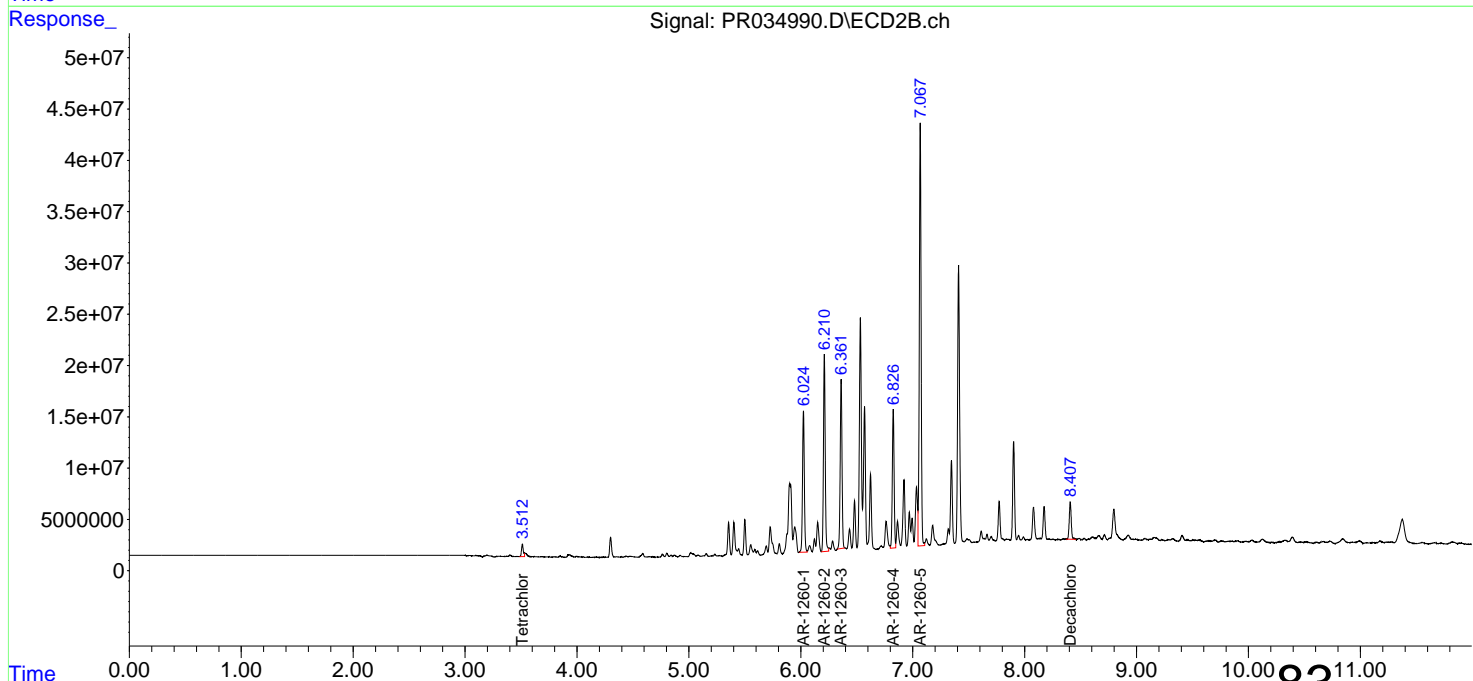
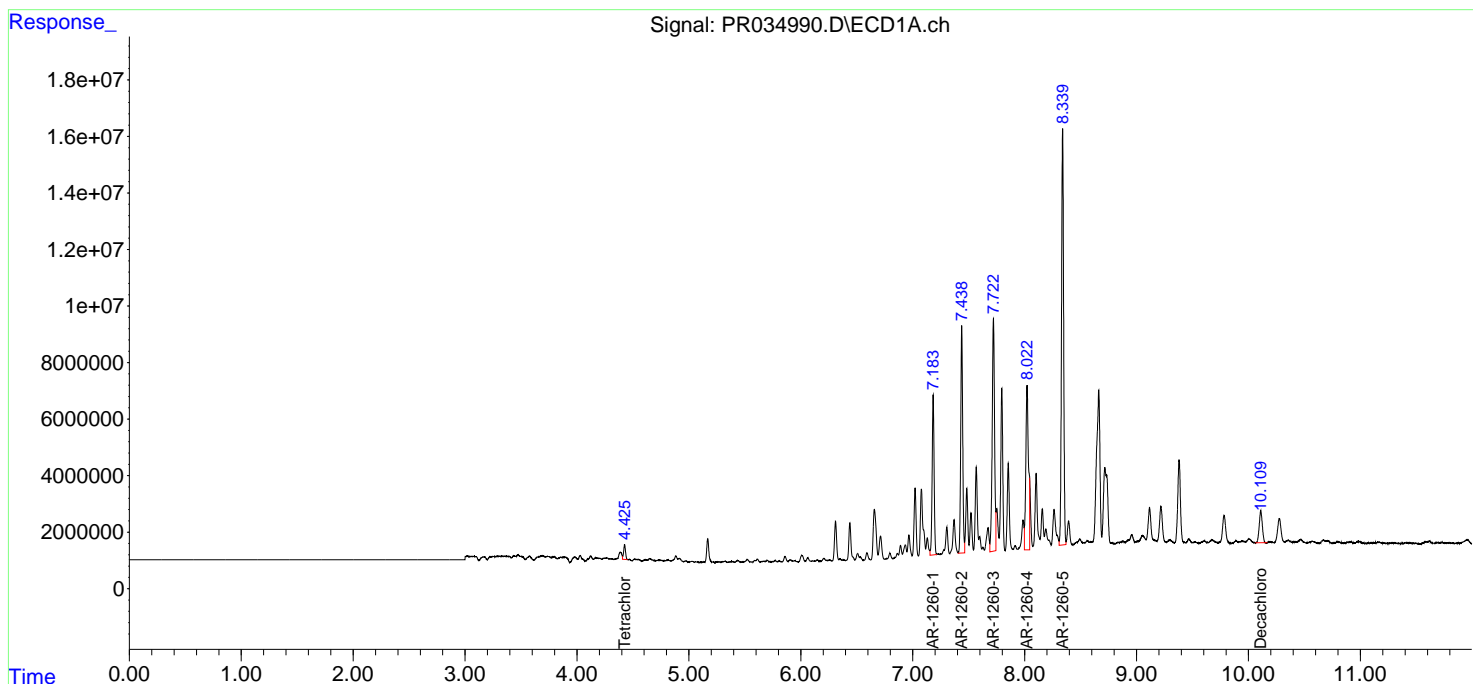
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034990.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:46
 Operator : SM\SJ
 Sample : J6431-04DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W4DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:18 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:45:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034990.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
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Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:18 AM

Integration File signal 1: autoint1.e
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 Quant Time: Dec 22 02:45:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
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 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.512 | 6191492 | 13660832 | 3.183m | 3.919 |
| 2) SA Decachlor... | 10.110 | 8.408 | 21494872 | 45263736 | 10.934 | 10.295 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.024 | 68646610 | 156.4E6 | 730.221 | 727.757 |
| 32) L7 AR-1260-2 | 7.438 | 6.210 | 98236597 | 210.8E6 | 846.129 | 774.719 |
| 33) L7 AR-1260-3 | 7.722 | 6.361 | 121.4E6 | 185.9E6 | 869.920m | 749.001 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 96540452 | 150.2E6 | 1117.838m | 878.420 |
| 35) L7 AR-1260-5 | 8.339 | 7.068 | 194.0E6 | 460.7E6 | 1074.298m | 952.559 |
| ----- | | | | | | |

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

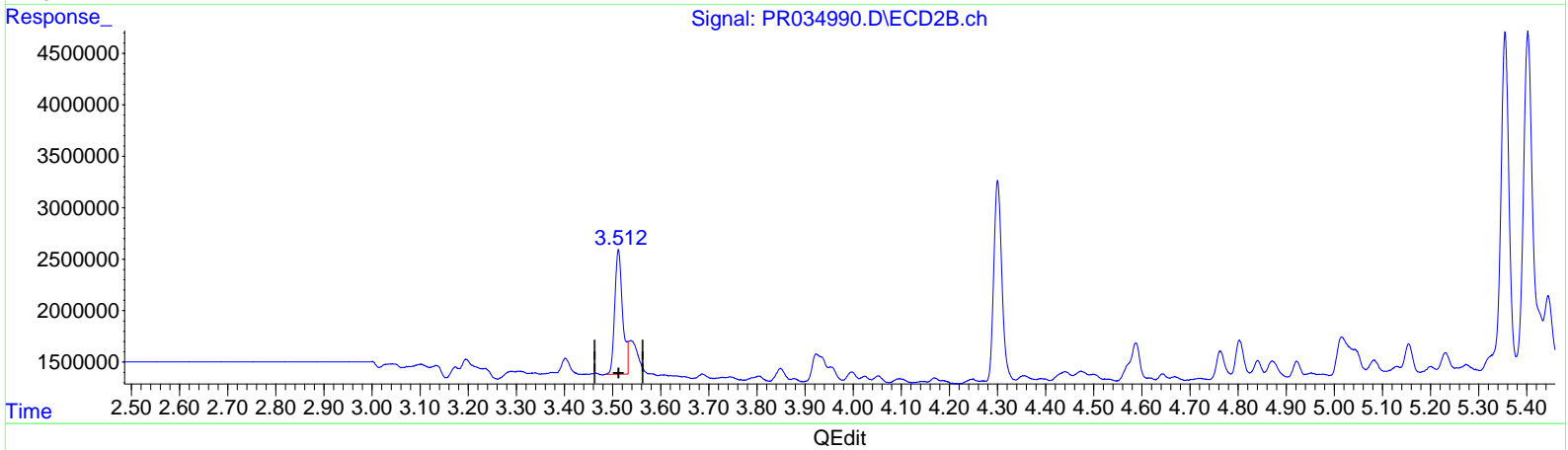
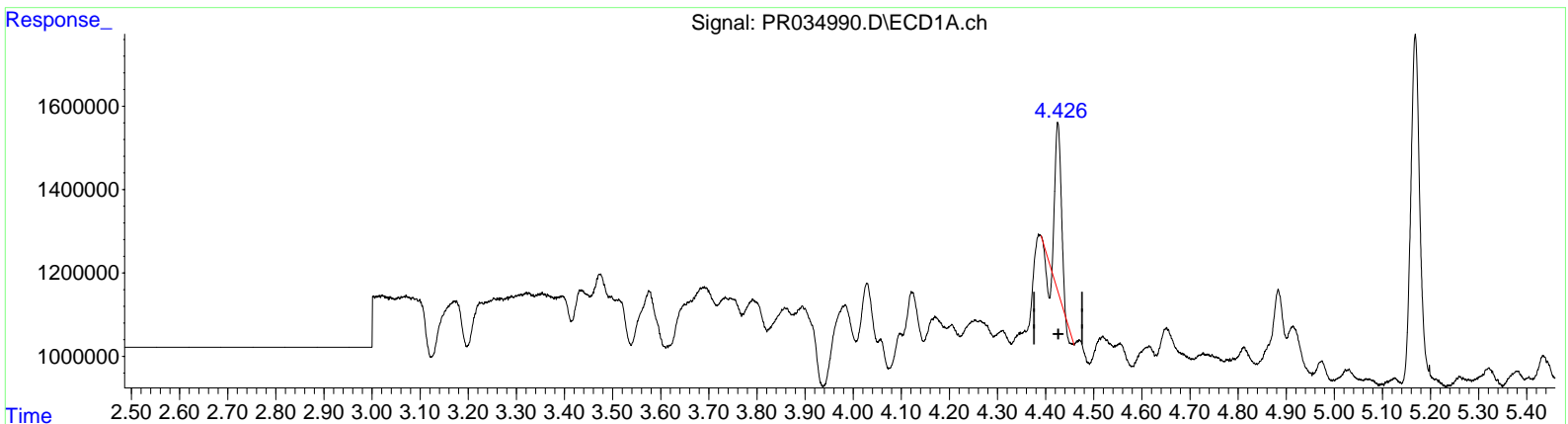
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 Data File : PR034990.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:46
 Operator : SM\SJ
 Sample : J6431-04DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W4DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:18 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:45:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 1.568 ng/ml
 response 3050415

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 3.919 ng/ml
 response 13660832

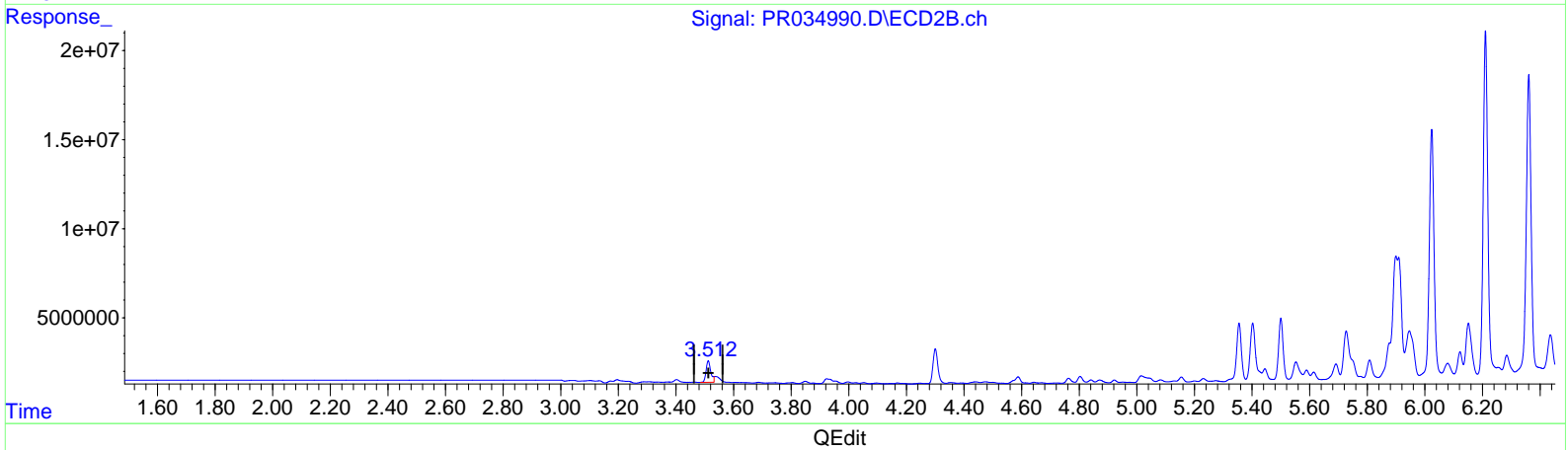
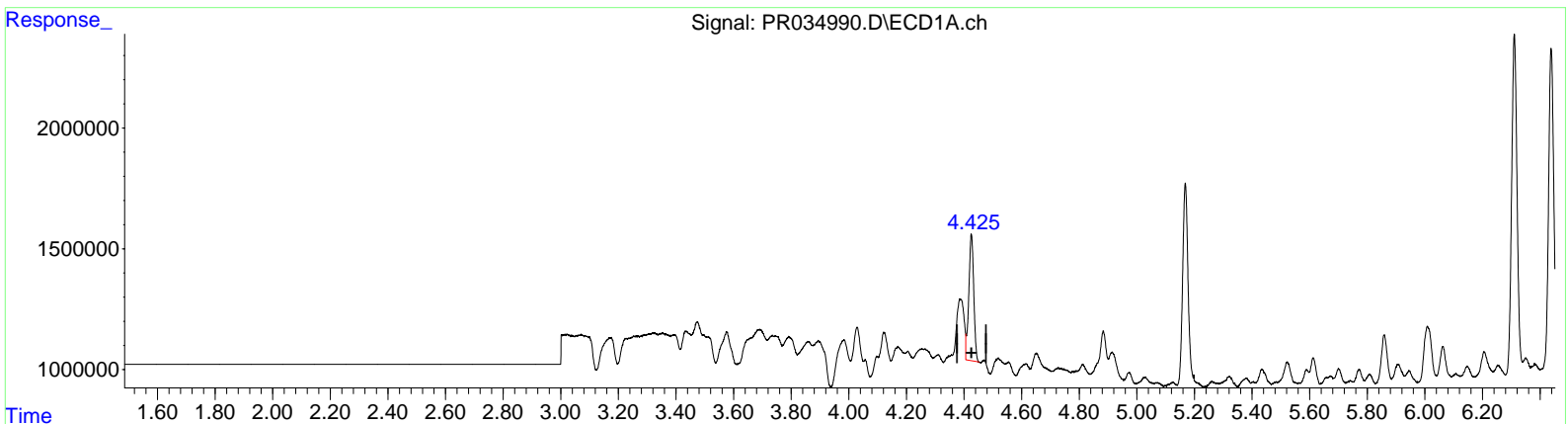
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034990.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:46
 Operator : SM\SJ
 Sample : J6431-04DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41W4DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:18 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:45:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
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 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.425min 3.183 ng/ml m
 response 6191492

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 3.919 ng/ml
 response 13660832

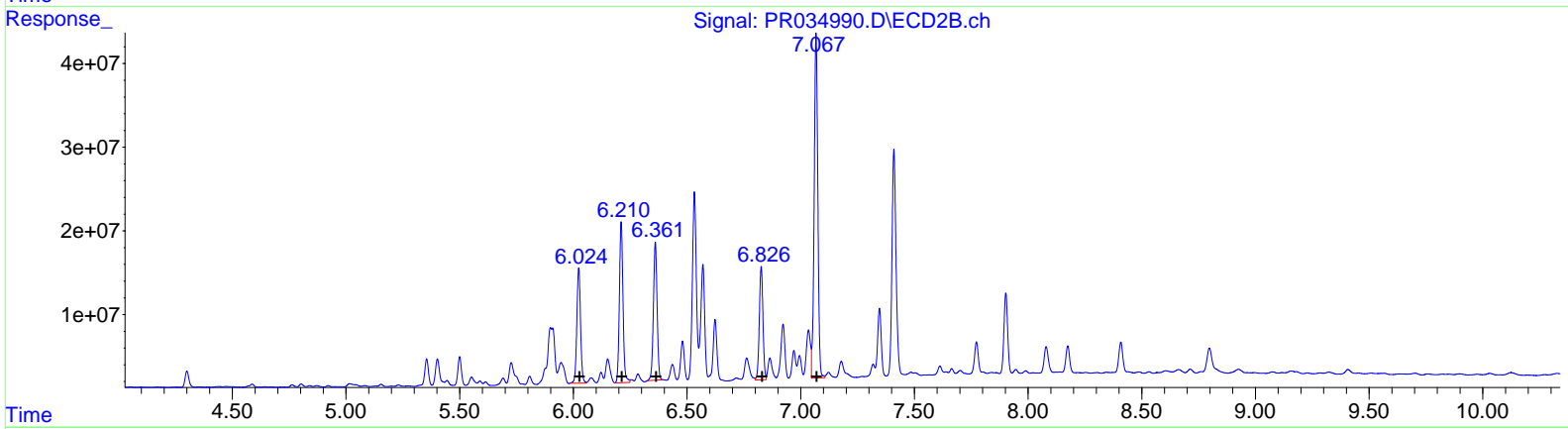
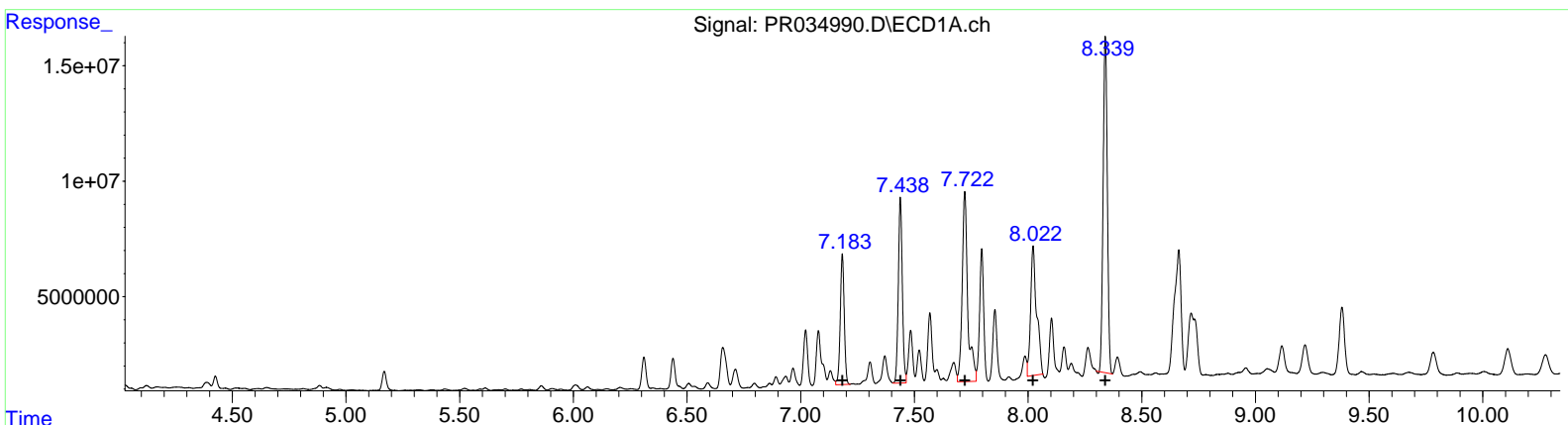
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034990.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:46
 Operator : SM\SJ
 Sample : J6431-04DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W4DL

Manual Integrations
APPROVED
 Sohil
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:45:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 68646610 | 730.22 |
| 7.44 | 98236597 | 846.13 |
| 7.72 | 139803625 | 1001.77 |
| 8.02 | 103106185 | 1193.86 |
| 8.34 | 187821787 | 1040.25 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 156447414 | 727.76 |
| 6.21 | 210817746 | 774.72 |
| 6.36 | 185928898 | 749.00 |
| 6.83 | 150201353 | 878.42 |
| 7.07 | 460700780 | 952.56 |

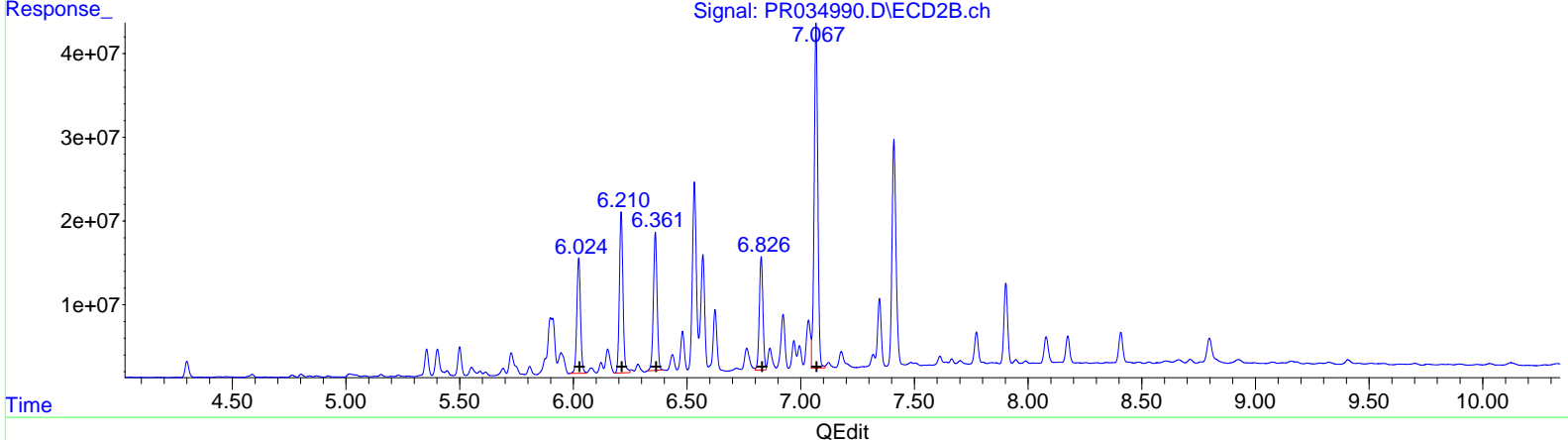
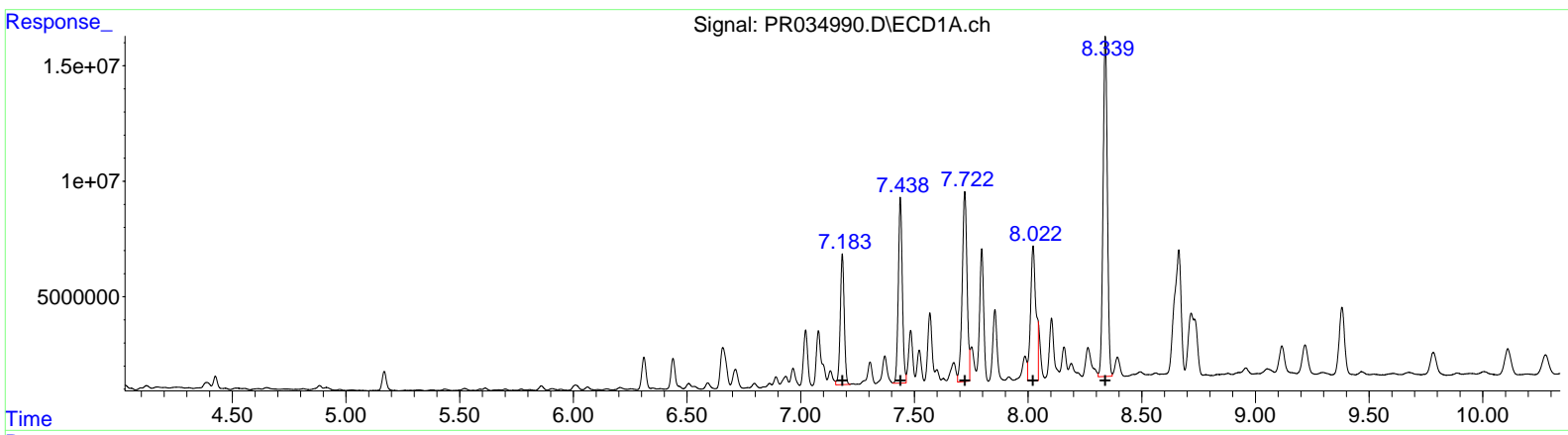
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034990.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:46
 Operator : SM\SJ
 Sample : J6431-04DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W4DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:18 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:45:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 #2 (L7) | R.T. | Response | Conc |
|------------------------|------|-----------|---------|
| | 7.18 | 68646610 | 730.22 |
| | 7.44 | 98236597 | 846.13 |
| | 7.72 | 121402923 | 869.92 |
| | 8.02 | 96540452 | 1117.84 |
| | 8.34 | 193968576 | 1074.30 |

| (31) AR-1260-1 #2 (L7) | R.T. | Response | Conc |
|------------------------|------|-----------|--------|
| | 6.02 | 156447414 | 727.76 |
| | 6.21 | 210817746 | 774.72 |
| | 6.36 | 185928898 | 749.00 |
| | 6.83 | 150201353 | 878.42 |
| | 7.07 | 460700780 | 952.56 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034990.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:46
 Operator : SM\SJ
 Sample : J6431-04DL 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41W4DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:45:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

Sohil
 12/26/2018 8:20:18 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|---------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.512 | 6191492 | 13660832 | 3.183m | 3.919 |
| 2) SA Decachlor... | 10.110 | 8.408 | 21494872 | 45263736 | 10.934 | 10.295 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.024 | 68646610 | 156.4E6 | 730.221 | 727.757 |
| 32) L7 AR-1260-2 | 7.438 | 6.210 | 98236597 | 210.8E6 | 846.129 | 774.719 |
| 33) L7 AR-1260-3 | 7.722 | 6.361 | 121.4E6 | 185.9E6 | 869.920m | 749.001 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 96540452 | 150.2E6 | 1117.838m | 878.420 |
| 35) L7 AR-1260-5 | 8.339 | 7.068 | 194.0E6 | 460.7E6 | 1074.298m | 952.559 |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X1

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-05
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034933.D
 % Solids : 73.1 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 45 | U |
| 11104-28-2 | Aroclor-1221 | 45 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 45 | U |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 45 | U |
| 11096-82-5 | Aroclor-1260 | 130 | |
| 37324-23-5 | Aroclor-1262 | 45 | U |
| 11100-14-4 | Aroclor-1268 | 45 | U |

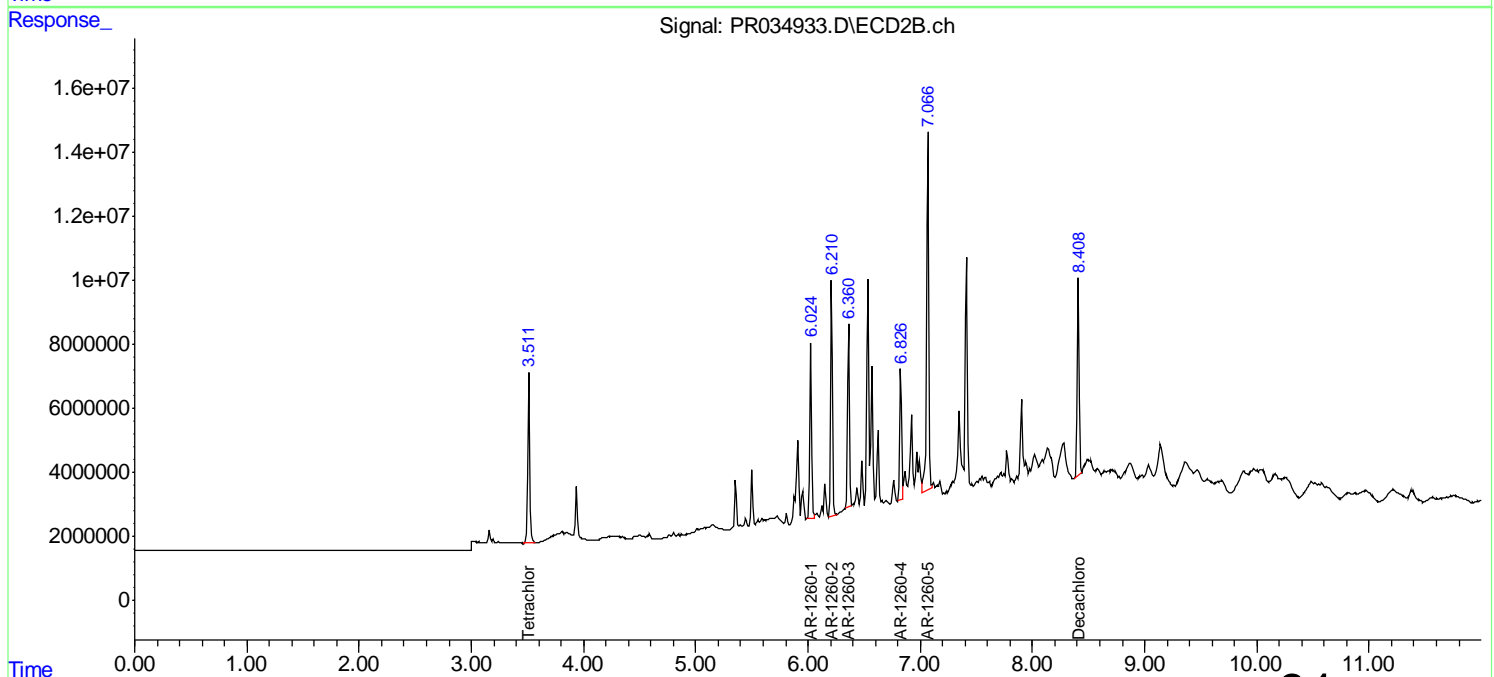
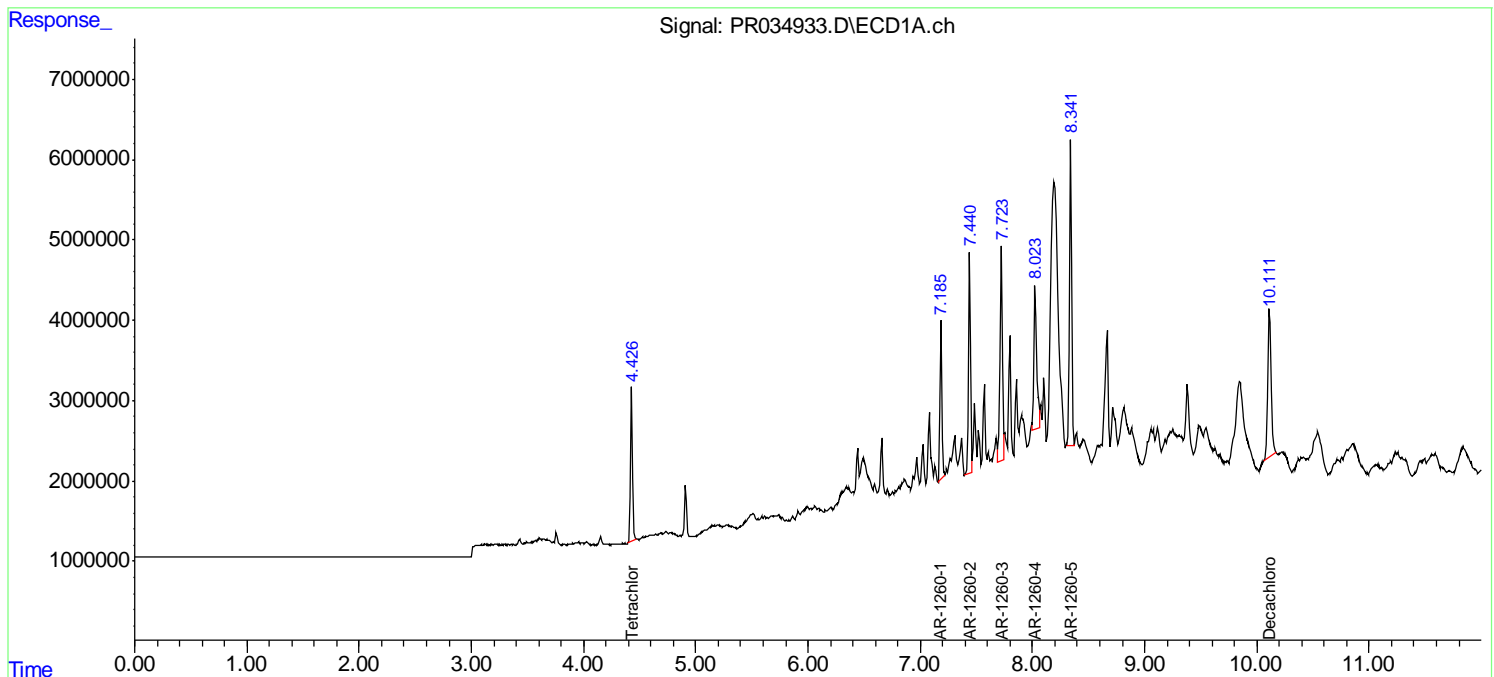
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 Data File : PR034933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:33
 Operator : SM\SJ
 Sample : J6431-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X1

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:53 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:33
 Operator : SM\SJ
 Sample : J6431-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41X1

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:53 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 23600703 | 60463253 | 12.134 | 17.344m# |
| 2) SA Decachlor... | 10.112 | 8.408 | 37818079 | 74320221 | 19.237 | 16.904 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.185 | 6.024 | 23306640 | 62291102 | 247.922 | 289.764 |
| 32) L7 AR-1260-2 | 7.440 | 6.210 | 34281265 | 79054708 | 295.271 | 290.512 |
| 33) L7 AR-1260-3 | 7.723 | 6.361 | 39912811 | 63772570 | 285.998 | 256.903 |
| 34) L7 AR-1260-4 | 8.023 | 6.826 | 30624974 | 48854124 | 354.605m | 285.713 |
| 35) L7 AR-1260-5 | 8.341 | 7.067 | 51399716 | 140.3E6 | 284.678 | 290.149 |
| ----- | | | | | | |

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

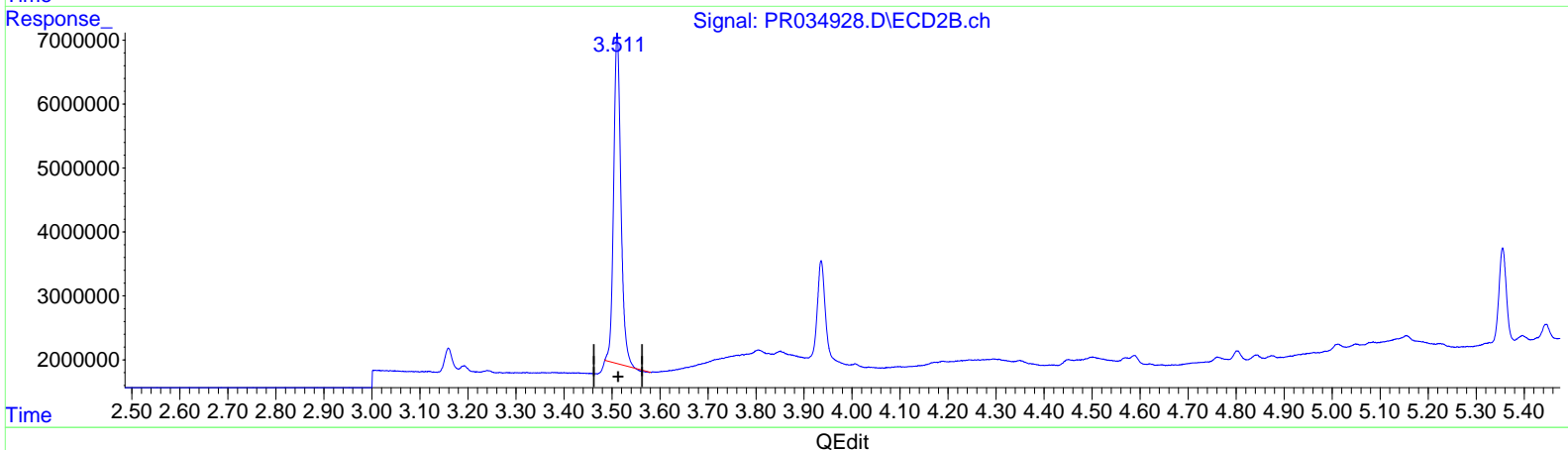
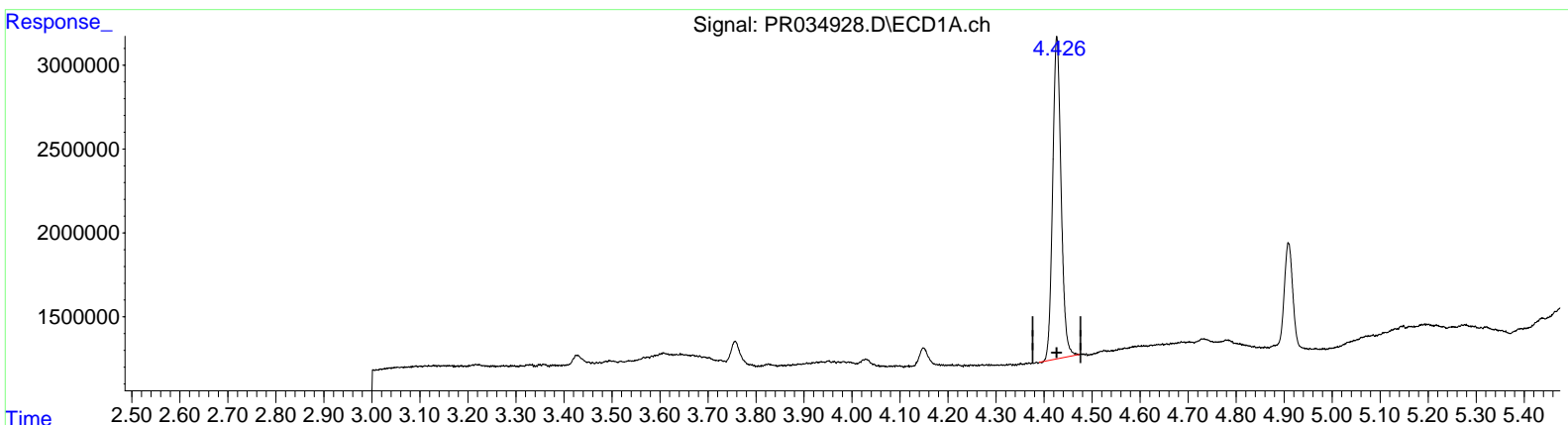
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:33
 Operator : SM\SJ
 Sample : J6431-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X1

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:53 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 12.134 ng/ml
 response 23600703

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 15.573 ng/ml
 response 54287621

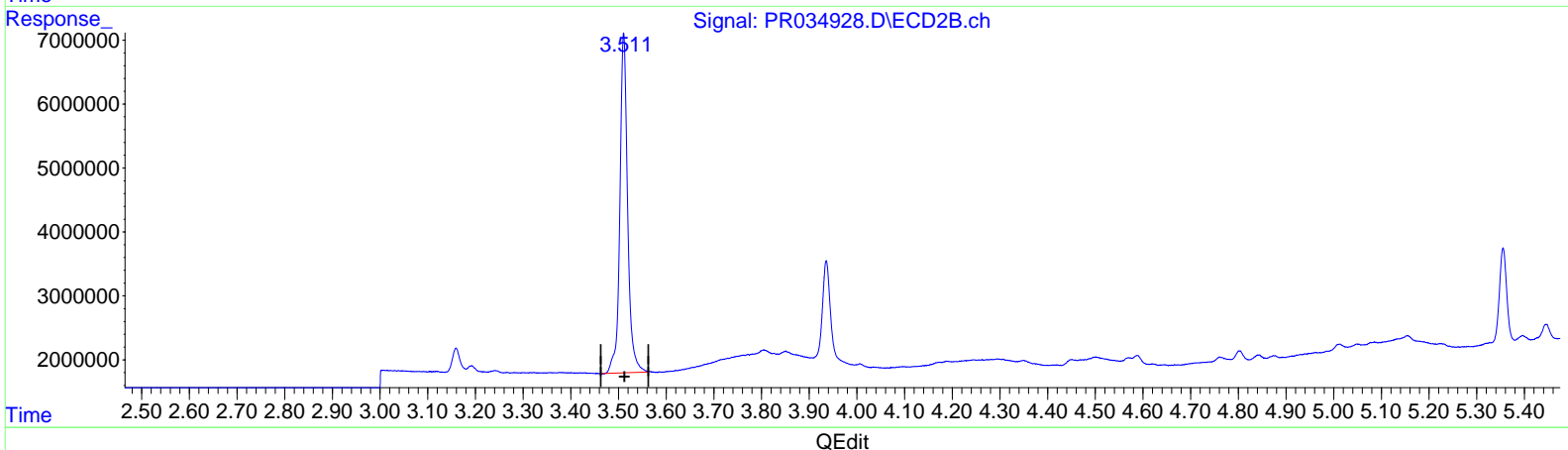
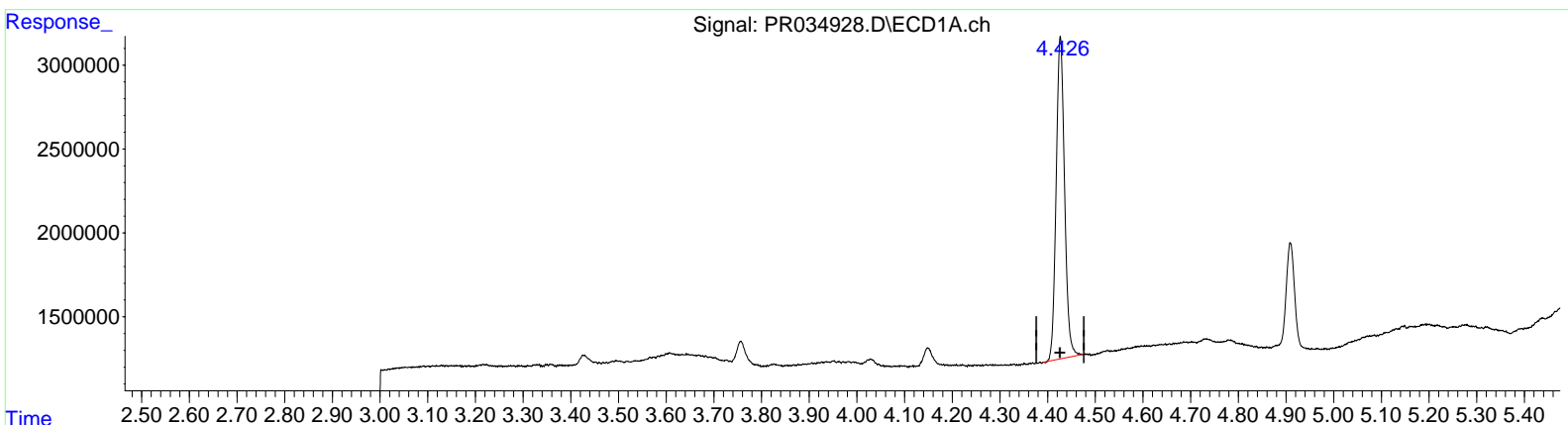
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:33
 Operator : SM\SJ
 Sample : J6431-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X1

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:53 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 12.134 ng/ml
 response 23600703

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 17.344 ng/ml m
 response 60463253

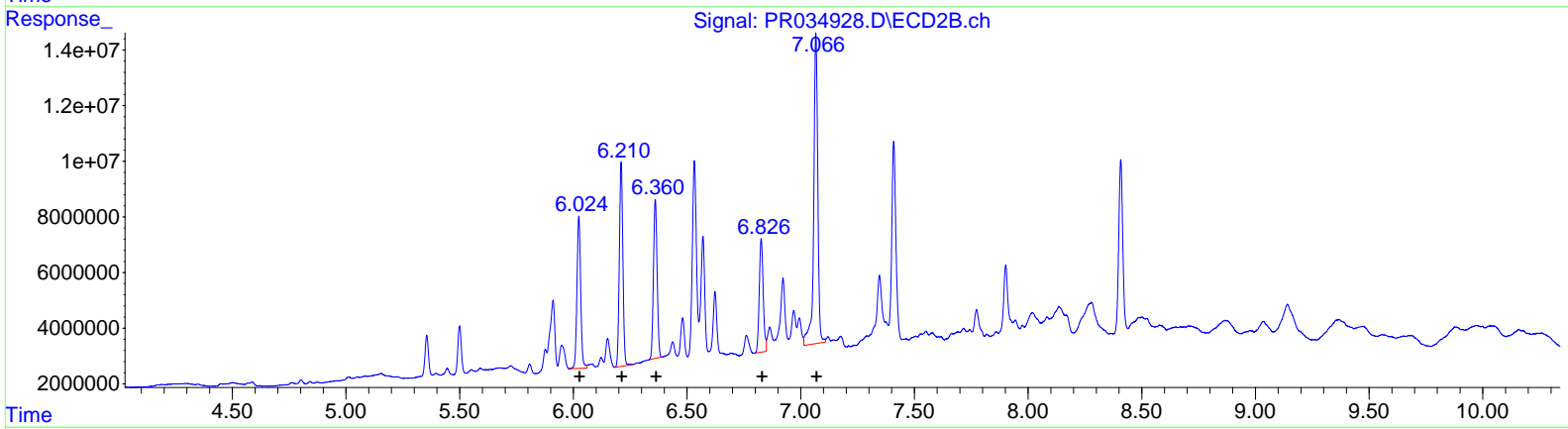
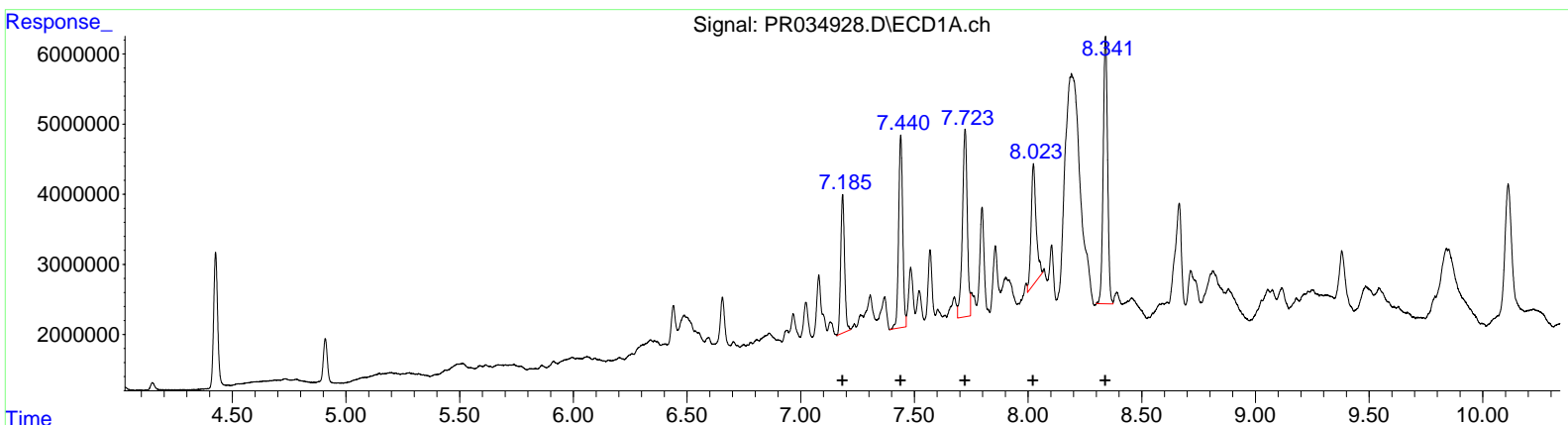
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:33
 Operator : SM\SJ
 Sample : J6431-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X1

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:53 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 23306640 | 247.92 |
| 7.44 | 34281265 | 295.27 |
| 7.72 | 39912811 | 286.00 |
| 8.02 | 26553912 | 307.47 |
| 8.34 | 51399716 | 284.68 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 62291102 | 289.76 |
| 6.21 | 79054708 | 290.51 |
| 6.36 | 63772570 | 256.90 |
| 6.83 | 48854124 | 285.71 |
| 7.07 | 140329369 | 290.15 |

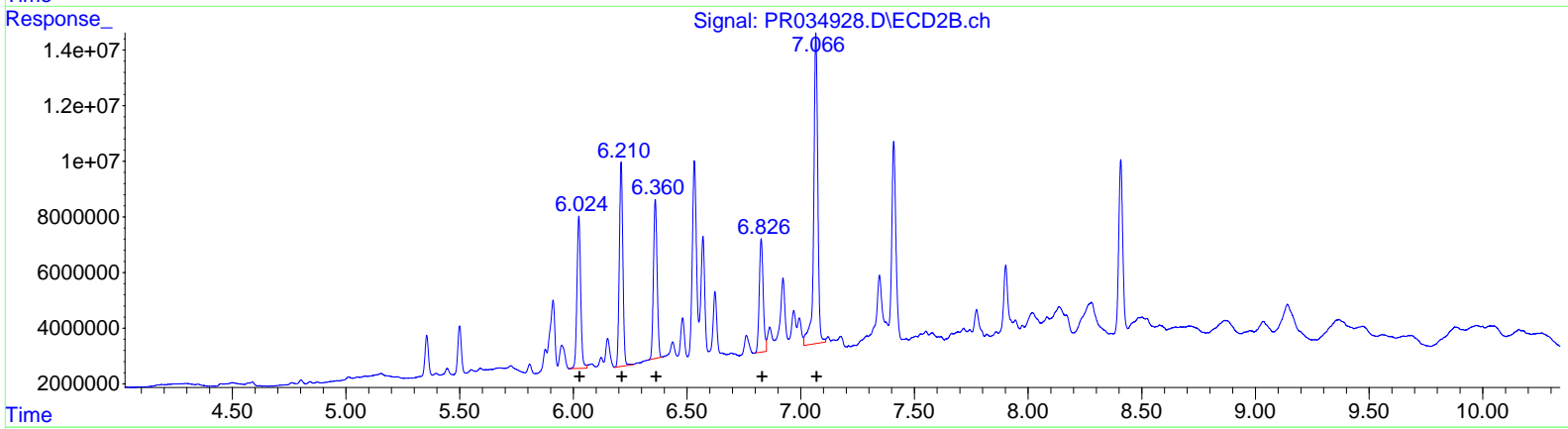
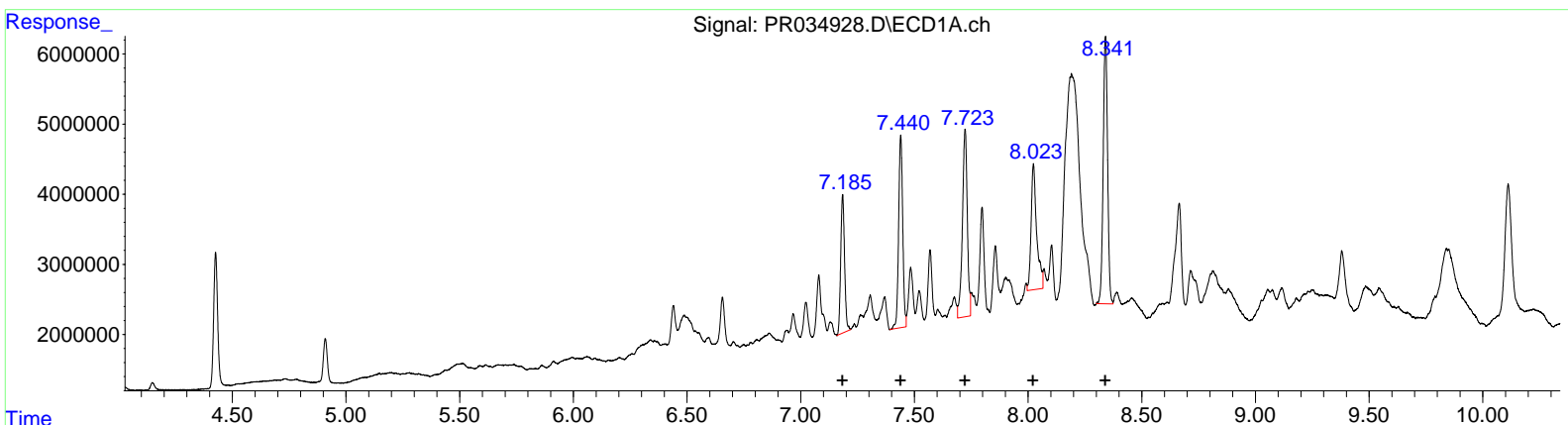
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:33
 Operator : SM\SJ
 Sample : J6431-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X1

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:53 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 23306640 | 247.92 |
| 7.44 | 34281265 | 295.27 |
| 7.72 | 39912811 | 286.00 |
| 8.02 | 30624974 | 354.61 |
| 8.34 | 51399716 | 284.68 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 62291102 | 289.76 |
| 6.21 | 79054708 | 290.51 |
| 6.36 | 63772570 | 256.90 |
| 6.83 | 48854124 | 285.71 |
| 7.07 | 140329369 | 290.15 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034933.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:33
 Operator : SM\SJ
 Sample : J6431-05
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:53 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 23600703 | 60463253 | 12.134 | 17.344m# |
| 2) SA Decachlor... | 10.112 | 8.408 | 37818079 | 74320221 | 19.237 | 16.904 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.185 | 6.024 | 23306640 | 62291102 | 247.922 | 289.764 |
| 32) L7 AR-1260-2 | 7.440 | 6.210 | 34281265 | 79054708 | 295.271 | 290.512 |
| 33) L7 AR-1260-3 | 7.723 | 6.361 | 39912811 | 63772570 | 285.998 | 256.903 |
| 34) L7 AR-1260-4 | 8.023 | 6.826 | 30624974 | 48854124 | 354.605m | 285.713 |
| 35) L7 AR-1260-5 | 8.341 | 7.067 | 51399716 | 140.3E6 | 284.678 | 290.149 |
| ----- | | | | | | |

} SJ
 12/26/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-06
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034934.D
 % Solids : 74.4 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

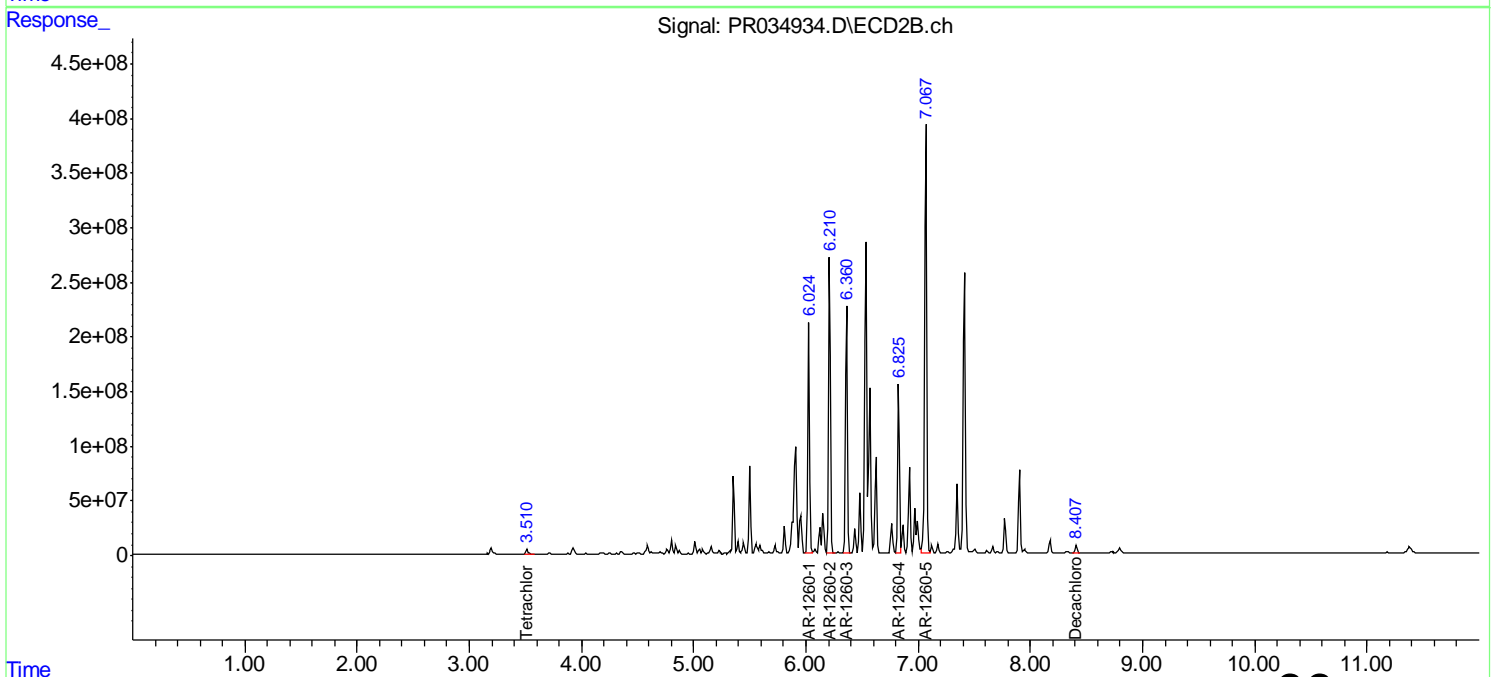
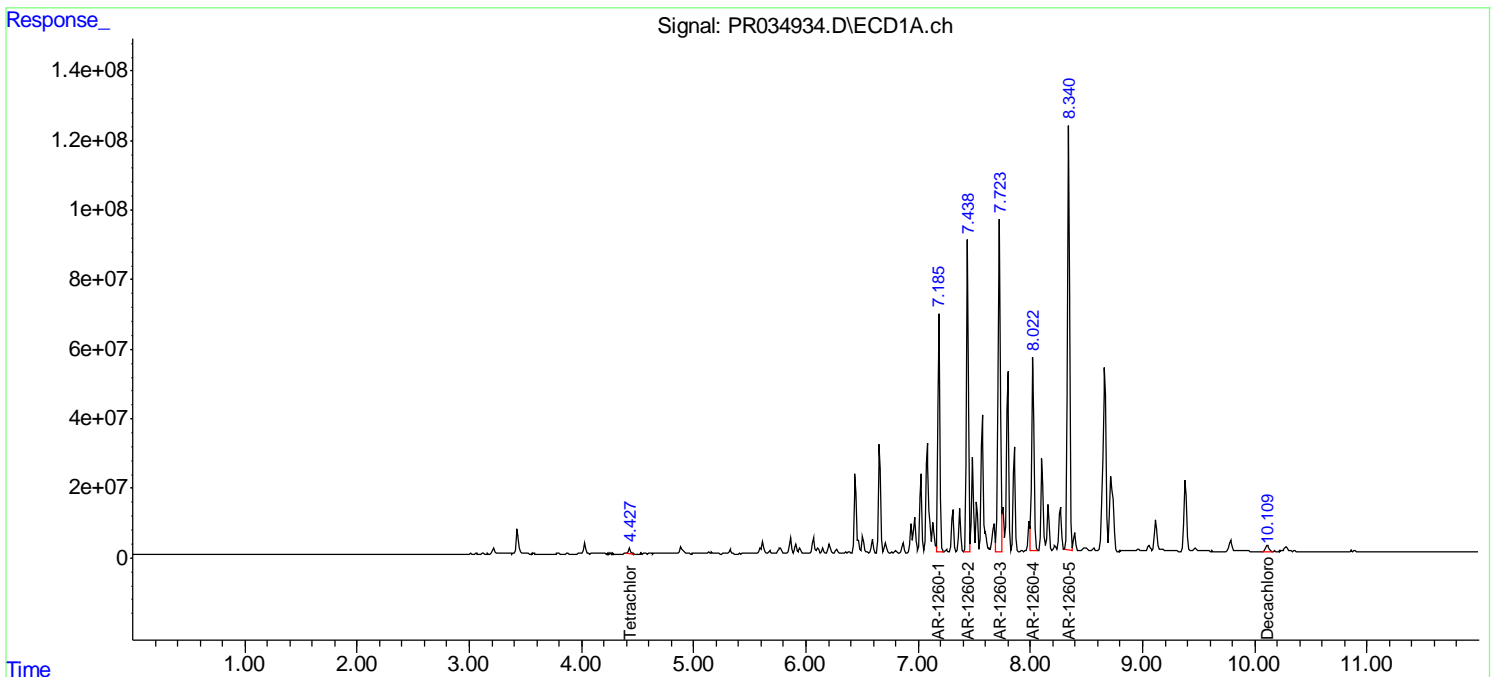
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 4200 | E |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034934.D
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 Acq On : 20 Dec 2018 16:48
 Operator : SM\SJ
 Sample : J6431-06
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034934.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:48
 Operator : SM\SJ
 Sample : J6431-06
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41X2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:44:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 21278175 | 55241841 | 10.940 | 15.847 # |
| 2) SA Decachlor... | 10.111 | 8.408 | 36850508 | 83720937 | 18.745 | 19.042 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.184 | 6.024 | 854.5E6 | 2259.0E6 | 9089.605 | 10508.536 |
| 32) L7 AR-1260-2 | 7.439 | 6.210 | 1127.4E6 | 2982.8E6 | 9710.565 | 10961.121 |
| 33) L7 AR-1260-3 | 7.723 | 6.361 | 1398.2E6 | 2517.2E6 | 10018.653 | 10140.282 |
| 34) L7 AR-1260-4 | 8.023 | 6.826 | 782.6E6 | 1666.6E6 | 9061.498 | 9746.924 |
| 35) L7 AR-1260-5 | 8.341 | 7.067 | 1685.6E6 | 4720.3E6 | 9335.757 | 9759.836 |
| ----- | | | | | | |

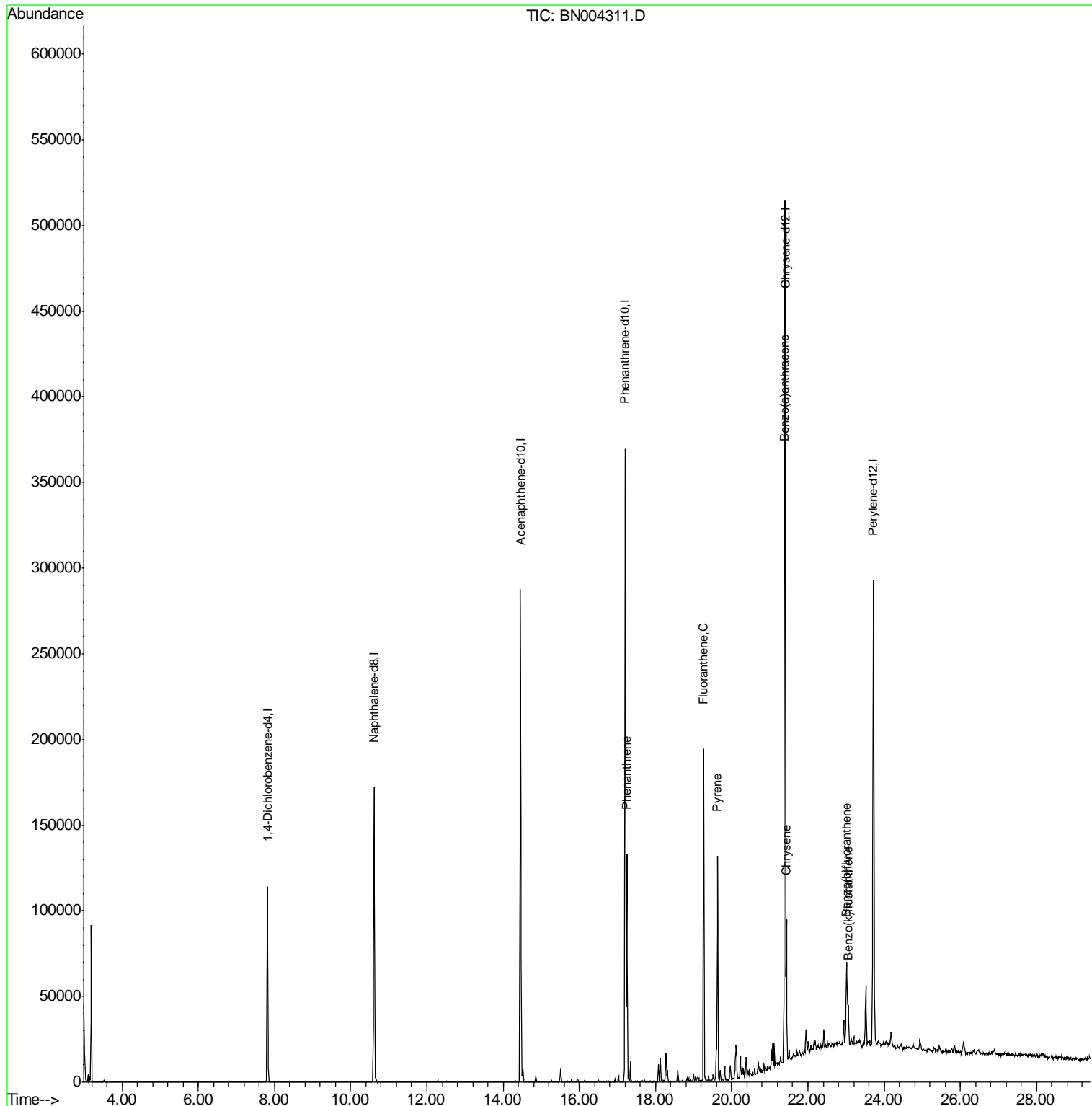
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

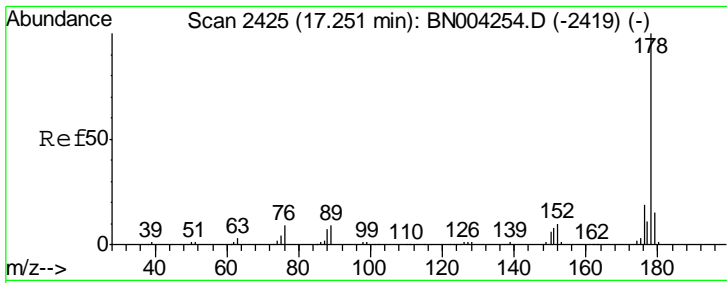
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 Data File : BN004311.D
 Acq On : 02 Jan 2019 15:10
 Operator : JU/SJ
 Sample : J6431-06
 Misc : GCMS Confirmation
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
ClientSampled :
 A41X2

Manual Integrations
APPROVED
 Sohil
 1/2/2019 4:47:39 PM

Quant Time: Jan 02 16:28:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration



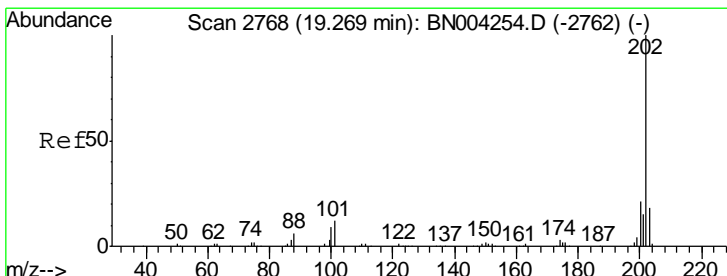
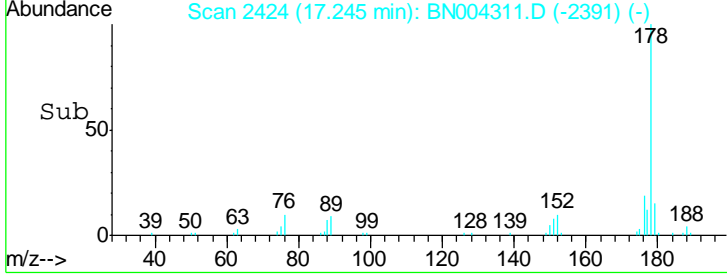
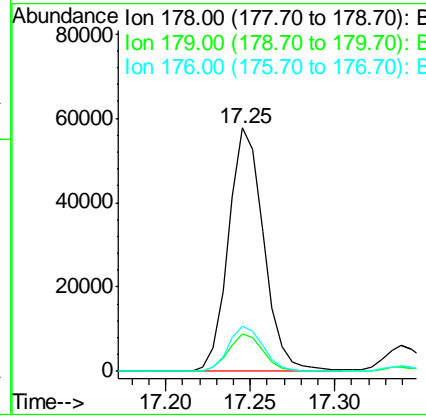
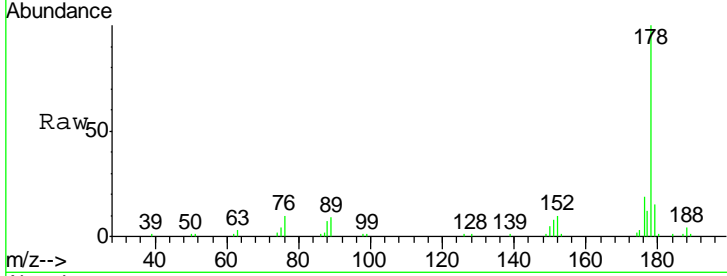


#69
 Phenanthrene
 Concen: 6.299 ng/ul
 RT: 17.25 min Scan# 2424
 Delta R.T. -0.01 min
 Lab File: BN004311.D
 Acq: 02 Jan 2019 15:10

Instrument :
 BNA_N
 ClientSampled :
 A41X2

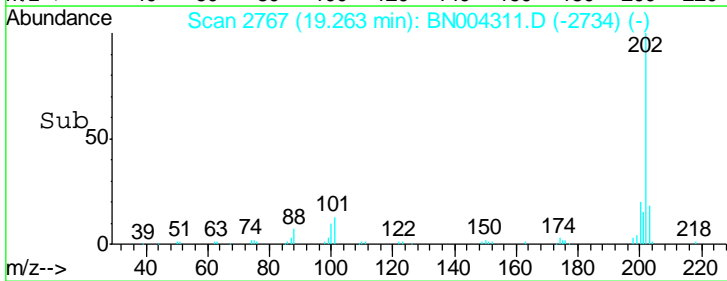
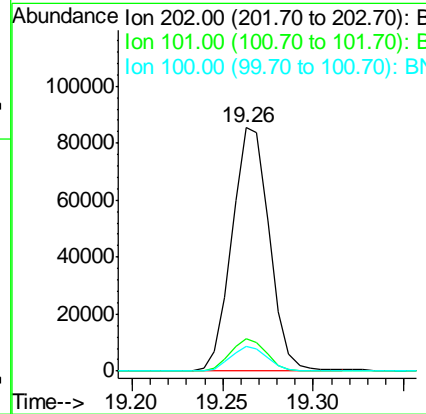
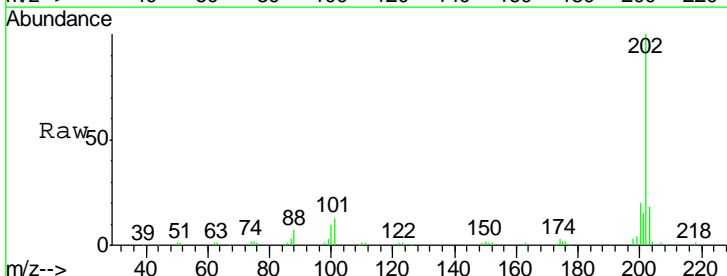
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 178 | 100 | | |
| 179 | 15.3 | 12.1 | 18.1 |
| 176 | 18.7 | 15.0 | 22.6 |

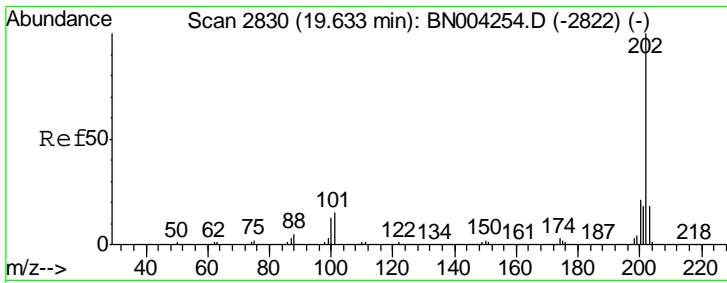
Manual Integrations
APPROVED
 Sohil
 1/2/2019 4:47:39 PM



#76
 Fluoranthene
 Concen: 7.500 ng/ul
 RT: 19.26 min Scan# 2767
 Delta R.T. -0.01 min
 Lab File: BN004311.D
 Acq: 02 Jan 2019 15:10

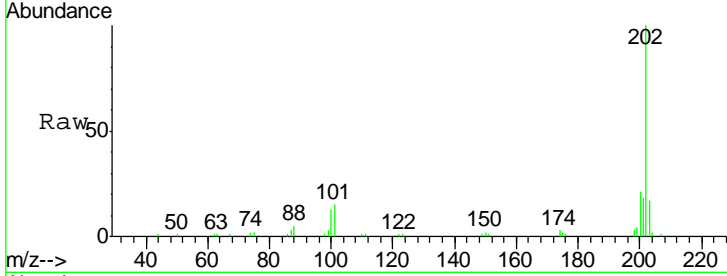
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 13.3 | 10.2 | 15.2 |
| 100 | 10.1 | 7.8 | 11.8 |





#79
 Pyrene
 Concen: 6.175 ng/ul
 RT: 19.63 min Scan# 2829
 Delta R.T. -0.01 min
 Lab File: BN004311.D
 Acq: 02 Jan 2019 15:10

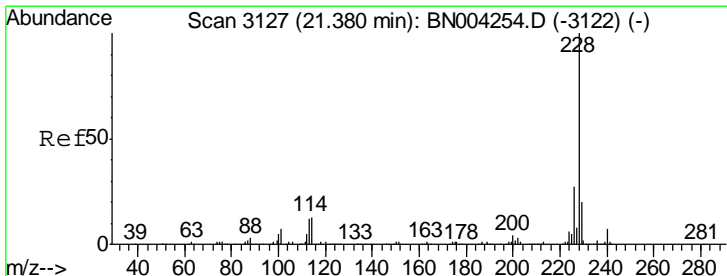
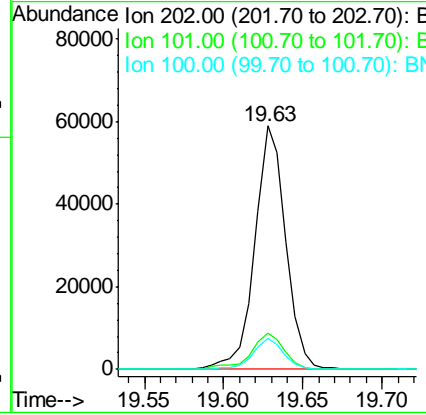
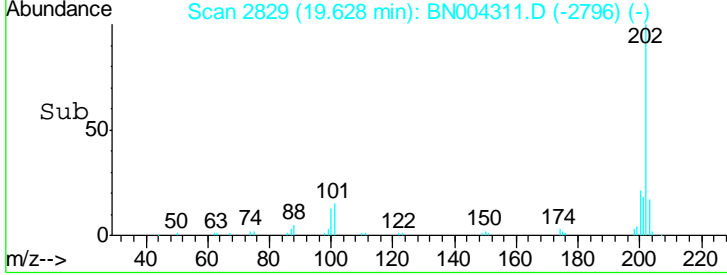
Instrument :
 BNA_N
 ClientSampled :
 A41X2



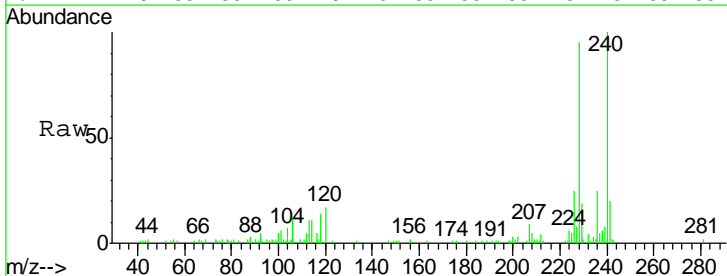
Tgt Ion: 202 Resp: 79975

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100 | | |
| 101 | 14.8 | 12.2 | 18.2 |
| 100 | 12.7 | 9.9 | 14.9 |

Manual Integrations
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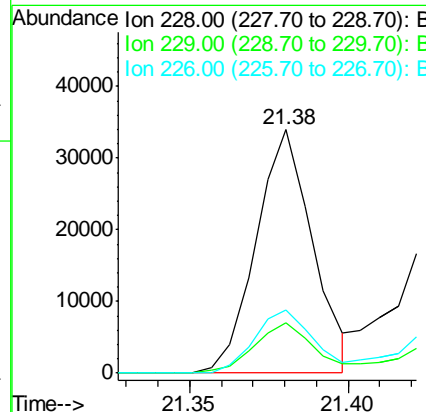
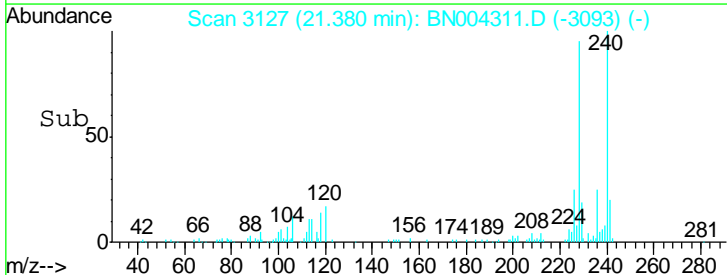


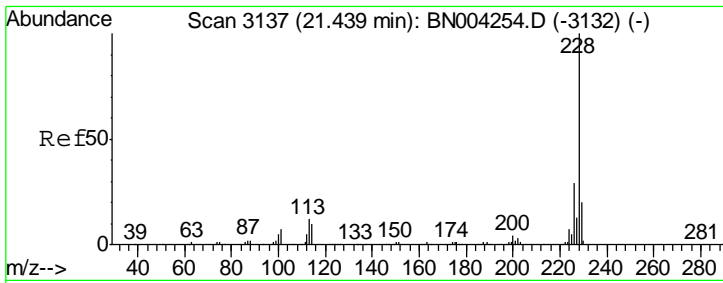
#82
 Benzo(a)anthracene
 Concen: 2.912 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. 0.00 min
 Lab File: BN004311.D
 Acq: 02 Jan 2019 15:10



Tgt Ion: 228 Resp: 42101

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100 | | |
| 229 | 20.5 | 15.9 | 23.9 |
| 226 | 26.1 | 21.4 | 32.2 |



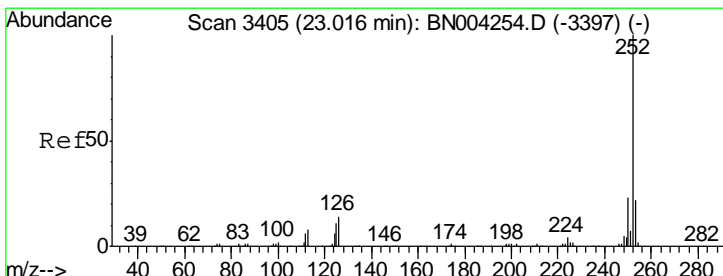
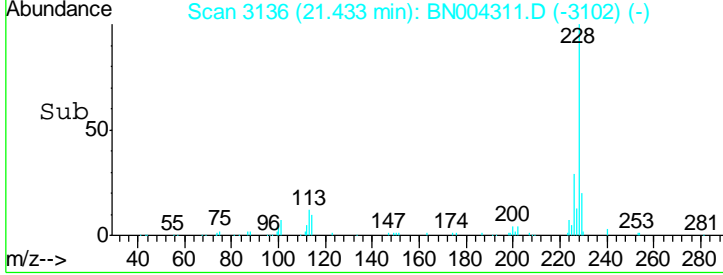
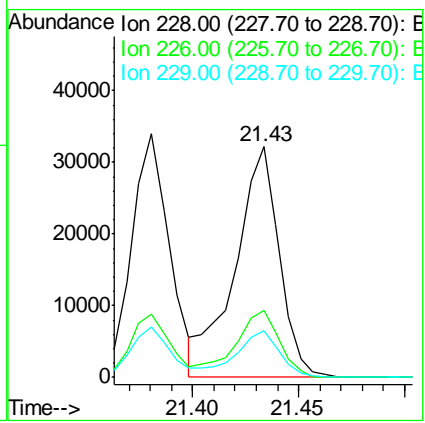
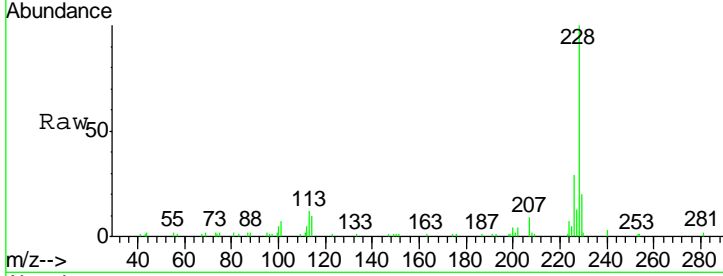


#84
 Chrysene
 Concen: 3.467 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. 0.00 min
 Lab File: BN004311.D
 Acq: 02 Jan 2019 15:10

Instrument :
 BNA_N
 ClientSampled :
 A41X2

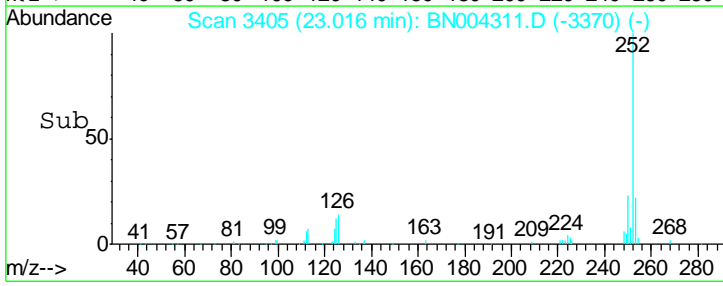
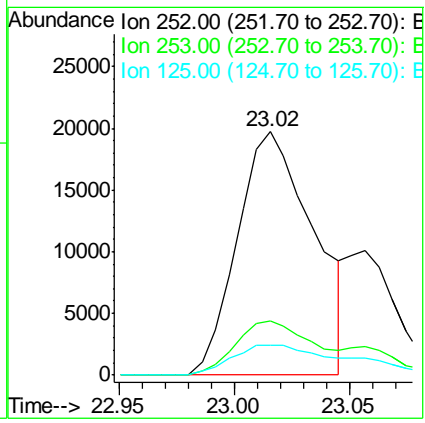
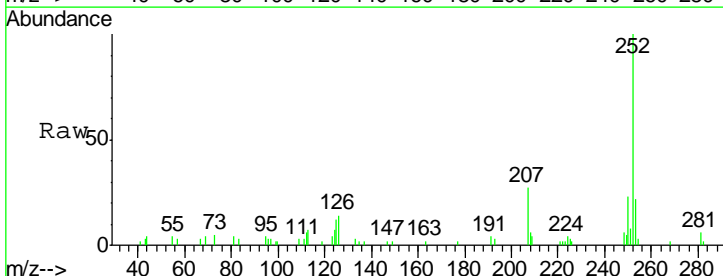
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 226 | 29.3 | 23.8 | 35.8 |
| 229 | 20.4 | 15.8 | 23.6 |

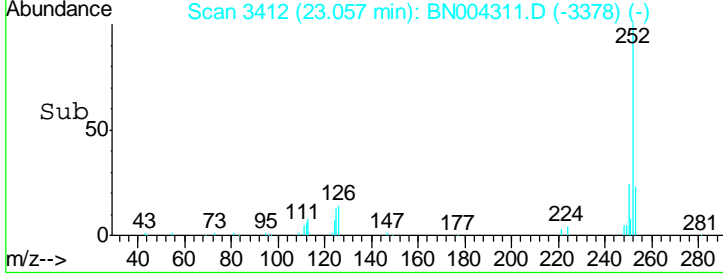
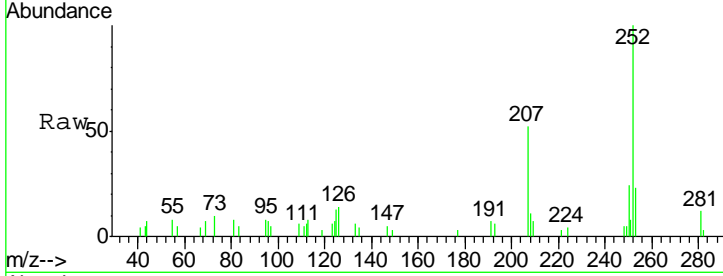
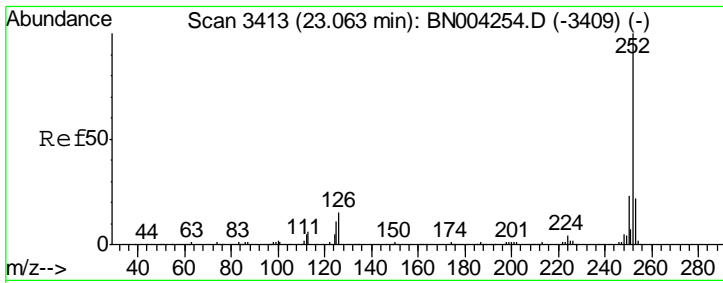
Manual Integrations
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 Sohil
 1/2/2019 4:47:39 PM



#87
 Benzo(b)fluoranthene
 Concen: 3.591 ng/ul
 RT: 23.02 min Scan# 3405
 Delta R.T. 0.01 min
 Lab File: BN004311.D
 Acq: 02 Jan 2019 15:10

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.4 | 17.3 | 25.9 |
| 125 | 12.5 | 8.2 | 12.4# |



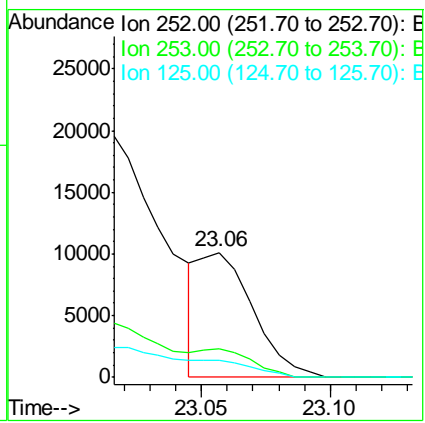


#88
 Benzo(k)fluoranthene
 Concen: 1.237 ng/ul m
 RT: 23.06 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: BN004311.D
 Acq: 02 Jan 2019 15:10

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 252 | 14601 | | |
| 253 | 22.7 | 17.1 | 25.7 |
| 125 | 13.4 | 7.9 | 11.9 |

Instrument :
 BNA_N
ClientSampled :
 A41X2

Manual Integrations
APPROVED
 Sohil
 1/2/2019 4:47:39 PM



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004311.D
 Acq On : 02 Jan 2019 15:10
 Operator : JU/SJ
 Sample : J6431-06
 Misc : GCMS Confirmation
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41X2

Manual Integrations
 APPROVED

Sohil
 1/2/2019 4:47:39 PM

Quant Time: Jan 02 16:28:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 33044 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.61 | 136 | 150040 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 99717 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 230285 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 231836 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 210488 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|--------------------------|-------|-----|--------|--------------|--------|
| 69) Phenanthrene | 17.25 | 178 | 83809 | 6.299 ng/ul | 100 |
| 76) Fluoranthene | 19.26 | 202 | 122313 | 7.500 ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 79975 | 6.175 ng/ul | 99 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 42101 | 2.912 ng/ul | 99 |
| 84) Chrysene | 21.43 | 228 | 46942 | 3.467 ng/ul | 99 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 45279 | 3.591 ng/ul# | 97 |
| 88) Benzo(k)fluoranthene | 23.06 | 252 | 14601m | 1.237 ng/ul | |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004311.D
 Acq On : 02 Jan 2019 15:10
 Operator : JU/SJ
 Sample : J6431-06
 Misc : GCMS Confirmation
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41X2

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.193 | 31 | 35 | 41 | rVB | 91622 | 99731 | 12.88% | 2.431% |
| 2 | 7.816 | 815 | 821 | 830 | rBB | 114456 | 173704 | 22.43% | 4.233% |
| 3 | 10.610 | 1290 | 1296 | 1303 | rBV | 172468 | 278750 | 36.00% | 6.794% |
| 4 | 14.457 | 1944 | 1950 | 1957 | rBV2 | 287636 | 438814 | 56.67% | 10.695% |
| 5 | 14.522 | 1957 | 1961 | 1966 | rVB | 7558 | 11687 | 1.51% | 0.285% |
| 6 | 15.510 | 2125 | 2129 | 2134 | rBB | 8210 | 10943 | 1.41% | 0.267% |
| 7 | 17.204 | 2411 | 2417 | 2421 | rBV | 369790 | 537608 | 69.43% | 13.102% |
| 8 | 17.245 | 2421 | 2424 | 2434 | rVV | 133142 | 189273 | 24.44% | 4.613% |
| 9 | 17.339 | 2436 | 2440 | 2448 | rVB | 12171 | 16444 | 2.12% | 0.401% |
| 10 | 18.081 | 2561 | 2566 | 2570 | rBV | 10154 | 13900 | 1.80% | 0.339% |
| 11 | 18.128 | 2570 | 2574 | 2579 | rVB | 13767 | 17818 | 2.30% | 0.434% |
| 12 | 18.281 | 2594 | 2600 | 2603 | rBV2 | 16725 | 29423 | 3.80% | 0.717% |
| 13 | 18.310 | 2603 | 2605 | 2610 | rVB | 6994 | 8547 | 1.10% | 0.208% |
| 14 | 18.581 | 2646 | 2651 | 2655 | rBV | 6789 | 8936 | 1.15% | 0.218% |
| 15 | 19.263 | 2762 | 2767 | 2775 | rBV | 193743 | 266644 | 34.44% | 6.499% |
| 16 | 19.598 | 2817 | 2824 | 2826 | rBV2 | 25263 | 39838 | 5.14% | 0.971% |
| 17 | 19.628 | 2826 | 2829 | 2835 | rVV | 130842 | 166728 | 21.53% | 4.063% |
| 18 | 19.810 | 2856 | 2860 | 2864 | rBV | 8124 | 10153 | 1.31% | 0.247% |
| 19 | 19.963 | 2880 | 2886 | 2892 | rBV2 | 8560 | 15037 | 1.94% | 0.366% |
| 20 | 20.104 | 2902 | 2910 | 2912 | rBV4 | 17305 | 31262 | 4.04% | 0.762% |
| 21 | 20.122 | 2912 | 2913 | 2918 | rVB | 19667 | 19324 | 2.50% | 0.471% |
| 22 | 20.228 | 2927 | 2931 | 2934 | rBV | 12409 | 15931 | 2.06% | 0.388% |
| 23 | 20.280 | 2934 | 2940 | 2943 | rVV2 | 4385 | 9936 | 1.28% | 0.242% |
| 24 | 20.380 | 2950 | 2957 | 2960 | rVB3 | 11331 | 15244 | 1.97% | 0.372% |
| 25 | 21.039 | 3066 | 3069 | 3072 | rBV | 10508 | 12656 | 1.63% | 0.308% |
| 26 | 21.075 | 3072 | 3075 | 3079 | rVV2 | 14056 | 18855 | 2.43% | 0.460% |
| 27 | 21.116 | 3079 | 3082 | 3086 | rVB | 12959 | 14475 | 1.87% | 0.353% |
| 28 | 21.398 | 3122 | 3130 | 3134 | rBV2 | 501240 | 774338 | 100.00% | 18.872% |
| 29 | 21.433 | 3134 | 3136 | 3144 | rVB | 81543 | 85182 | 11.00% | 2.076% |
| 30 | 21.951 | 3220 | 3224 | 3229 | rVB2 | 12851 | 20917 | 2.70% | 0.510% |
| 31 | 22.422 | 3300 | 3304 | 3308 | rVB2 | 10109 | 12849 | 1.66% | 0.313% |
| 32 | 22.933 | 3388 | 3391 | 3396 | rVB | 13549 | 18325 | 2.37% | 0.447% |
| 33 | 23.016 | 3399 | 3405 | 3410 | rBV | 47270 | 107045 | 13.82% | 2.609% |
| 34 | 23.516 | 3485 | 3490 | 3497 | rVB | 33642 | 57753 | 7.46% | 1.408% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004311.D
Acq On : 02 Jan 2019 15:10
Operator : JU/SJ
Sample : J6431-06
Misc : GCMS Confirmation
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41X2

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|--------|--------|---------|
| 35 | 23.716 | 3516 | 3524 | 3540 | rBV2 | 271668 | 555084 | 71.68% | 13.528% |
|----|--------|------|------|------|------|--------|--------|--------|---------|

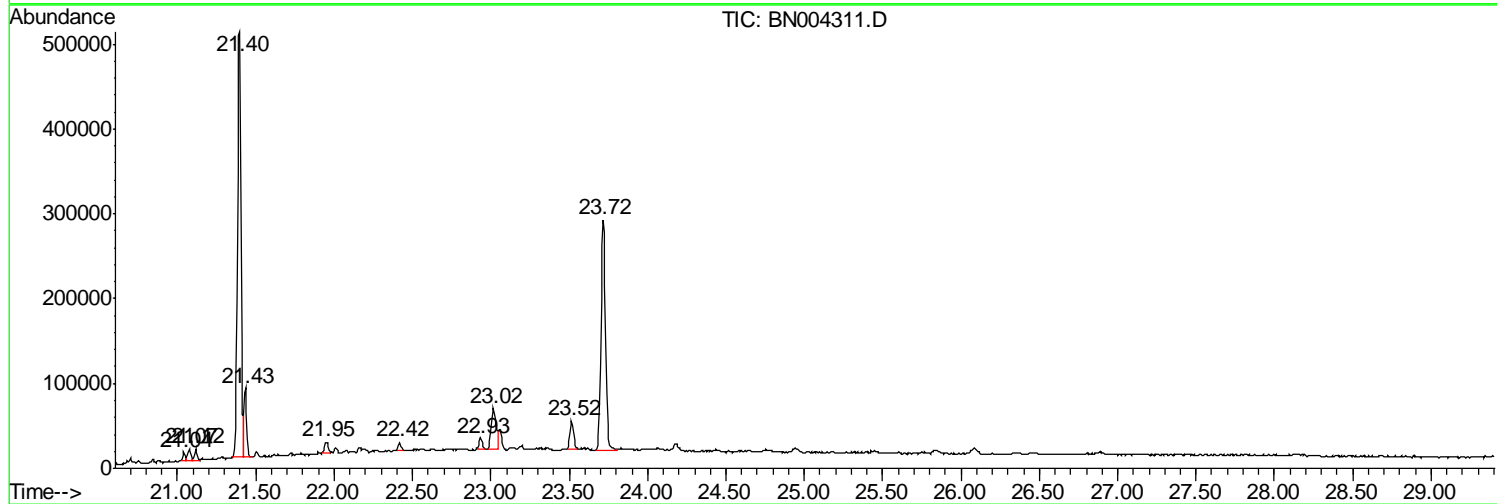
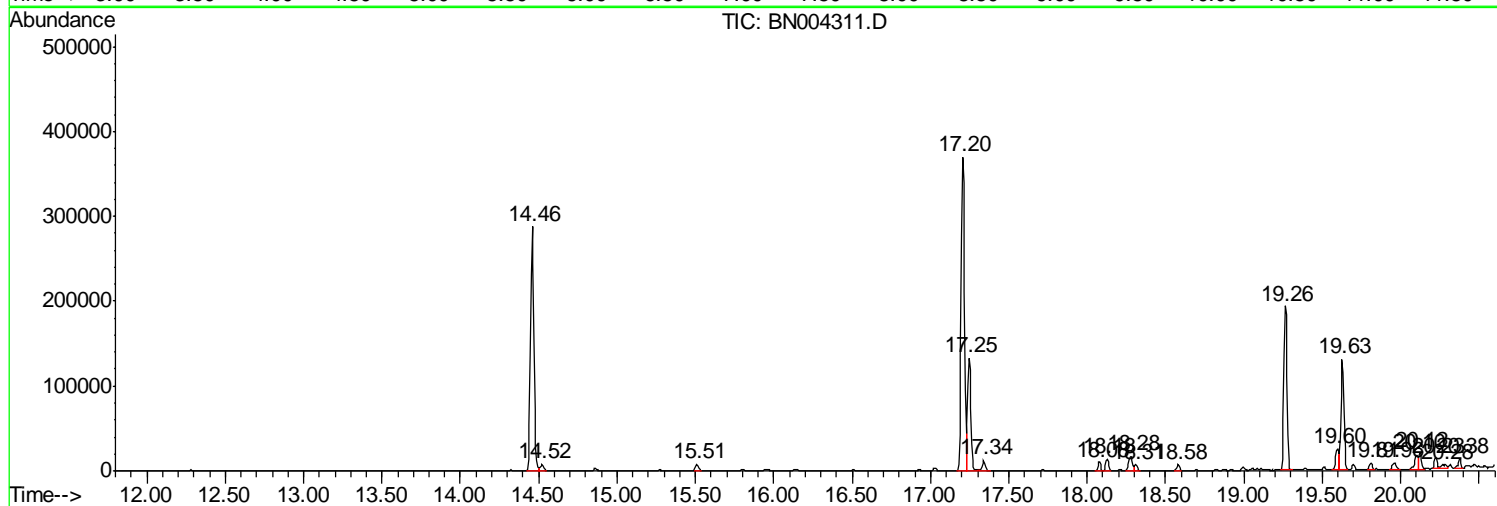
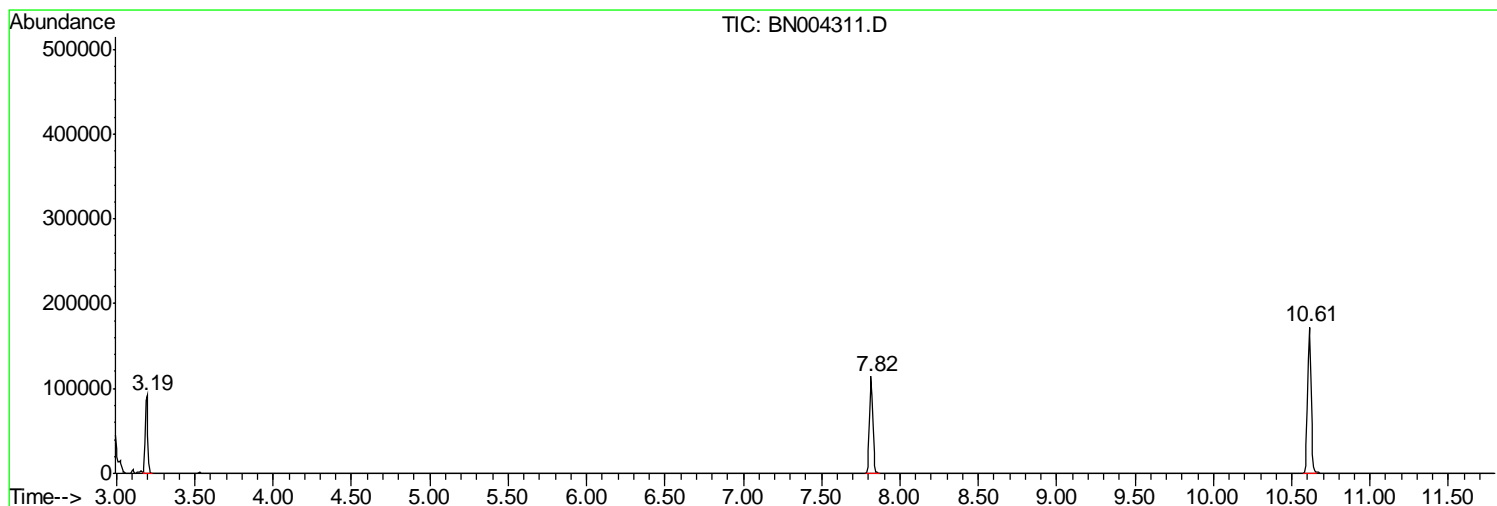
Sum of corrected areas: 4103154

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004311.D
 Acq On : 02 Jan 2019 15:10
 Operator : JU/SJ
 Sample : J6431-06
 Misc : GCMS Confirmation
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41X2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004311.D
 Acq On : 02 Jan 2019 15:10
 Operator : JU/SJ
 Sample : J6431-06
 Misc : GCMS Confirmation
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41X2

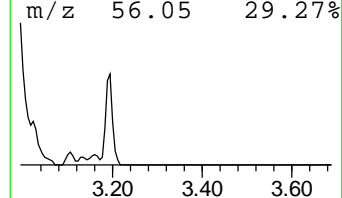
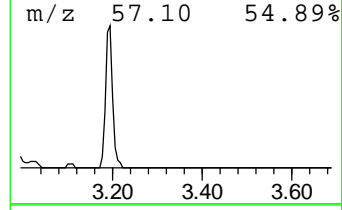
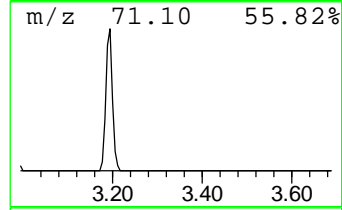
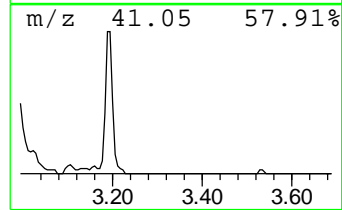
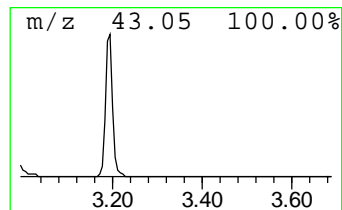
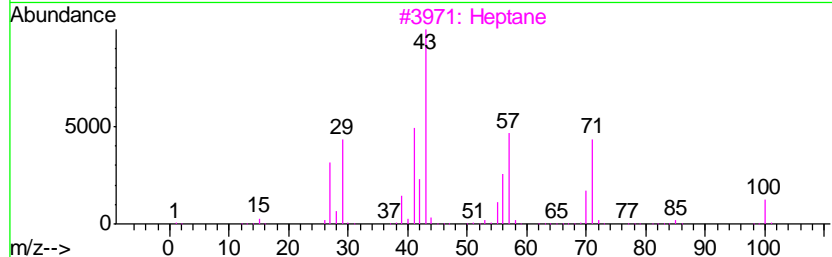
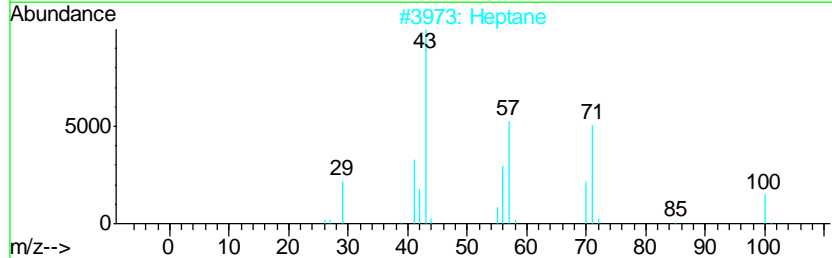
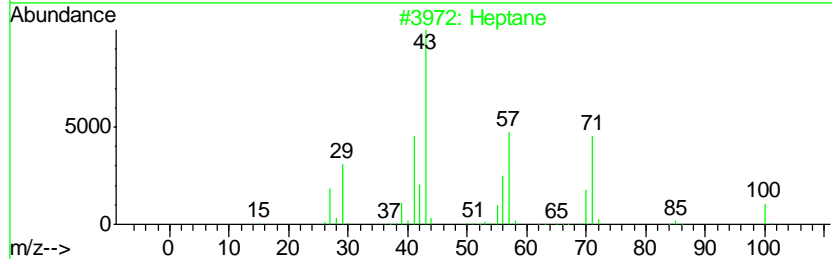
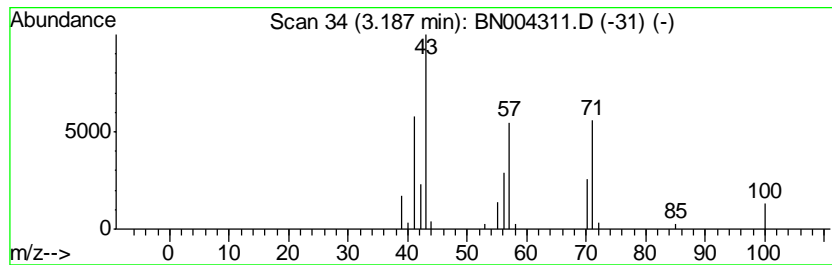
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 11.48 ng/ul | 99731 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 90 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004311.D
Acq On : 02 Jan 2019 15:10
Operator : JU/SJ
Sample : J6431-06
Misc : GCMS Confirmation
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41X2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|------|---------|-------|----------|-----------------------|------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 11.5 | ng/ul | 99731 | 1 | 7.82 | 173704 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X2DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-06DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034988.D
 % Solids : 74.4 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 2.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 88 | U |
| 11104-28-2 | Aroclor-1221 | 88 | U |
| 11141-16-5 | Aroclor-1232 | 88 | U |
| 53469-21-9 | Aroclor-1242 | 88 | U |
| 12672-29-6 | Aroclor-1248 | 88 | U |
| 11097-69-1 | Aroclor-1254 | 88 | U |
| 11096-82-5 | Aroclor-1260 | 5700 | ED |
| 37324-23-5 | Aroclor-1262 | 88 | U |
| 11100-14-4 | Aroclor-1268 | 88 | U |

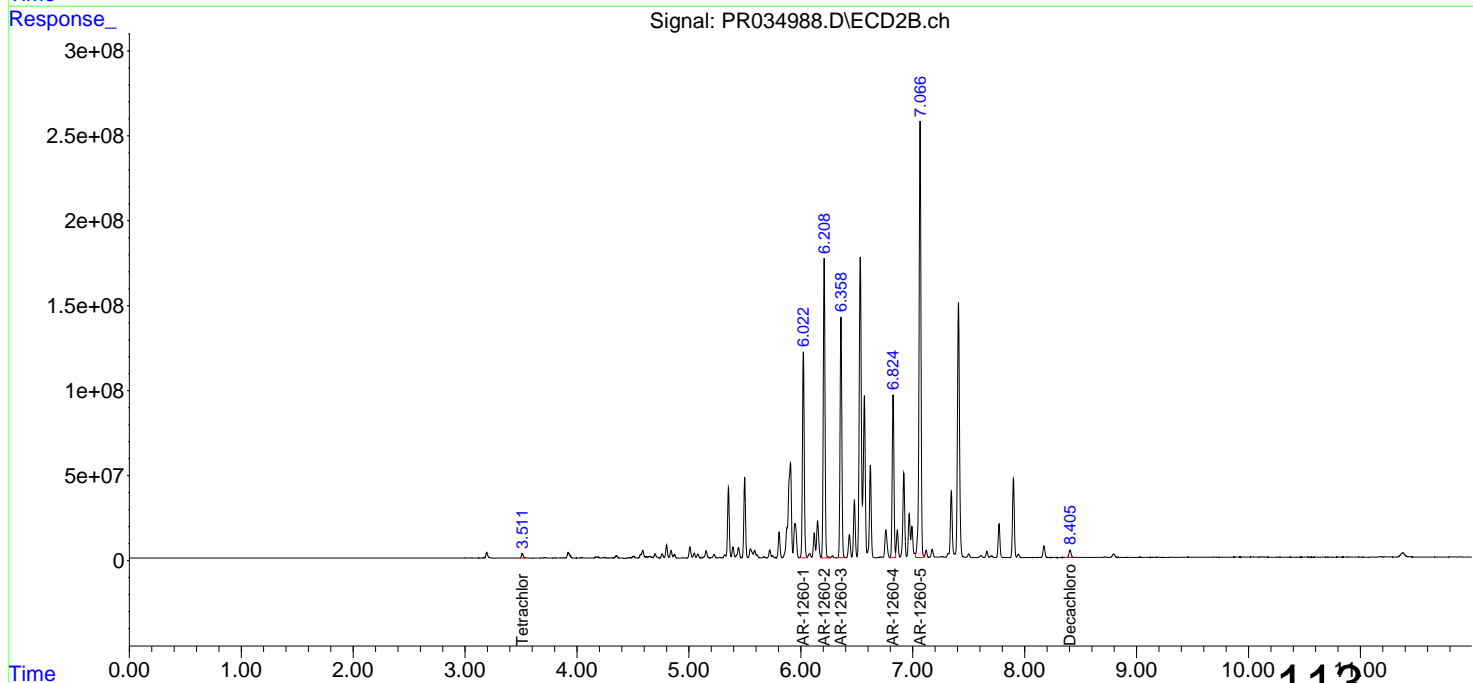
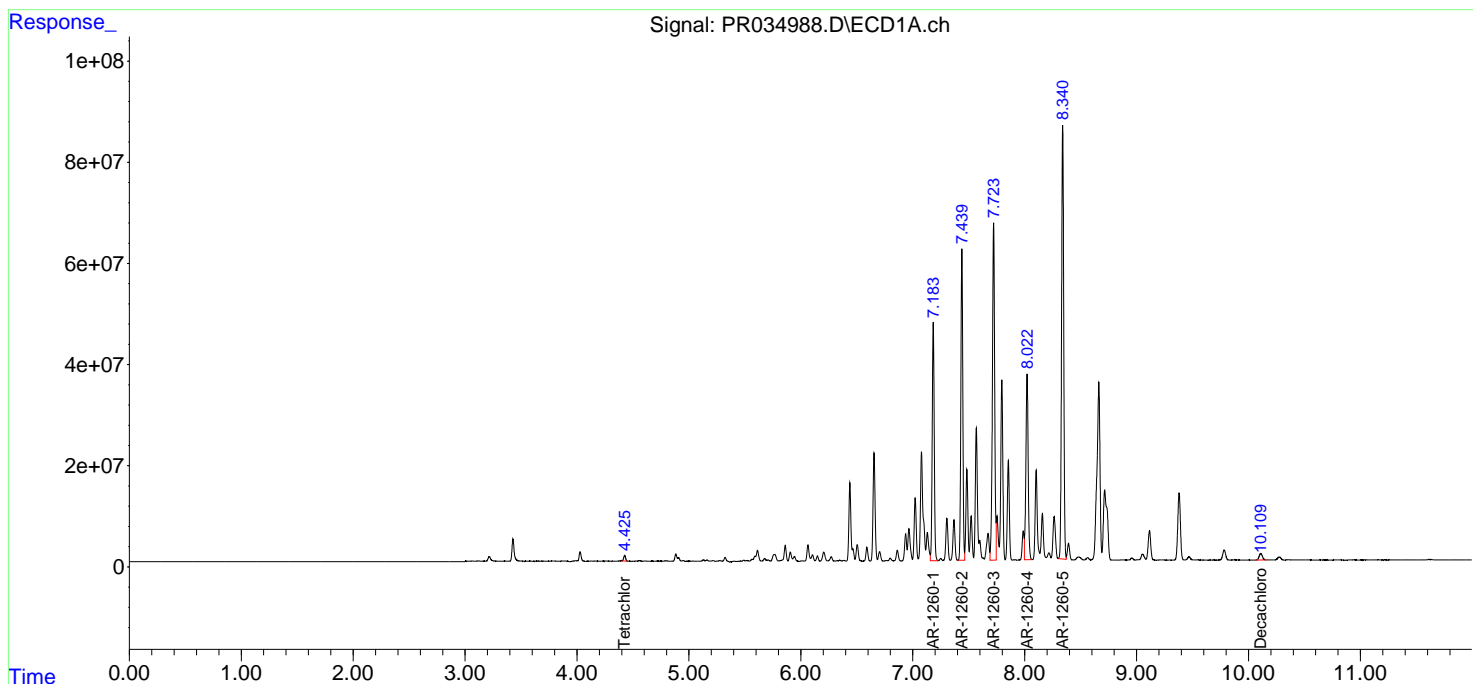
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034988.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:17
 Operator : SM\SJ
 Sample : J6431-06DL 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X2DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:16 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:55:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034988.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:17
 Operator : SM\SJ
 Sample : J6431-06DL 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41X2DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:16 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:55:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 13413857 | 28220208 | 6.896m | 8.095m |
| 2) SA Decachlor... | 10.110 | 8.406 | 26052042 | 55142798 | 13.252 | 12.542 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.023 | 588.0E6 | 1352.5E6 | 6255.308 | 6291.404 |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 743.5E6 | 1904.8E6 | 6403.504 | 6999.864 |
| 33) L7 AR-1260-3 | 7.723 | 6.359 | 942.0E6 | 1554.3E6 | 6749.719 | 6261.386 |
| 34) L7 AR-1260-4 | 8.022 | 6.825 | 520.2E6 | 1045.4E6 | 6022.953 | 6113.580 |
| 35) L7 AR-1260-5 | 8.340 | 7.066 | 1150.5E6 | 3038.0E6 | 6372.260 | 6281.484 |
| ----- | | | | | | |

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

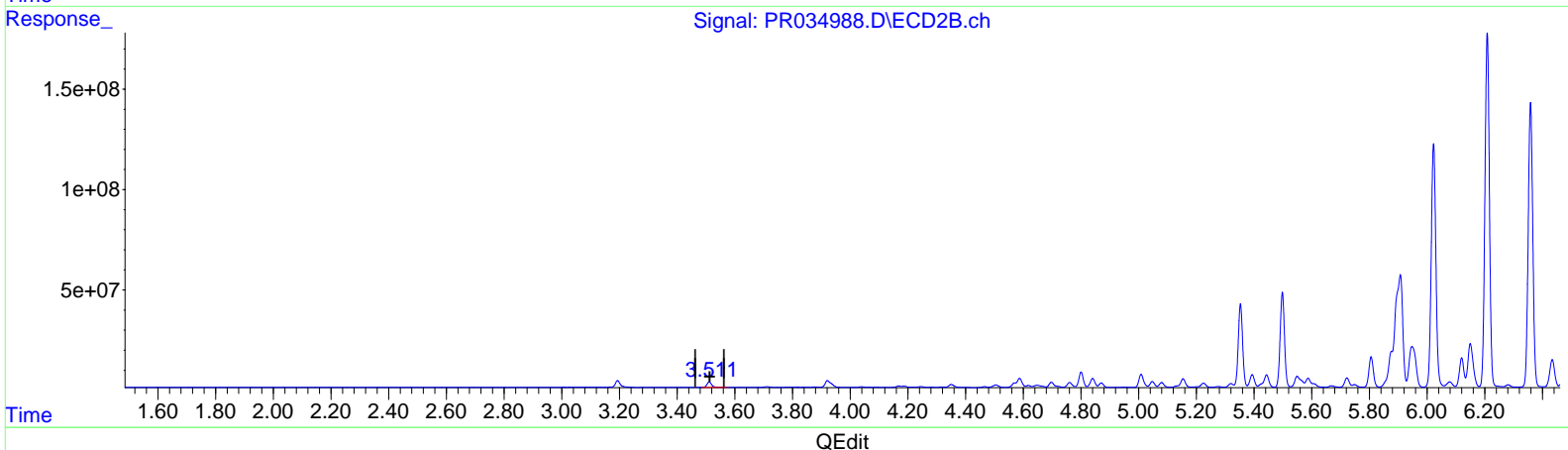
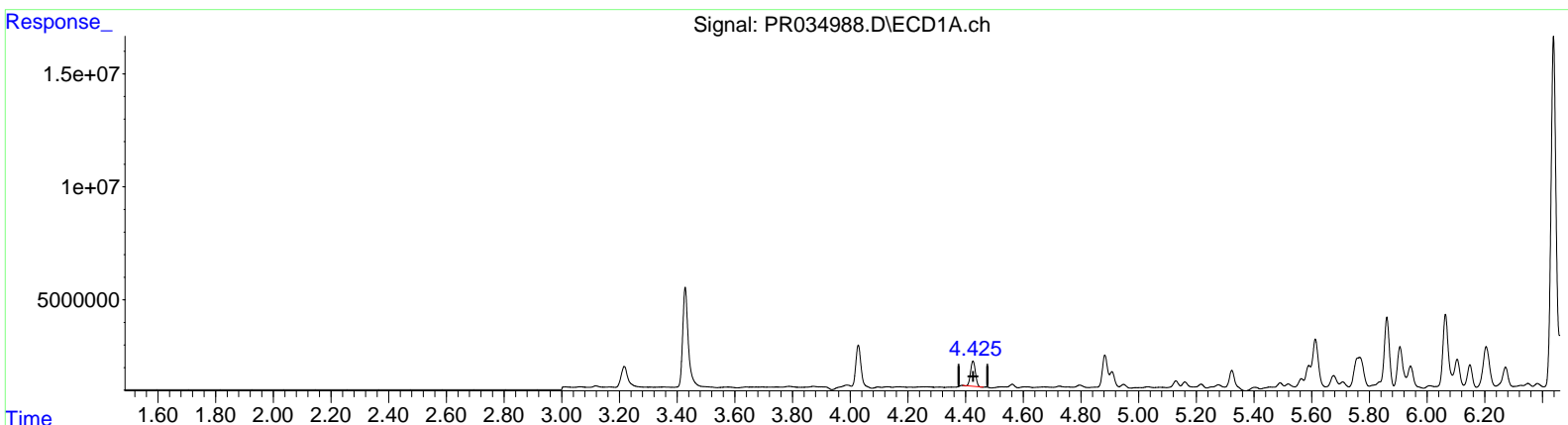
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034988.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:17
 Operator : SM\SJ
 Sample : J6431-06DL 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X2DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:16 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:55:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 6.680 ng/ml
 response 12992527

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 8.846 ng/ml
 response 30837527

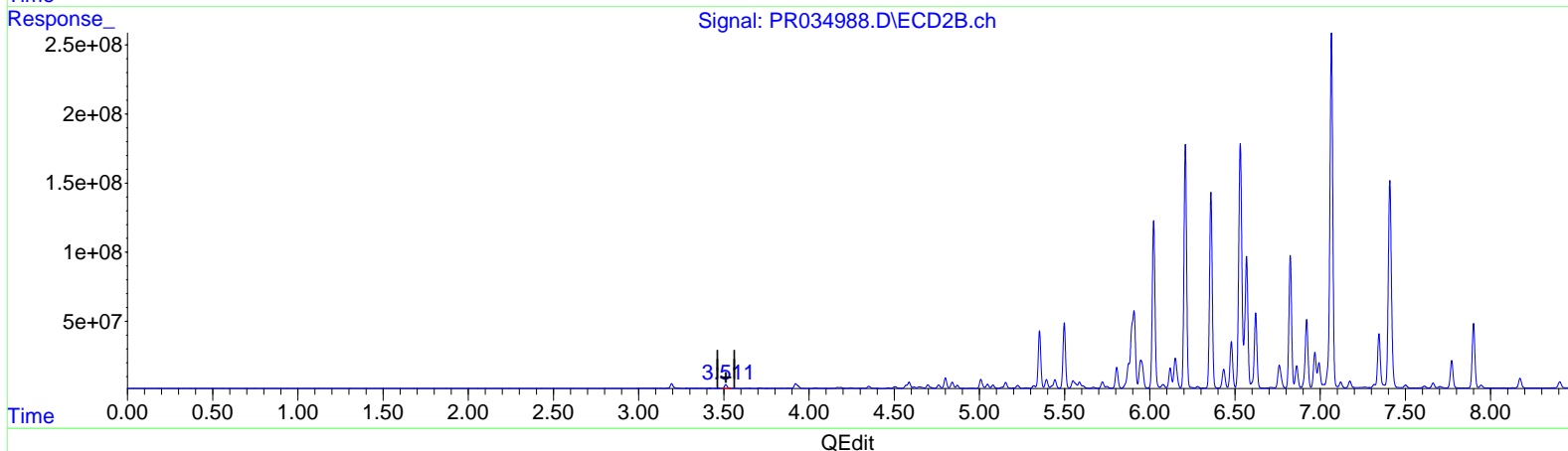
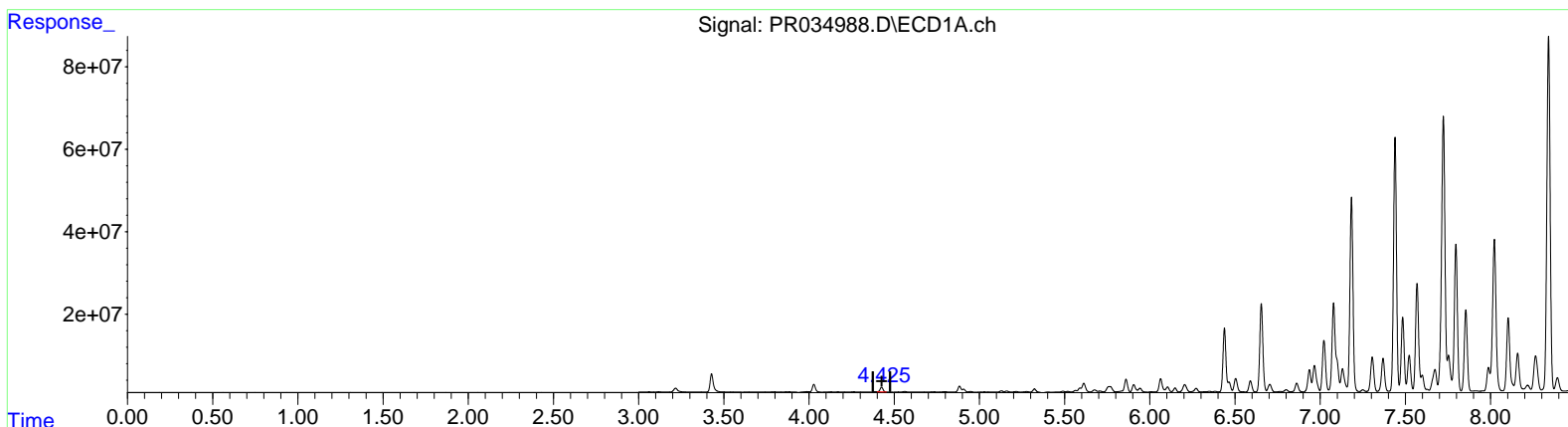
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034988.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:17
 Operator : SM\SJ
 Sample : J6431-06DL 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X2DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:16 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:55:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.425min 6.896 ng/ml m
 response 13413857

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 8.095 ng/ml m
 response 28220208

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034988.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:17
 Operator : SM\SJ
 Sample : J6431-06DL 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X2DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:55:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:16 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 13413857 | 28220208 | 6.896m | 8.095m |
| 2) SA Decachlor... | 10.110 | 8.406 | 26052042 | 55142798 | 13.252 | 12.542 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.023 | 588.0E6 | 1352.5E6 | 6255.308 | 6291.404 |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 743.5E6 | 1904.8E6 | 6403.504 | 6999.864 |
| 33) L7 AR-1260-3 | 7.723 | 6.359 | 942.0E6 | 1554.3E6 | 6749.719 | 6261.386 |
| 34) L7 AR-1260-4 | 8.022 | 6.825 | 520.2E6 | 1045.4E6 | 6022.953 | 6113.580 |
| 35) L7 AR-1260-5 | 8.340 | 7.066 | 1150.5E6 | 3038.0E6 | 6372.260 | 6281.484 |
| ----- | | | | | | |

> SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X2DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-06DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034989.D
 % Solids : 74.4 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 20.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

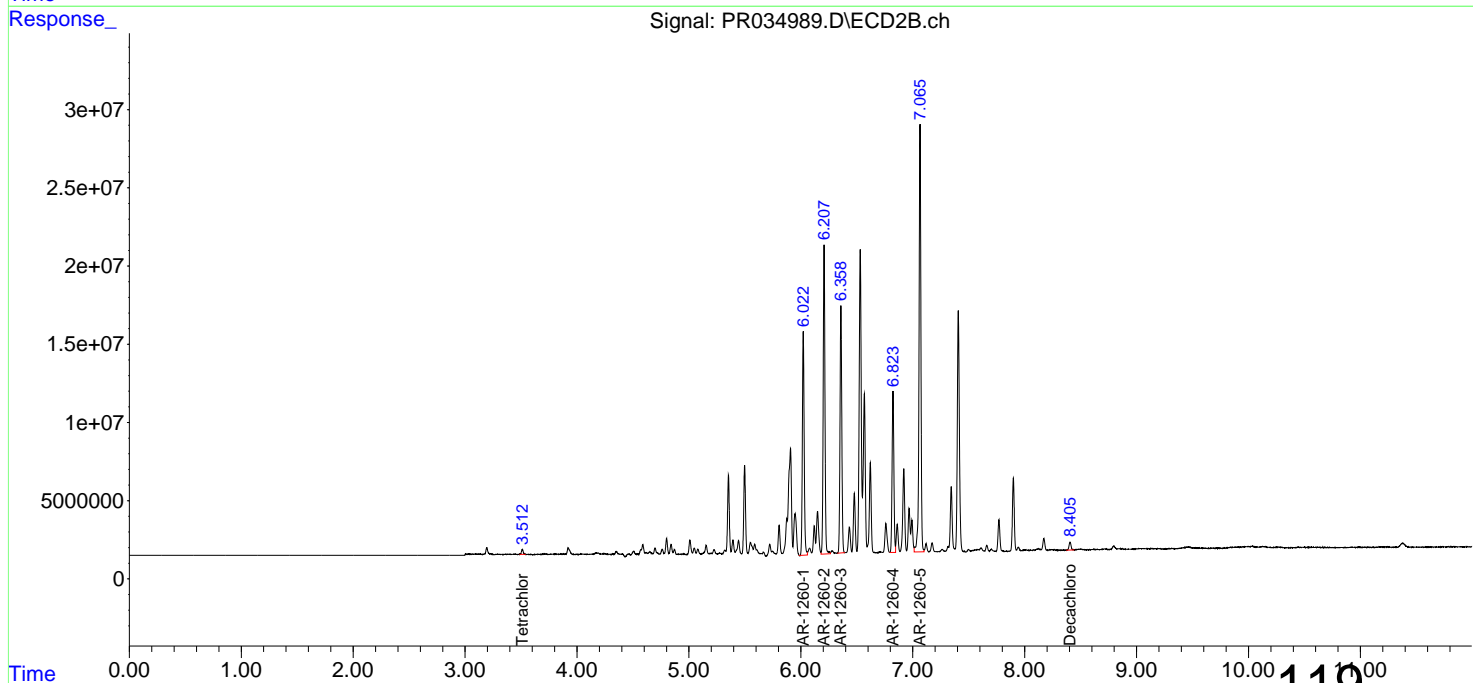
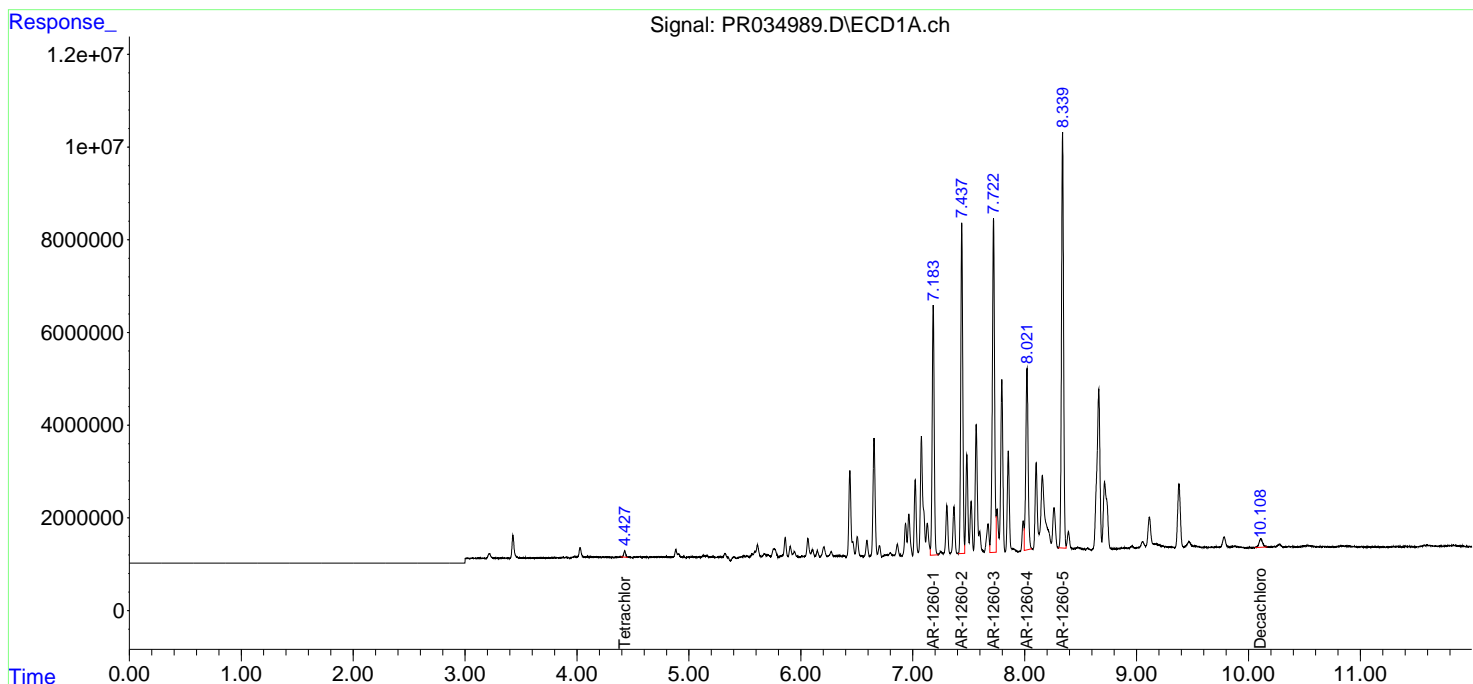
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 880 | U |
| 11104-28-2 | Aroclor-1221 | 880 | U |
| 11141-16-5 | Aroclor-1232 | 880 | U |
| 53469-21-9 | Aroclor-1242 | 880 | U |
| 12672-29-6 | Aroclor-1248 | 880 | U |
| 11097-69-1 | Aroclor-1254 | 880 | U |
| 11096-82-5 | Aroclor-1260 | 6300 | D |
| 37324-23-5 | Aroclor-1262 | 880 | U |
| 11100-14-4 | Aroclor-1268 | 880 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034989.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:32
 Operator : SM\SJ
 Sample : J6431-06DL2 20X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X2DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:58:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034989.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:32
 Operator : SM\SJ
 Sample : J6431-06DL2 20X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41X2DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:58:16 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 1589258 | 3449512 | 0.817 | 0.990 |
| 2) SA Decachlor... | 10.109 | 8.406 | 4189258 | 6336228 | 2.131 | 1.441 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.022 | 68405257 | 160.8E6 | 727.654 | 747.834 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 88480211 | 216.0E6 | 762.096 | 793.828 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 100.8E6 | 175.2E6 | 722.608 | 705.697 |
| 34) L7 AR-1260-4 | 8.021 | 6.824 | 56696876 | 113.3E6 | 656.491 | 662.567 |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 117.1E6 | 317.6E6 | 648.529 | 656.750 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X3

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-07
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034935.D
 % Solids : 64.7 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 51 | U |
| 11104-28-2 | Aroclor-1221 | 51 | U |
| 11141-16-5 | Aroclor-1232 | 51 | U |
| 53469-21-9 | Aroclor-1242 | 51 | U |
| 12672-29-6 | Aroclor-1248 | 51 | U |
| 11097-69-1 | Aroclor-1254 | 51 | U |
| 11096-82-5 | Aroclor-1260 | 19 | J |
| 37324-23-5 | Aroclor-1262 | 51 | U |
| 11100-14-4 | Aroclor-1268 | 51 | U |

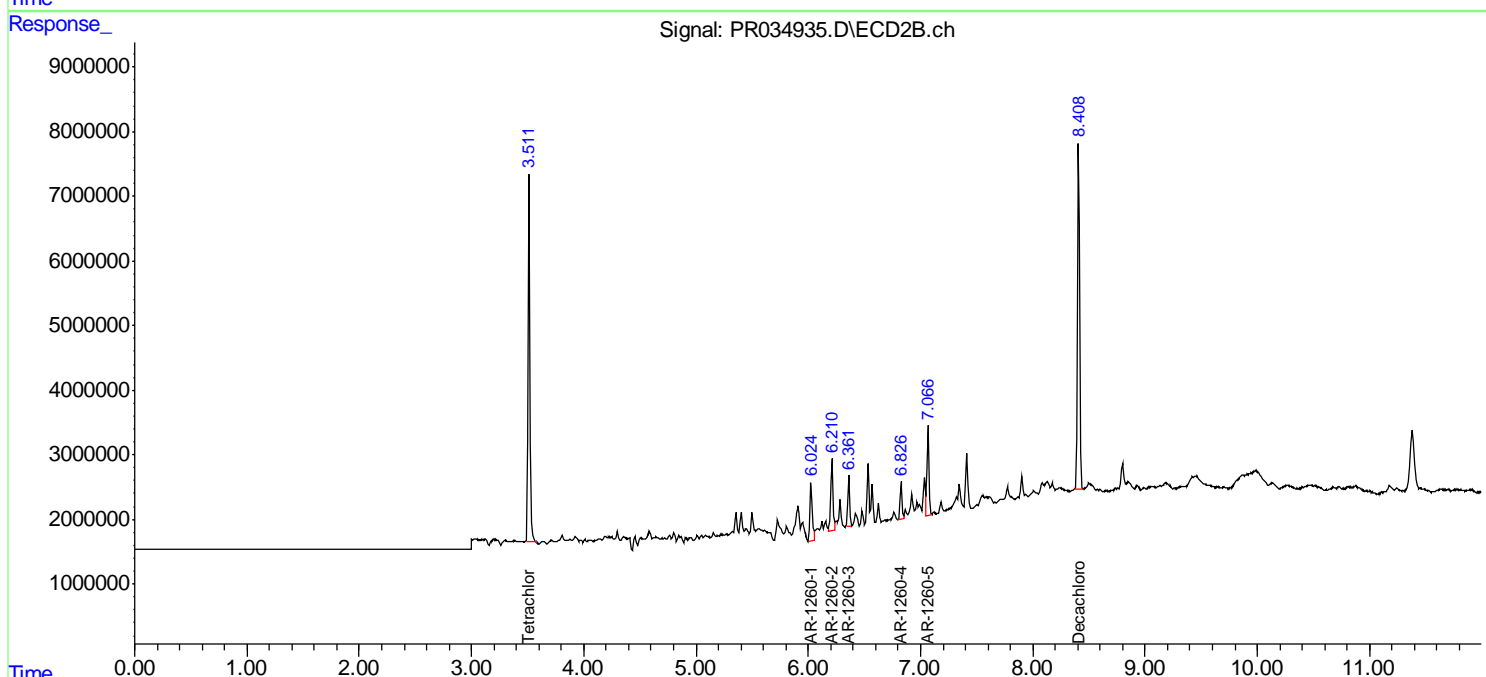
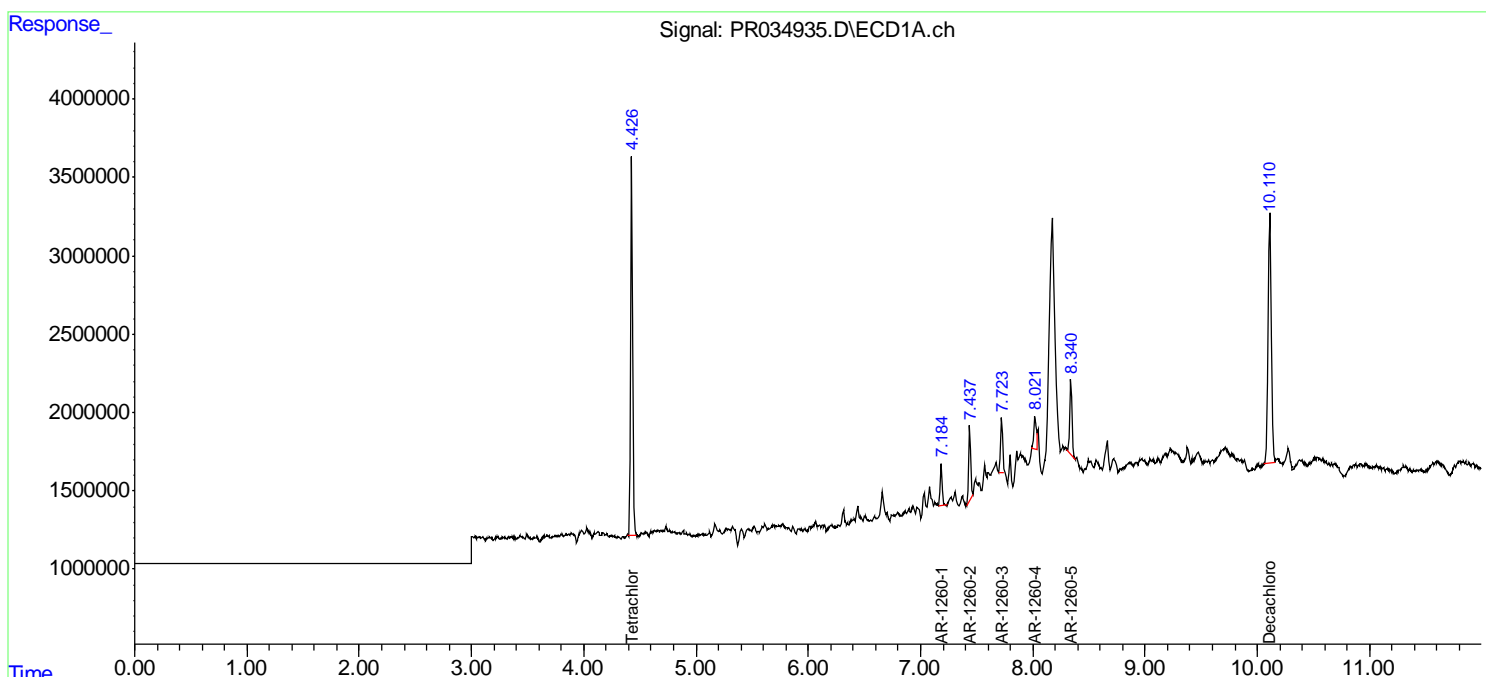
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 Data File : PR034935.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:02
 Operator : SM\SJ
 Sample : J6431-07
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X3

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:54 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034935.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:02
 Operator : SM\SJ
 Sample : J6431-07
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41X3

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:54 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 29572804 | 64060288 | 15.204 | 18.376 |
| 2) SA Decachlor... | 10.110 | 8.408 | 31734321 | 68725170 | 16.142 | 15.631 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.184 | 6.024 | 3201966 | 12924681 | 34.061 | 60.123m# |
| 32) L7 AR-1260-2 | 7.438 | 6.210 | 5795259 | 15129915 | 49.916 | 55.600 |
| 33) L7 AR-1260-3 | 7.723 | 6.360 | 4672660 | 8798591 | 33.482m | 35.444 |
| 34) L7 AR-1260-4 | 8.021 | 6.826 | 2997978 | 6553997 | 34.713m | 38.330 |
| 35) L7 AR-1260-5 | 8.340 | 7.066 | 6548174 | 16267431 | 36.267 | 33.635 |
| ----- | | | | | | |

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

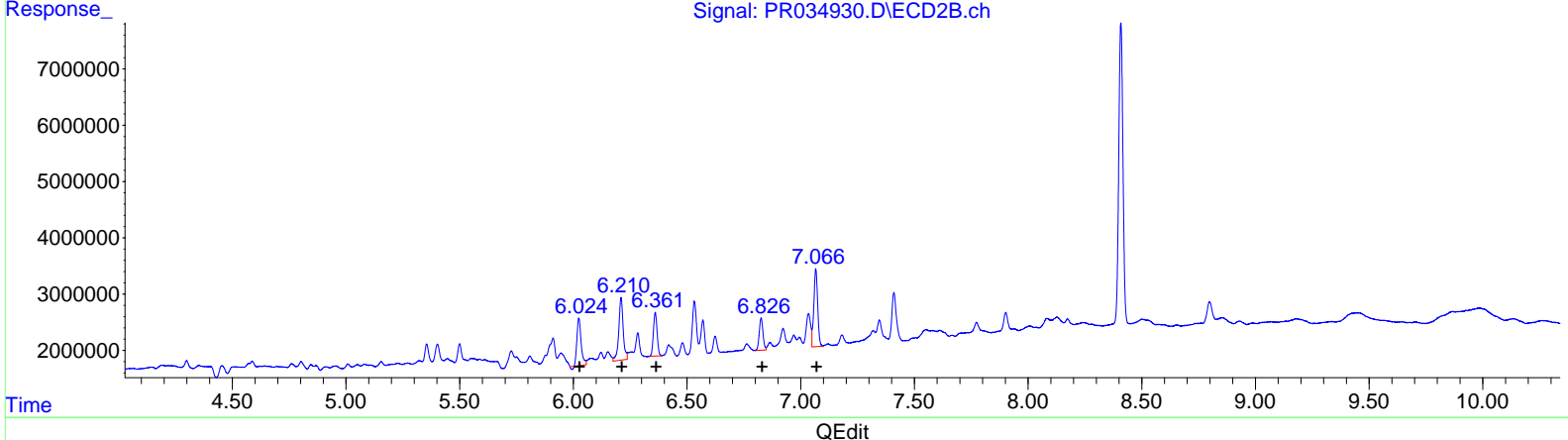
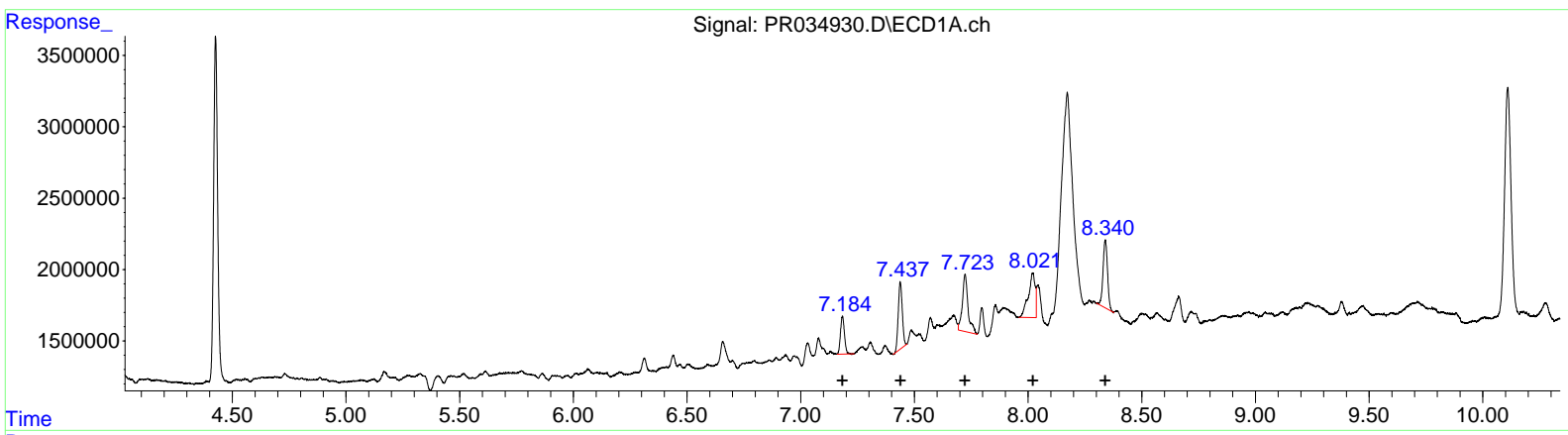
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034935.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:02
 Operator : SM\SJ
 Sample : J6431-07
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X3

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:54 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|----------|-------|
| R.T. | Response | Conc |
| 7.18 | 3201966 | 34.06 |
| 7.44 | 5795259 | 49.92 |
| 7.72 | 6993648 | 50.11 |
| 8.02 | 6542270 | 75.75 |
| 8.34 | 6548174 | 36.27 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|----------|-------|
| R.T. | Response | Conc |
| 6.02 | 10615355 | 49.38 |
| 6.21 | 15129915 | 55.60 |
| 6.36 | 8798591 | 35.44 |
| 6.83 | 6553997 | 38.33 |
| 7.07 | 16267431 | 33.64 |

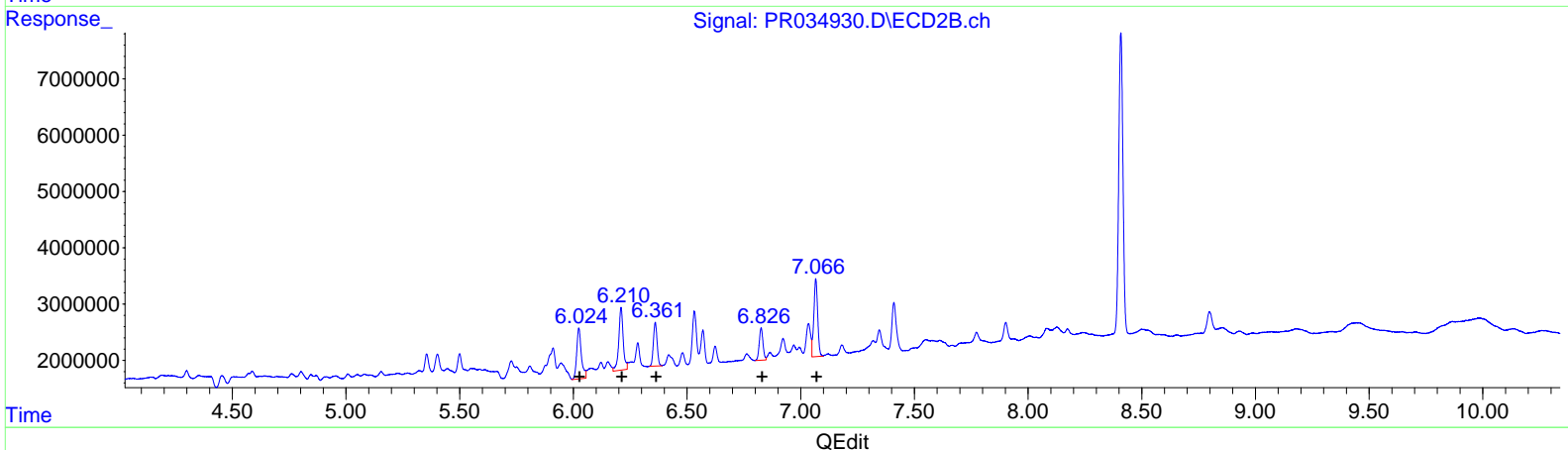
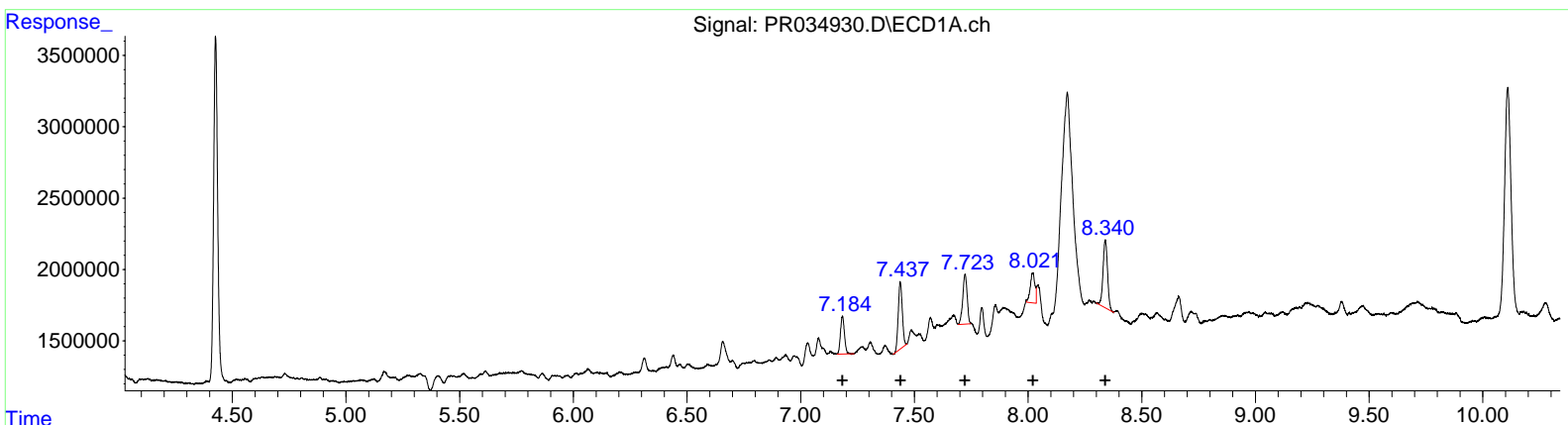
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 Data File : PR034935.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:02
 Operator : SM\SJ
 Sample : J6431-07
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X3

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:54 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|----------|-------|
| R.T. | Response | Conc |
| 7.18 | 3201966 | 34.06 |
| 7.44 | 5795259 | 49.92 |
| 7.72 | 4672660 | 33.48 |
| 8.02 | 2997978 | 34.71 |
| 8.34 | 6548174 | 36.27 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|----------|-------|
| R.T. | Response | Conc |
| 6.02 | 12924681 | 60.12 |
| 6.21 | 15129915 | 55.60 |
| 6.36 | 8798591 | 35.44 |
| 6.83 | 6553997 | 38.33 |
| 7.07 | 16267431 | 33.64 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034935.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:02
 Operator : SM\SJ
 Sample : J6431-07
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X3

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:54 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 29572804 | 64060288 | 15.204 | 18.376 |
| 2) SA Decachlor... | 10.110 | 8.408 | 31734321 | 68725170 | 16.142 | 15.631 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.184 | 6.024 | 3201966 | 12924681 | 34.061 | 60.123m# |
| 32) L7 AR-1260-2 | 7.438 | 6.210 | 5795259 | 15129915 | 49.916 | 55.600 |
| 33) L7 AR-1260-3 | 7.723 | 6.360 | 4672660 | 8798591 | 33.482m | 35.444 |
| 34) L7 AR-1260-4 | 8.021 | 6.826 | 2997978 | 6553997 | 34.713m | 38.330 |
| 35) L7 AR-1260-5 | 8.340 | 7.066 | 6548174 | 16267431 | 36.267 | 33.635 |

} SJ
 12/26/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X4

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-08
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034936.D
 % Solids : 66.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 50 | U |
| 11104-28-2 | Aroclor-1221 | 50 | U |
| 11141-16-5 | Aroclor-1232 | 50 | U |
| 53469-21-9 | Aroclor-1242 | 50 | U |
| 12672-29-6 | Aroclor-1248 | 50 | U |
| 11097-69-1 | Aroclor-1254 | 50 | U |
| 11096-82-5 | Aroclor-1260 | 11 | J |
| 37324-23-5 | Aroclor-1262 | 50 | U |
| 11100-14-4 | Aroclor-1268 | 50 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034936.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:17
 Operator : SM\SJ
 Sample : J6431-08
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

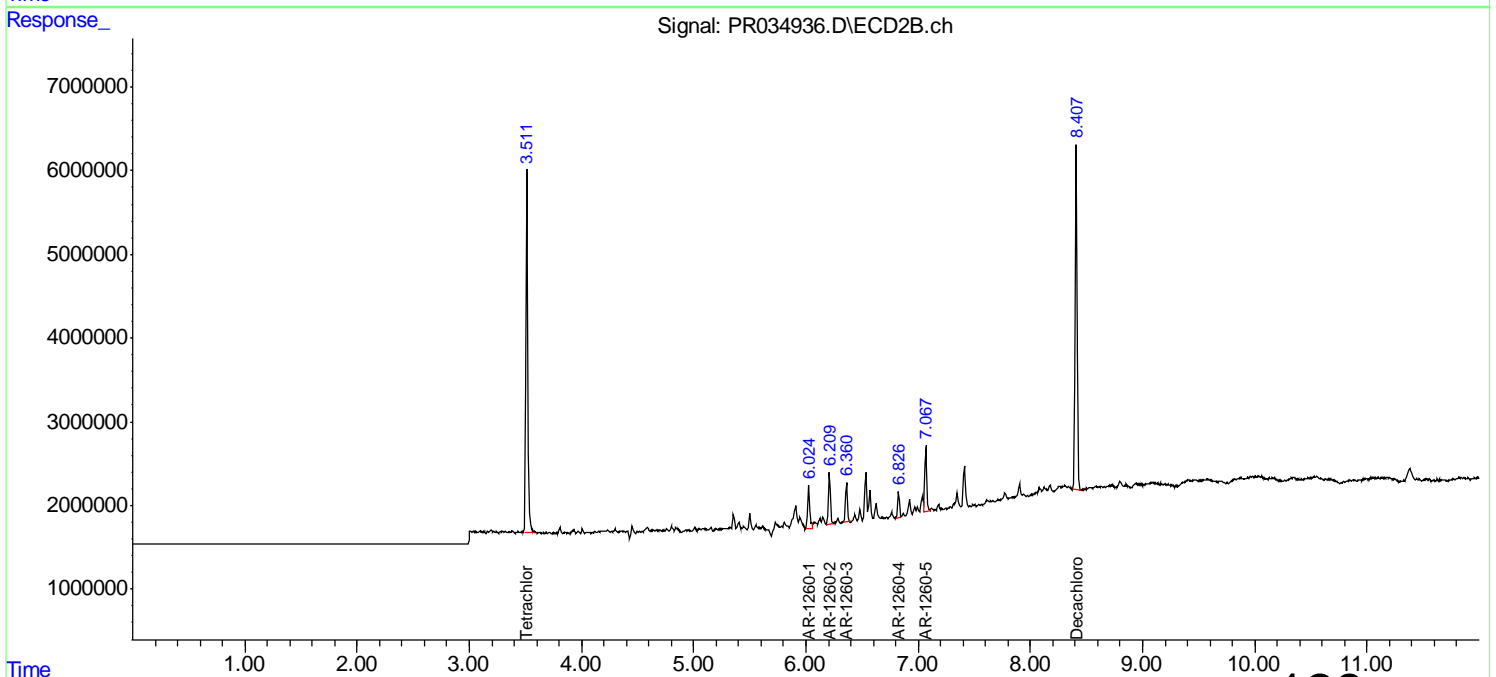
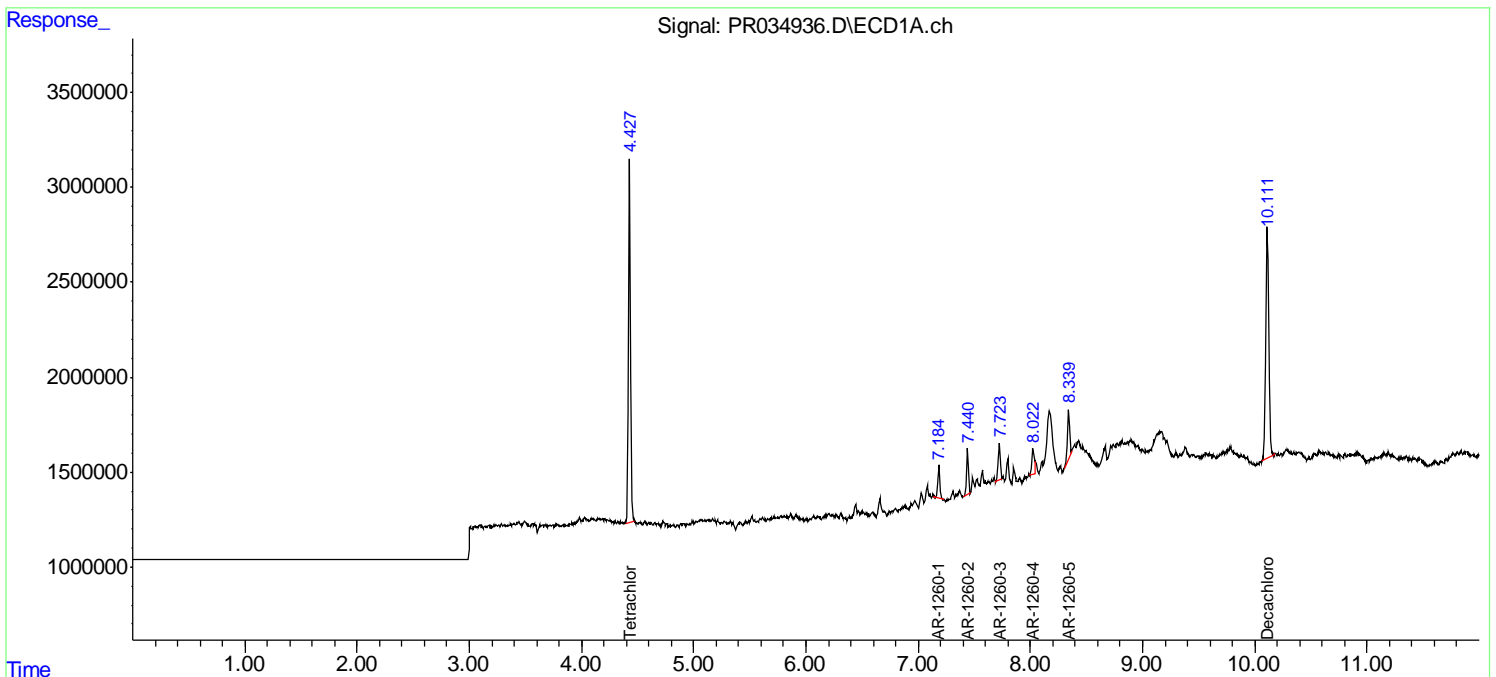
Instrument :
 ECD_R
 ClientSampled :
 A41X4

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034936.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:17
 Operator : SM\SJ
 Sample : J6431-08
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41X4

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 24141792 | 49698419 | 12.412 | 14.256 |
| 2) SA Decachlor... | 10.112 | 8.408 | 22976749 | 51288681 | 11.688 | 11.665 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.185 | 6.024 | 2041336 | 6935976 | 21.714 | 32.265m# |
| 32) L7 AR-1260-2 | 7.440 | 6.210 | 2762173 | 7512051 | 23.791 | 27.605 |
| 33) L7 AR-1260-3 | 7.724 | 6.361 | 2676210 | 5412194 | 19.177 | 21.803 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 1927936 | 3443268 | 22.323m | 20.137 |
| 35) L7 AR-1260-5 | 8.341 | 7.067 | 3435385 | 9553178 | 19.027 | 19.752 |
| ----- | | | | | | |

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

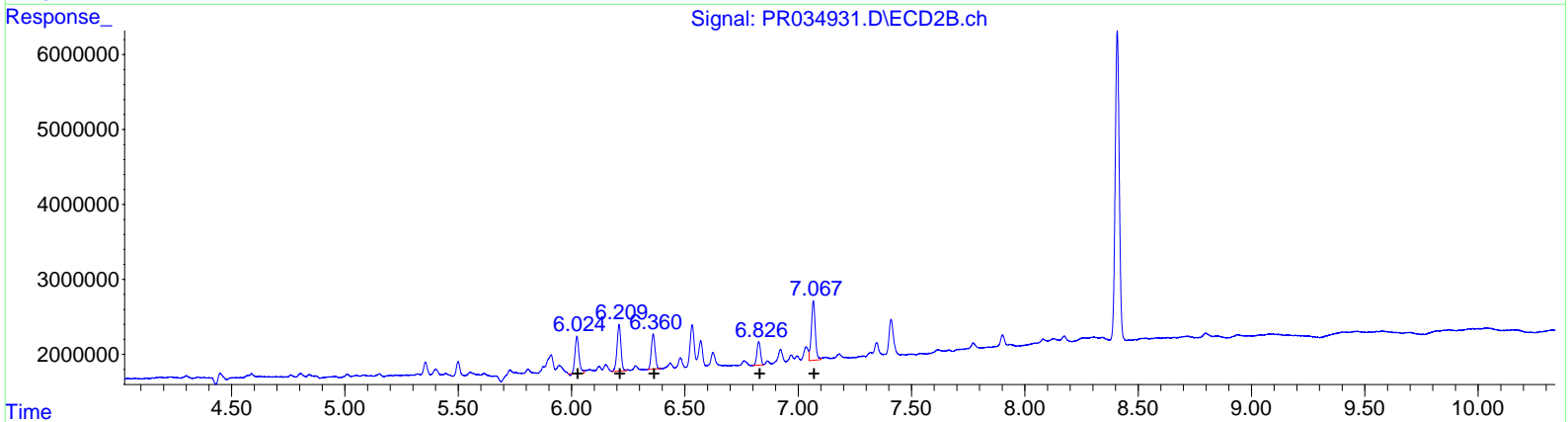
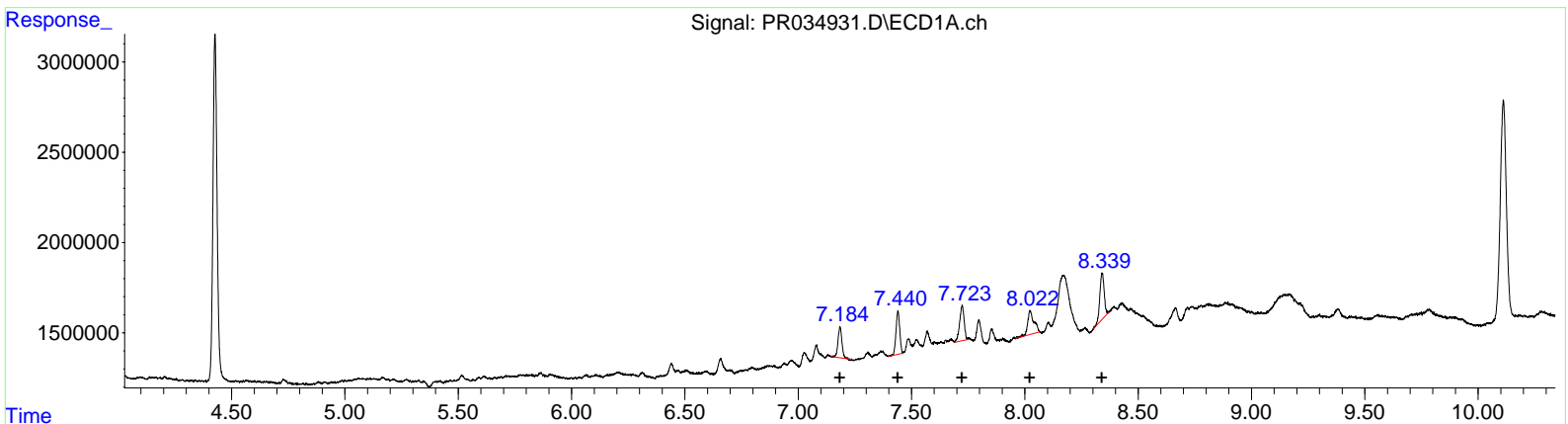
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034936.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:17
 Operator : SM\SJ
 Sample : J6431-08
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X4

Manual Integrations
APPROVED
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 12/21/2018 6:11:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|------------------------|----------|-------|
| R.T. | Response | Conc |
| 7.18 | 2041336 | 21.71 |
| 7.44 | 2762173 | 23.79 |
| 7.72 | 2676210 | 19.18 |
| 8.02 | 2501839 | 28.97 |
| 8.34 | 3435385 | 19.03 |
| (31) AR-1260-1 #2 (L7) | | |
| R.T. | Response | Conc |
| 6.02 | 5987074 | 27.85 |
| 6.21 | 7512051 | 27.61 |
| 6.36 | 5412194 | 21.80 |
| 6.83 | 3443268 | 20.14 |
| 7.07 | 9553178 | 19.75 |

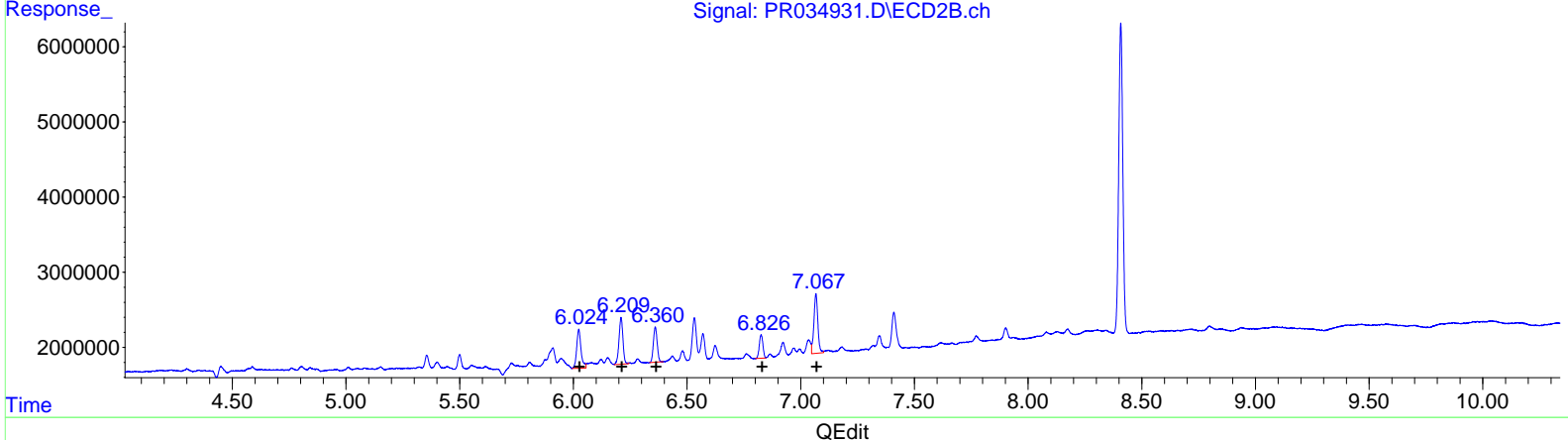
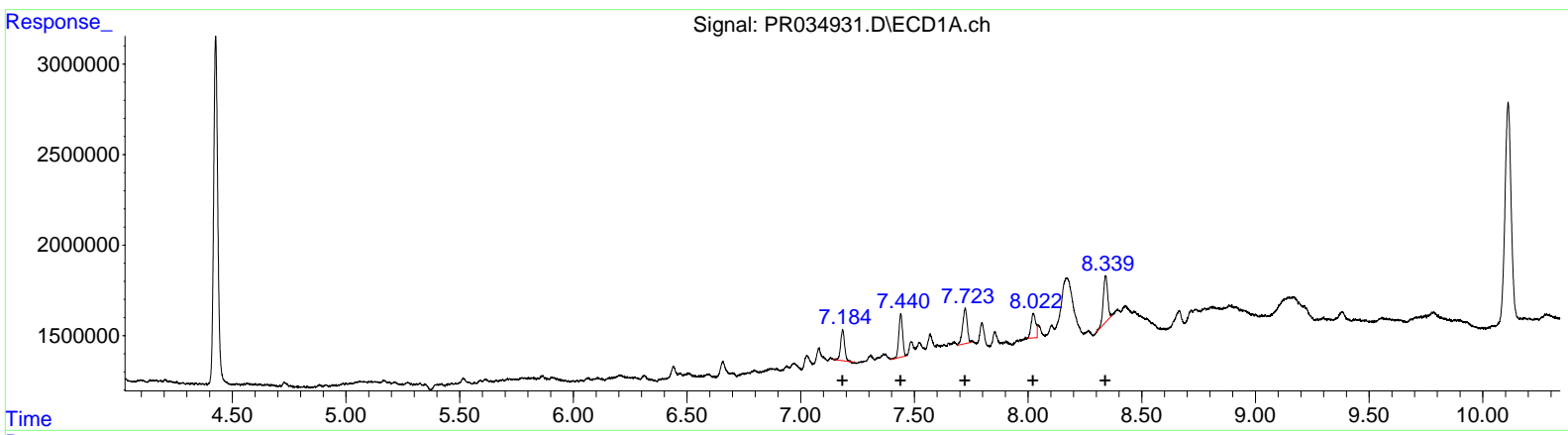
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034936.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:17
 Operator : SM\SJ
 Sample : J6431-08
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X4

Manual Integrations
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 12/21/2018 6:11:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|-------|
| 7.18 | 2041336 | 21.71 |
| 7.44 | 2762173 | 23.79 |
| 7.72 | 2676210 | 19.18 |
| 8.02 | 1927936 | 22.32 |
| 8.34 | 3435385 | 19.03 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|-------|
| 6.02 | 6935976 | 32.26 |
| 6.21 | 7512051 | 27.61 |
| 6.36 | 5412194 | 21.80 |
| 6.83 | 3443268 | 20.14 |
| 7.07 | 9553178 | 19.75 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034936.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:17
 Operator : SM\SJ
 Sample : J6431-08
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X4

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

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 12/21/2018 6:11:55 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 24141792 | 49698419 | 12.412 | 14.256 |
| 2) SA Decachlor... | 10.112 | 8.408 | 22976749 | 51288681 | 11.688 | 11.665 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.185 | 6.024 | 2041336 | 6935976 | 21.714 | 32.265m# |
| 32) L7 AR-1260-2 | 7.440 | 6.210 | 2762173 | 7512051 | 23.791 | 27.605 |
| 33) L7 AR-1260-3 | 7.724 | 6.361 | 2676210 | 5412194 | 19.177 | 21.803 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 1927936 | 3443268 | 22.323m | 20.137 |
| 35) L7 AR-1260-5 | 8.341 | 7.067 | 3435385 | 9553178 | 19.027 | 19.752 |

} 53
 12/26/28

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X5

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-09
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034937.D
 % Solids : 64.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 51 | U |
| 11104-28-2 | Aroclor-1221 | 51 | U |
| 11141-16-5 | Aroclor-1232 | 51 | U |
| 53469-21-9 | Aroclor-1242 | 51 | U |
| 12672-29-6 | Aroclor-1248 | 300 | |
| 11097-69-1 | Aroclor-1254 | 580 | |
| 11096-82-5 | Aroclor-1260 | 1000 | E |
| 37324-23-5 | Aroclor-1262 | 51 | U |
| 11100-14-4 | Aroclor-1268 | 51 | U |

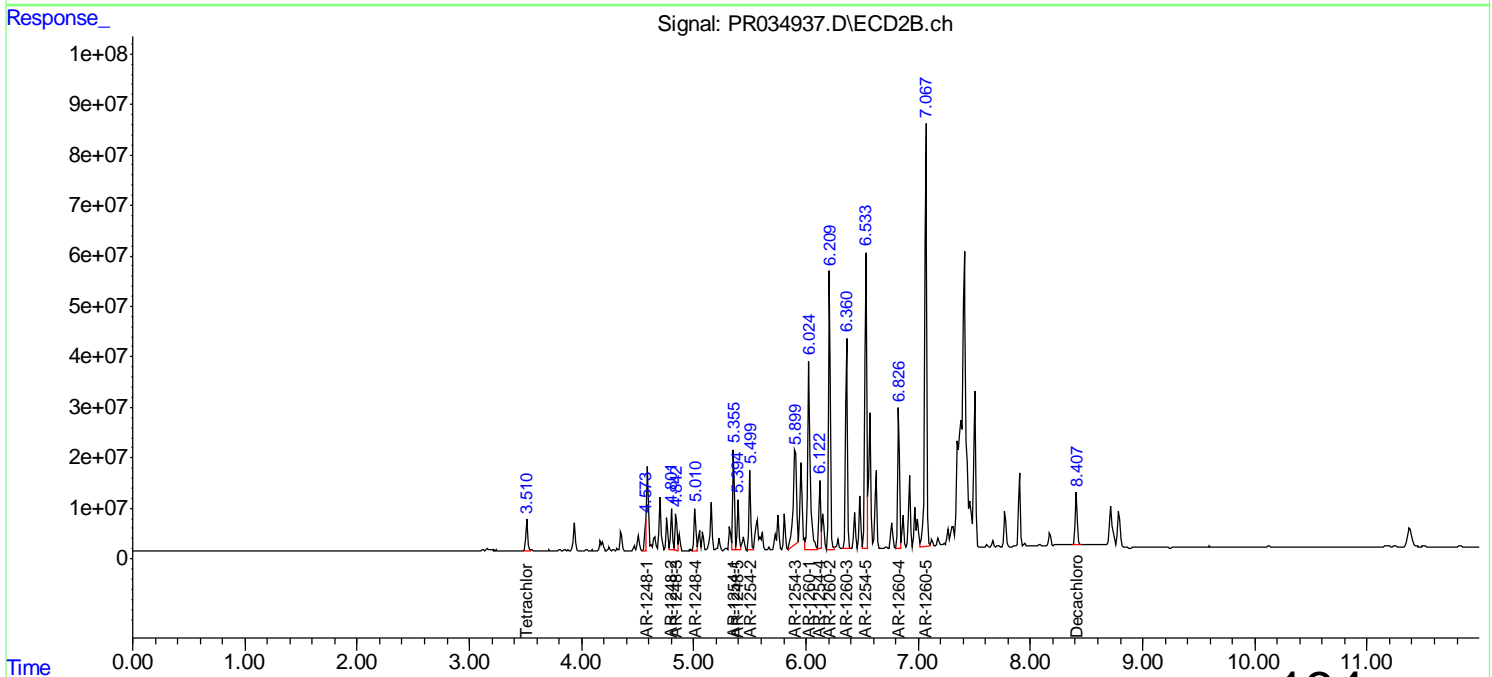
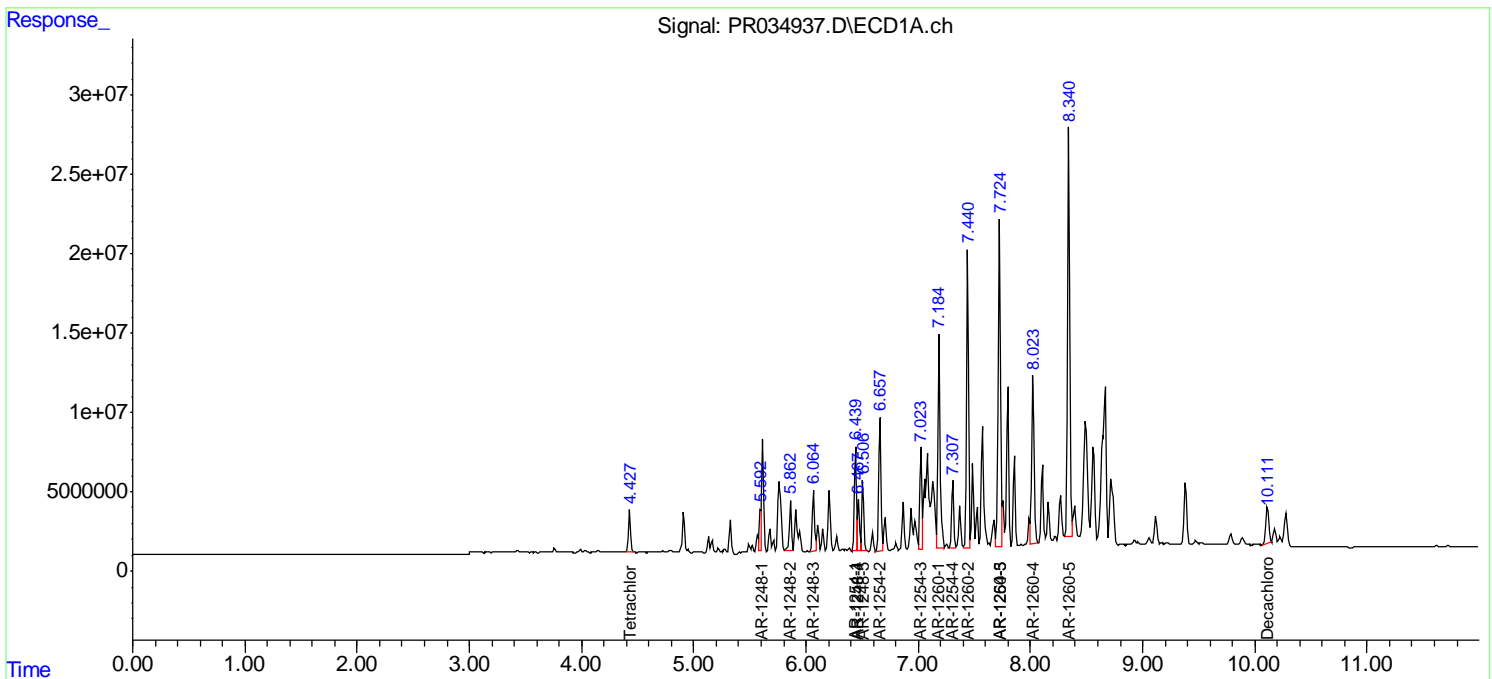
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X5

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X5

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.510 | 33067732 | 70693588 | 17.001 | 20.279m |
| 2) SA Decachlor... | 10.111 | 8.408 | 43274756 | 129.2E6 | 22.012 | 29.387 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.592 | 4.573 | 25340394 | 45965085 | 522.239m | 471.429m |
| 22) L5 AR-1248-2 | 5.862 | 4.802 | 40300905 | 86189453 | 609.940m | 672.817 |
| 23) L5 AR-1248-3 | 6.065 | 4.843 | 51311937 | 84559575 | 686.770 | 640.714 |
| 24) L5 AR-1248-4 | 6.468 | 5.010 | 38509626 | 99380753 | 431.017 | 604.027 # |
| 25) L5 AR-1248-5 | 6.506 | 5.395 | 56996540 | 107.5E6 | 681.221 | 642.594 |
| 26) L6 AR-1254-1 | 6.440 | 5.355 | 79949924 | 211.1E6 | 978.519 | 862.547 |
| 27) L6 AR-1254-2 | 6.658 | 5.500 | 116.1E6 | 170.3E6 | 908.983 | 800.583 |
| 28) L6 AR-1254-3 | 7.023 | 5.899 | 83265147 | 392.6E6 | 616.907 | 1098.642 # |
| 29) L6 AR-1254-4 | 7.307 | 6.123 | 53462343 | 146.7E6 | 503.991 | 621.097 |
| 30) L6 AR-1254-5 | 7.724 | 6.533 | 294.8E6 | 720.5E6 | 2751.170 | 2259.164 |
| 31) L7 AR-1260-1 | 7.185 | 6.024 | 182.2E6 | 579.7E6 | 1938.389 | 2696.777m# |
| 32) L7 AR-1260-2 | 7.441 | 6.210 | 233.2E6 | 573.9E6 | 2009.011 | 2108.926 |
| 33) L7 AR-1260-3 | 7.724 | 6.360 | 294.8E6 | 454.7E6 | 2112.189 | 1831.717m |
| 34) L7 AR-1260-4 | 8.023 | 6.826 | 155.5E6 | 299.7E6 | 1800.686 | 1752.509m |
| 35) L7 AR-1260-5 | 8.341 | 7.067 | 350.6E6 | 976.9E6 | 1941.739 | 2019.820 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

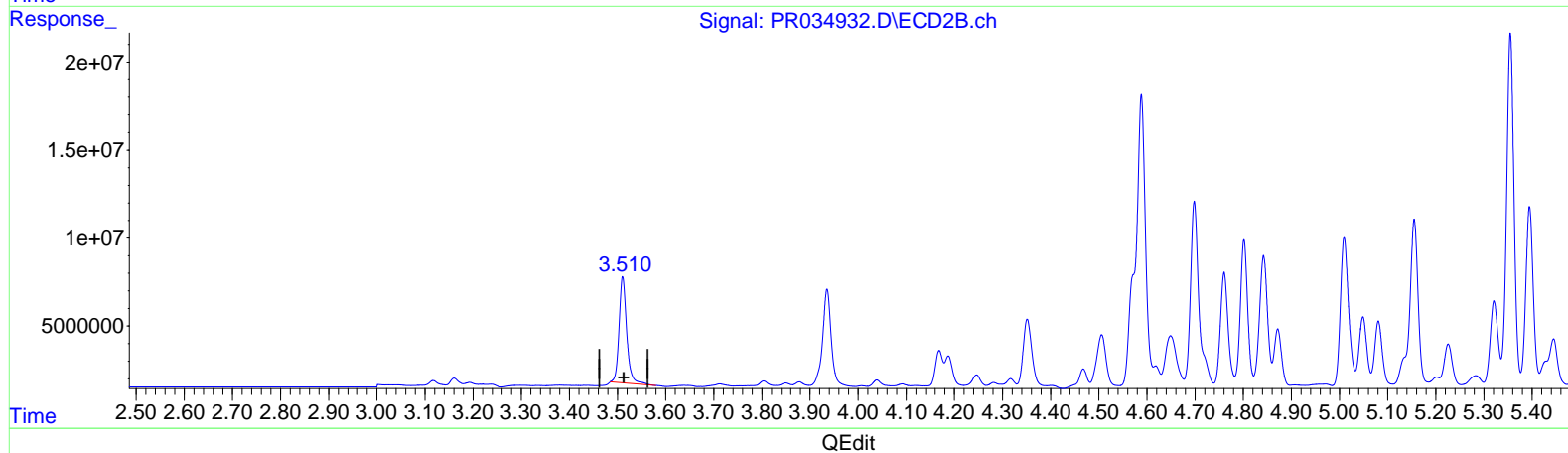
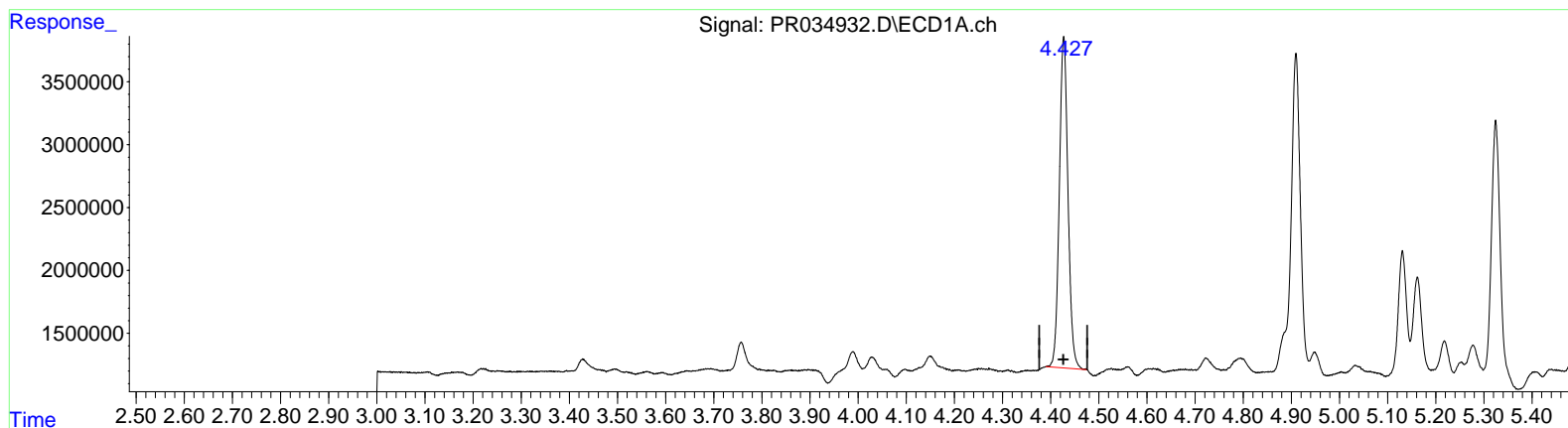
Instrument :
 ECD_R
 ClientSampled :
 A41X5

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.427min 17.001 ng/ml

response 33067732

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 19.132 ng/ml

response 66695529

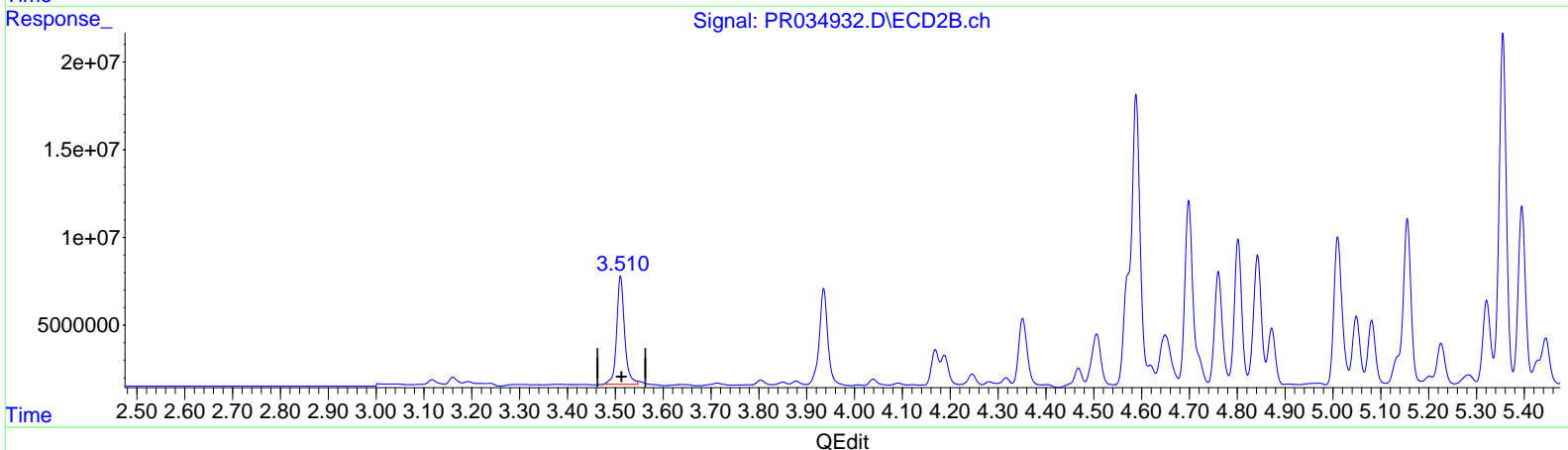
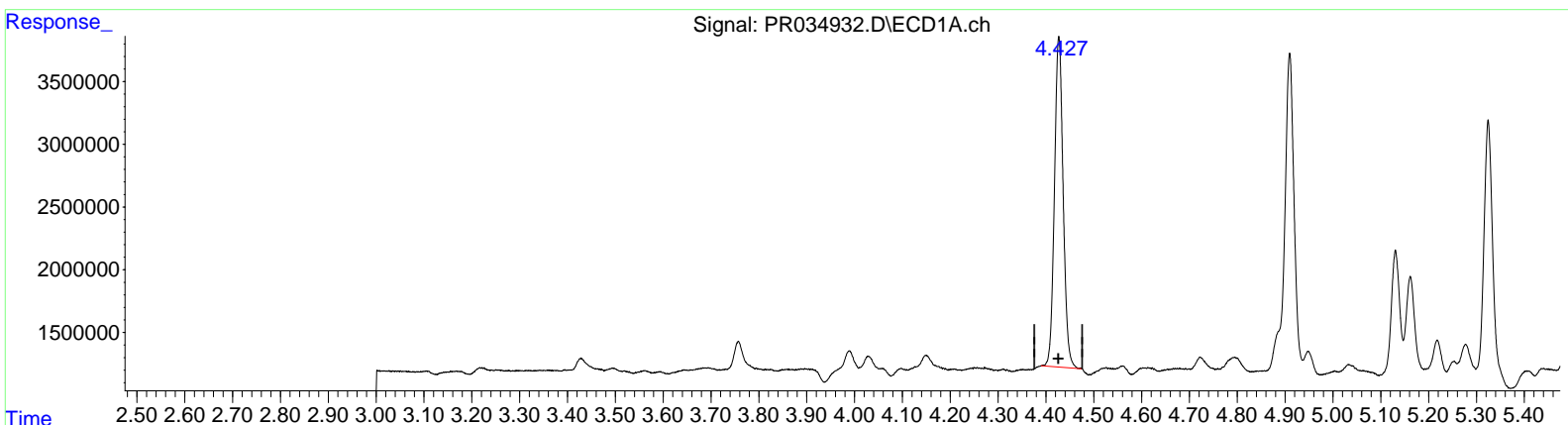
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 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X5

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.427min 17.001 ng/ml

response 33067732

(1) Tetrachloro-m-xylene #2 (SA)

3.510min 20.279 ng/ml m

response 70693588

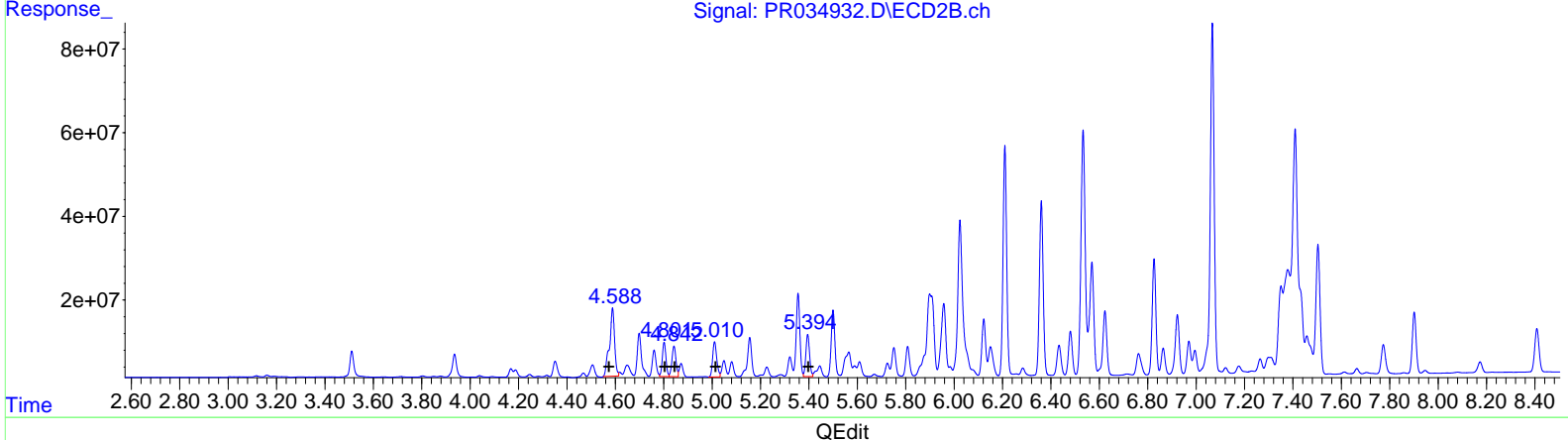
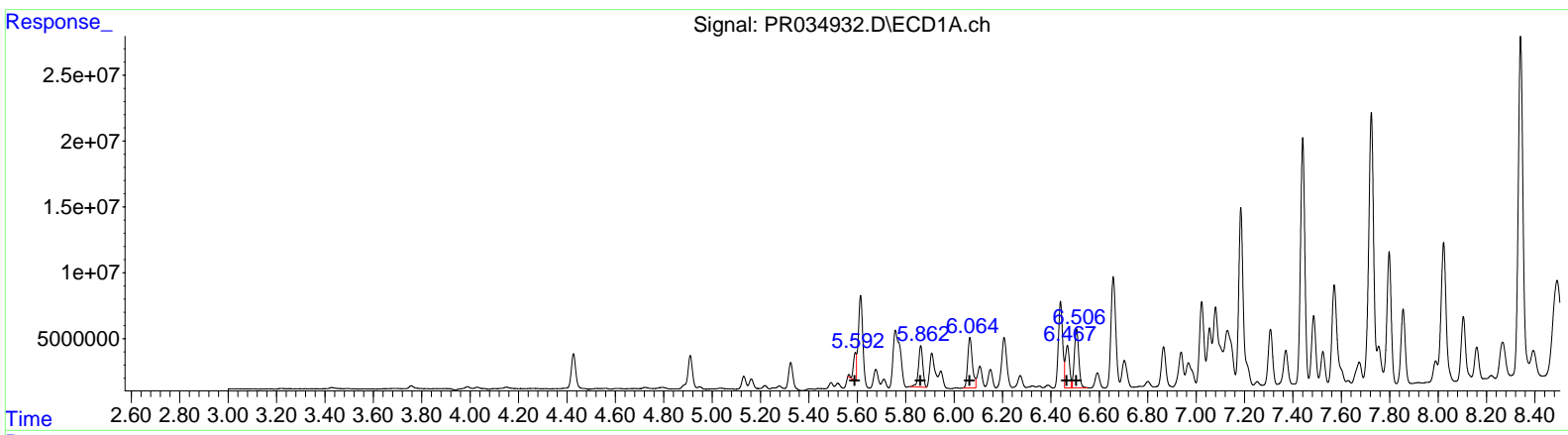
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X5

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 17782181 | 366.47 |
| 5.86 | 38655973 | 585.05 |
| 6.07 | 51311937 | 686.77 |
| 6.47 | 38509626 | 431.02 |
| 6.51 | 56996540 | 681.22 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 238099096 | 2442.00 |
| 4.80 | 86189453 | 672.82 |
| 4.84 | 84559575 | 640.71 |
| 5.01 | 99380753 | 604.03 |
| 5.39 | 107541798 | 642.59 |

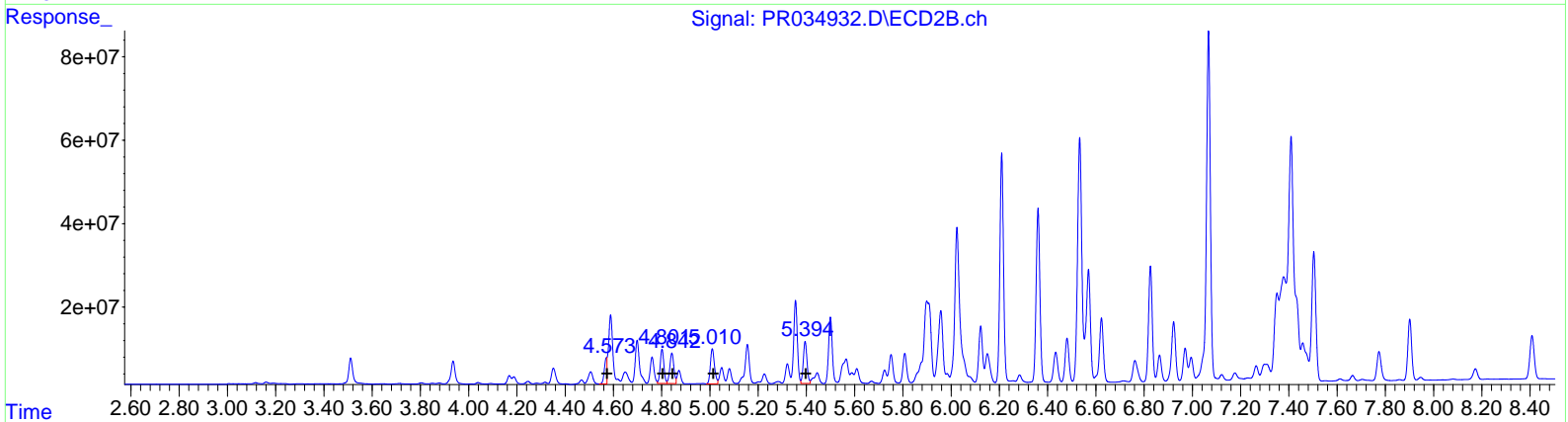
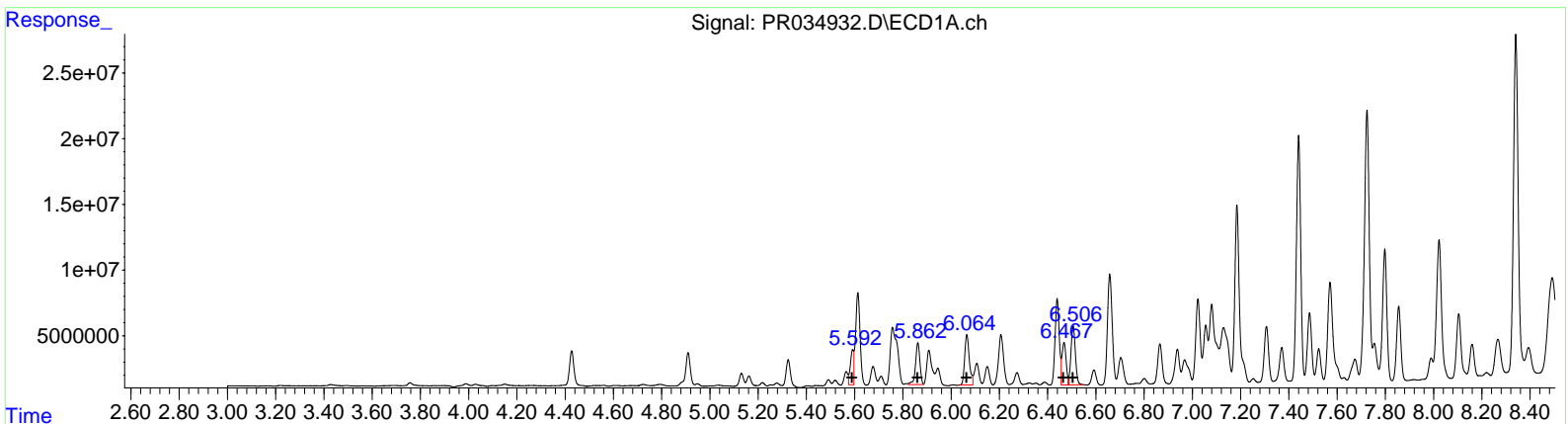
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X5

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 5.59 | 25340394 | 522.24 |
| 5.86 | 40300905 | 609.94 |
| 6.07 | 51311937 | 686.77 |
| 6.47 | 38509626 | 431.02 |
| 6.51 | 56996540 | 681.22 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.57 | 45965085 | 471.43 |
| 4.80 | 86189453 | 672.82 |
| 4.84 | 84559575 | 640.71 |
| 5.01 | 99380753 | 604.03 |
| 5.39 | 107541798 | 642.59 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

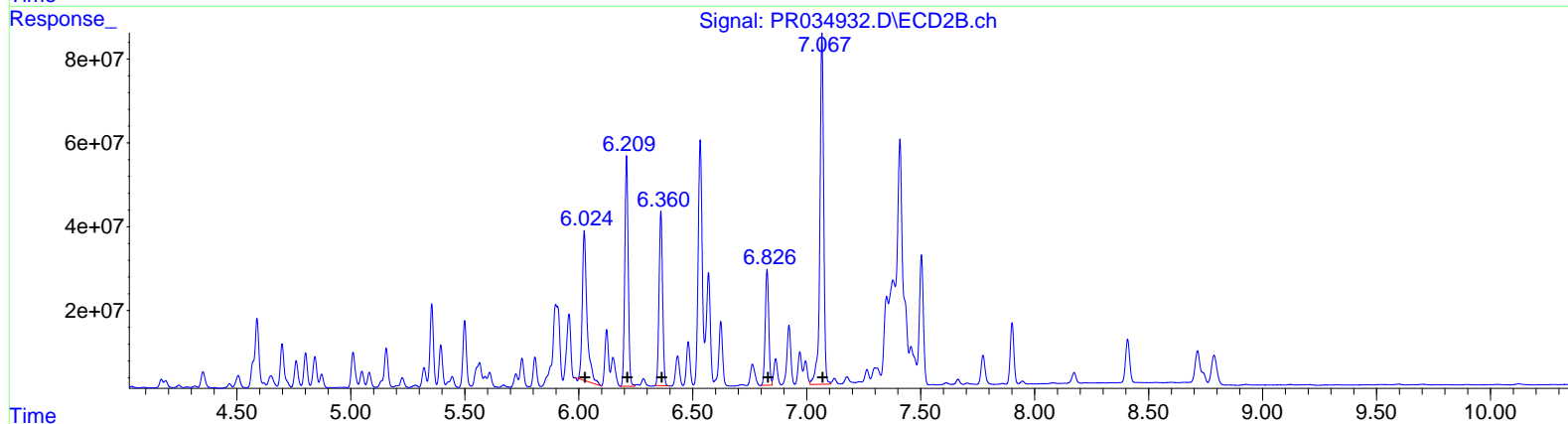
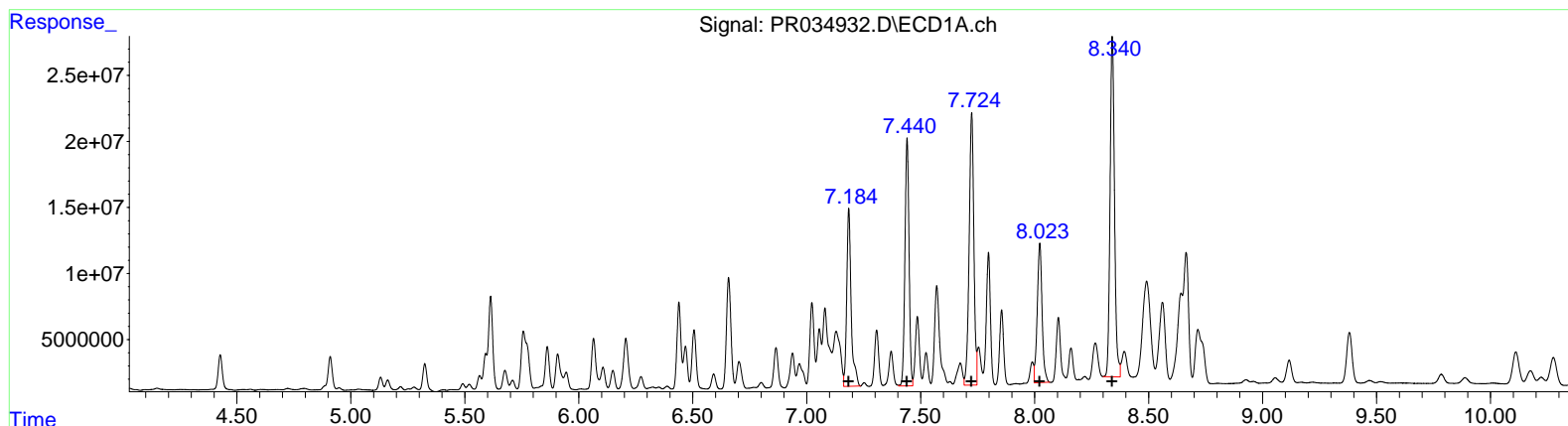
Instrument :
 ECD_R
 ClientSampled :
 A41X5

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 182224127 | 1938.39 |
| 7.44 | 233248482 | 2009.01 |
| 7.72 | 294769549 | 2112.19 |
| 8.02 | 155513696 | 1800.69 |
| 8.34 | 350588154 | 1941.74 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 514184931 | 2391.87 |
| 6.21 | 573884370 | 2108.93 |
| 6.36 | 449189521 | 1809.53 |
| 6.83 | 297753843 | 1741.35 |
| 7.07 | 976876400 | 2019.82 |

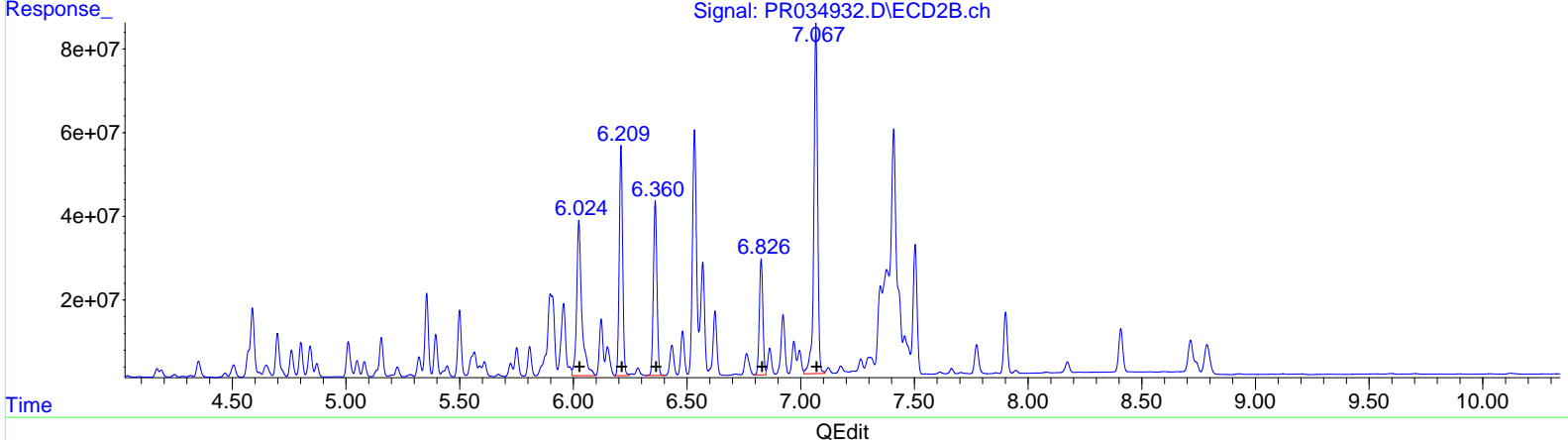
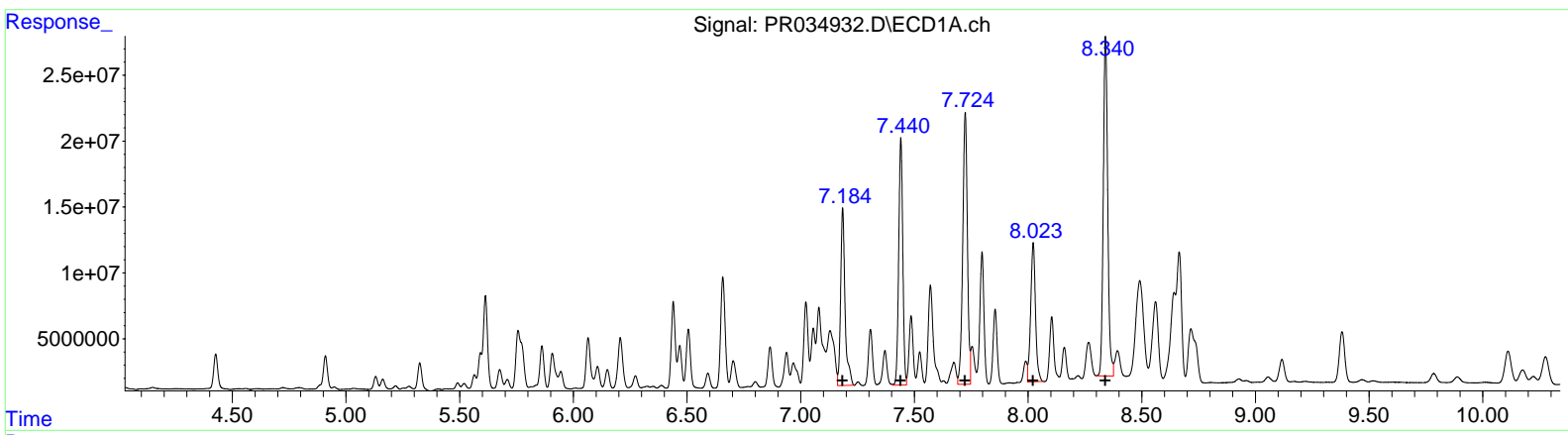
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X5

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:57 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 7.18 | 182224127 | 1938.39 |
| 7.44 | 233248482 | 2009.01 |
| 7.72 | 294769549 | 2112.19 |
| 8.02 | 155513696 | 1800.69 |
| 8.34 | 350588154 | 1941.74 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.02 | 579732120 | 2696.78 |
| 6.21 | 573884370 | 2108.93 |
| 6.36 | 454697792 | 1831.72 |
| 6.83 | 299662038 | 1752.51 |
| 7.07 | 976876400 | 2019.82 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034937.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:31
 Operator : SM\SJ
 Sample : J6431-09
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X5

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:45:46 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:57 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.510 | 33067732 | 70693588 | 17.001 | 20.279m |
| 2) SA Decachlor... | 10.111 | 8.408 | 43274756 | 129.2E6 | 22.012 | 29.387 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.592 | 4.573 | 25340394 | 45965085 | 522.239m | 471.429m |
| 22) L5 AR-1248-2 | 5.862 | 4.802 | 40300905 | 86189453 | 609.940m | 672.817 |
| 23) L5 AR-1248-3 | 6.065 | 4.843 | 51311937 | 84559575 | 686.770 | 640.714 |
| 24) L5 AR-1248-4 | 6.468 | 5.010 | 38509626 | 99380753 | 431.017 | 604.027 # |
| 25) L5 AR-1248-5 | 6.506 | 5.395 | 56996540 | 107.5E6 | 681.221 | 642.594 |
| 26) L6 AR-1254-1 | 6.440 | 5.355 | 79949924 | 211.1E6 | 978.519 | 862.547 |
| 27) L6 AR-1254-2 | 6.658 | 5.500 | 116.1E6 | 170.3E6 | 908.983 | 800.583 |
| 28) L6 AR-1254-3 | 7.023 | 5.899 | 83265147 | 392.6E6 | 616.907 | 1098.642 # |
| 29) L6 AR-1254-4 | 7.307 | 6.123 | 53462343 | 146.7E6 | 503.991 | 621.097 |
| 30) L6 AR-1254-5 | 7.724 | 6.533 | 294.8E6 | 720.5E6 | 2751.170 | 2259.164 |
| 31) L7 AR-1260-1 | 7.185 | 6.024 | 182.2E6 | 579.7E6 | 1938.389 | 2696.777m# |
| 32) L7 AR-1260-2 | 7.441 | 6.210 | 233.2E6 | 573.9E6 | 2009.011 | 2108.926 |
| 33) L7 AR-1260-3 | 7.724 | 6.360 | 294.8E6 | 454.7E6 | 2112.189 | 1831.717m |
| 34) L7 AR-1260-4 | 8.023 | 6.826 | 155.5E6 | 299.7E6 | 1800.686 | 1752.509m |
| 35) L7 AR-1260-5 | 8.341 | 7.067 | 350.6E6 | 976.9E6 | 1941.739 | 2019.820 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X5DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-09DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034987.D
 % Solids : 64.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 2.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 100 | U |
| 11104-28-2 | Aroclor-1221 | 100 | U |
| 11141-16-5 | Aroclor-1232 | 100 | U |
| 53469-21-9 | Aroclor-1242 | 100 | U |
| 12672-29-6 | Aroclor-1248 | 380 | D |
| 11097-69-1 | Aroclor-1254 | 680 | D |
| 11096-82-5 | Aroclor-1260 | 1200 | D |
| 37324-23-5 | Aroclor-1262 | 100 | U |
| 11100-14-4 | Aroclor-1268 | 100 | U |

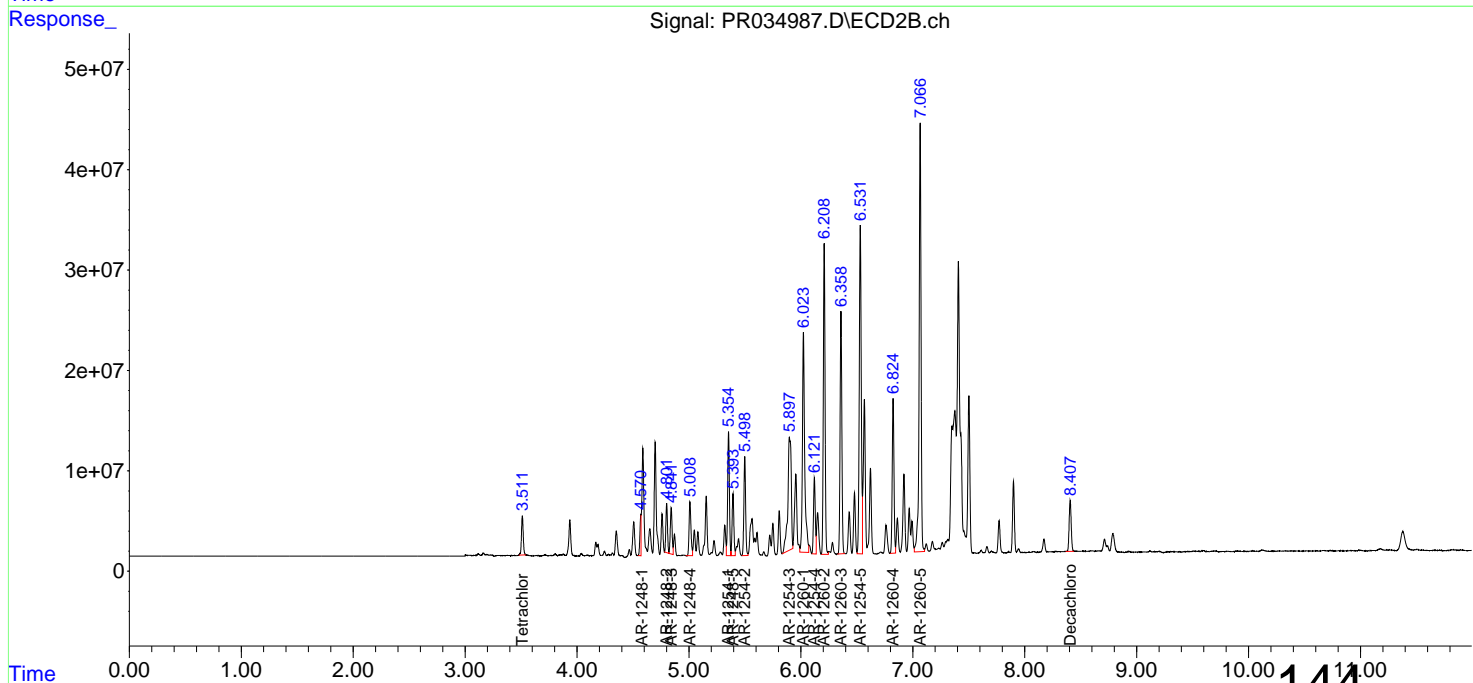
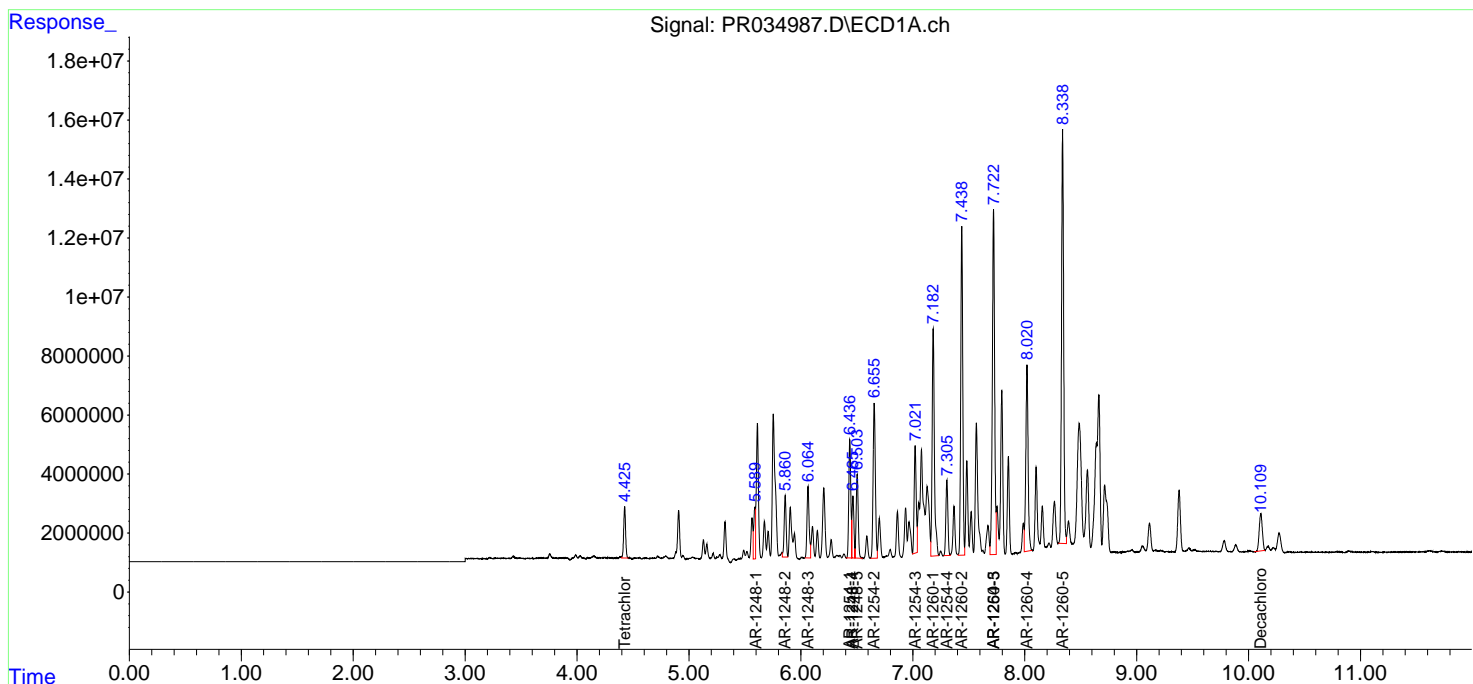
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034987.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X5DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 04:31:14 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034987.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X5DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 04:31:14 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 20884559 | 42548307 | 10.737m | 12.205m |
| 2) SA Decachlor... | 10.110 | 8.407 | 24505022 | 64830199 | 12.465 | 14.745 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.570 | 18581772 | 29332077 | 382.951m | 300.837m |
| 22) L5 AR-1248-2 | 5.860 | 4.801 | 25482177 | 49601503 | 385.664m | 387.202 |
| 23) L5 AR-1248-3 | 6.064 | 4.841 | 32242307 | 50898942 | 431.538 | 385.665 |
| 24) L5 AR-1248-4 | 6.466 | 5.009 | 24629978 | 62663879 | 275.670 | 380.865 # |
| 25) L5 AR-1248-5 | 6.504 | 5.394 | 36555878 | 67946871 | 436.915 | 406.003 |
| 26) L6 AR-1254-1 | 6.437 | 5.354 | 50199918 | 131.9E6 | 614.404 | 538.933 |
| 27) L6 AR-1254-2 | 6.656 | 5.499 | 73831118 | 106.1E6 | 577.814 | 499.048 |
| 28) L6 AR-1254-3 | 7.022 | 5.898 | 45996607 | 239.4E6 | 340.786 | 670.054 # |
| 29) L6 AR-1254-4 | 7.305 | 6.121 | 32766102 | 82793173 | 308.887 | 350.536 |
| 30) L6 AR-1254-5 | 7.722 | 6.531 | 165.9E6 | 403.4E6 | 1548.438 | 1264.808 |
| 31) L7 AR-1260-1 | 7.182 | 6.023 | 109.4E6 | 310.0E6 | 1163.705m | 1441.846m |
| 32) L7 AR-1260-2 | 7.438 | 6.209 | 139.5E6 | 332.6E6 | 1201.740 | 1222.240 |
| 33) L7 AR-1260-3 | 7.722 | 6.359 | 165.9E6 | 263.5E6 | 1188.801 | 1061.396 |
| 34) L7 AR-1260-4 | 8.021 | 6.825 | 90739971 | 166.7E6 | 1050.674 | 974.958 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 186.6E6 | 513.4E6 | 1033.650 | 1061.544 |
| ----- | | | | | | |

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

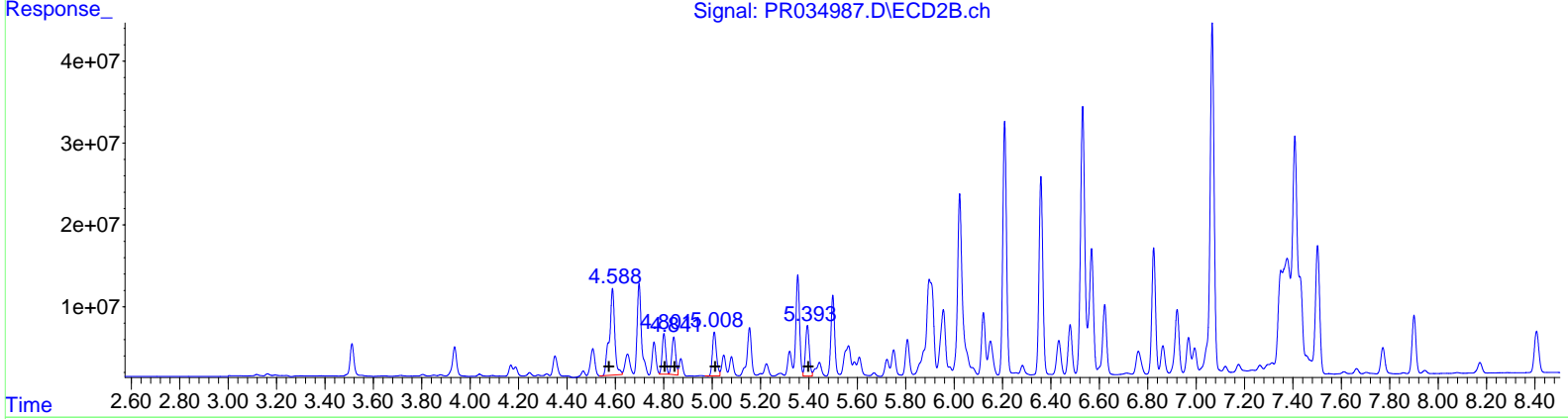
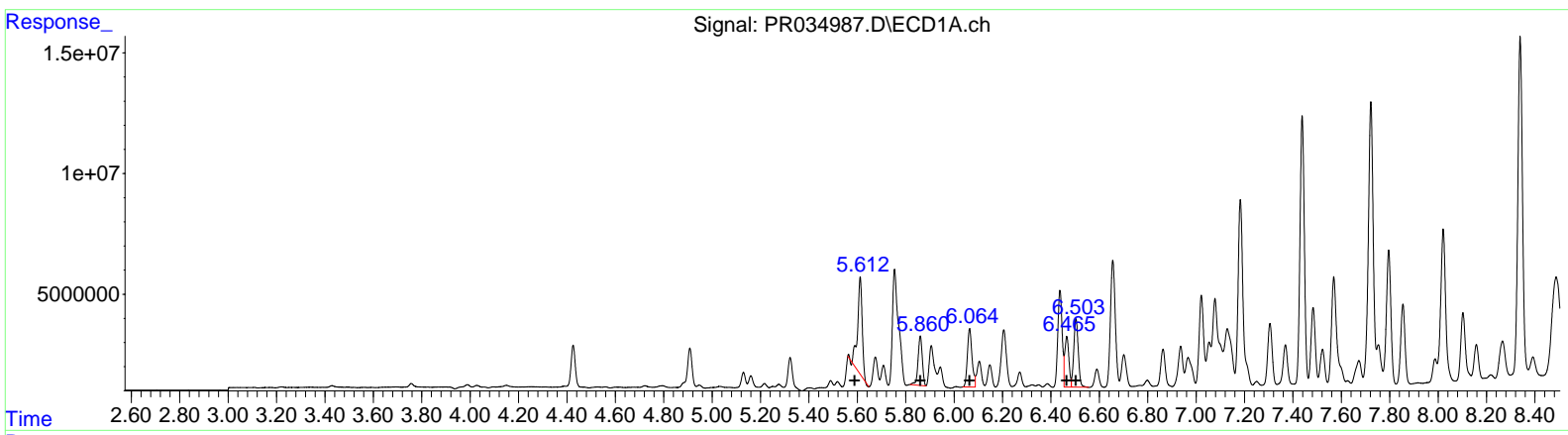
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034987.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X5DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 04:31:14 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
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 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.61 | 53199500 | 1096.39 |
| 5.86 | 24872669 | 376.44 |
| 6.06 | 32242307 | 431.54 |
| 6.47 | 24629978 | 275.67 |
| 6.50 | 36555878 | 436.91 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 162011324 | 1661.63 |
| 4.80 | 49601503 | 387.20 |
| 4.84 | 50898942 | 385.66 |
| 5.01 | 62663879 | 380.87 |
| 5.39 | 67946871 | 406.00 |

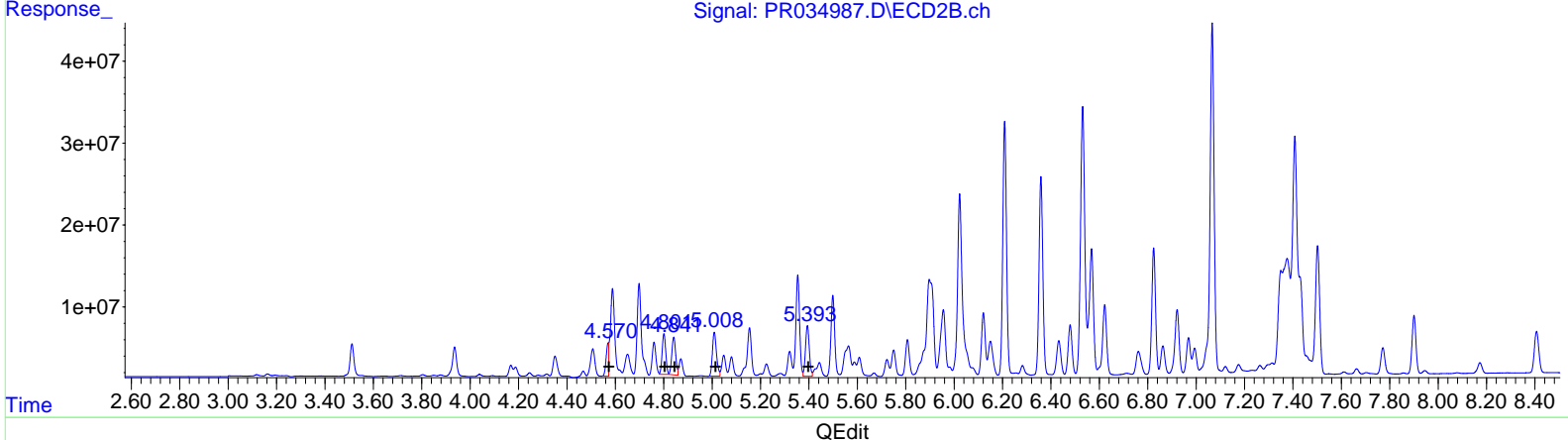
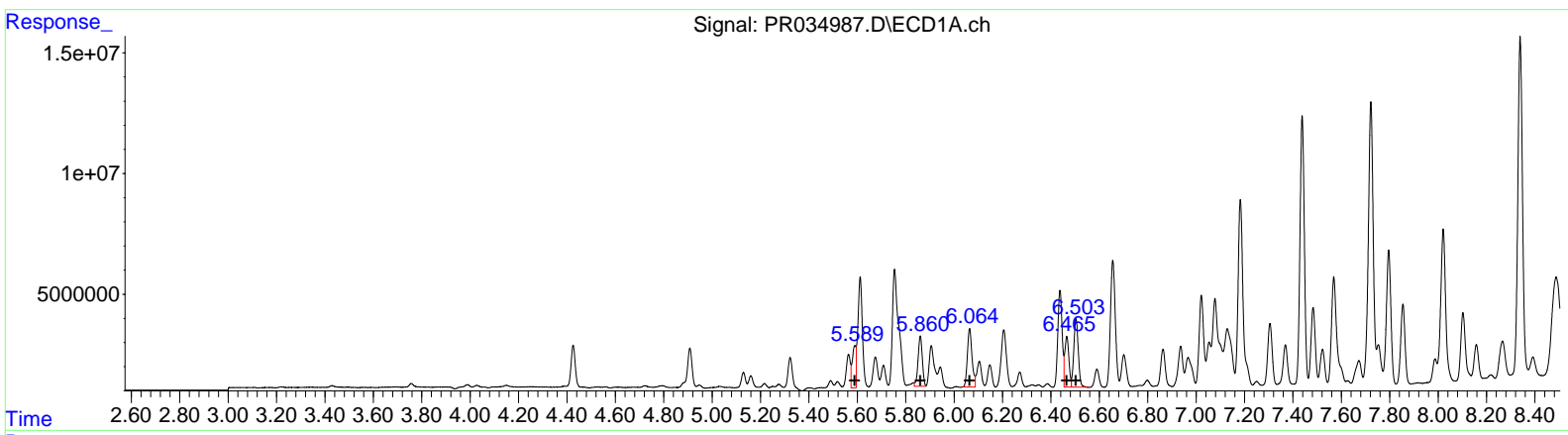
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 Data File : PR034987.D
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 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X5DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 04:31:14 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (21) AR-1248-1 #2 (L5) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 5.59 | 18581772 | 382.95 |
| 5.86 | 25482177 | 385.66 |
| 6.06 | 32242307 | 431.54 |
| 6.47 | 24629978 | 275.67 |
| 6.50 | 36555878 | 436.91 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 4.57 | 29332077 | 300.84 |
| 4.80 | 49601503 | 387.20 |
| 4.84 | 50898942 | 385.66 |
| 5.01 | 62663879 | 380.87 |
| 5.39 | 67946871 | 406.00 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034987.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

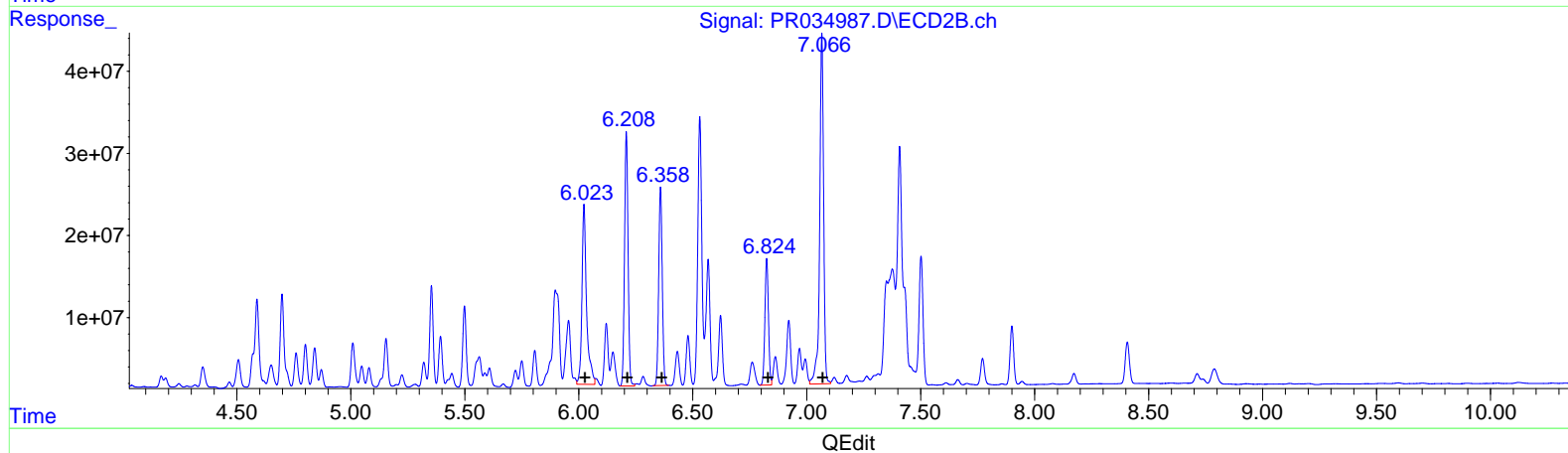
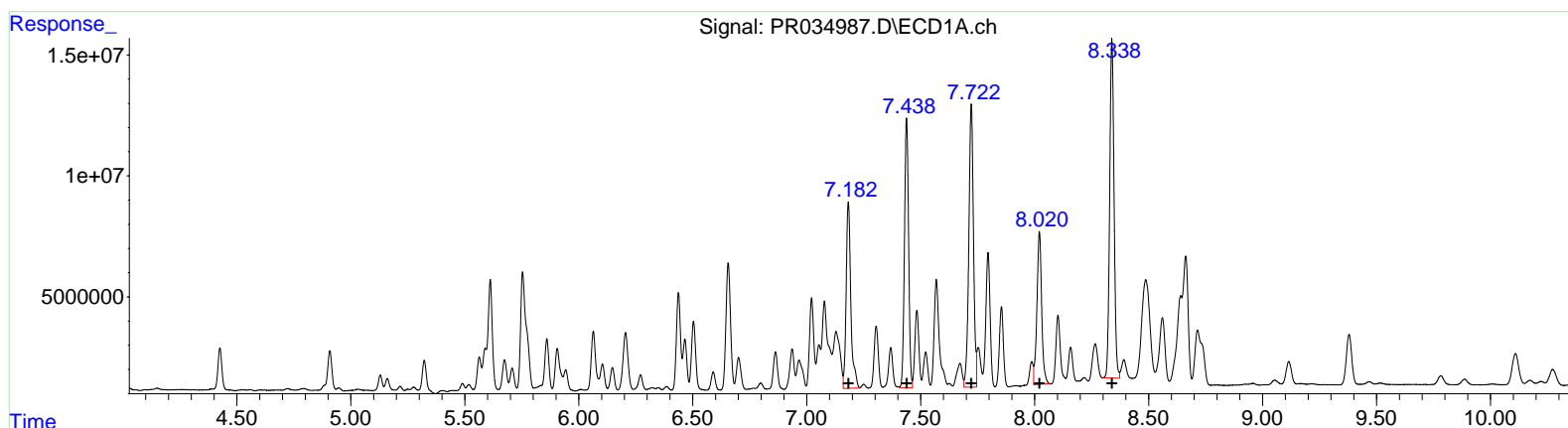
Instrument :
 ECD_R
 ClientSampled :
 A41X5DL

Manual Integrations
 APPROVED

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 12/26/2018 1:01:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 04:31:14 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)
 R.T. Response Conc
 7.18 109397584 1163.70
 7.44 139523376 1201.74
 7.72 165904811 1188.80
 8.02 90739971 1050.67
 8.34 186629319 1033.65

(31) AR-1260-1 #2 (L7)
 R.T. Response Conc
 6.02 309956736 1441.85
 6.21 332597968 1222.24
 6.36 263476530 1061.40
 6.82 166708302 974.96
 7.07 513410701 1061.54

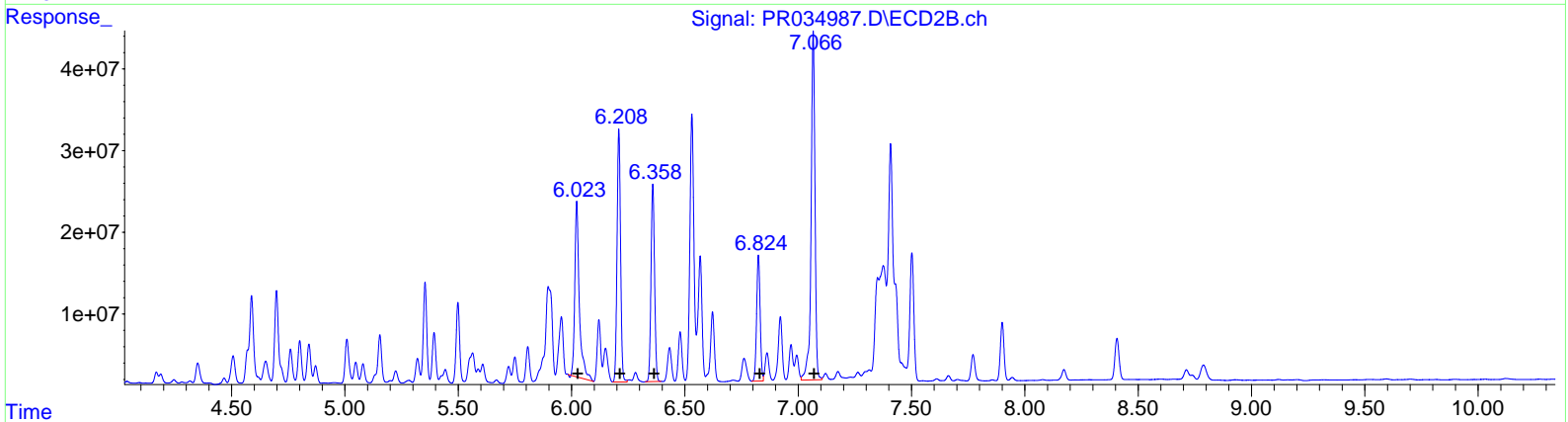
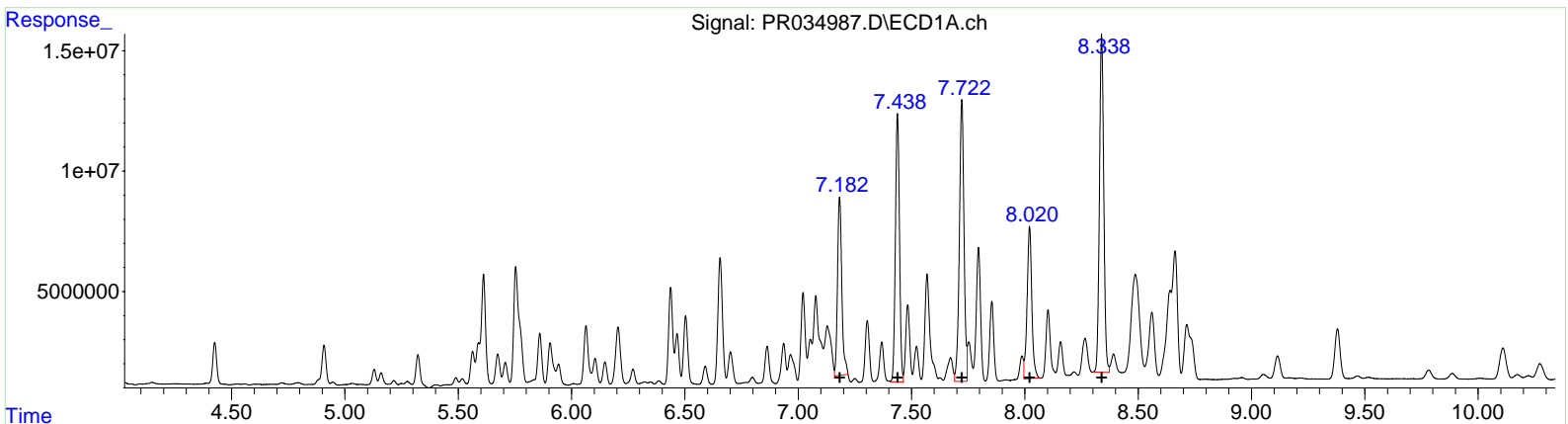
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 Data File : PR034987.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X5DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:55 PM

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 Integration File signal 2: autoint2.e
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 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 7.18 | 97903962 | 1041.44 |
| 7.44 | 139523376 | 1201.74 |
| 7.72 | 165904811 | 1188.80 |
| 8.02 | 90739971 | 1050.67 |
| 8.34 | 186629319 | 1033.65 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.02 | 298549475 | 1388.78 |
| 6.21 | 332597968 | 1222.24 |
| 6.36 | 263476530 | 1061.40 |
| 6.82 | 166708302 | 974.96 |
| 7.07 | 513410701 | 1061.54 |

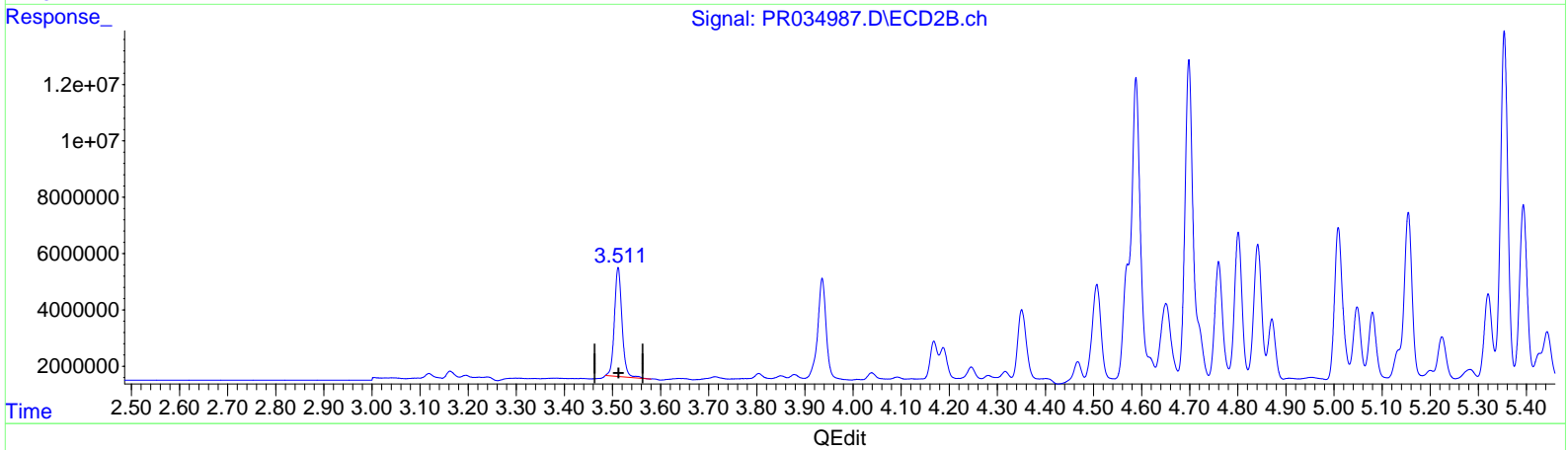
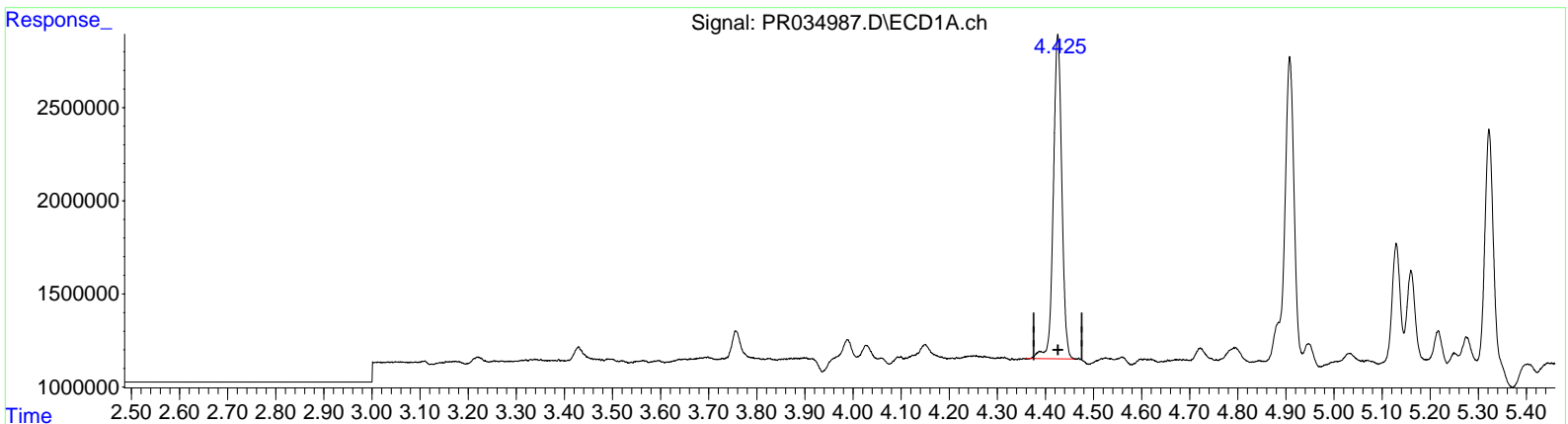
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 Data File : PR034987.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X5DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 1:01:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 04:31:14 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.426min 10.989 ng/ml
 response 21374139

(1) Tetrachloro-m-xylene #2 (SA)

3.512min 12.137 ng/ml
 response 42311325

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034987.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

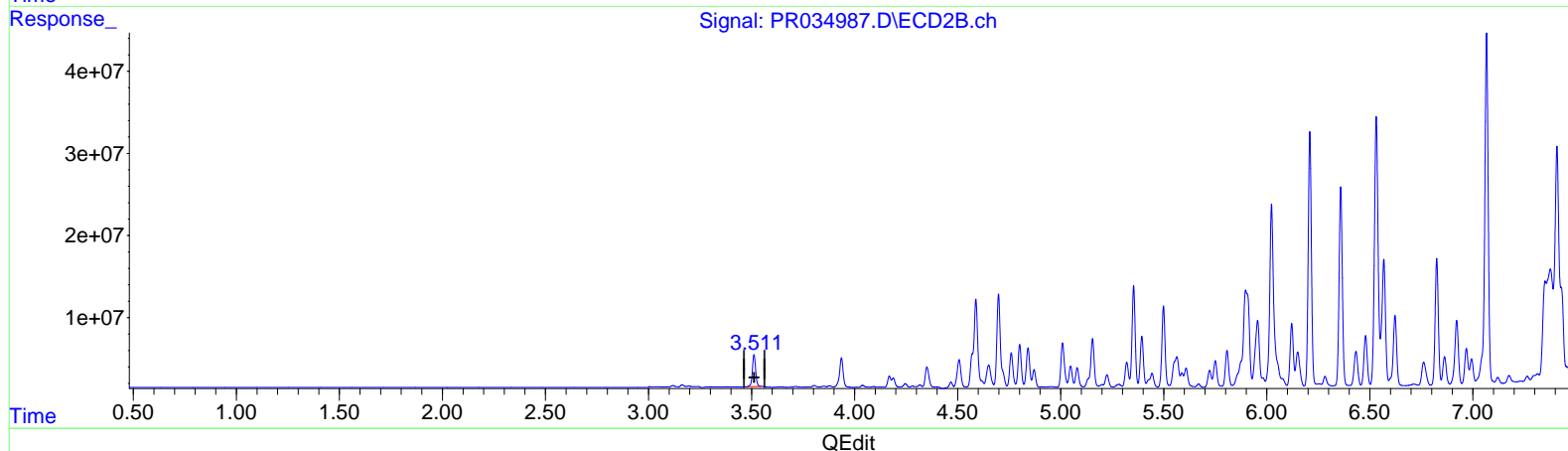
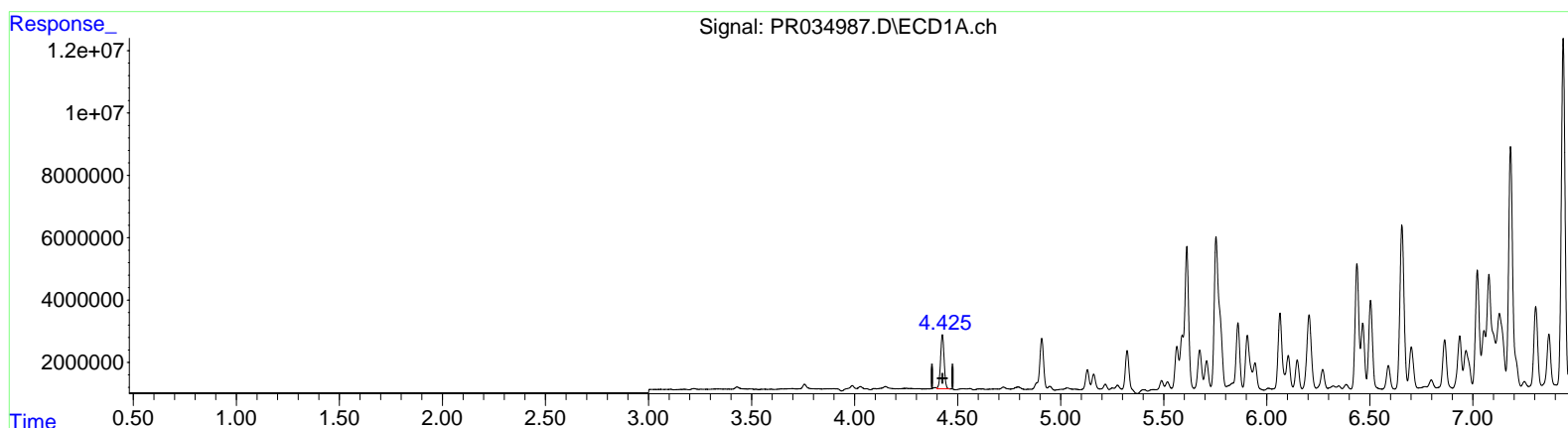
Instrument :
 ECD_R
 ClientSampled :
 A41X5DL

Manual Integrations
 APPROVED

Sohil
 12/26/2018 1:01:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 04:31:14 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.425min 10.737 ng/ml m

response 20884559

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 12.205 ng/ml m

response 42548307

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034987.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 19:03
 Operator : SM\SJ
 Sample : J6431-09DL 2X

Misc !

ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X5DL

Manual Integrations
 APPROVED

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 12/26/2018 1:01:55 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 31 04:31:14 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|---------|---------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 20884559 | 42548307 | 10.737m | 12.205m |
| 2) SA Decachlor... | 10.110 | 8.407 | 24505022 | 64830199 | 12.465 | 14.745 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|-----------|-----------|
| 21) L5 AR-1248-1 | 5.589 | 4.570 | 18581772 | 29332077 | 382.951m | 300.837m |
| 22) L5 AR-1248-2 | 5.860 | 4.801 | 25482177 | 49601503 | 385.664m | 387.202 |
| 23) L5 AR-1248-3 | 6.064 | 4.841 | 32242307 | 50898942 | 431.538 | 385.665 |
| 24) L5 AR-1248-4 | 6.466 | 5.009 | 24629978 | 62663879 | 275.670 | 380.865 # |
| 25) L5 AR-1248-5 | 6.504 | 5.394 | 36555878 | 67946871 | 436.915 | 406.003 |
| 26) L6 AR-1254-1 | 6.437 | 5.354 | 50199918 | 131.9E6 | 614.404 | 538.933 |
| 27) L6 AR-1254-2 | 6.656 | 5.499 | 73831118 | 106.1E6 | 577.814 | 499.048 |
| 28) L6 AR-1254-3 | 7.022 | 5.898 | 45996607 | 239.4E6 | 340.786 | 670.054 # |
| 29) L6 AR-1254-4 | 7.305 | 6.121 | 32766102 | 82793173 | 308.887 | 350.536 |
| 30) L6 AR-1254-5 | 7.722 | 6.531 | 165.9E6 | 403.4E6 | 1548.438 | 1264.808 |
| 31) L7 AR-1260-1 | 7.182 | 6.023 | 109.4E6 | 310.0E6 | 1163.705m | 1441.846m |
| 32) L7 AR-1260-2 | 7.438 | 6.209 | 139.5E6 | 332.6E6 | 1201.740 | 1222.240 |
| 33) L7 AR-1260-3 | 7.722 | 6.359 | 165.9E6 | 263.5E6 | 1188.801 | 1061.396 |
| 34) L7 AR-1260-4 | 8.021 | 6.825 | 90739971 | 166.7E6 | 1050.674 | 974.958 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 186.6E6 | 513.4E6 | 1033.650 | 1061.544 |

SJ
 12/28/18

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X6

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-10
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034938.D
 % Solids : 76.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 43 | U |
| 11104-28-2 | Aroclor-1221 | 43 | U |
| 11141-16-5 | Aroclor-1232 | 43 | U |
| 53469-21-9 | Aroclor-1242 | 43 | U |
| 12672-29-6 | Aroclor-1248 | 4200 | E |
| 11097-69-1 | Aroclor-1254 | 43 | U |
| 11096-82-5 | Aroclor-1260 | 2100 | E |
| 37324-23-5 | Aroclor-1262 | 43 | U |
| 11100-14-4 | Aroclor-1268 | 43 | U |

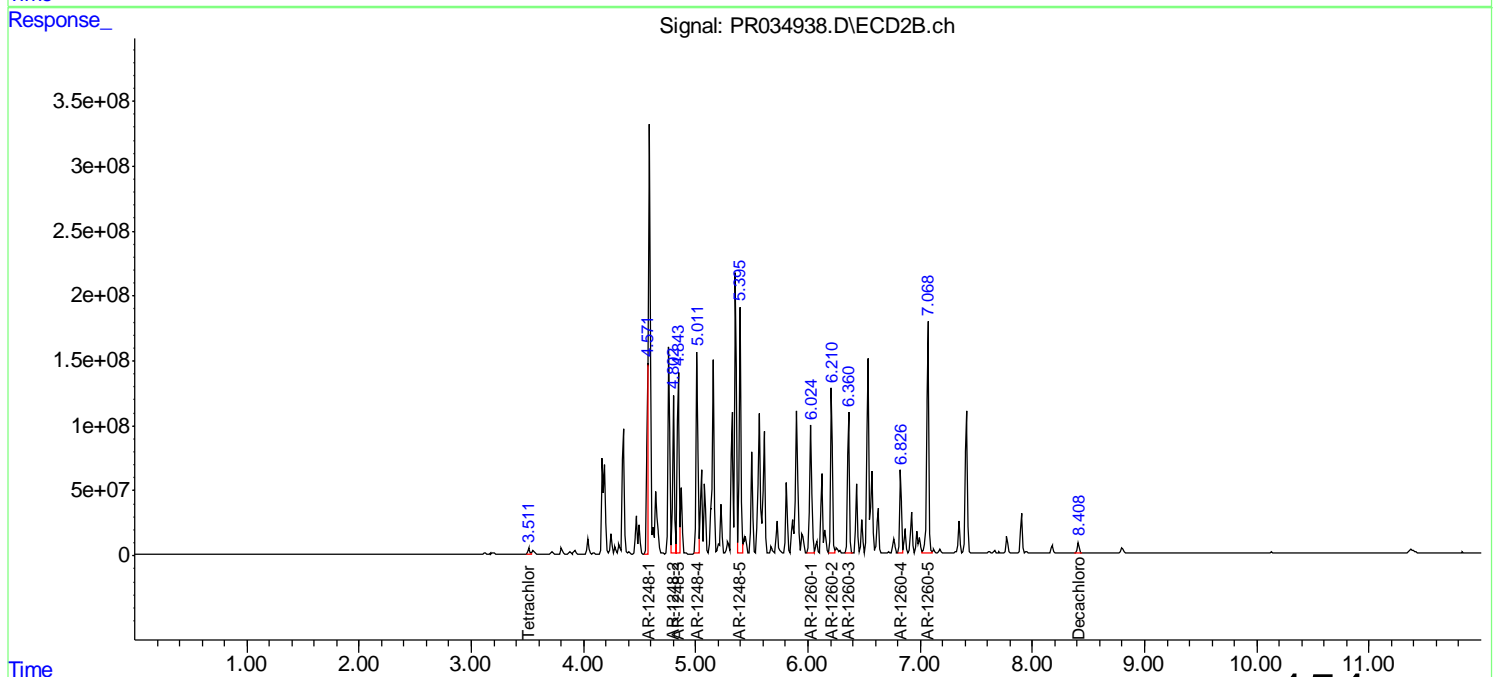
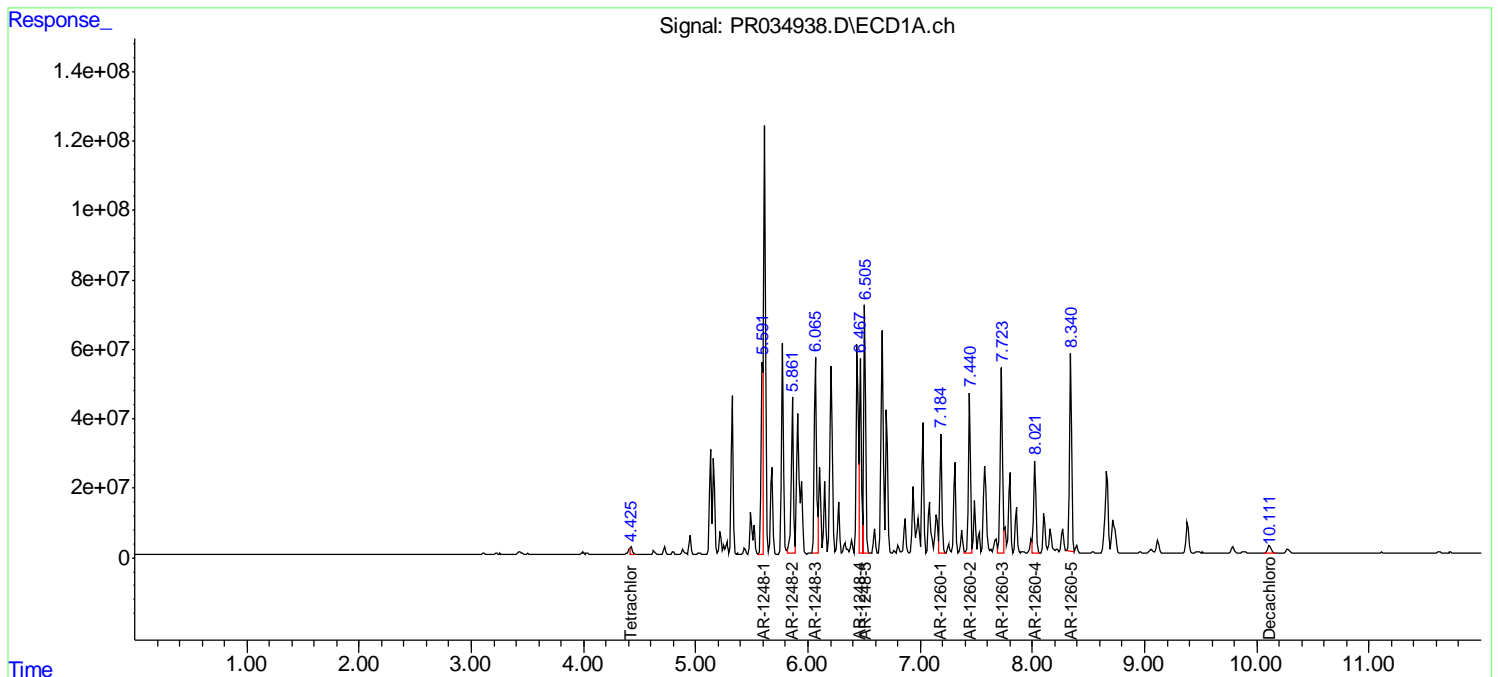
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 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:58 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:58 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 26475129 | 45505108 | 13.612m | 13.054m |
| 2) SA Decachlor... | 10.112 | 8.409 | 40979103 | 100.1E6 | 20.845 | 22.776 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.571 | 522.8E6 | 1118.4E6 | 10774.156 | 11470.848m |
| 22) L5 AR-1248-2 | 5.861 | 4.802 | 596.1E6 | 1260.6E6 | 9021.870m | 9840.324 |
| 23) L5 AR-1248-3 | 6.065 | 4.843 | 758.4E6 | 1583.2E6 | 10150.579 | 11995.904 |
| 24) L5 AR-1248-4 | 6.467 | 5.011 | 681.8E6 | 1761.2E6 | 7631.506 | 10704.628 # |
| 25) L5 AR-1248-5 | 6.505 | 5.395 | 891.1E6 | 2010.3E6 | 10650.704 | 12012.040 |
| 31) L7 AR-1260-1 | 7.184 | 6.024 | 431.0E6 | 1356.5E6 | 4585.189 | 6310.327 # |
| 32) L7 AR-1260-2 | 7.440 | 6.210 | 578.0E6 | 1374.3E6 | 4978.544 | 5050.209 |
| 33) L7 AR-1260-3 | 7.724 | 6.361 | 743.7E6 | 1171.2E6 | 5329.367 | 4718.033 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 382.1E6 | 680.7E6 | 4424.520 | 3980.727 |
| 35) L7 AR-1260-5 | 8.341 | 7.068 | 757.8E6 | 2112.1E6 | 4196.863 | 4367.127 |
| ----- | | | | | | |

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

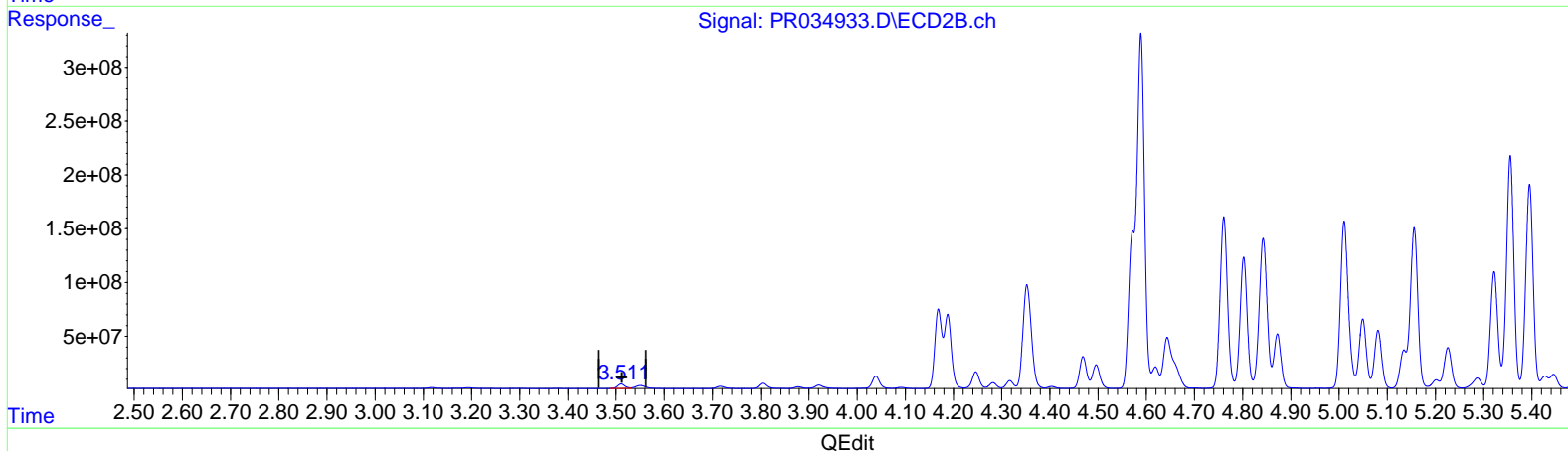
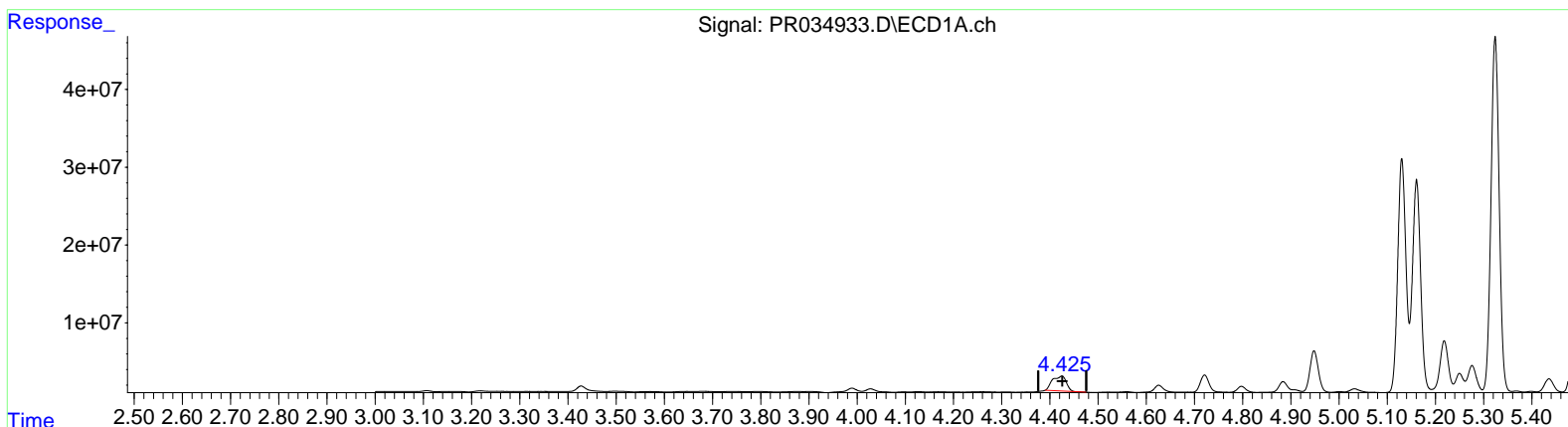
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 Data File : PR034938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X6

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:58 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.425min 19.333 ng/ml

response 37603547

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 12.800 ng/ml

response 44622689

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

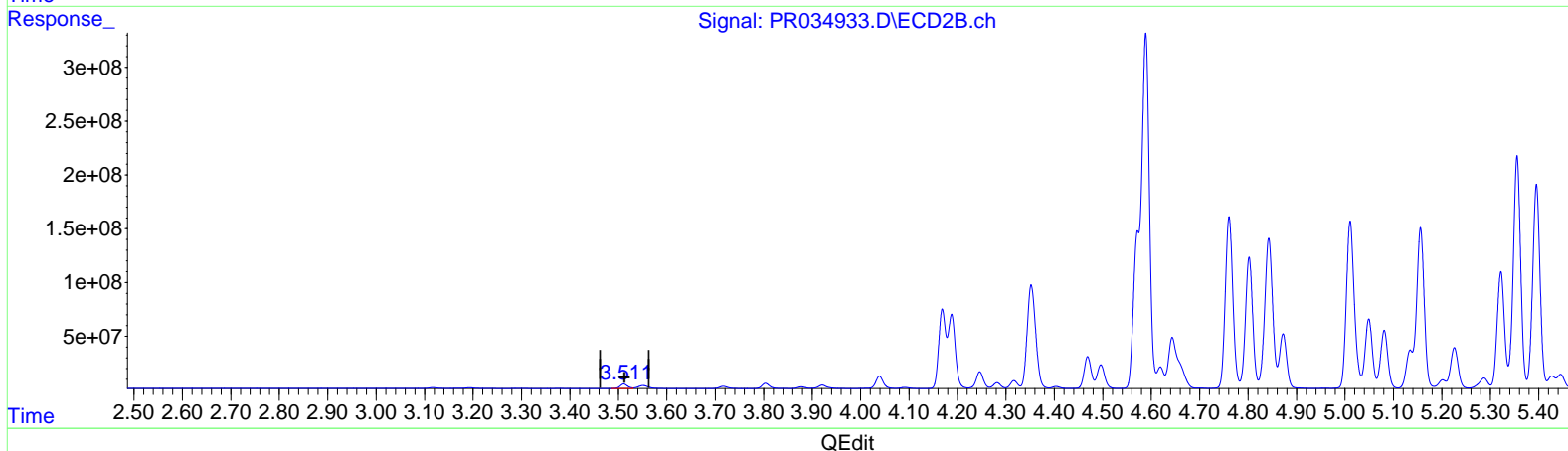
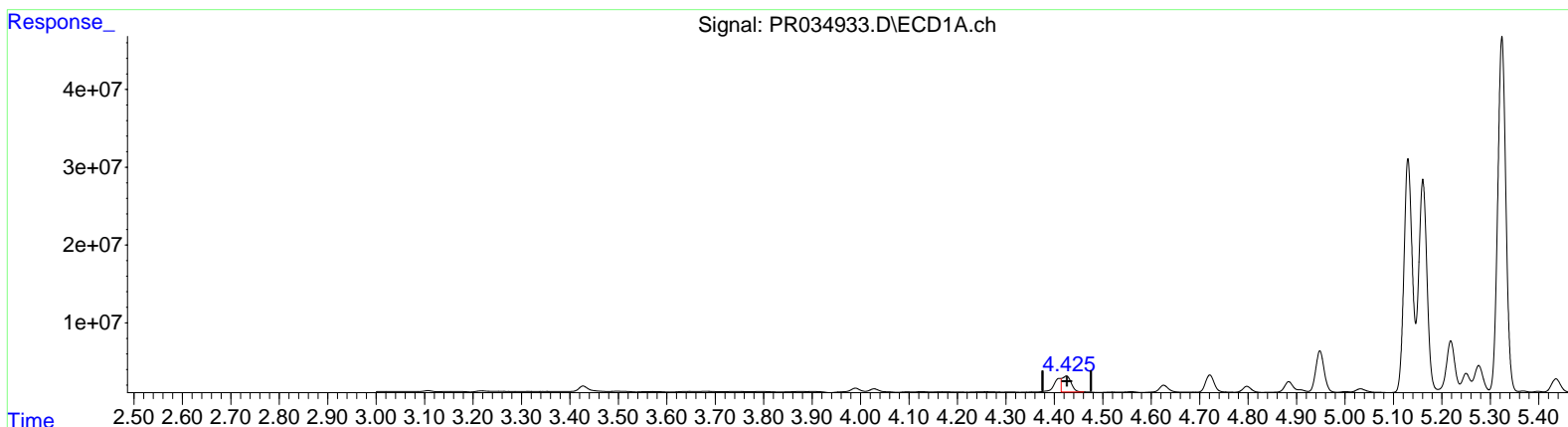
Instrument :
 ECD_R
 ClientSampled :
 A41X6

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:58 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.425min 13.612 ng/ml m
 response 26475129

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 13.054 ng/ml m
 response 45505108

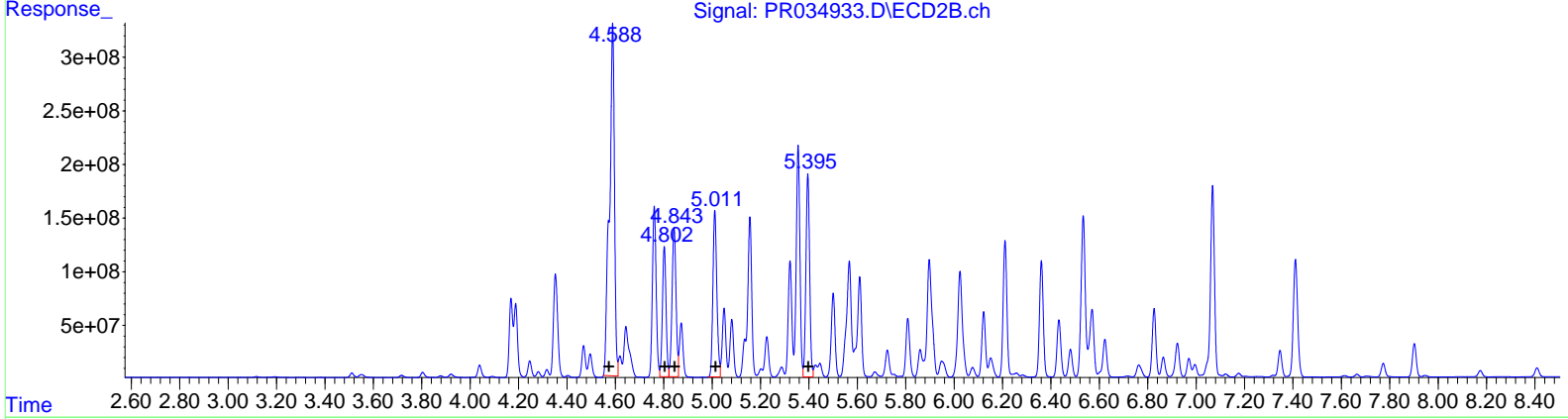
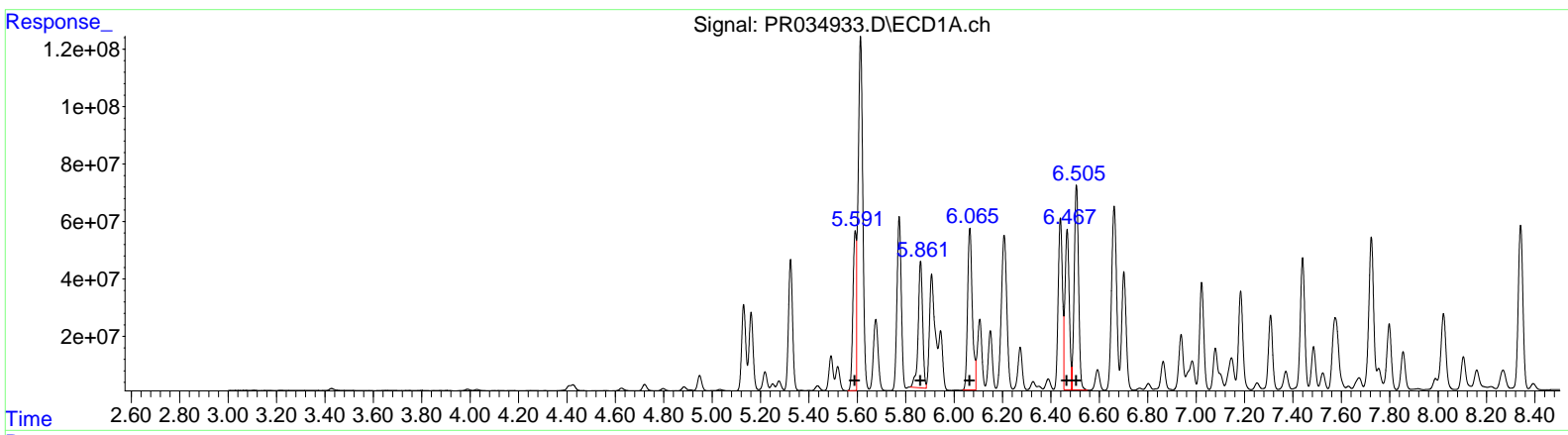
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6

Manual Integrations
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 12/21/2018 6:11:58 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)
 R.T. Response Conc
 5.59 522790343 10774.16
 5.86 562551156 8514.02
 6.06 758399693 10150.58
 6.47 681844015 7631.51
 6.51 891125618 10650.70

(21) AR-1248-1 #2 (L5)
 R.T. Response Conc
 4.59 4760069616 48820.38
 4.80 1260569186 9840.32
 4.84 1583185630 11995.90
 5.01 1761235681 10704.63
 5.40 2010283285 12012.04

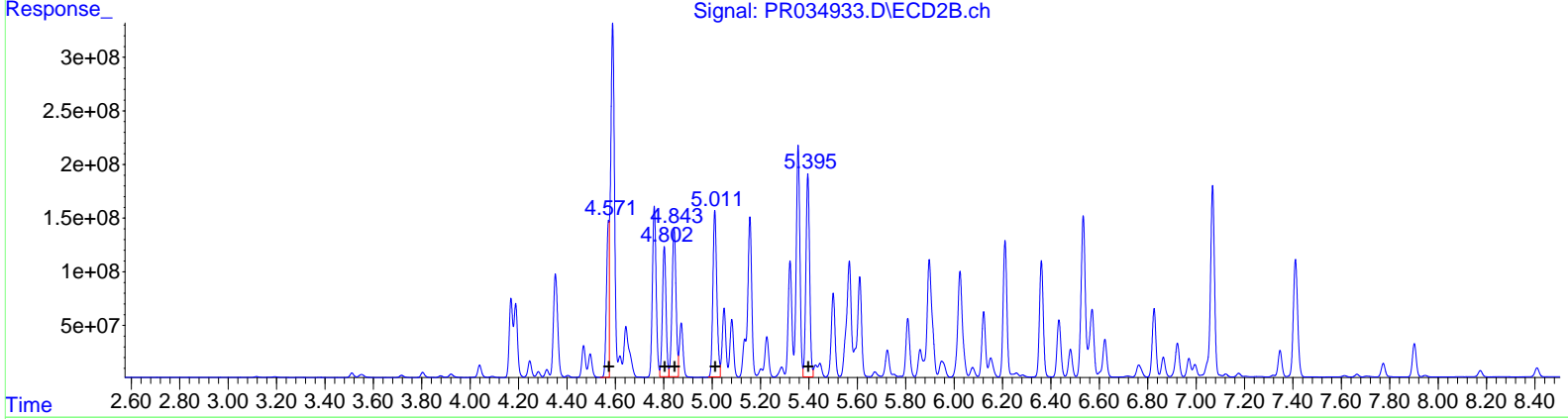
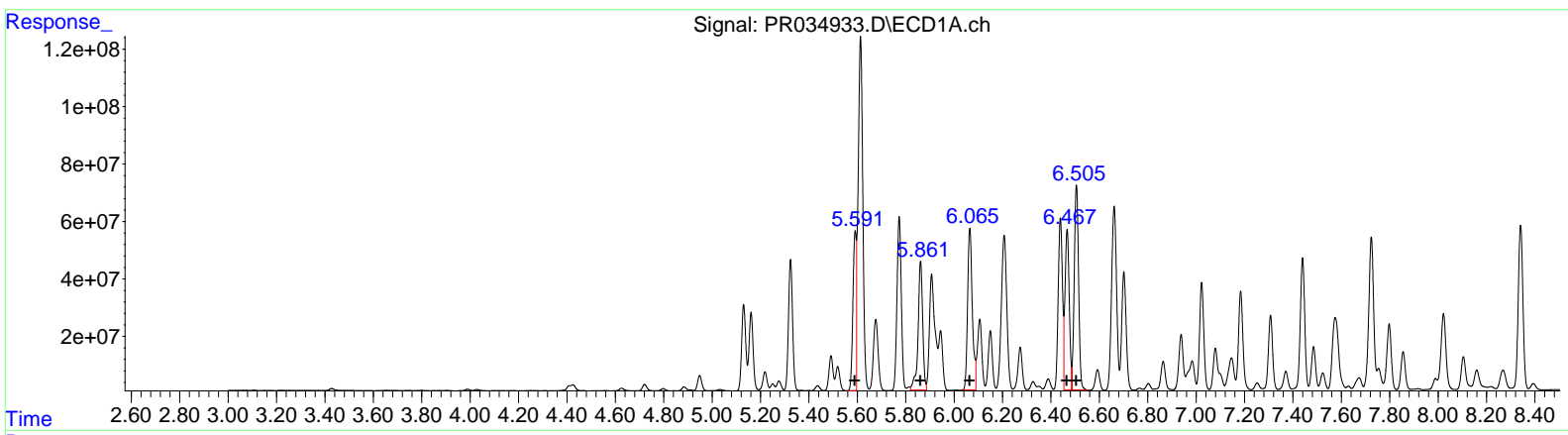
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|-----------|----------|
| 5.59 | 522790343 | 10774.16 |
| 5.86 | 596106556 | 9021.87 |
| 6.06 | 758399693 | 10150.58 |
| 6.47 | 681844015 | 7631.51 |
| 6.51 | 891125618 | 10650.70 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.57 | 1118427097 | 11470.85 |
| 4.80 | 1260569186 | 9840.32 |
| 4.84 | 1583185630 | 11995.90 |
| 5.01 | 1761235681 | 10704.63 |
| 5.40 | 2010283285 | 12012.04 |

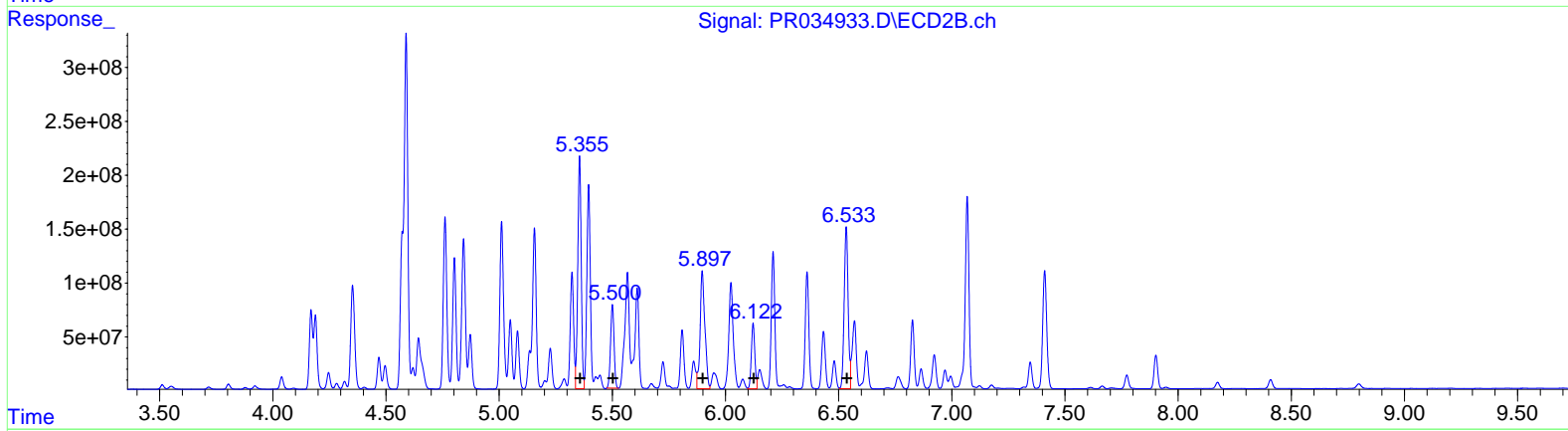
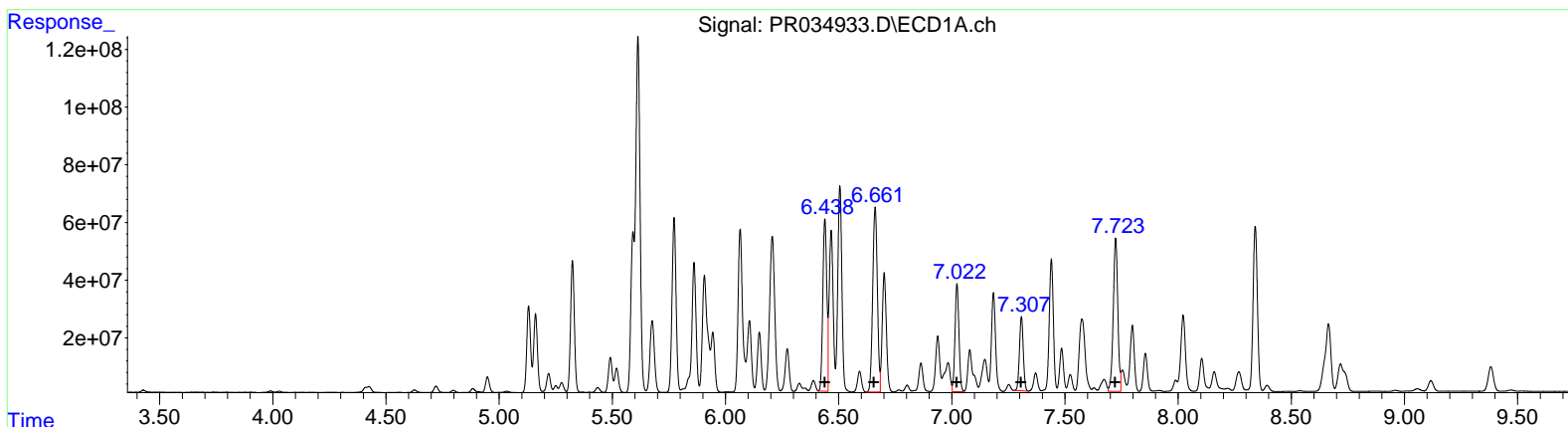
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.44 | 728328001 | 8914.12 |
| 6.66 | 918026275 | 7184.62 |
| 7.02 | 451269877 | 3343.43 |
| 7.31 | 303759271 | 2863.55 |
| 7.72 | 743747273 | 6941.61 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|------------|---------|
| R.T. | Response | Conc |
| 5.36 | 2272948868 | 9288.96 |
| 5.50 | 834868472 | 3925.29 |
| 5.90 | 1608856392 | 4502.59 |
| 6.12 | 648700558 | 2746.52 |
| 6.53 | 1823036087 | 5715.89 |

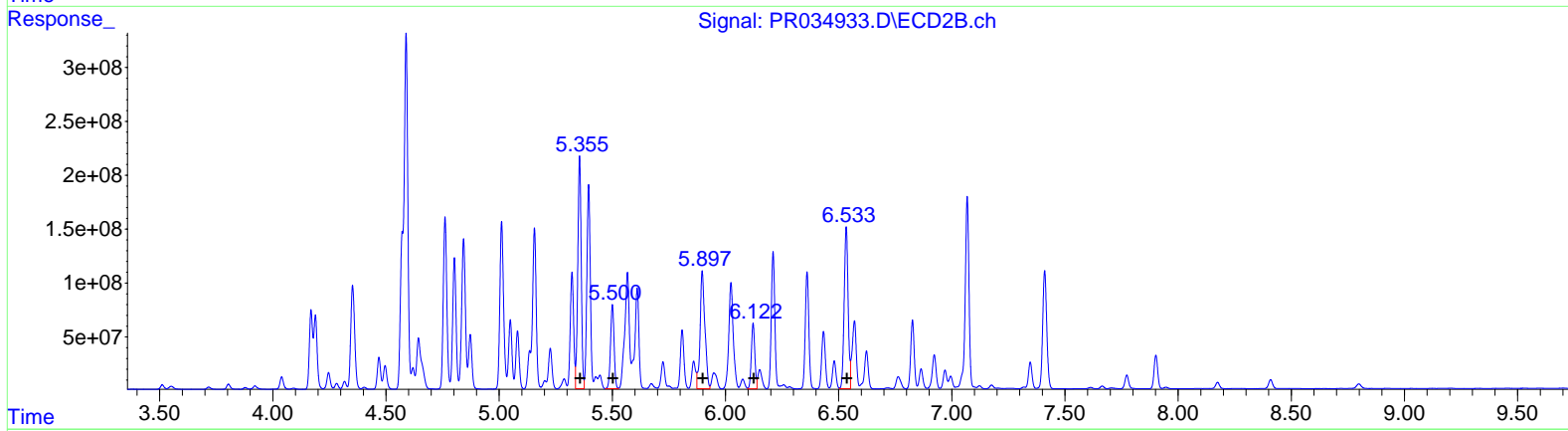
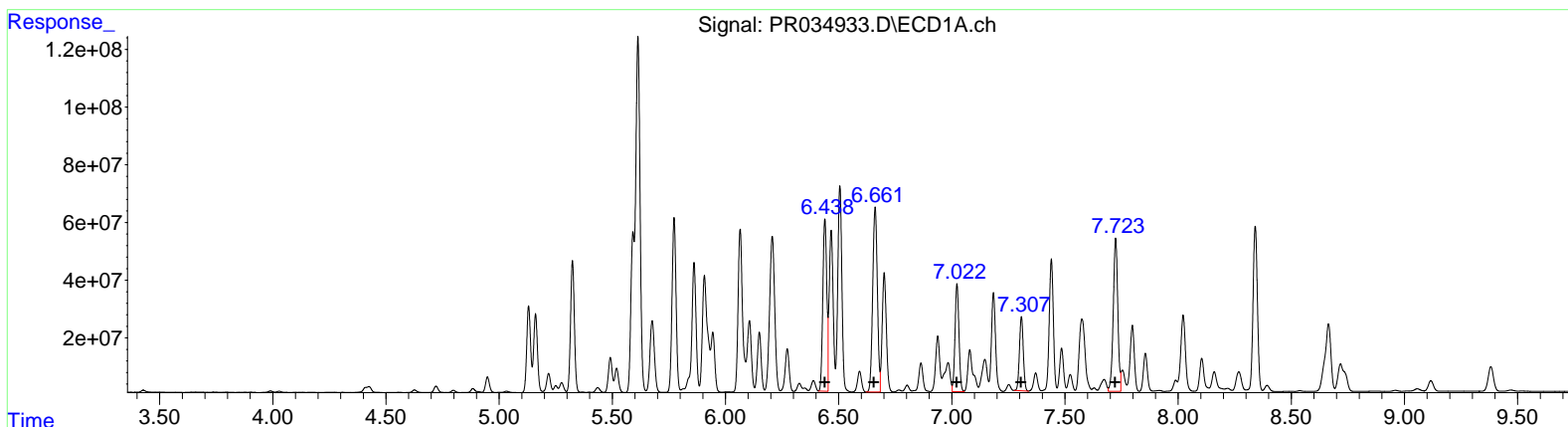
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | |
|---------------------|-----------|---------|
| R.T. | Response | Conc |
| 6.44 | 728328001 | 8914.12 |
| 6.66 | 918026275 | 7184.62 |
| 7.02 | 451269877 | 3343.43 |
| 7.31 | 303759271 | 2863.55 |
| 7.72 | 743747273 | 6941.61 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|------------|---------|
| R.T. | Response | Conc |
| 5.36 | 2272948868 | 9288.96 |
| 5.50 | 851753566 | 4004.68 |
| 5.90 | 1608856392 | 4502.59 |
| 6.12 | 648700558 | 2746.52 |
| 6.53 | 1823036087 | 5715.89 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034938.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 17:46
 Operator : SM\SJ
 Sample : J6431-10
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41X6

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 26475129 | 45505108 | 13.612m | 13.054m |
| 2) SA Decachlor... | 10.112 | 8.409 | 40979103 | 100.1E6 | 20.845 | 22.776 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.571 | 522.8E6 | 1118.4E6 | 10774.156 | 11470.848m |
| 22) L5 AR-1248-2 | 5.861 | 4.802 | 596.1E6 | 1260.6E6 | 9021.870m | 9840.324 |
| 23) L5 AR-1248-3 | 6.065 | 4.843 | 758.4E6 | 1583.2E6 | 10150.579 | 11995.904 |
| 24) L5 AR-1248-4 | 6.467 | 5.011 | 681.8E6 | 1761.2E6 | 7631.506 | 10704.628 # |
| 25) L5 AR-1248-5 | 6.505 | 5.395 | 891.1E6 | 2010.3E6 | 10650.704 | 12012.040 |
| 31) L7 AR-1260-1 | 7.184 | 6.024 | 431.0E6 | 1356.5E6 | 4585.189 | 6310.327 # |
| 32) L7 AR-1260-2 | 7.440 | 6.210 | 578.0E6 | 1374.3E6 | 4978.544 | 5050.209 |
| 33) L7 AR-1260-3 | 7.724 | 6.361 | 743.7E6 | 1171.2E6 | 5329.367 | 4718.033 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 382.1E6 | 680.7E6 | 4424.520 | 3980.727 |
| 35) L7 AR-1260-5 | 8.341 | 7.068 | 757.8E6 | 2112.1E6 | 4196.863 | 4367.127 |
| ----- | | | | | | |

SJ
 12/28/18

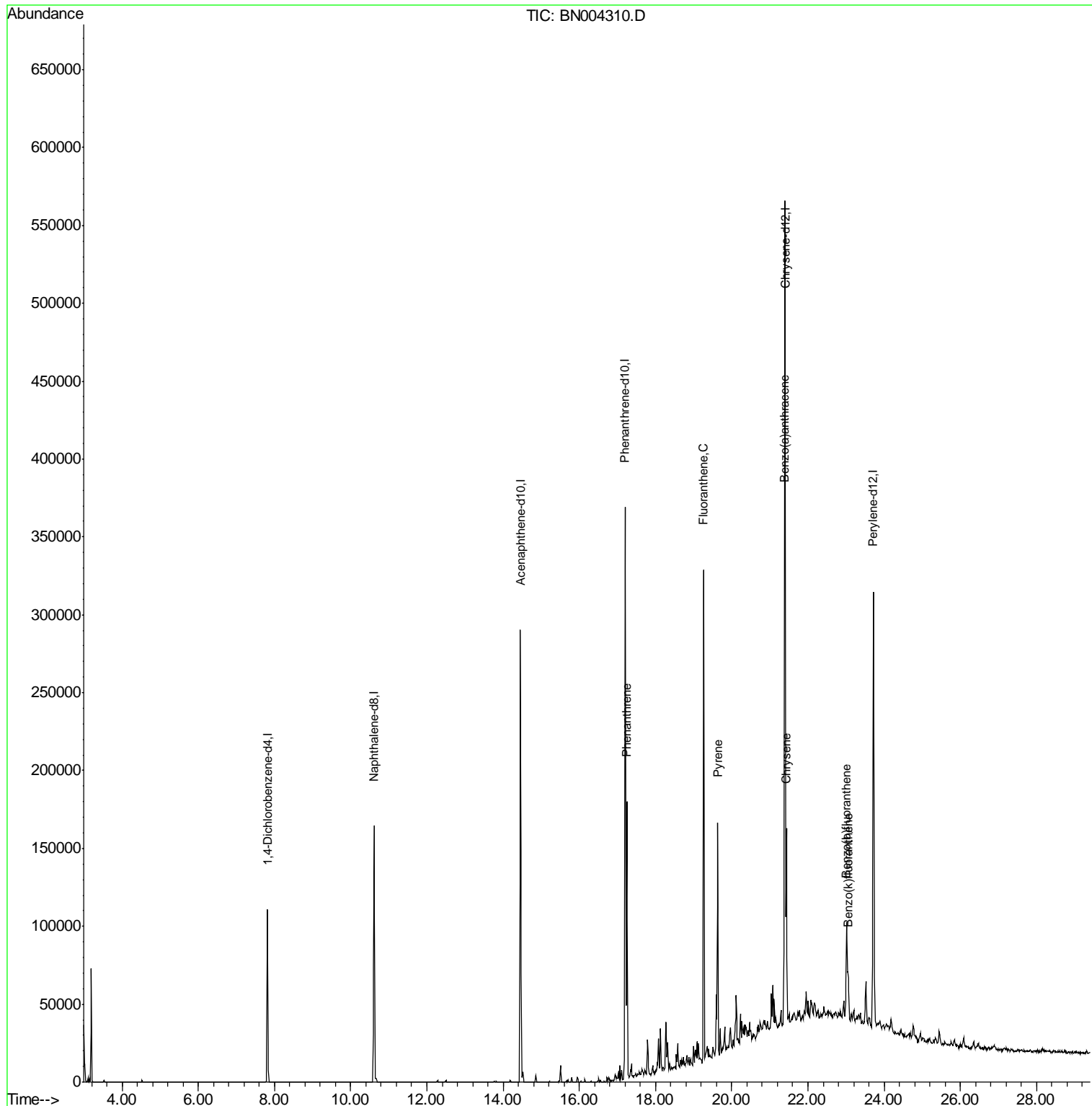
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

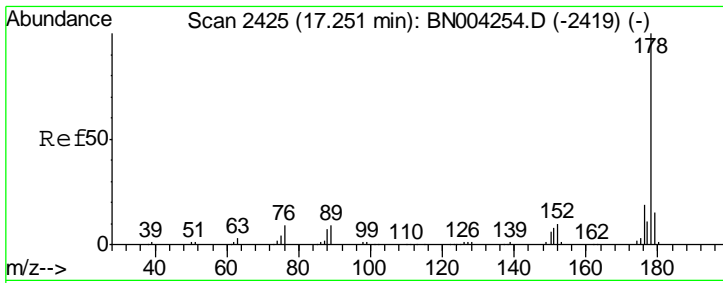
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004310.D
 Acq On : 02 Jan 2019 14:35
 Operator : JU/SJ
 Sample : J6431-10
 Misc : GCMS Confirmation
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41X6

Manual Integrations
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 Sohil
 1/2/2019 4:47:36 PM

Quant Time: Jan 02 15:54:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





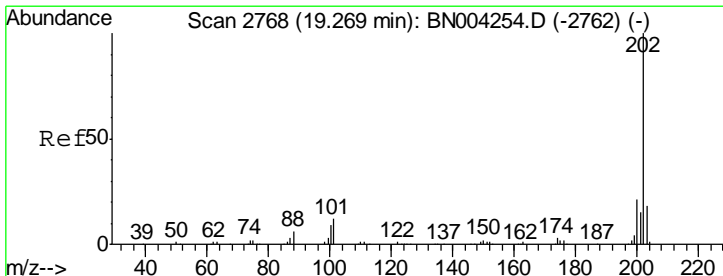
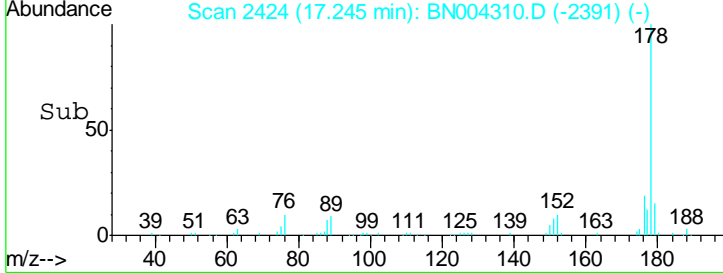
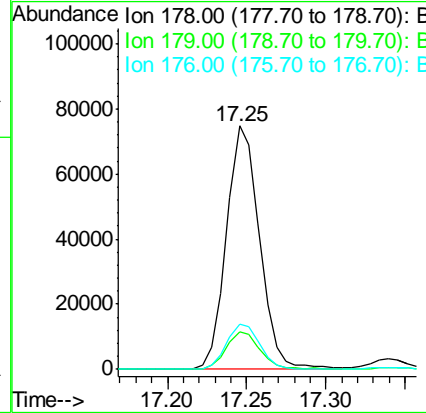
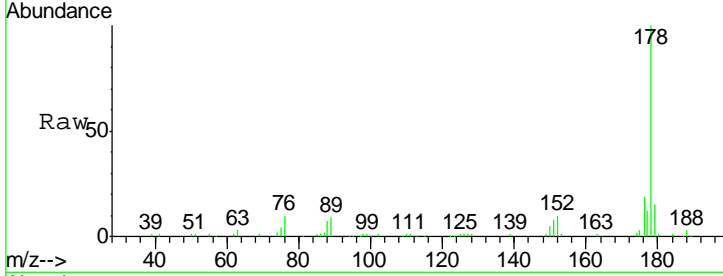
#69
 Phenanthrene
 Concen: 8.434 ng/ul
 RT: 17.25 min Scan# 2424
 Delta R.T. -0.01 min
 Lab File: BN004310.D
 Acq: 02 Jan 2019 14:35

Instrument :
 BNA_N
 ClientSampled :
 A41X6

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 178 | 108631 | | |
| 179 | 15.3 | 12.1 | 18.1 |
| 176 | 18.8 | 15.0 | 22.6 |

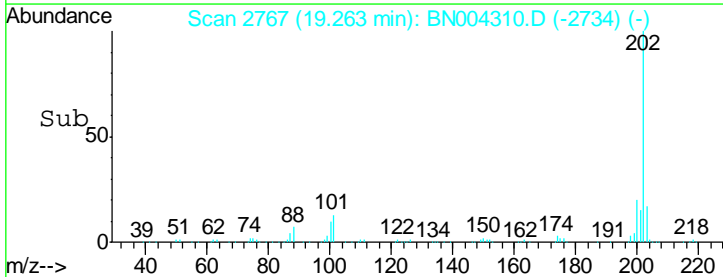
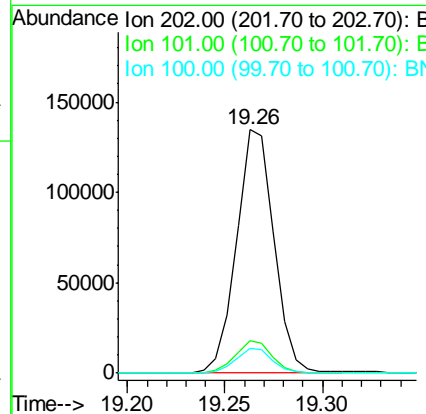
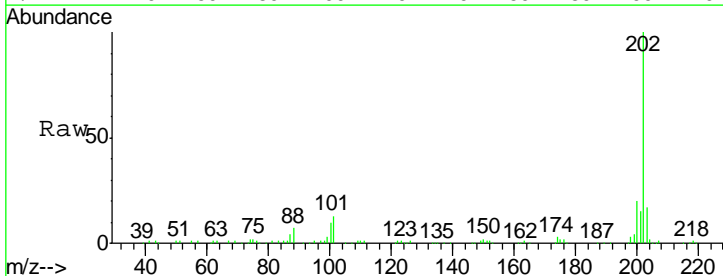
Manual Integrations
 APPROVED

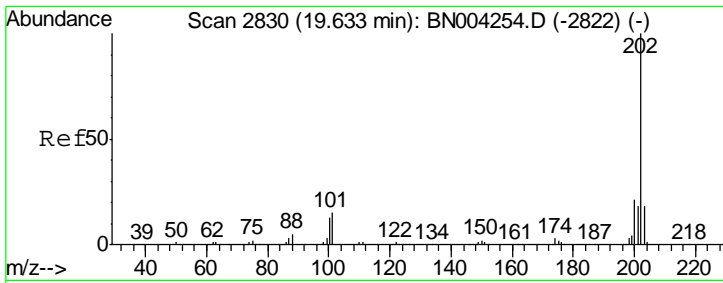
Sohil
 1/2/2019 4:47:36 PM



#76
 Fluoranthene
 Concen: 11.383 ng/ul
 RT: 19.26 min Scan# 2767
 Delta R.T. -0.01 min
 Lab File: BN004310.D
 Acq: 02 Jan 2019 14:35

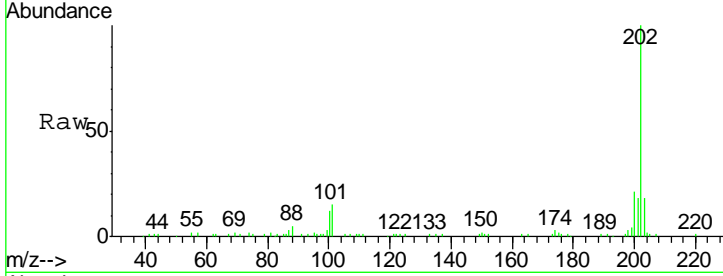
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 202 | 179721 | | |
| 101 | 13.2 | 10.2 | 15.2 |
| 100 | 10.0 | 7.8 | 11.8 |





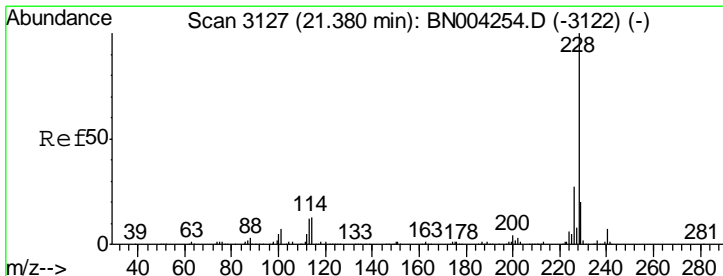
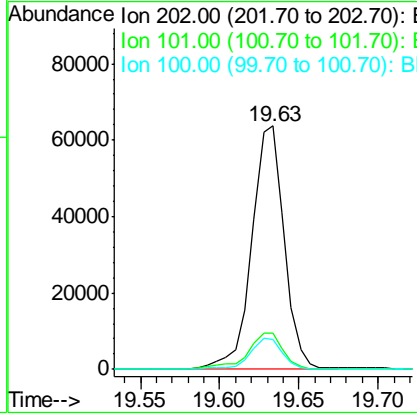
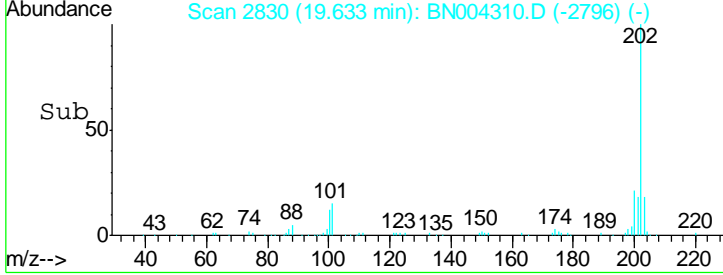
#79
 Pyrene
 Concen: 7.275 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. 0.00 min
 Lab File: BN004310.D
 Acq: 02 Jan 2019 14:35

Instrument :
 BNA_N
 ClientSampled :
 A41X6



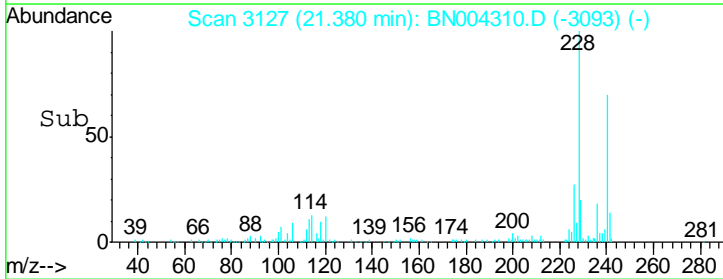
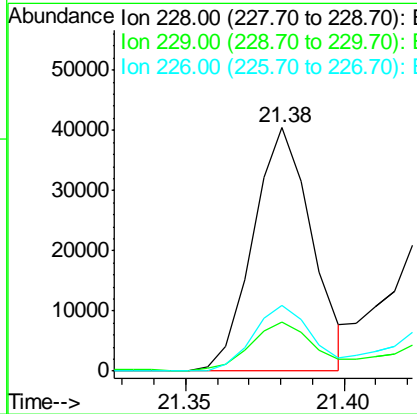
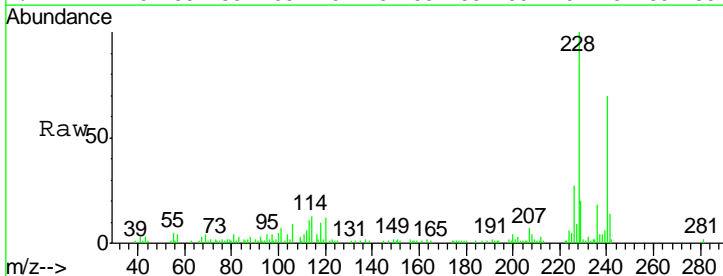
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 202 | 90923 | | |
| 101 | 14.9 | 12.2 | 18.2 |
| 100 | 12.5 | 9.9 | 14.9 |

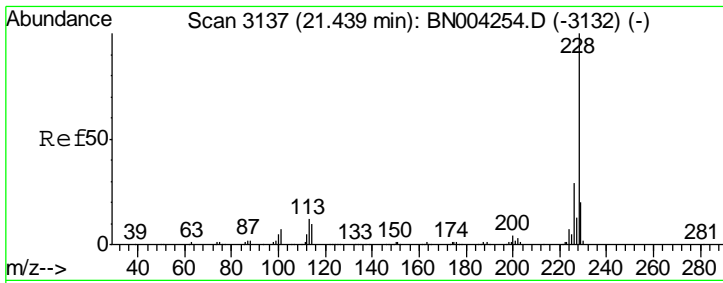
Manual Integrations
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 1/2/2019 4:47:36 PM



#82
 Benzo(a)anthracene
 Concen: 3.758 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. 0.00 min
 Lab File: BN004310.D
 Acq: 02 Jan 2019 14:35

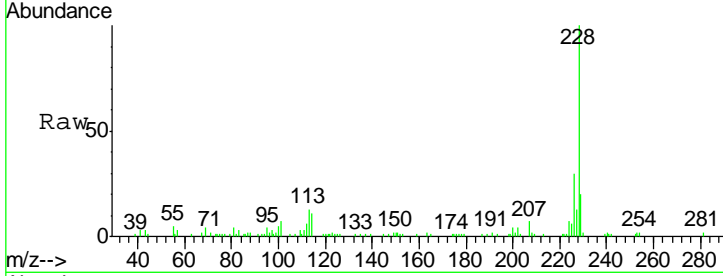
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 228 | 52426 | | |
| 229 | 20.2 | 15.9 | 23.9 |
| 226 | 26.7 | 21.4 | 32.2 |





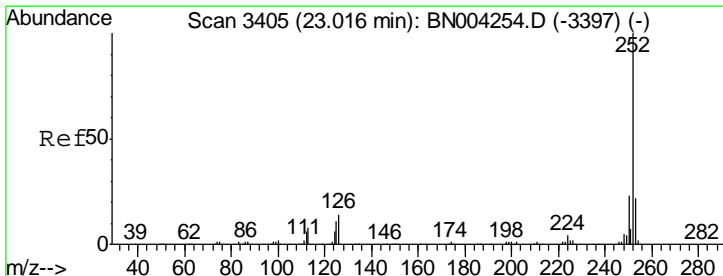
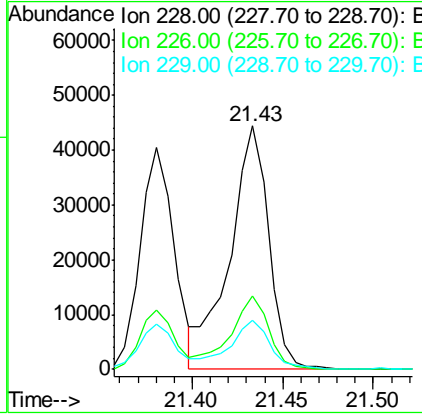
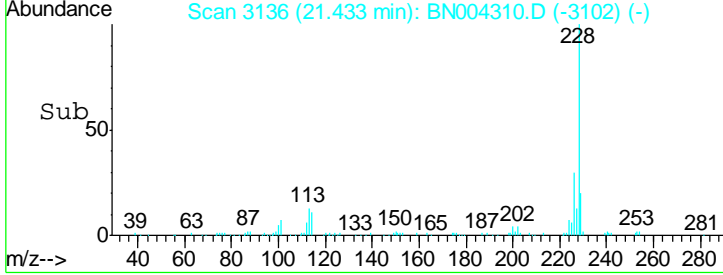
#84
 Chrysene
 Concen: 5.108 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. 0.00 min
 Lab File: BN004310.D
 Acq: 02 Jan 2019 14:35

Instrument :
 BNA_N
 ClientSampled :
 A41X6

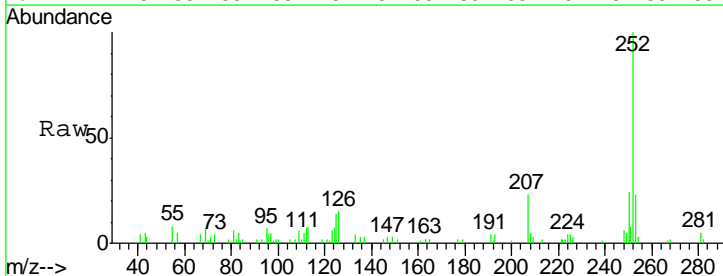


| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 228 | 100 | | |
| 226 | 30.3 | 23.8 | 35.8 |
| 229 | 20.2 | 15.8 | 23.6 |

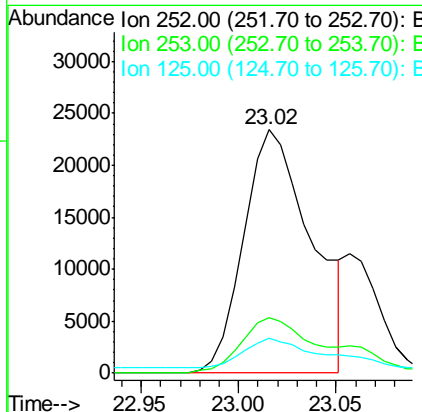
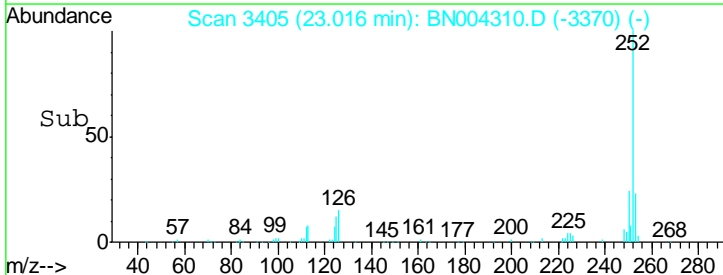
Manual Integrations
 APPROVED
 Sohil
 1/2/2019 4:47:36 PM

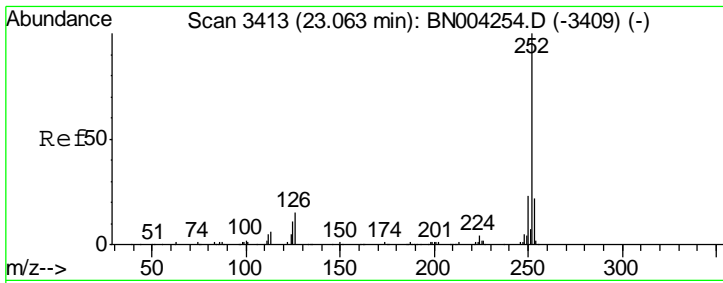


#87
 Benzo(b)fluoranthene
 Concen: 4.544 ng/ul
 RT: 23.02 min Scan# 3405
 Delta R.T. 0.01 min
 Lab File: BN004310.D
 Acq: 02 Jan 2019 14:35



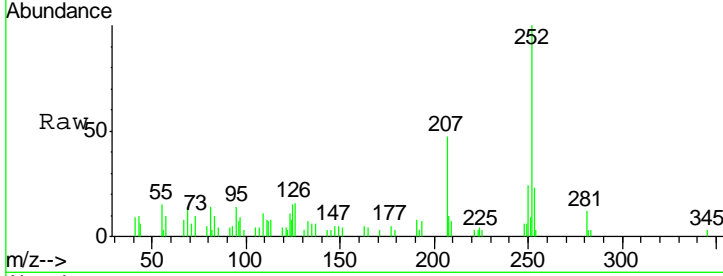
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.6 | 17.3 | 25.9 |
| 125 | 14.3 | 8.2 | 12.4# |





#88
 Benzo(k)fluoranthene
 Concen: 1.230 ng/ul m
 RT: 23.06 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: BN004310.D
 Acq: 02 Jan 2019 14:35

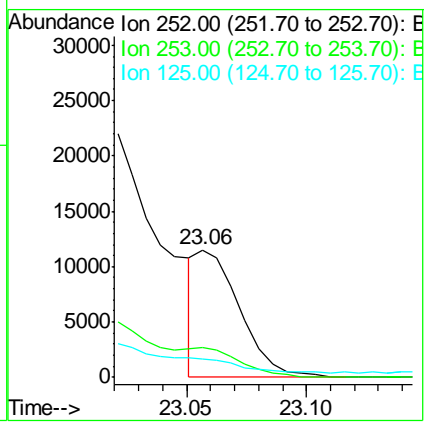
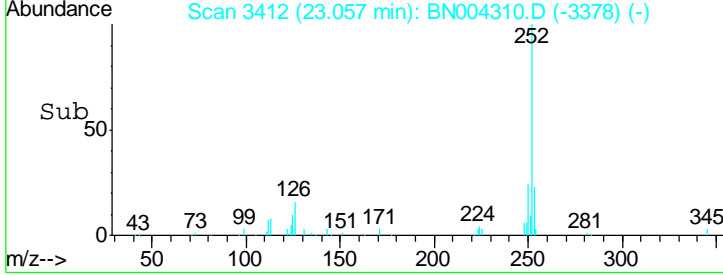
Instrument :
 BNA_N
ClientSampled :
 A41X6



Tgt Ion: 252 Resp: 14313

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100 | | |
| 253 | 23.1 | 17.1 | 25.7 |
| 125 | 14.7 | 7.9 | 11.9 |

Manual Integrations
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 Sohil
 1/2/2019 4:47:36 PM



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004310.D
 Acq On : 02 Jan 2019 14:35
 Operator : JU/SJ
 Sample : J6431-10
 Misc : GCMS Confirmation
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41X6

Manual Integrations
 APPROVED

Sohil
 1/2/2019 4:47:36 PM

Quant Time: Jan 02 15:54:41 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 31952 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.61 | 136 | 146056 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 97239 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 222931 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.40 | 240 | 223697 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 207536 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|--------------------------|-------|-----|--------|--------------|--------|
| 69) Phenanthrene | 17.25 | 178 | 108631 | 8.434 ng/ul | 100 |
| 76) Fluoranthene | 19.26 | 202 | 179721 | 11.383 ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 90923 | 7.275 ng/ul | 100 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 52426 | 3.758 ng/ul | 100 |
| 84) Chrysene | 21.43 | 228 | 66740 | 5.108 ng/ul | 99 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 56487 | 4.544 ng/ul# | 95 |
| 88) Benzo(k)fluoranthene | 23.06 | 252 | 14313m | 1.230 ng/ul | |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004310.D
 Acq On : 02 Jan 2019 14:35
 Operator : JU/SJ
 Sample : J6431-10
 Misc : GCMS Confirmation
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41X6

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 41 | rVB | 73038 | 81256 | 9.91% | 1.732% |
| 2 | 7.816 | 815 | 821 | 829 | rBB | 110727 | 167404 | 20.42% | 3.567% |
| 3 | 10.610 | 1290 | 1296 | 1303 | rBV | 164777 | 270425 | 32.98% | 5.763% |
| 4 | 14.457 | 1944 | 1950 | 1957 | rBV2 | 290363 | 428573 | 52.27% | 9.133% |
| 5 | 14.522 | 1957 | 1961 | 1966 | rVB | 6329 | 9995 | 1.22% | 0.213% |
| 6 | 15.510 | 2124 | 2129 | 2134 | rBB | 10427 | 14738 | 1.80% | 0.314% |
| 7 | 17.069 | 2391 | 2394 | 2398 | rBV2 | 8968 | 11521 | 1.41% | 0.246% |
| 8 | 17.204 | 2411 | 2417 | 2421 | rBV | 366971 | 536168 | 65.40% | 11.425% |
| 9 | 17.245 | 2421 | 2424 | 2435 | rVB | 177286 | 248877 | 30.36% | 5.303% |
| 10 | 17.339 | 2435 | 2440 | 2443 | rBV | 5368 | 8393 | 1.02% | 0.179% |
| 11 | 17.369 | 2443 | 2445 | 2448 | rVB2 | 7687 | 8471 | 1.03% | 0.181% |
| 12 | 17.798 | 2512 | 2518 | 2523 | rBV2 | 21966 | 39658 | 4.84% | 0.845% |
| 13 | 17.922 | 2533 | 2539 | 2544 | rBV4 | 5906 | 10267 | 1.25% | 0.219% |
| 14 | 18.075 | 2562 | 2565 | 2570 | rVV | 20875 | 28931 | 3.53% | 0.617% |
| 15 | 18.128 | 2570 | 2574 | 2580 | rVB | 27248 | 36271 | 4.42% | 0.773% |
| 16 | 18.269 | 2593 | 2598 | 2603 | rBV3 | 30308 | 59482 | 7.26% | 1.268% |
| 17 | 18.316 | 2603 | 2606 | 2610 | rVV2 | 17627 | 25387 | 3.10% | 0.541% |
| 18 | 18.545 | 2642 | 2645 | 2648 | rBV | 9758 | 12416 | 1.51% | 0.265% |
| 19 | 18.581 | 2648 | 2651 | 2656 | rVB | 15220 | 21060 | 2.57% | 0.449% |
| 20 | 18.998 | 2717 | 2722 | 2726 | rBV | 12176 | 17867 | 2.18% | 0.381% |
| 21 | 19.039 | 2726 | 2729 | 2731 | rVV2 | 8366 | 10319 | 1.26% | 0.220% |
| 22 | 19.086 | 2734 | 2737 | 2740 | rVV2 | 12591 | 15490 | 1.89% | 0.330% |
| 23 | 19.128 | 2740 | 2744 | 2747 | rVB2 | 10362 | 13309 | 1.62% | 0.284% |
| 24 | 19.263 | 2762 | 2767 | 2773 | rBV | 316352 | 418909 | 51.09% | 8.927% |
| 25 | 19.598 | 2819 | 2824 | 2826 | rBV2 | 38611 | 60540 | 7.38% | 1.290% |
| 26 | 19.633 | 2826 | 2830 | 2837 | rVB | 149442 | 207193 | 25.27% | 4.415% |
| 27 | 19.698 | 2837 | 2841 | 2845 | rBV | 17068 | 21955 | 2.68% | 0.468% |
| 28 | 19.810 | 2857 | 2860 | 2864 | rVB | 15035 | 18965 | 2.31% | 0.404% |
| 29 | 19.969 | 2881 | 2887 | 2892 | rVB2 | 13310 | 27403 | 3.34% | 0.584% |
| 30 | 20.122 | 2903 | 2913 | 2917 | rBV | 32522 | 73234 | 8.93% | 1.561% |
| 31 | 20.222 | 2926 | 2930 | 2934 | rBV | 19086 | 27168 | 3.31% | 0.579% |
| 32 | 20.263 | 2935 | 2937 | 2944 | rVB2 | 9407 | 16920 | 2.06% | 0.361% |
| 33 | 21.039 | 3066 | 3069 | 3072 | rBV | 19389 | 23384 | 2.85% | 0.498% |
| 34 | 21.075 | 3072 | 3075 | 3079 | rVV | 24467 | 29267 | 3.57% | 0.624% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004310.D
Acq On : 02 Jan 2019 14:35
Operator : JU/SJ
Sample : J6431-10
Misc : GCMS Confirmation
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41X6

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|--------|---------|---------|
| 35 | 21.116 | 3079 | 3082 | 3086 | rVB | 15258 | 17574 | 2.14% | 0.374% |
| 36 | 21.398 | 3122 | 3130 | 3134 | rBV2 | 526966 | 819870 | 100.00% | 17.471% |
| 37 | 21.433 | 3134 | 3136 | 3142 | rVB | 121997 | 133627 | 16.30% | 2.848% |
| 38 | 23.016 | 3400 | 3405 | 3410 | rBV | 58014 | 121123 | 14.77% | 2.581% |
| 39 | 23.521 | 3486 | 3491 | 3499 | rVB4 | 26938 | 51480 | 6.28% | 1.097% |
| 40 | 23.716 | 3517 | 3524 | 3536 | rBV2 | 278585 | 547844 | 66.82% | 11.674% |

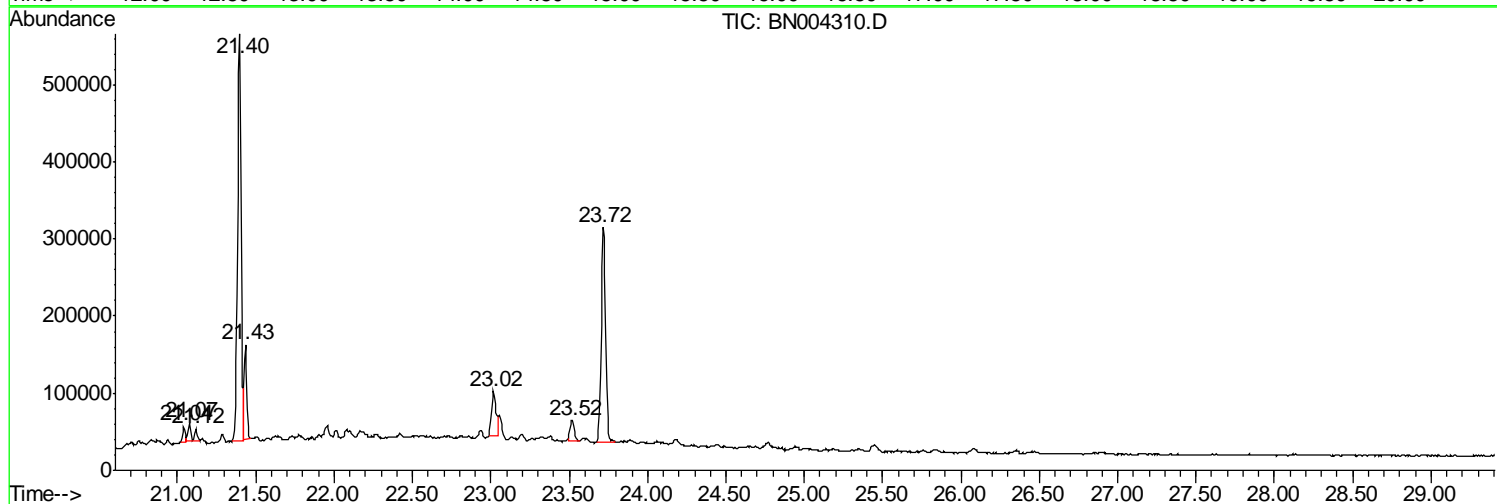
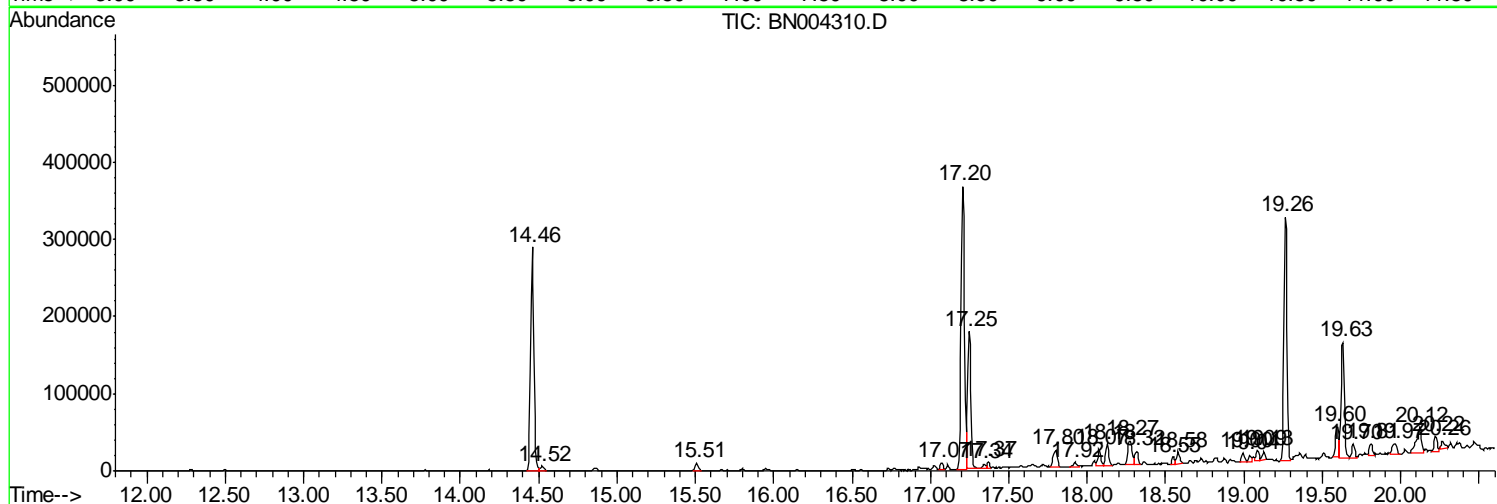
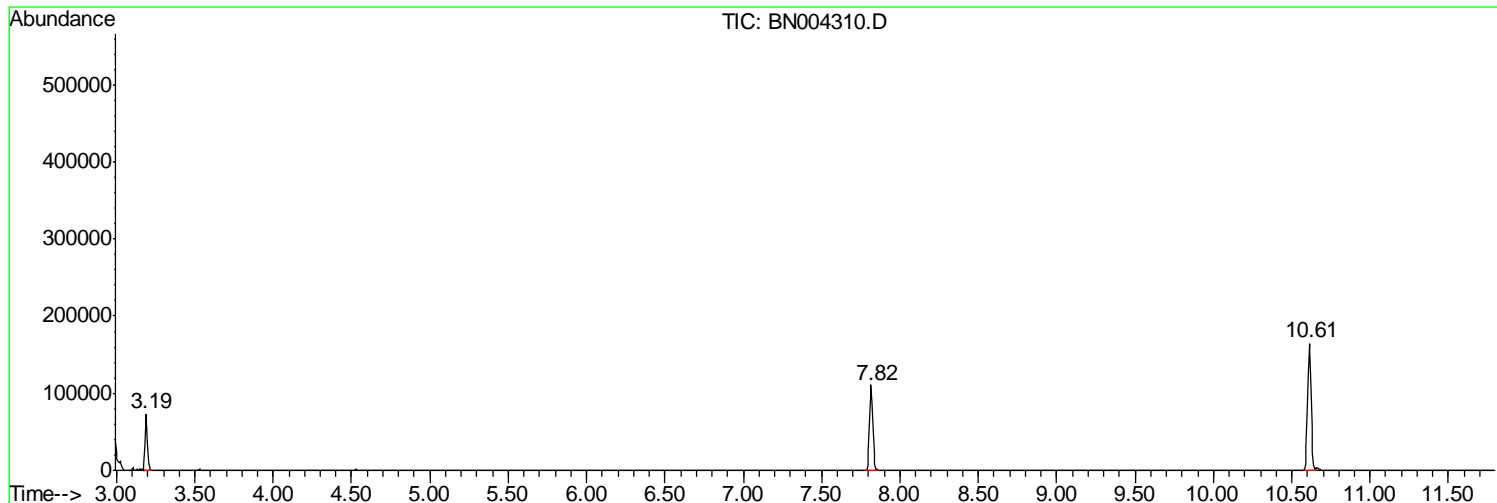
Sum of corrected areas: 4692734

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004310.D
 Acq On : 02 Jan 2019 14:35
 Operator : JU/SJ
 Sample : J6431-10
 Misc : GCMS Confirmation
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41X6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004310.D
 Acq On : 02 Jan 2019 14:35
 Operator : JU/SJ
 Sample : J6431-10
 Misc : GCMS Confirmation
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41X6

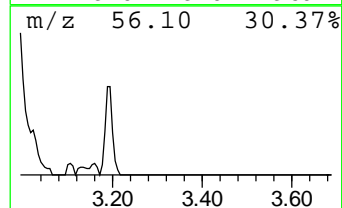
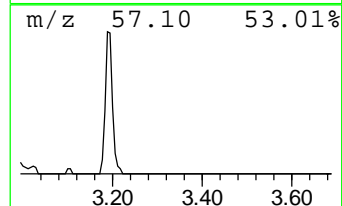
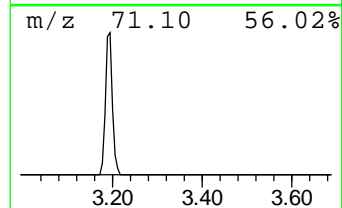
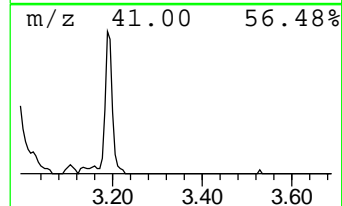
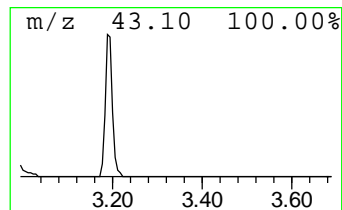
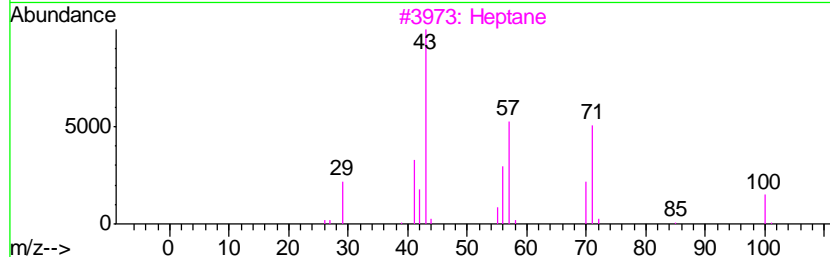
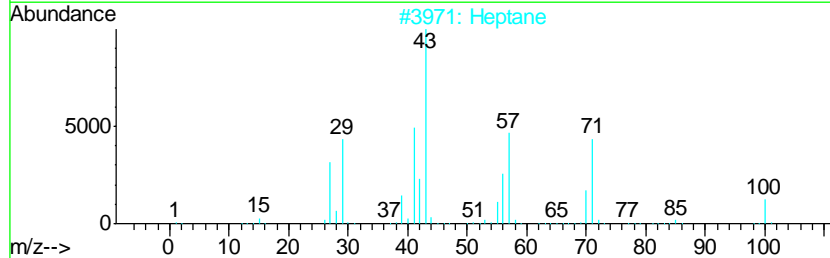
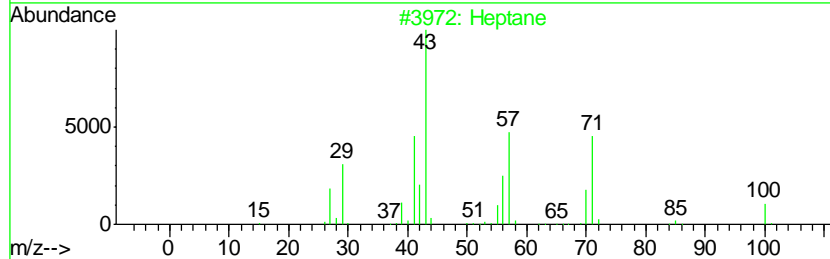
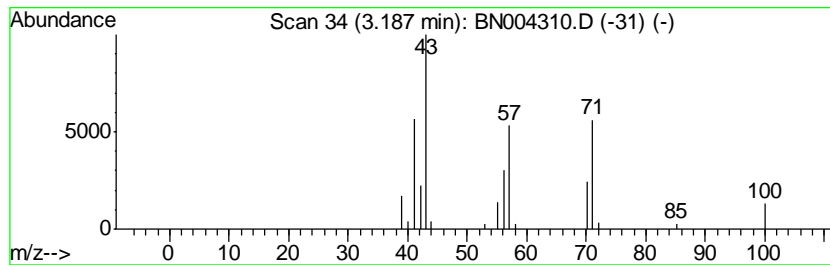
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 3.19 | 9.71 ng/ul | 81256 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004310.D
 Acq On : 02 Jan 2019 14:35
 Operator : JU/SJ
 Sample : J6431-10
 Misc : GCMS Confirmation
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41X6

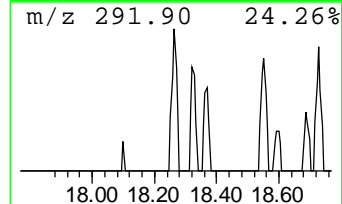
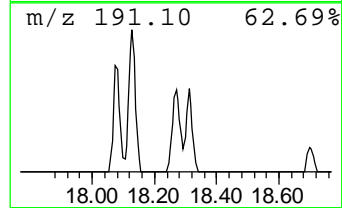
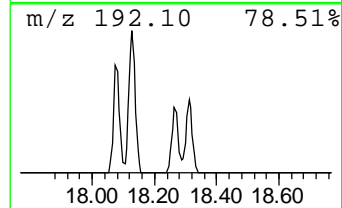
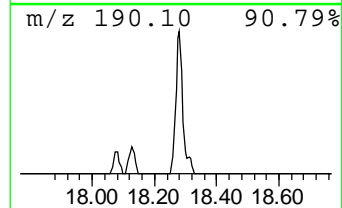
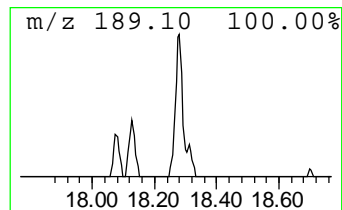
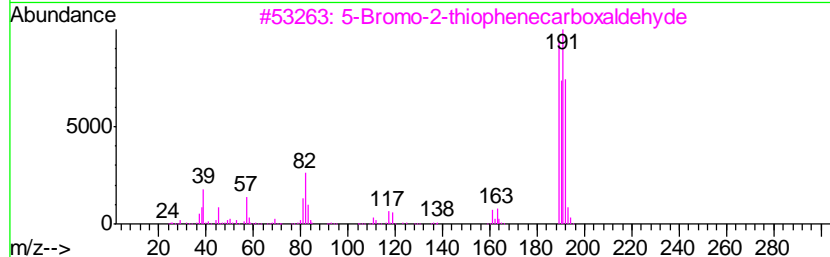
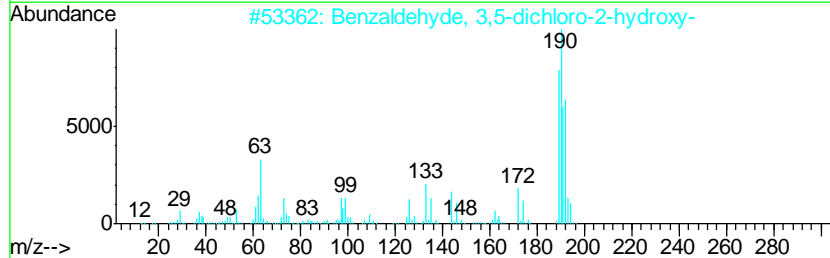
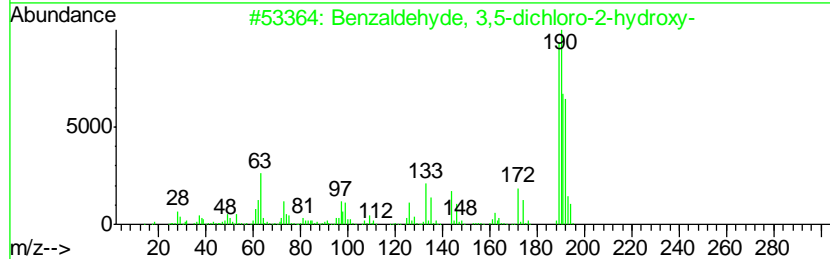
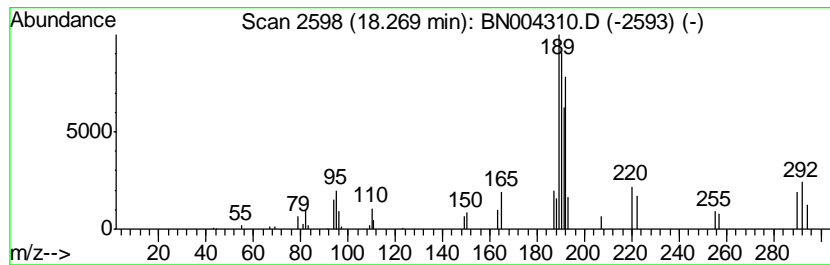
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 Benzaldehyde, 3,5-dichloro-... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.27 | 2.22 ng/ul | 59482 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1 | 5 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 64 |
| 2 | | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 64 |
| 3 | | 5-Bromo-2-thiophenecarboxaldehyde | 190 | C5H3BrOS | 004701-17-1 | 50 |
| 4 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 43 |
| 5 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004310.D
Acq On : 02 Jan 2019 14:35
Operator : JU/SJ
Sample : J6431-10
Misc : GCMS Confirmation
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41X6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 9.7 | ng/ul | 81256 | 1 | 7.82 | 167404 | 20.0 |
| Benzaldehyde, 3,5... | 18.27 | 2.2 | ng/ul | 59482 | 4 | 17.20 | 536168 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X6DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-10DL
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034985.D
 % Solids : 76.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 2.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 87 | U |
| 11104-28-2 | Aroclor-1221 | 87 | U |
| 11141-16-5 | Aroclor-1232 | 87 | U |
| 53469-21-9 | Aroclor-1242 | 87 | U |
| 12672-29-6 | Aroclor-1248 | 4600 | ED |
| 11097-69-1 | Aroclor-1254 | 87 | U |
| 11096-82-5 | Aroclor-1260 | 2300 | ED |
| 37324-23-5 | Aroclor-1262 | 87 | U |
| 11100-14-4 | Aroclor-1268 | 87 | U |

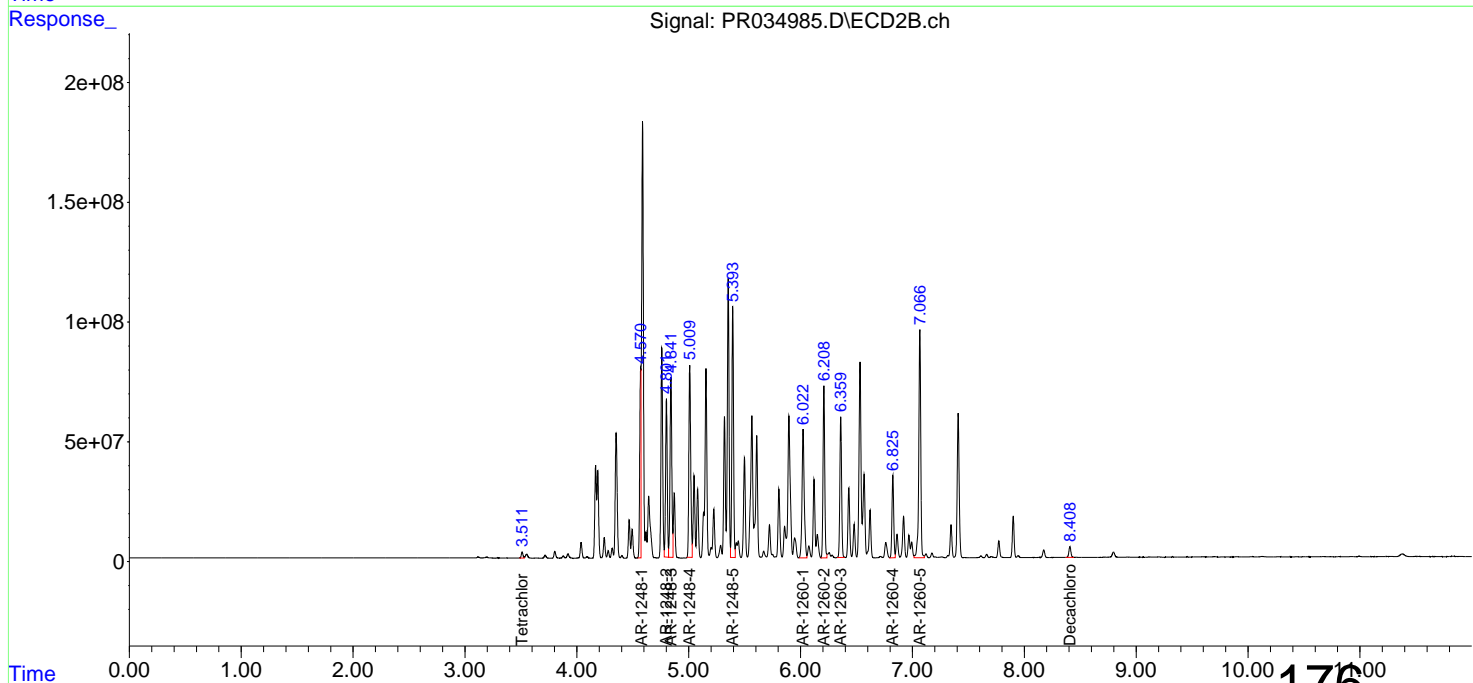
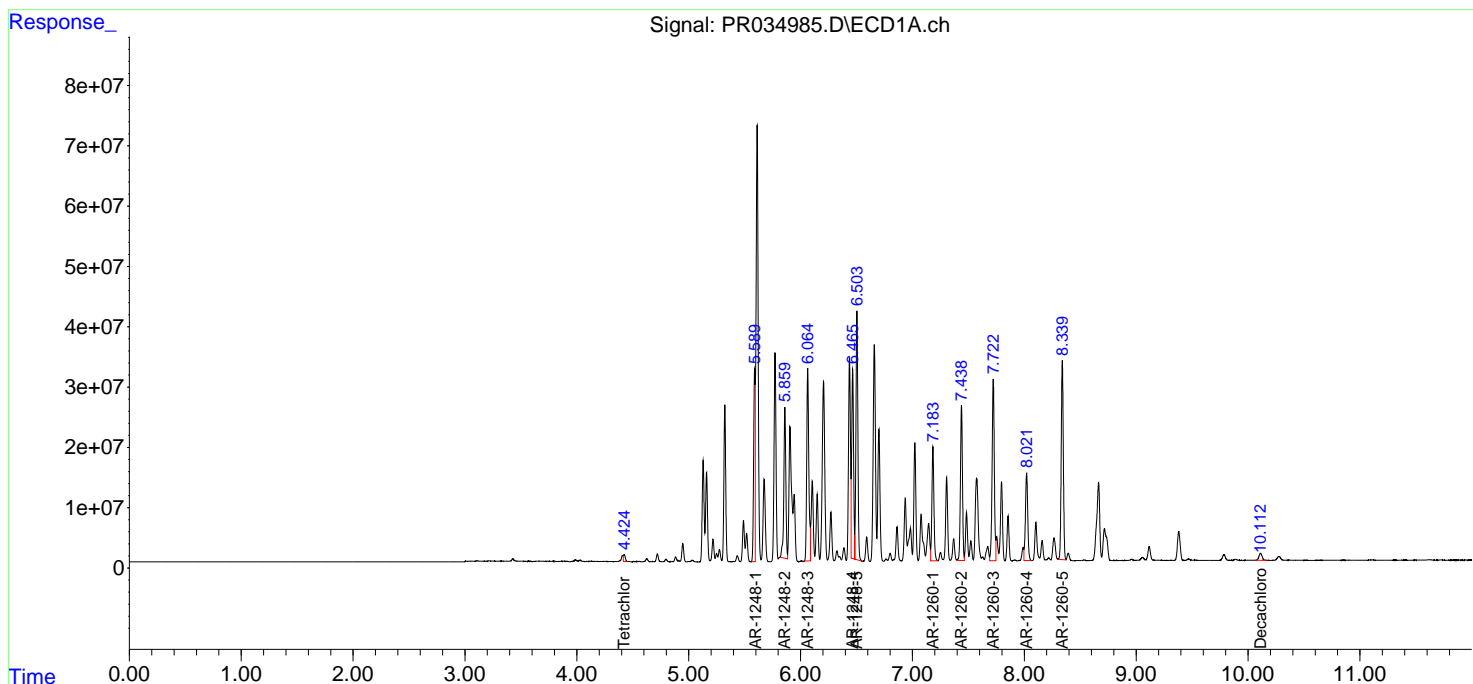
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034985.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:34
 Operator : SM\SJ
 Sample : J6431-10DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41X6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:04 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:08:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034985.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:34
 Operator : SM\SJ
 Sample : J6431-10DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleID :
 A41X6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:04 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:08:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.424 | 3.511 | 12925849 | 26388827 | 6.646m | 7.570 |
| 2) SA Decachlor... | 10.112 | 8.408 | 22894082 | 55976656 | 11.645 | 12.732 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.570 | 294.1E6 | 597.2E6 | 6060.902 | 6124.757m |
| 22) L5 AR-1248-2 | 5.860 | 4.801 | 311.8E6 | 674.9E6 | 4719.429 | 5268.167 |
| 23) L5 AR-1248-3 | 6.064 | 4.841 | 415.7E6 | 838.4E6 | 5563.982 | 6352.732 |
| 24) L5 AR-1248-4 | 6.466 | 5.009 | 371.8E6 | 922.3E6 | 4161.766 | 5605.526 # |
| 25) L5 AR-1248-5 | 6.504 | 5.394 | 494.6E6 | 1083.3E6 | 5912.026 | 6473.238 |
| 31) L7 AR-1260-1 | 7.184 | 6.023 | 236.4E6 | 733.0E6 | 2515.109 | 3409.938 # |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 321.8E6 | 758.5E6 | 2771.421 | 2787.234 |
| 33) L7 AR-1260-3 | 7.723 | 6.359 | 411.5E6 | 637.5E6 | 2948.615 | 2567.961 |
| 34) L7 AR-1260-4 | 8.021 | 6.825 | 211.7E6 | 372.5E6 | 2451.646 | 2178.445 |
| 35) L7 AR-1260-5 | 8.340 | 7.067 | 431.5E6 | 1163.9E6 | 2390.145 | 2406.478 |

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

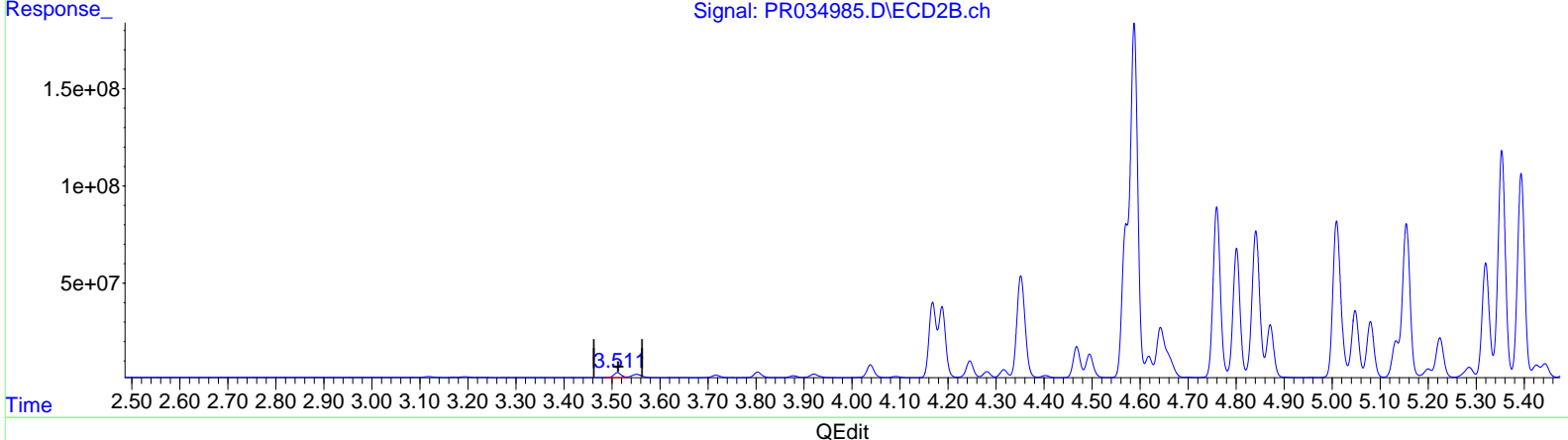
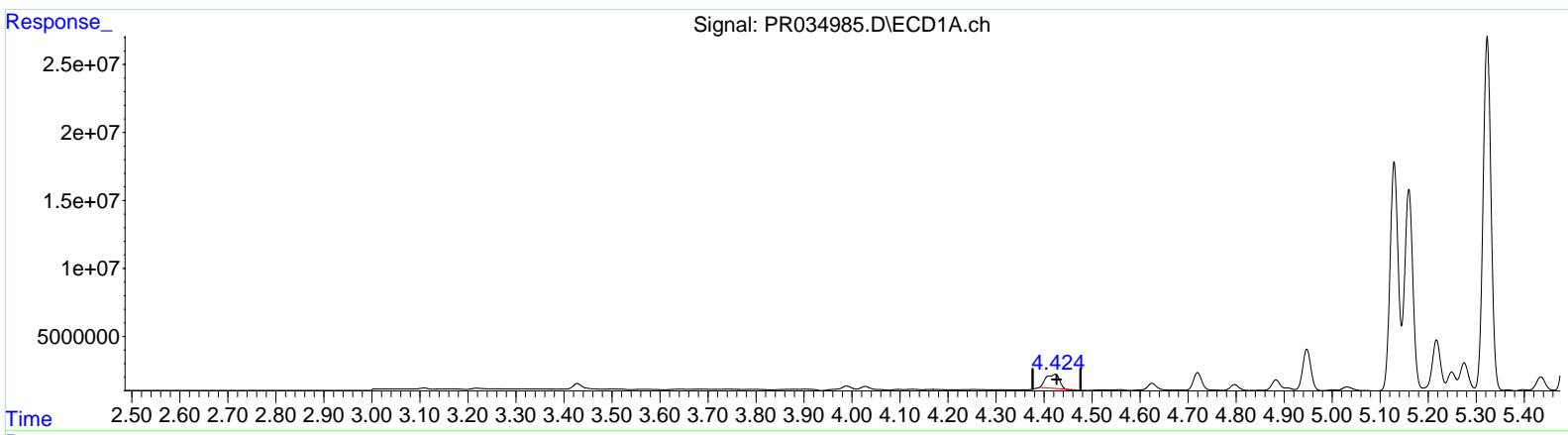
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 Data File : PR034985.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:34
 Operator : SM\SJ
 Sample : J64631-10DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:04 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:08:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.424min 10.031 ng/ml
 response 19510697

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 7.570 ng/ml
 response 26388827

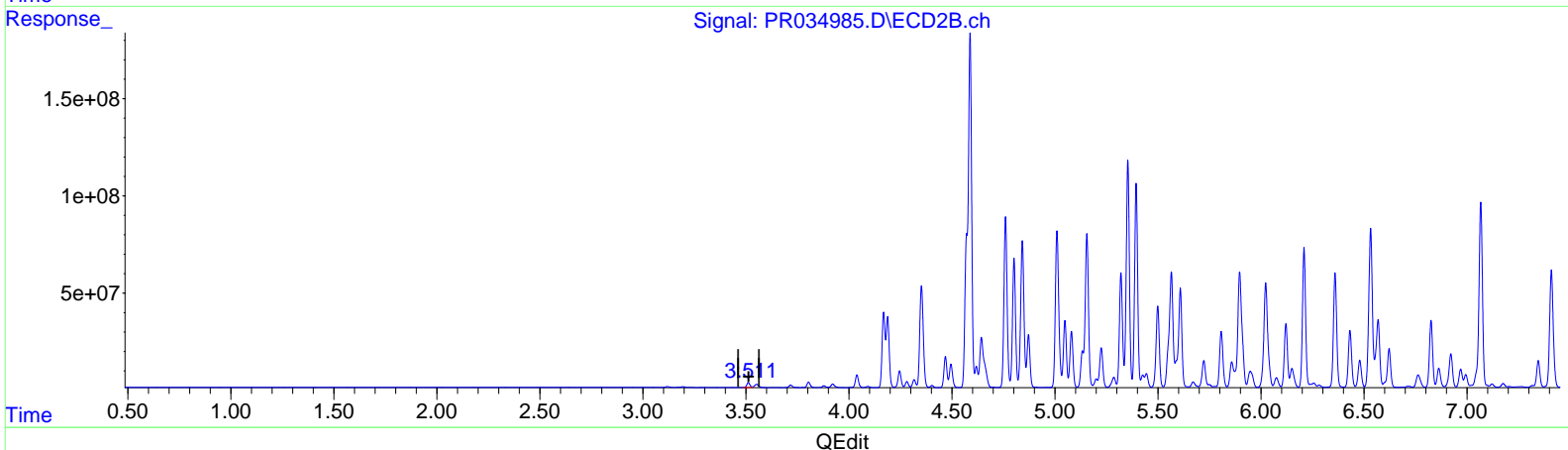
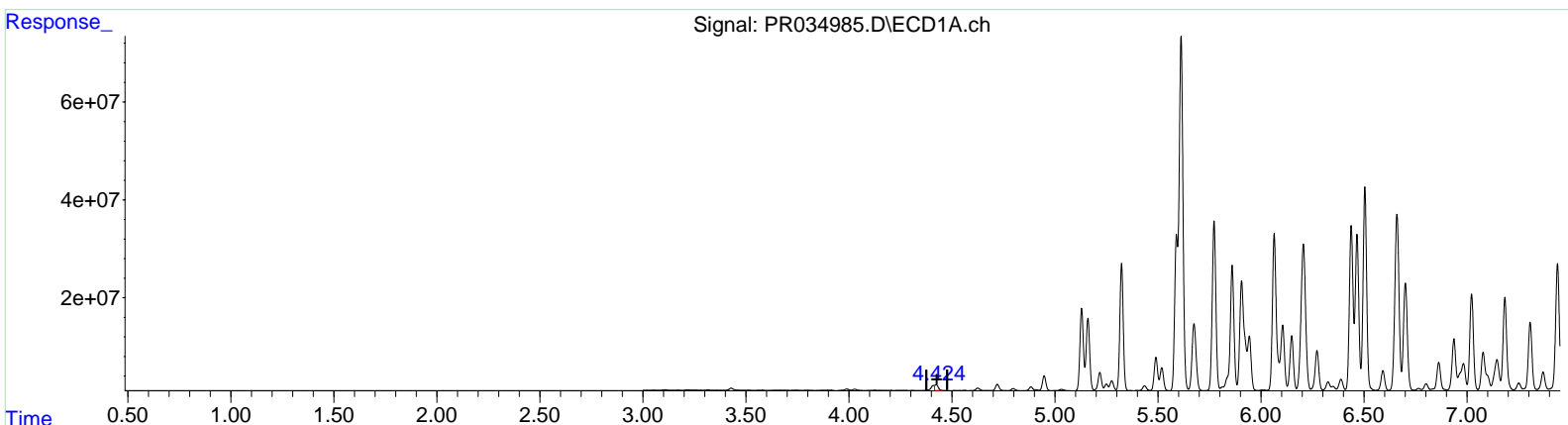
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 Data File : PR034985.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:34
 Operator : SM\SJ
 Sample : J64631-10DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:04 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:08:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.424min 6.646 ng/ml m
 response 12925849

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 7.570 ng/ml
 response 26388827

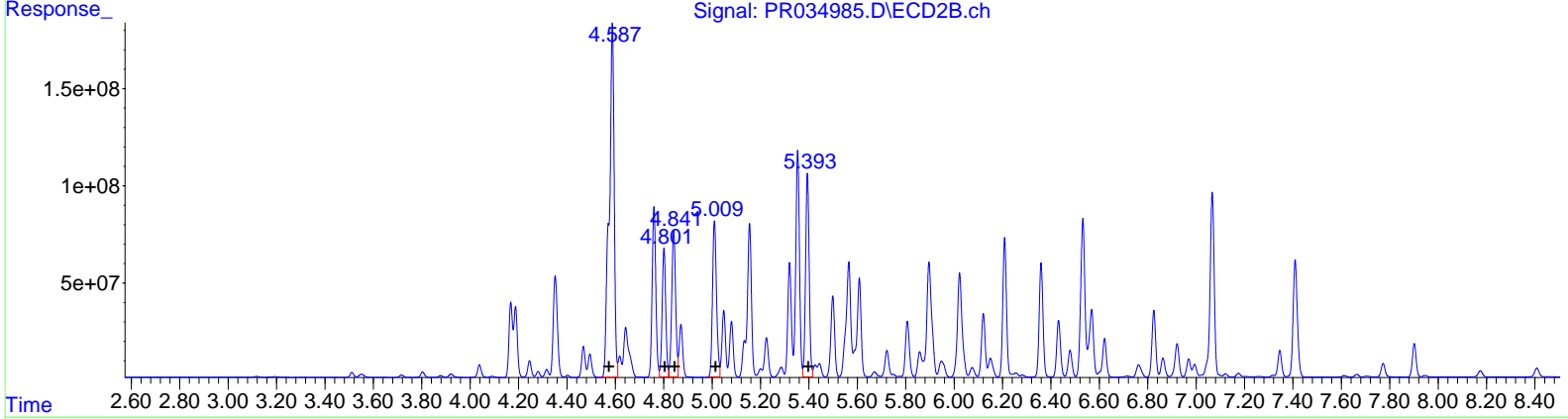
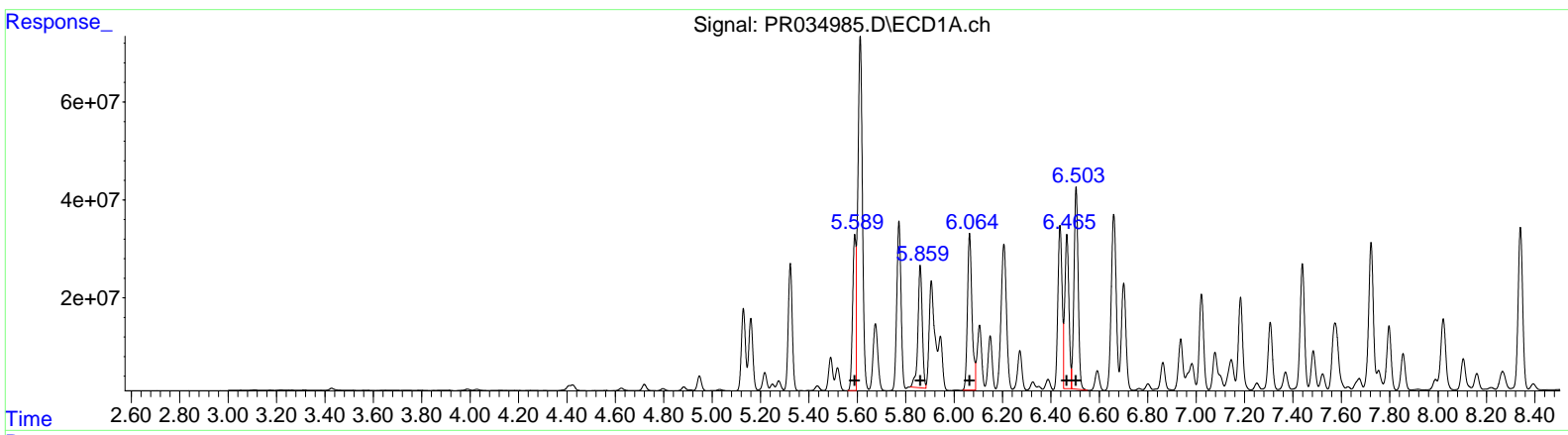
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 Data File : PR034985.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:34
 Operator : SM\SJ
 Sample : J64631-10DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:04 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:08:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 294090916 | 6060.90 |
| 5.86 | 311829221 | 4719.43 |
| 6.06 | 415712438 | 5563.98 |
| 6.47 | 371836900 | 4161.77 |
| 6.50 | 494648799 | 5912.03 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.59 | 2620244444 | 26873.84 |
| 4.80 | 674864832 | 5268.17 |
| 4.84 | 838415637 | 6352.73 |
| 5.01 | 922278891 | 5605.53 |
| 5.39 | 1083333217 | 6473.24 |

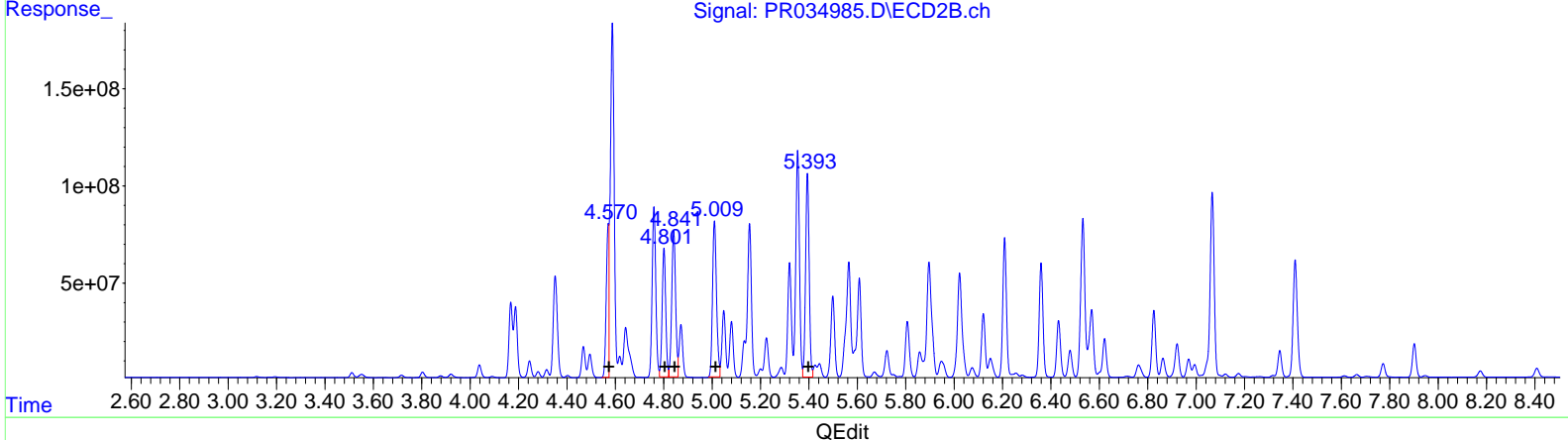
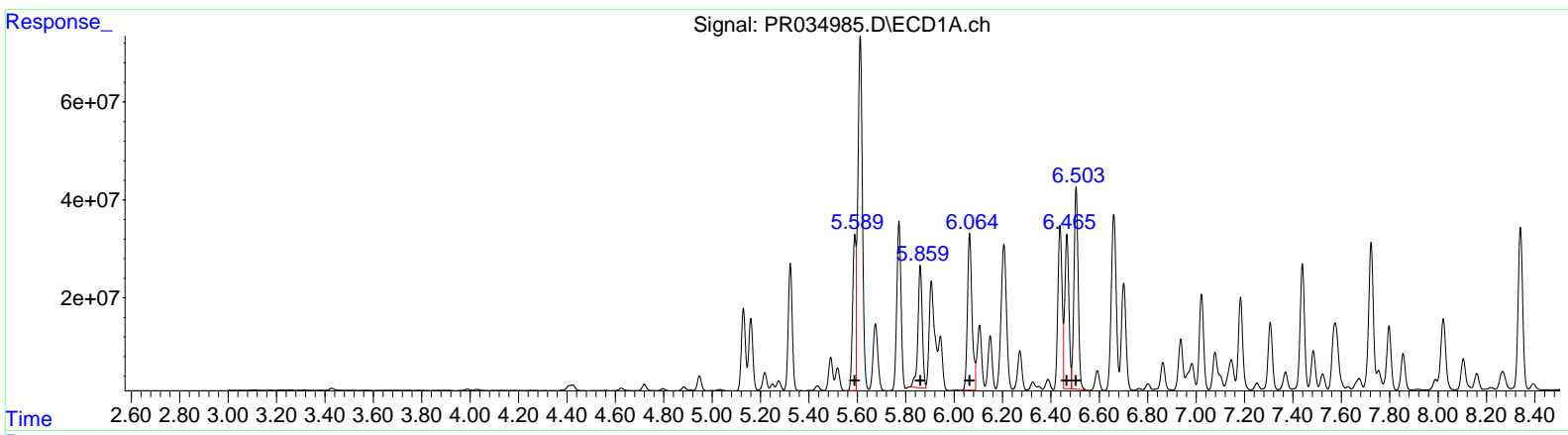
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034985.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:34
 Operator : SM\SJ
 Sample : J64631-10DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6DL

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:04 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:08:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 294090916 | 6060.90 |
| 5.86 | 311829221 | 4719.43 |
| 6.06 | 415712438 | 5563.98 |
| 6.47 | 371836900 | 4161.77 |
| 6.50 | 494648799 | 5912.03 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|------------|---------|
| R.T. | Response | Conc |
| 4.57 | 597174124 | 6124.76 |
| 4.80 | 674864832 | 5268.17 |
| 4.84 | 838415637 | 6352.73 |
| 5.01 | 922278891 | 5605.53 |
| 5.39 | 1083333217 | 6473.24 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034985.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:34
 Operator : SM\SJ
 Sample : J6431-10DL 2X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41X6DL

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:14:04 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:08:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.424 | 3.511 | 12925849 | 26388827 | 6.646m | 7.570 |
| 2) SA Decachlor... | 10.112 | 8.408 | 22894082 | 55976656 | 11.645 | 12.732 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.570 | 294.1E6 | 597.2E6 | 6060.902 | 6124.757m |
| 22) L5 AR-1248-2 | 5.860 | 4.801 | 311.8E6 | 674.9E6 | 4719.429 | 5268.167 |
| 23) L5 AR-1248-3 | 6.064 | 4.841 | 415.7E6 | 838.4E6 | 5563.982 | 6352.732 |
| 24) L5 AR-1248-4 | 6.466 | 5.009 | 371.8E6 | 922.3E6 | 4161.766 | 5605.526 # |
| 25) L5 AR-1248-5 | 6.504 | 5.394 | 494.6E6 | 1083.3E6 | 5912.026 | 6473.238 |
| 31) L7 AR-1260-1 | 7.184 | 6.023 | 236.4E6 | 733.0E6 | 2515.109 | 3409.938 # |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 321.8E6 | 758.5E6 | 2771.421 | 2787.234 |
| 33) L7 AR-1260-3 | 7.723 | 6.359 | 411.5E6 | 637.5E6 | 2948.615 | 2567.961 |
| 34) L7 AR-1260-4 | 8.021 | 6.825 | 211.7E6 | 372.5E6 | 2451.646 | 2178.445 |
| 35) L7 AR-1260-5 | 8.340 | 7.067 | 431.5E6 | 1163.9E6 | 2390.145 | 2406.478 |
| ----- | | | | | | |

} SS
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X6DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-10DL2
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034986.D
 % Solids : 76.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 20.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 870 | U |
| 11104-28-2 | Aroclor-1221 | 870 | U |
| 11141-16-5 | Aroclor-1232 | 870 | U |
| 53469-21-9 | Aroclor-1242 | 870 | U |
| 12672-29-6 | Aroclor-1248 | 5900 | D |
| 11097-69-1 | Aroclor-1254 | 870 | U |
| 11096-82-5 | Aroclor-1260 | 2800 | D |
| 37324-23-5 | Aroclor-1262 | 870 | U |
| 11100-14-4 | Aroclor-1268 | 870 | U |

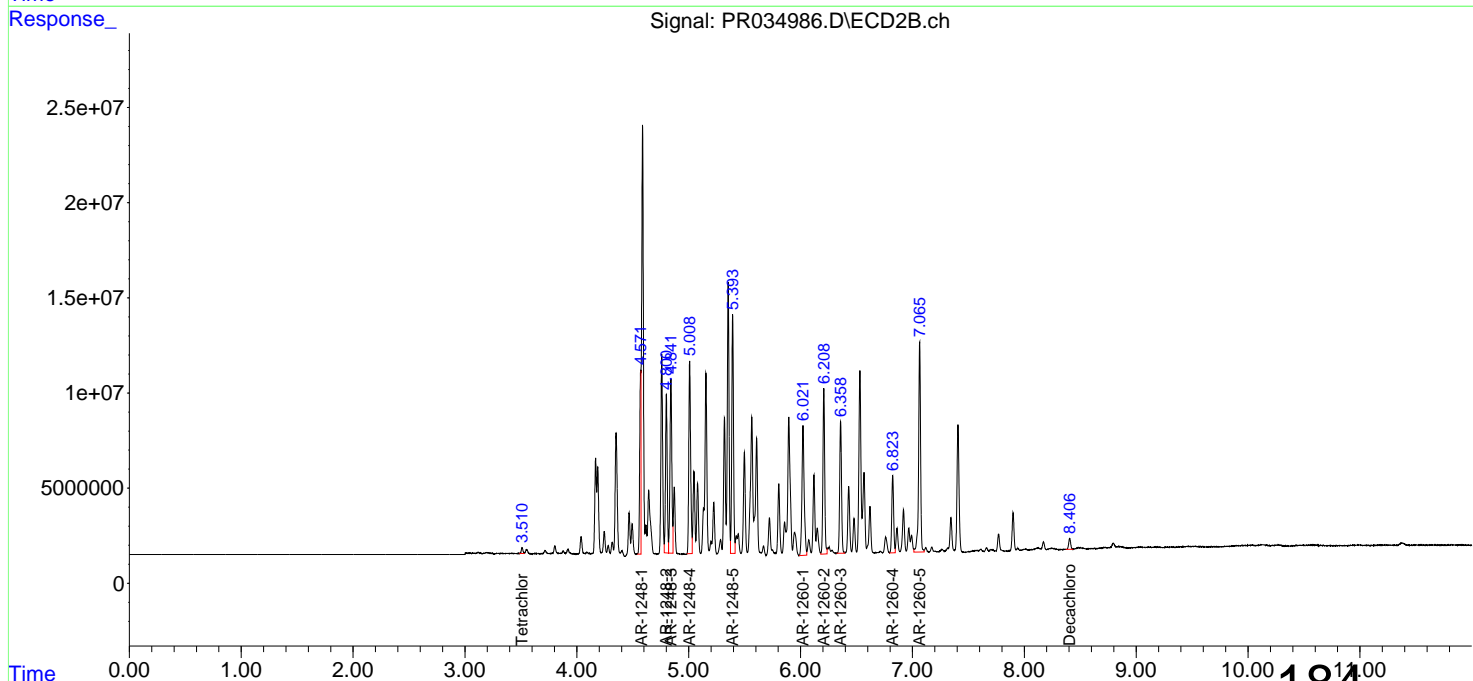
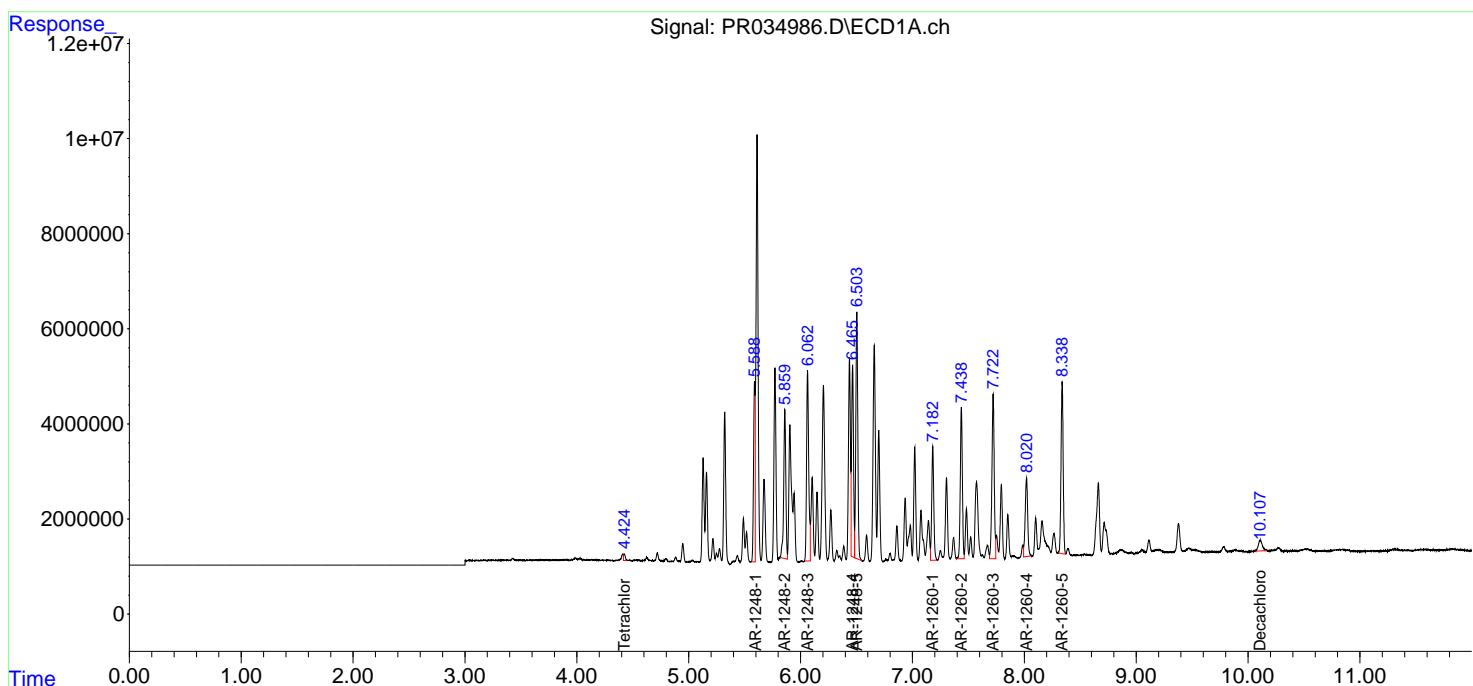
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41X6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:06 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41X6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:06 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.424 | 3.511 | 1411901 | 3182163 | 0.726m | 0.913 # |
| 2) SA Decachlor... | 10.108 | 8.406 | 5792867 | 7045106 | 2.947 | 1.602 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.571 | 36066202 | 74079686 | 743.286 | 759.778m |
| 22) L5 AR-1248-2 | 5.859 | 4.801 | 41317803 | 86948047 | 625.331 | 678.739 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 53544091 | 106.1E6 | 716.645 | 804.259 |
| 24) L5 AR-1248-4 | 6.465 | 5.009 | 48361019 | 115.8E6 | 541.278 | 703.866 # |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 63723935 | 134.5E6 | 761.626 | 803.600 |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 30409028 | 95265309 | 323.473 | 443.152 # |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 40646093 | 96792458 | 350.092 | 355.696 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 49125847 | 79705230 | 352.014 | 321.087m |
| 34) L7 AR-1260-4 | 8.020 | 6.823 | 25946867 | 46986195 | 300.438 | 274.789m |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 48164570 | 134.6E6 | 266.760 | 278.232 |

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

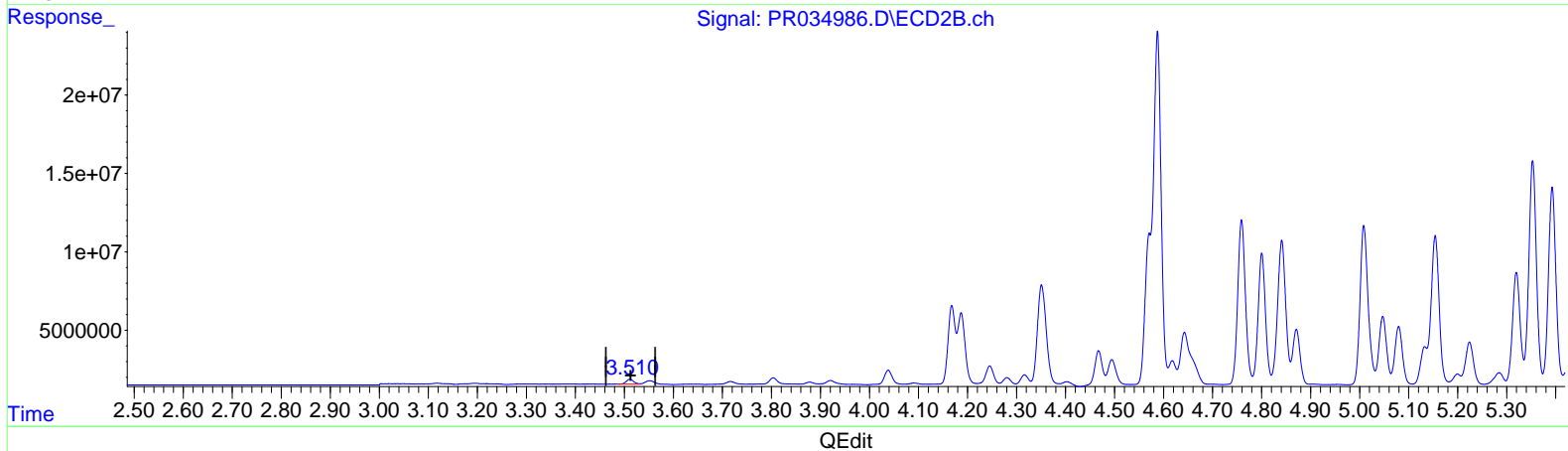
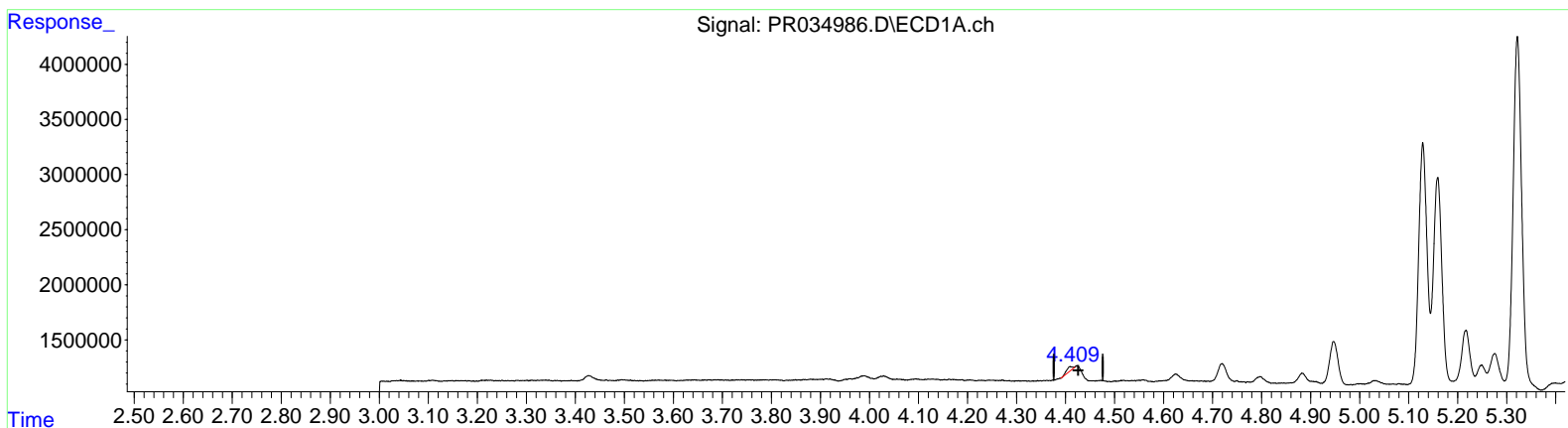
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:06 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.410min 0.168 ng/ml
 response 326691

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 0.913 ng/ml
 response 3182163

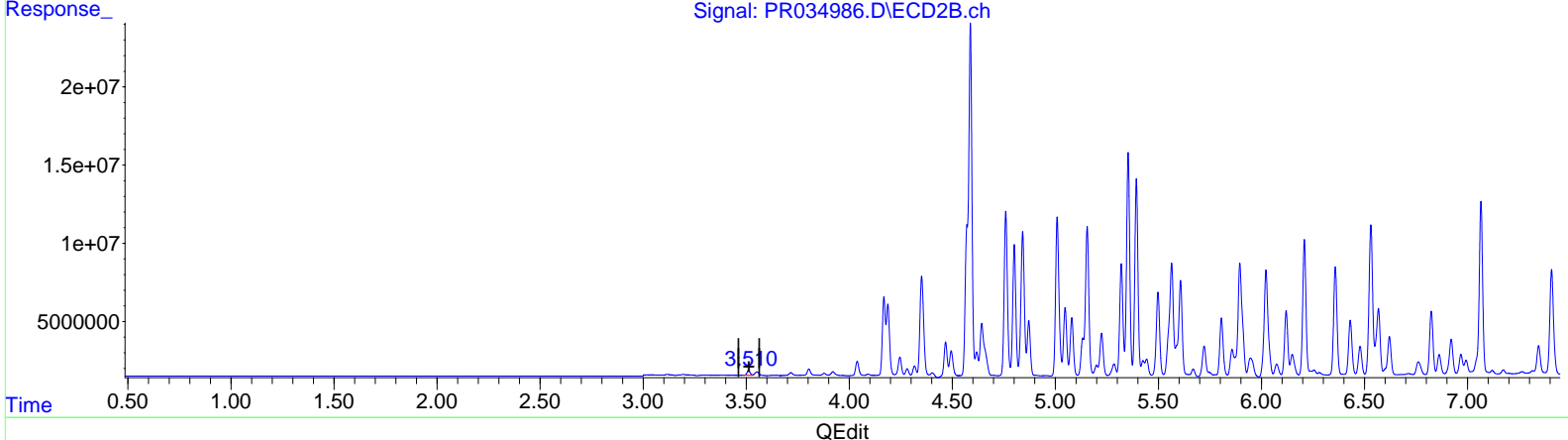
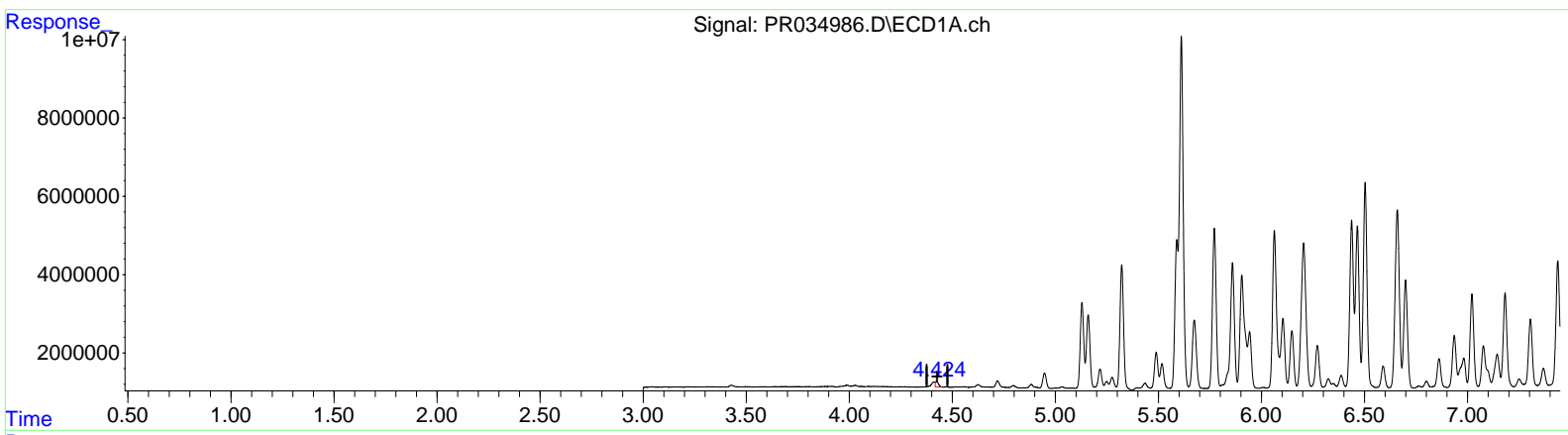
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:06 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.424min 0.726 ng/ml m
 response 1411901

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 0.913 ng/ml
 response 3182163

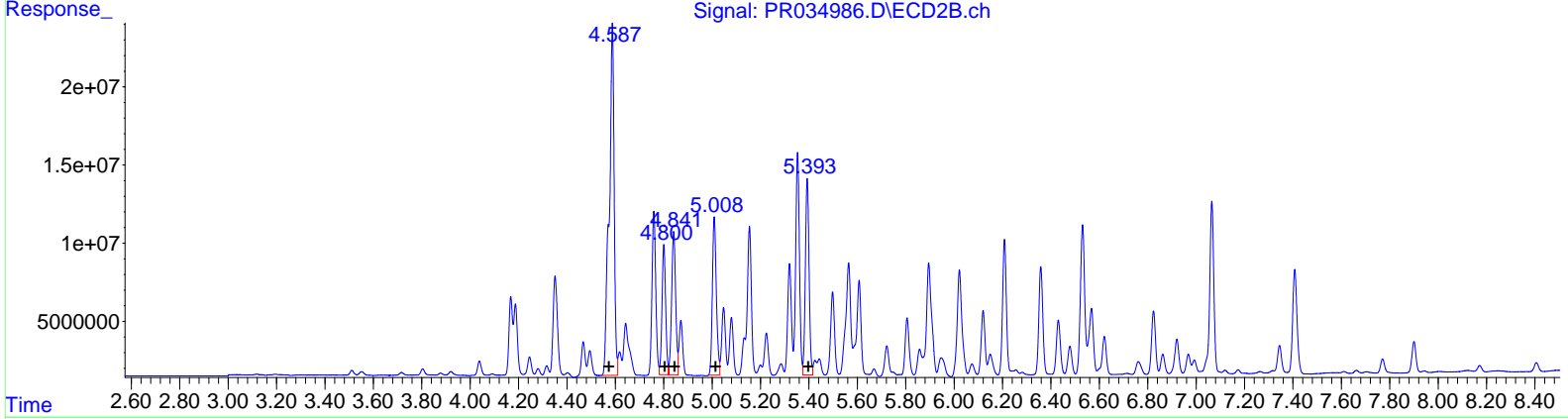
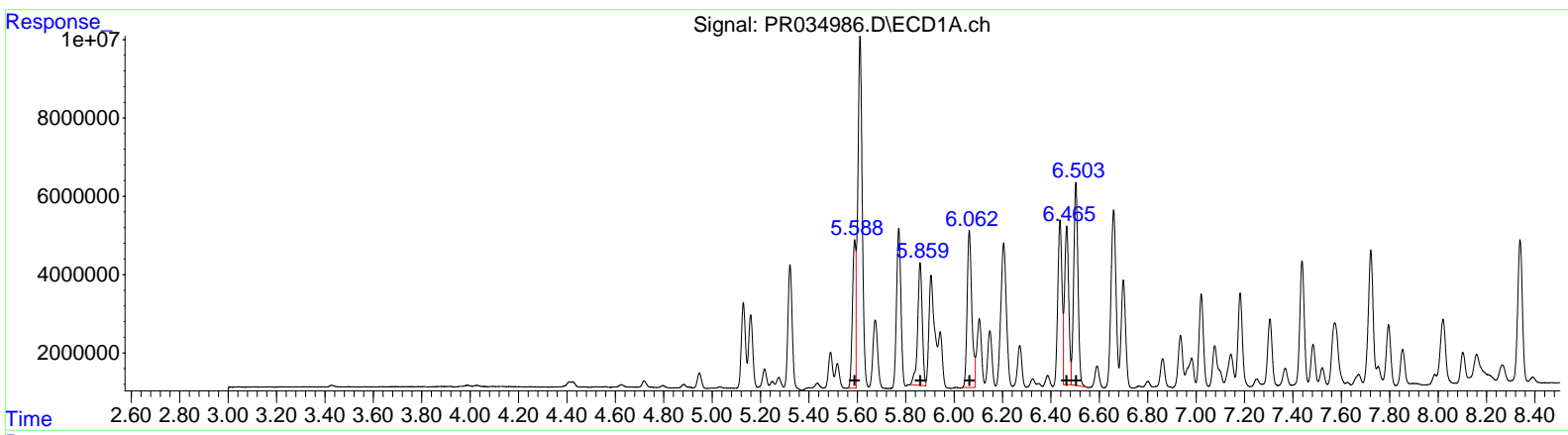
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:06 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|------------------------|-----------|---------|
| R.T. | Response | Conc |
| 5.59 | 36066202 | 743.29 |
| 5.86 | 41317803 | 625.33 |
| 6.06 | 53544091 | 716.65 |
| 6.47 | 48361019 | 541.28 |
| 6.50 | 63723935 | 761.63 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.59 | 321146098 | 3293.75 |
| 4.80 | 86948047 | 678.74 |
| 4.84 | 106143889 | 804.26 |
| 5.01 | 115807315 | 703.87 |
| 5.39 | 134487052 | 803.60 |

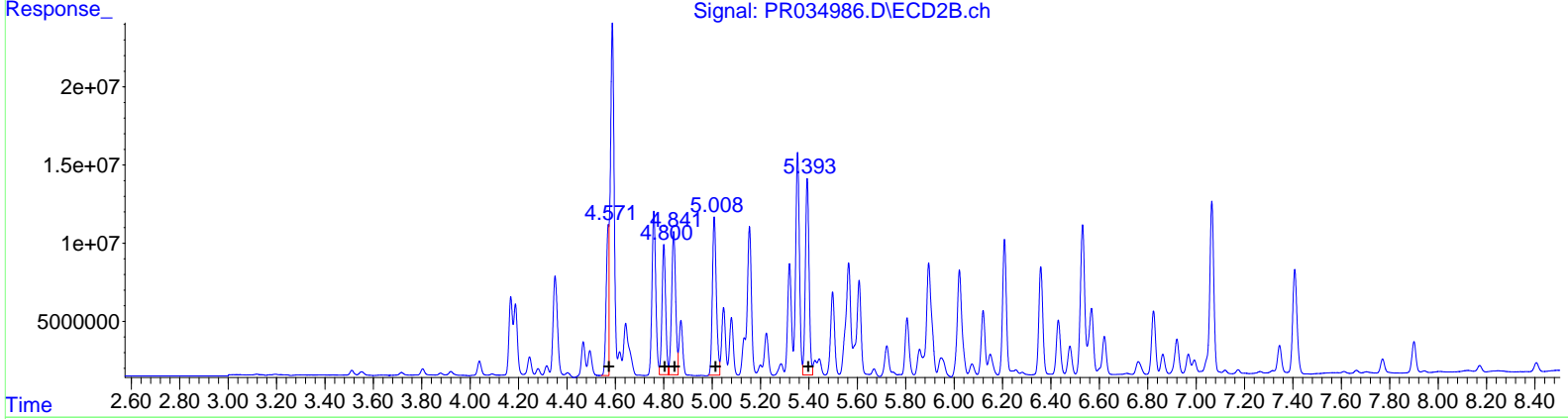
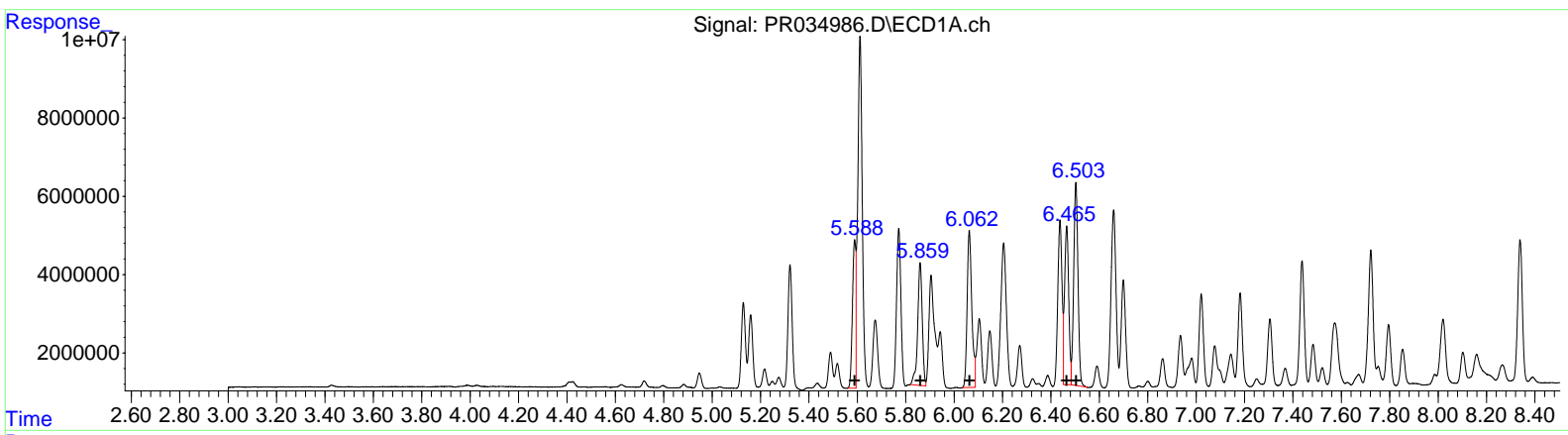
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 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:06 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 5.59 | 36066202 | 743.29 |
| 5.86 | 41317803 | 625.33 |
| 6.06 | 53544091 | 716.65 |
| 6.47 | 48361019 | 541.28 |
| 6.50 | 63723935 | 761.63 |
| (21) AR-1248-1 #2 (L5) | | |
| R.T. | Response | Conc |
| 4.57 | 74079686 | 759.78 |
| 4.80 | 86948047 | 678.74 |
| 4.84 | 106143889 | 804.26 |
| 5.01 | 115807315 | 703.87 |
| 5.39 | 134487052 | 803.60 |

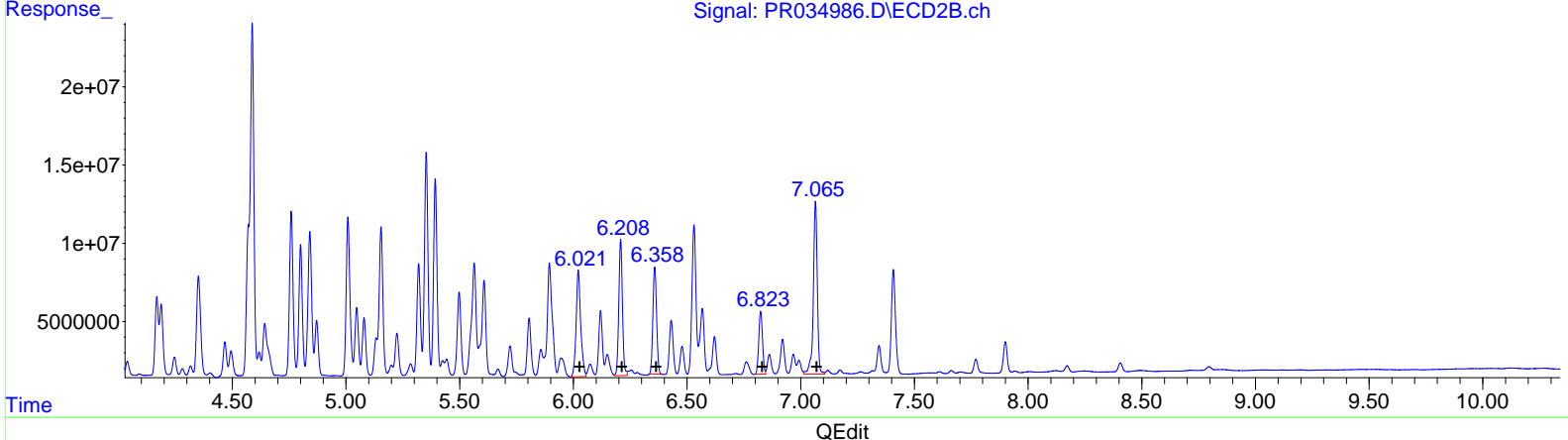
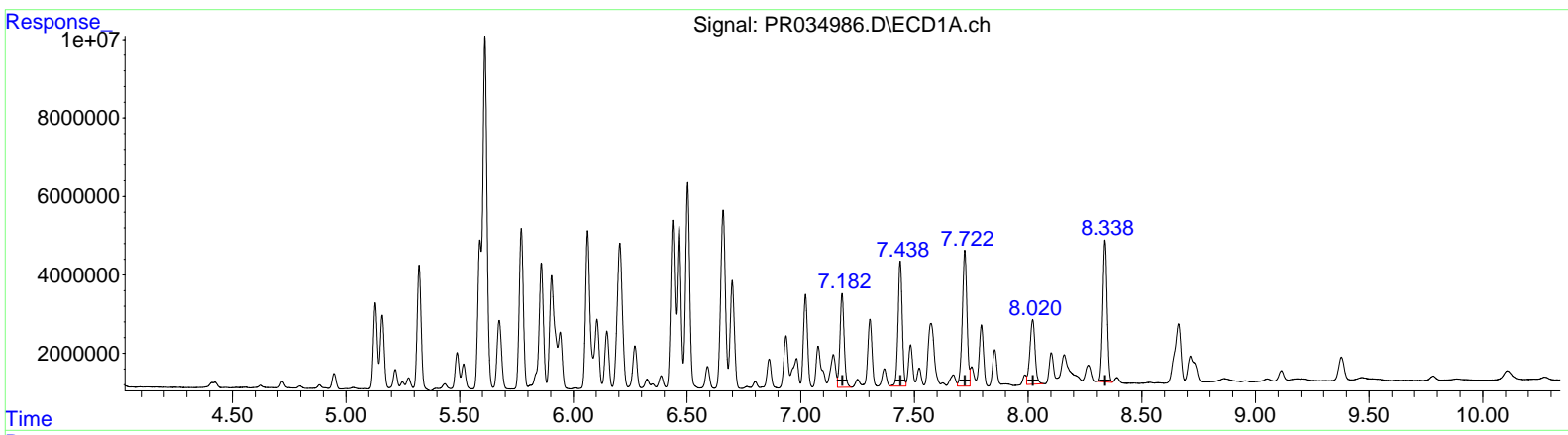
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:06 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 30409028 | 323.47 |
| 7.44 | 40646093 | 350.09 |
| 7.72 | 49125847 | 352.01 |
| 8.02 | 25946867 | 300.44 |
| 8.34 | 48164570 | 266.76 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 95265309 | 443.15 |
| 6.21 | 96792458 | 355.70 |
| 6.36 | 77358012 | 311.63 |
| 6.82 | 45999324 | 269.02 |
| 7.06 | 134565380 | 278.23 |

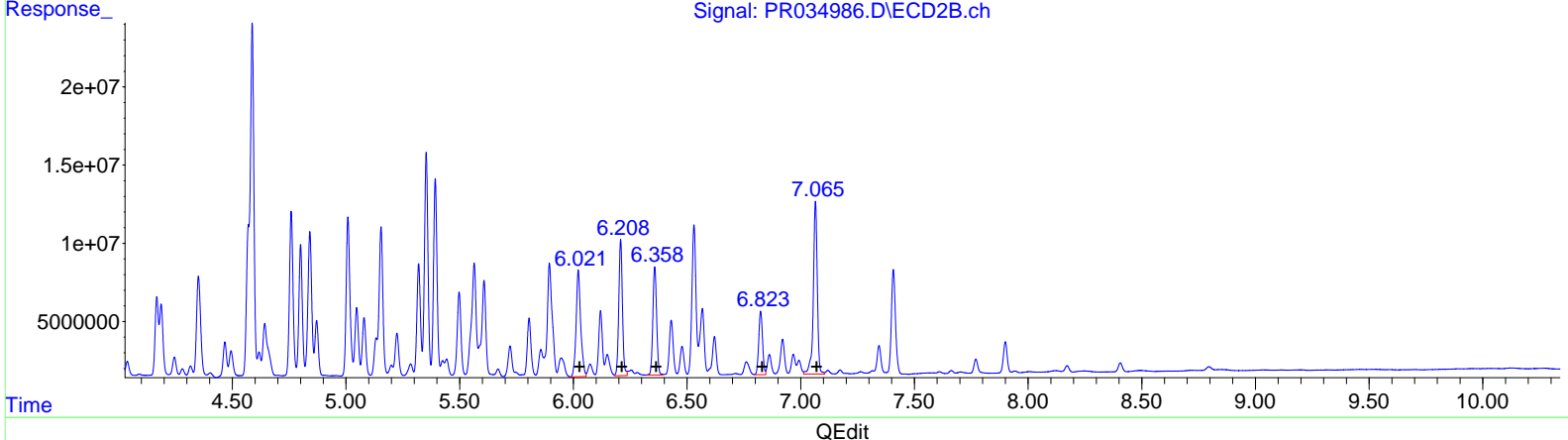
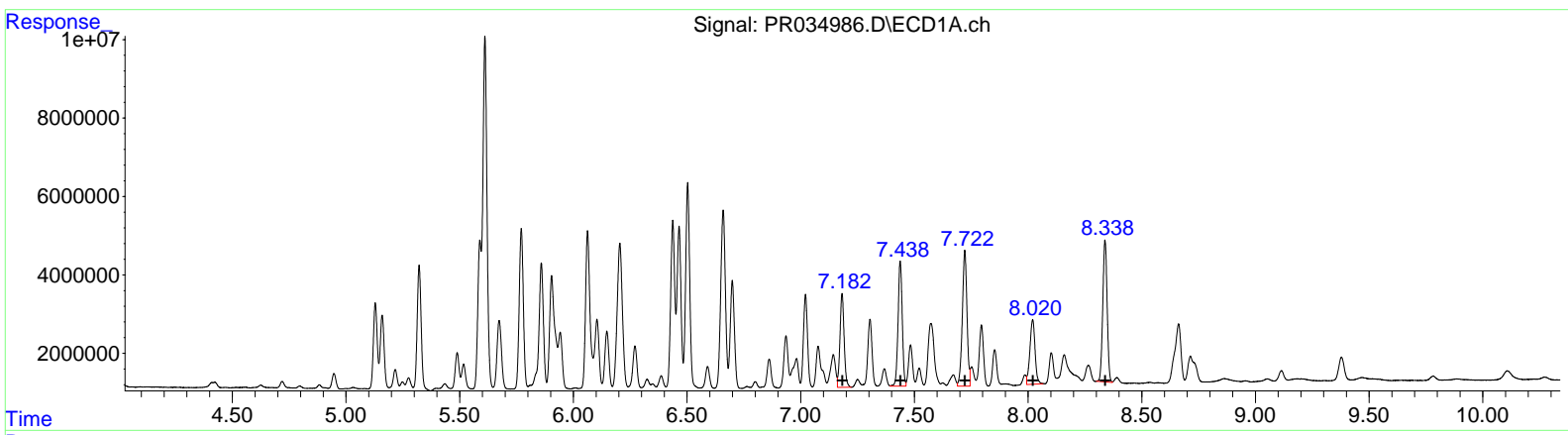
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X6DL2

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:06 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 30409028 | 323.47 |
| 7.44 | 40646093 | 350.09 |
| 7.72 | 49125847 | 352.01 |
| 8.02 | 25946867 | 300.44 |
| 8.34 | 48164570 | 266.76 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 95265309 | 443.15 |
| 6.21 | 96792458 | 355.70 |
| 6.36 | 79705230 | 321.09 |
| 6.82 | 46986195 | 274.79 |
| 7.06 | 134565380 | 278.23 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034986.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:48
 Operator : SM\SJ
 Sample : J6431-10DL2 20X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X6DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:58:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

**Manual Integrations
 APPROVED**

Sohil
 12/26/2018 8:14:06 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.424 | 3.511 | 1411901 | 3182163 | 0.726m | 0.913 # |
| 2) SA Decachlor... | 10.108 | 8.406 | 5792867 | 7045106 | 2.947 | 1.602 # |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.571 | 36066202 | 74079686 | 743.286 | 759.778m |
| 22) L5 AR-1248-2 | 5.859 | 4.801 | 41317803 | 86948047 | 625.331 | 678.739 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 53544091 | 106.1E6 | 716.645 | 804.259 |
| 24) L5 AR-1248-4 | 6.465 | 5.009 | 48361019 | 115.8E6 | 541.278 | 703.866 # |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 63723935 | 134.5E6 | 761.626 | 803.600 |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 30409028 | 95265309 | 323.473 | 443.152 # |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 40646093 | 96792458 | 350.092 | 355.696 |
| 33) L7 AR-1260-3 | 7.722 | 6.358 | 49125847 | 79705230 | 352.014 | 321.087m |
| 34) L7 AR-1260-4 | 8.020 | 6.823 | 25946867 | 46986195 | 300.438 | 274.789m |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 48164570 | 134.6E6 | 266.760 | 278.232 |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X7

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-11
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034939.D
 % Solids : 73.8 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

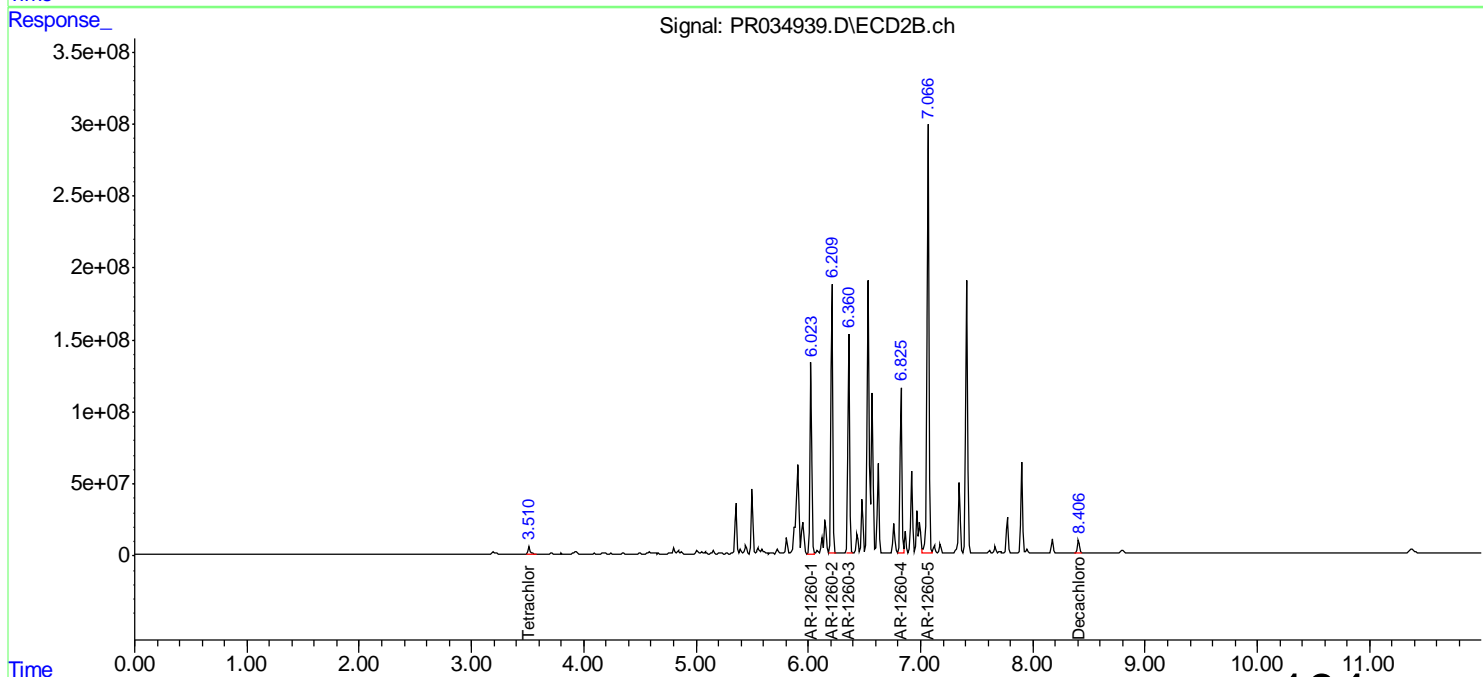
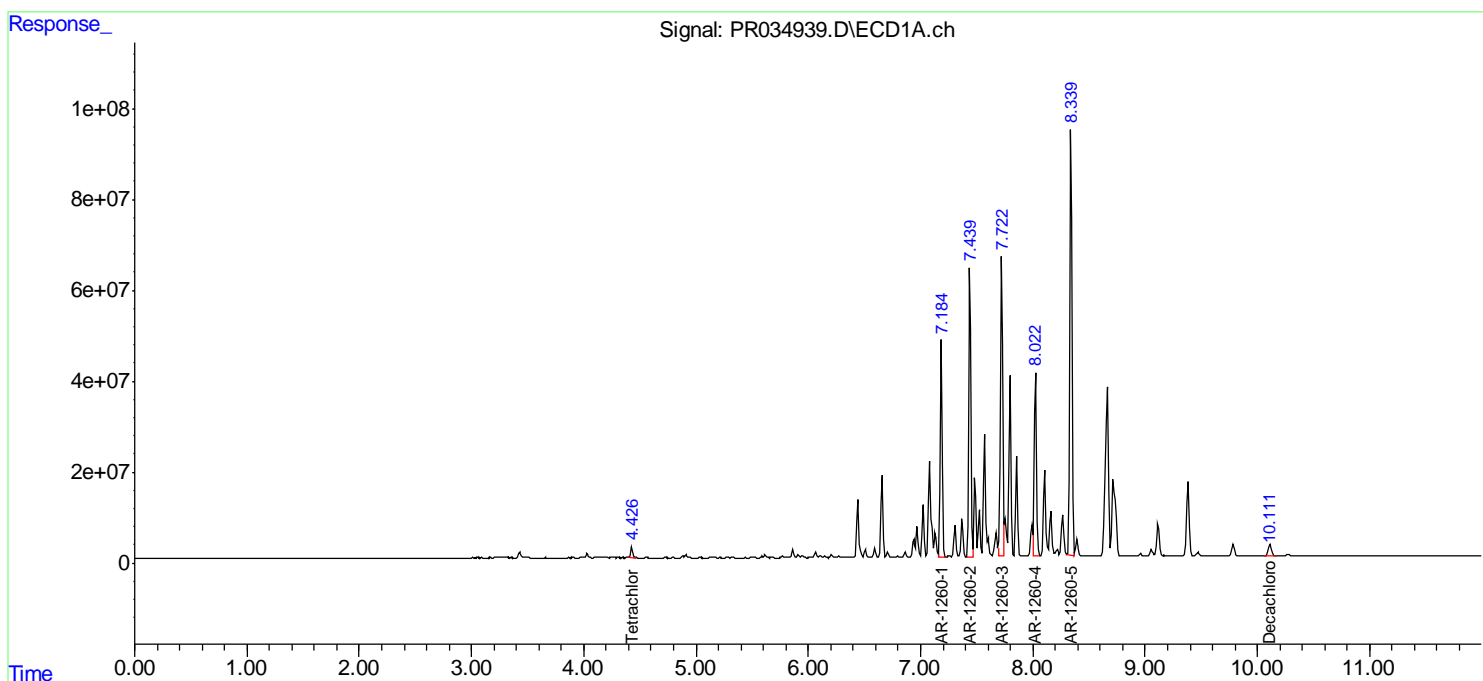
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 45 | U |
| 11104-28-2 | Aroclor-1221 | 45 | U |
| 11141-16-5 | Aroclor-1232 | 45 | U |
| 53469-21-9 | Aroclor-1242 | 45 | U |
| 12672-29-6 | Aroclor-1248 | 45 | U |
| 11097-69-1 | Aroclor-1254 | 45 | U |
| 11096-82-5 | Aroclor-1260 | 3000 | E |
| 37324-23-5 | Aroclor-1262 | 45 | U |
| 11100-14-4 | Aroclor-1268 | 45 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034939.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:00
 Operator : SM\SJ
 Sample : J6431-11
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X7

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034939.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:00
 Operator : SM\SJ
 Sample : J6431-11
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41X7

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 29017958 | 61377583 | 14.919 | 17.607 |
| 2) SA Decachlor... | 10.111 | 8.407 | 54710080 | 110.1E6 | 27.829 | 25.040 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.184 | 6.024 | 589.3E6 | 1439.4E6 | 6268.658 | 6695.917 |
| 32) L7 AR-1260-2 | 7.440 | 6.209 | 781.7E6 | 2013.7E6 | 6732.722 | 7400.092 |
| 33) L7 AR-1260-3 | 7.723 | 6.360 | 945.2E6 | 1672.6E6 | 6772.696 | 6737.923 |
| 34) L7 AR-1260-4 | 8.022 | 6.825 | 558.8E6 | 1222.7E6 | 6470.718 | 7150.769 |
| 35) L7 AR-1260-5 | 8.340 | 7.067 | 1267.7E6 | 3556.5E6 | 7021.046 | 7353.475 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X7DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-11DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034984.D
 % Solids : 73.8 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 10.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

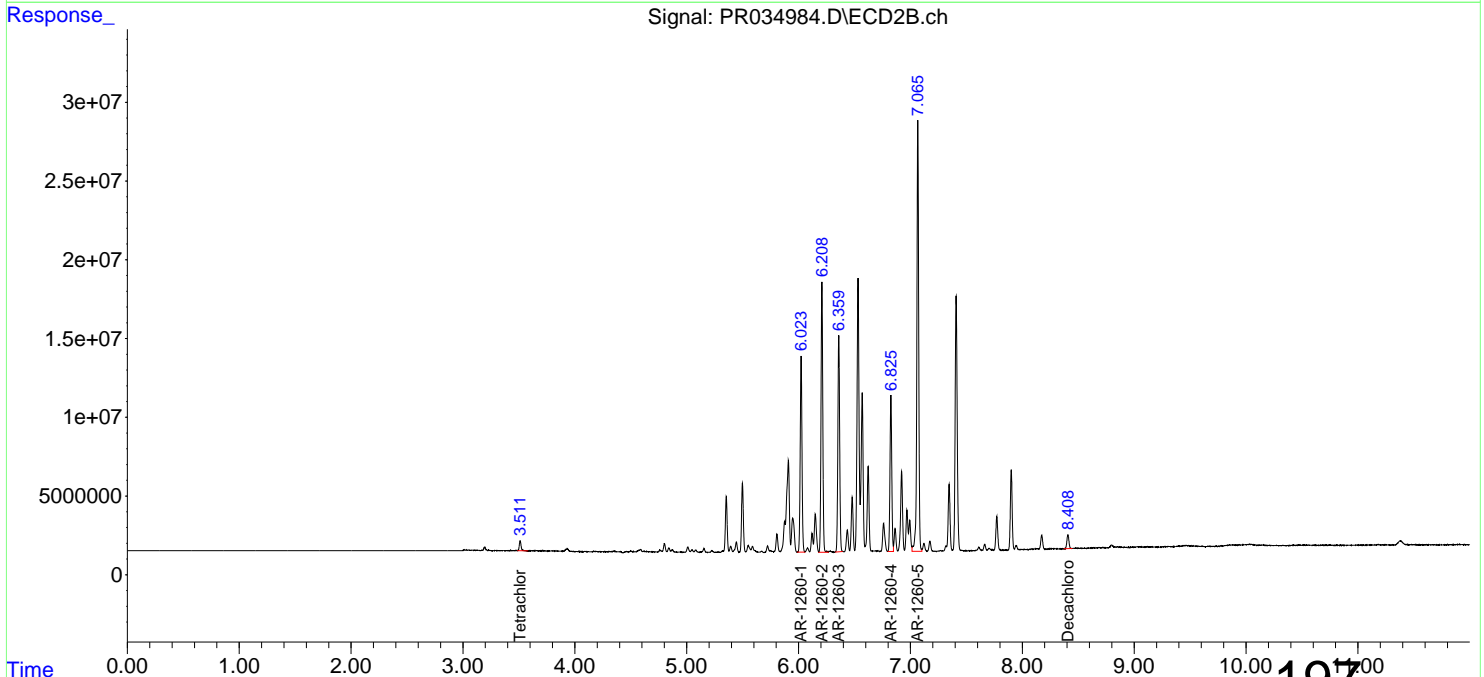
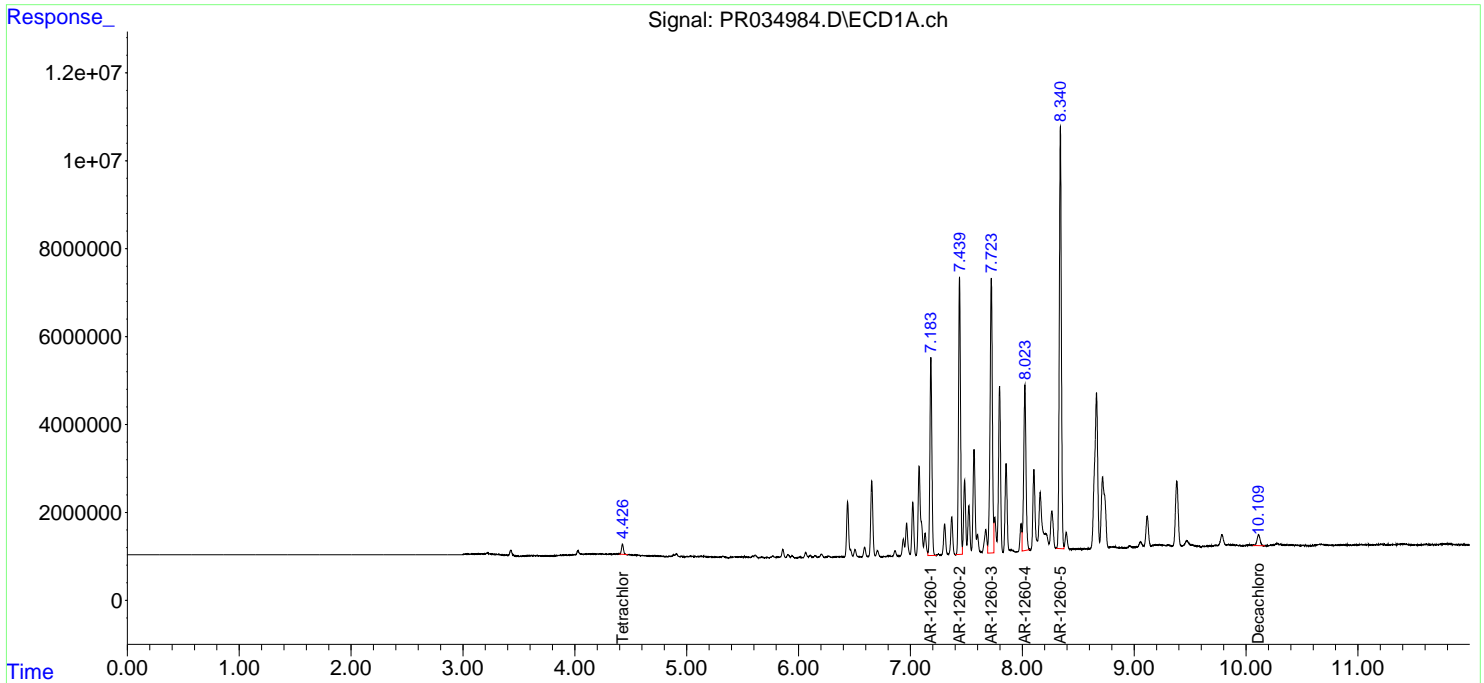
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 450 | U |
| 11104-28-2 | Aroclor-1221 | 450 | U |
| 11141-16-5 | Aroclor-1232 | 450 | U |
| 53469-21-9 | Aroclor-1242 | 450 | U |
| 12672-29-6 | Aroclor-1248 | 450 | U |
| 11097-69-1 | Aroclor-1254 | 450 | U |
| 11096-82-5 | Aroclor-1260 | 2900 | D |
| 37324-23-5 | Aroclor-1262 | 450 | U |
| 11100-14-4 | Aroclor-1268 | 450 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034984.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:20
 Operator : SM\SJ
 Sample : J6431-11DL 10X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X7DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:04:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034984.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 18:20
 Operator : SM\SJ
 Sample : J6431-11DL 10X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41X7DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 01:04:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 2777167 | 7117514 | 1.428 | 2.042 # |
| 2) SA Decachlor... | 10.111 | 8.408 | 4655861 | 11310851 | 2.368 | 2.573 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.023 | 55786894 | 137.2E6 | 593.427 | 638.113 |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 77168017 | 187.6E6 | 664.662 | 689.575 |
| 33) L7 AR-1260-3 | 7.723 | 6.360 | 90128798 | 153.3E6 | 645.823 | 617.653 |
| 34) L7 AR-1260-4 | 8.023 | 6.826 | 53692099 | 109.2E6 | 621.698 | 638.409 |
| 35) L7 AR-1260-5 | 8.341 | 7.066 | 122.9E6 | 314.7E6 | 680.674 | 650.759 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X8

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-12
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034940.D
 % Solids : 67.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

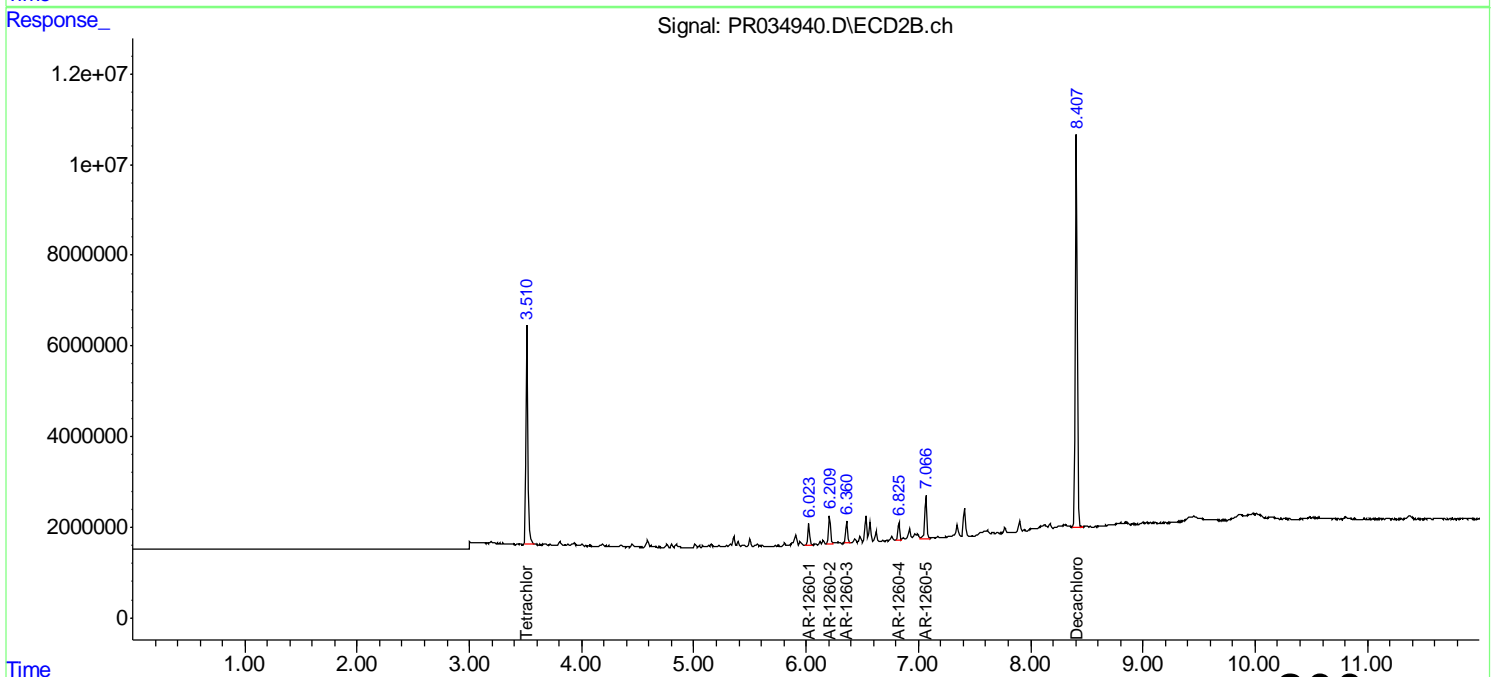
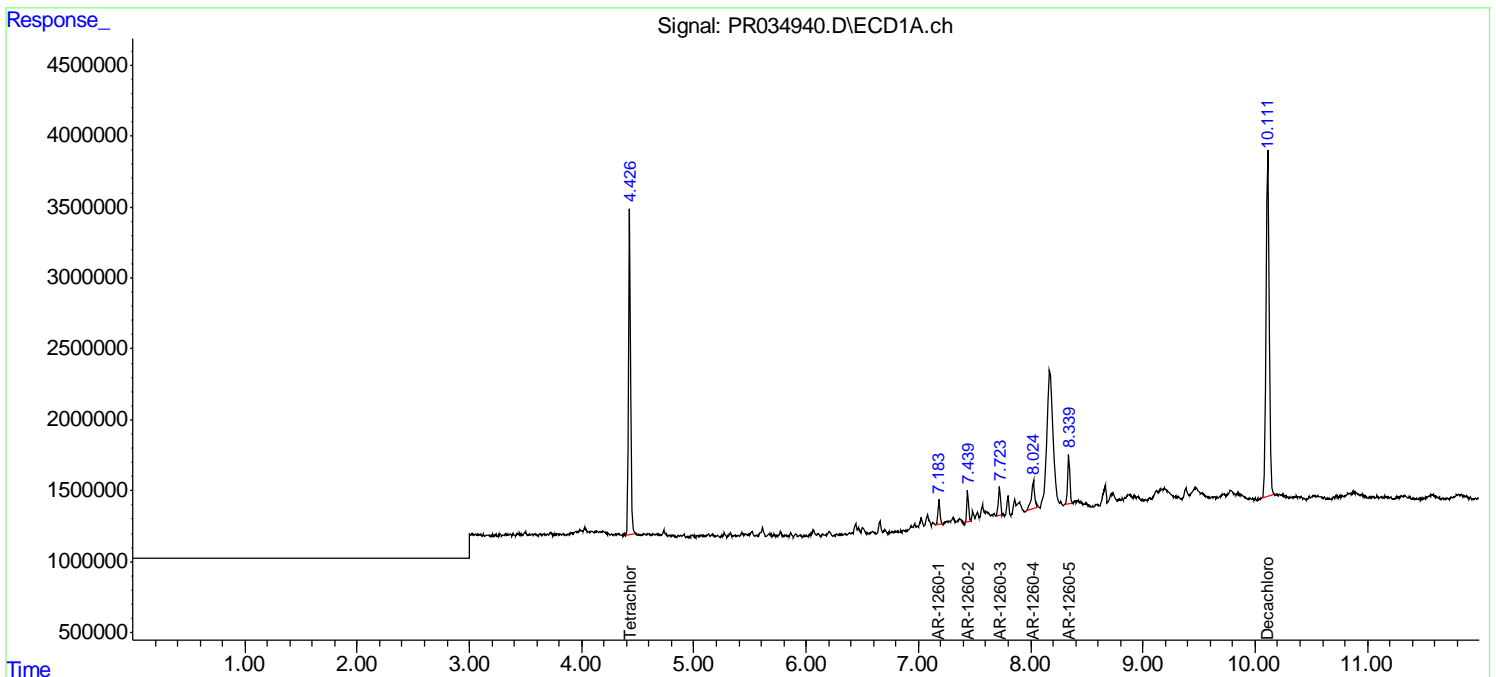
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 49 | U |
| 11104-28-2 | Aroclor-1221 | 49 | U |
| 11141-16-5 | Aroclor-1232 | 49 | U |
| 53469-21-9 | Aroclor-1242 | 49 | U |
| 12672-29-6 | Aroclor-1248 | 49 | U |
| 11097-69-1 | Aroclor-1254 | 49 | U |
| 11096-82-5 | Aroclor-1260 | 13 | J |
| 37324-23-5 | Aroclor-1262 | 49 | U |
| 11100-14-4 | Aroclor-1268 | 49 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034940.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:15
 Operator : SM\SJ
 Sample : J6431-12
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034940.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:15
 Operator : SM\SJ
 Sample : J6431-12
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41X8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:46:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 29016862 | 56534622 | 14.918 | 16.217 |
| 2) SA Decachlor... | 10.111 | 8.407 | 47052804 | 105.0E6 | 23.934 | 23.873 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.023 | 2121595 | 5427742 | 22.568 | 25.249 |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 2309514 | 7942137 | 19.892 | 29.186 # |
| 33) L7 AR-1260-3 | 7.723 | 6.361 | 2728260 | 5716128 | 19.550 | 23.027 |
| 34) L7 AR-1260-4 | 8.023 | 6.826 | 4091765 | 4349249 | 47.378 | 25.436 # |
| 35) L7 AR-1260-5 | 8.340 | 7.066 | 4668679 | 12072675 | 25.858 | 24.962 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X9

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-13
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034941.D
 % Solids : 66 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 50 | U |
| 11104-28-2 | Aroclor-1221 | 50 | U |
| 11141-16-5 | Aroclor-1232 | 50 | U |
| 53469-21-9 | Aroclor-1242 | 120 | |
| 12672-29-6 | Aroclor-1248 | 50 | U |
| 11097-69-1 | Aroclor-1254 | 50 | U |
| 11096-82-5 | Aroclor-1260 | 29 | JP |
| 37324-23-5 | Aroclor-1262 | 50 | U |
| 11100-14-4 | Aroclor-1268 | 50 | U |

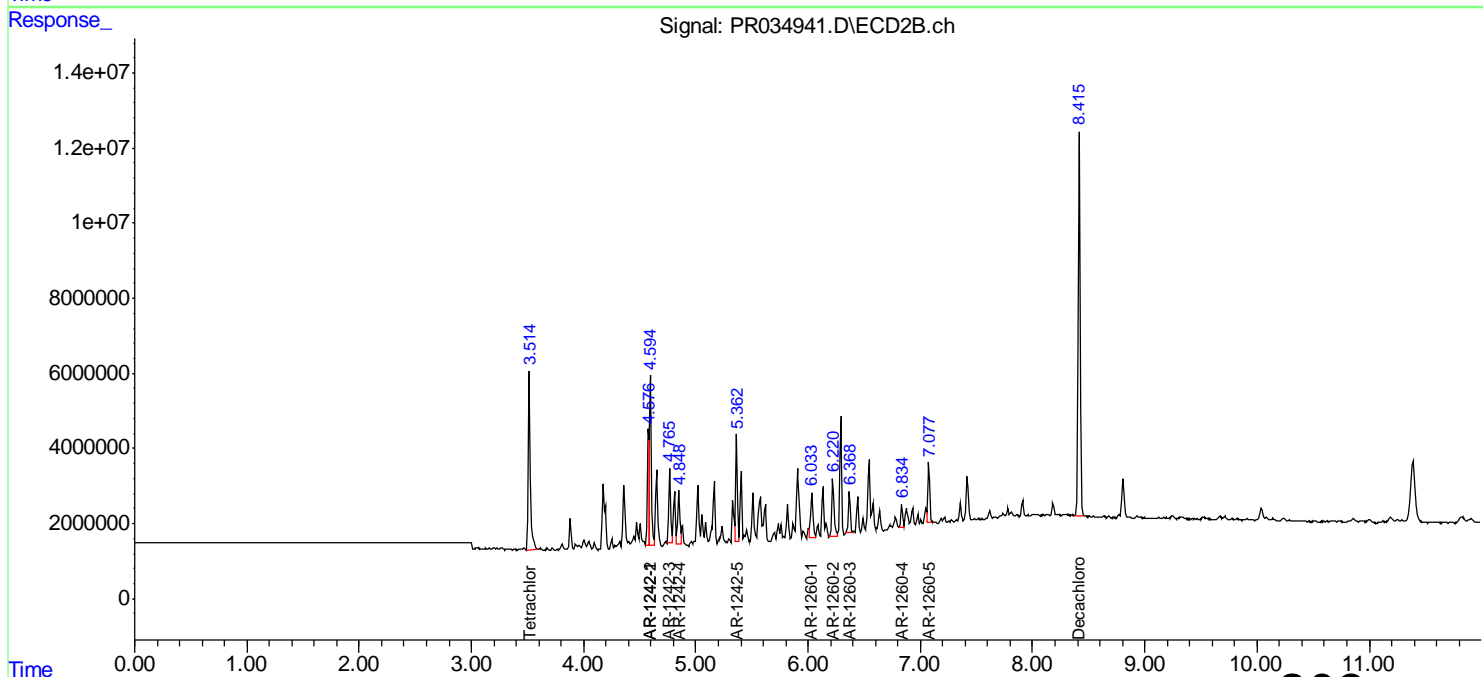
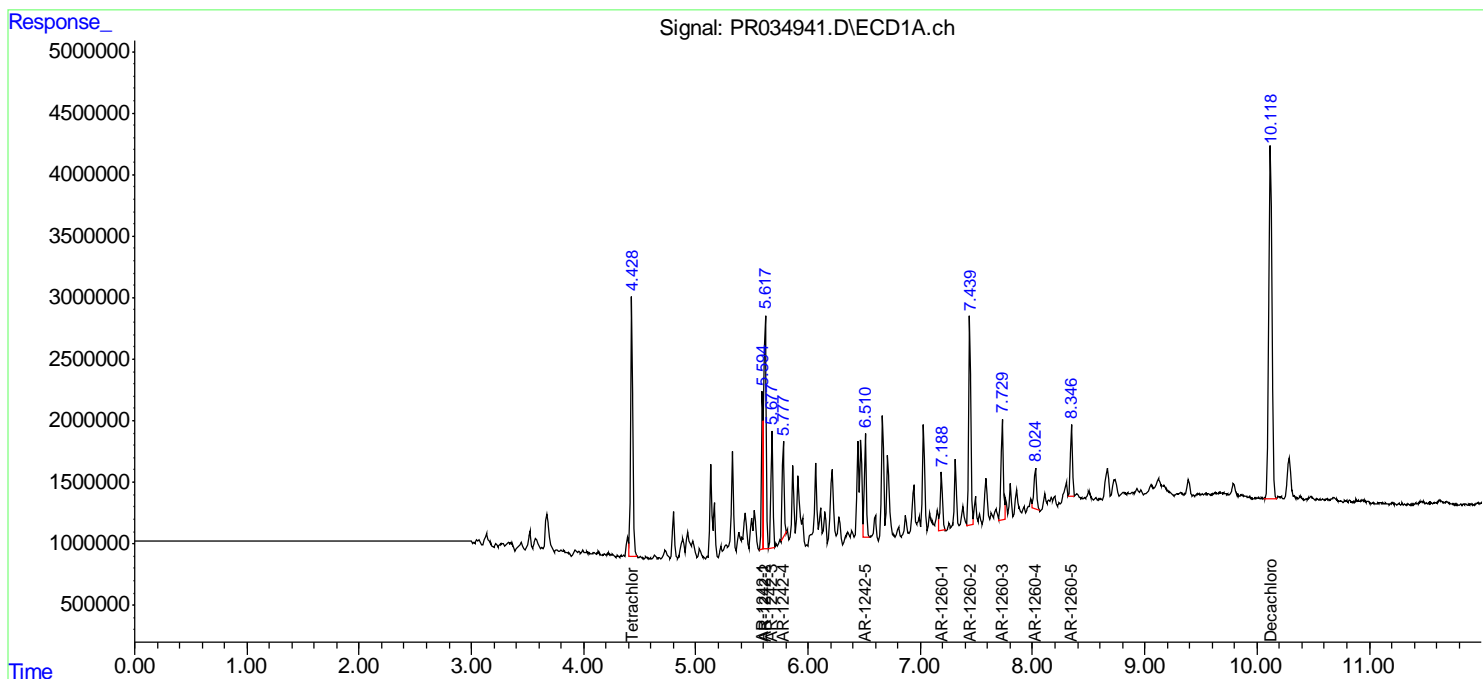
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 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X9

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:59 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X9

Manual Integrations
APPROVED
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 12/21/2018 6:11:59 PM

Integration File signal 1: autoint1.e
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 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 27497980 | 60162918 | 14.138m | 17.258m |
| 2) SA Decachlor... | 10.119 | 8.415 | 56783384 | 126.5E6 | 28.884 | 28.763 |
| Target Compounds | | | | | | |
| 16) L4 AR-1242-1 | 5.594 | 4.577 | 13439886 | 26974158 | 231.707 | 237.630 |
| 17) L4 AR-1242-2 | 5.616 | 4.594 | 24599160 | 53914079 | 290.622 | 315.789 |
| 18) L4 AR-1242-3 | 5.678 | 4.766 | 12123483 | 22665202 | 241.934 | 267.495 |
| 19) L4 AR-1242-4 | 5.777 | 4.848 | 9099692 | 17987605 | 222.680 | 217.564 |
| 20) L4 AR-1242-5 | 6.510 | 5.362 | 10036958 | 31852864 | 217.916 | 286.381 # |
| 31) L7 AR-1260-1 | 7.189 | 6.032 | 6397273 | 18030740 | 68.050 | 83.875 |
| 32) L7 AR-1260-2 | 7.441 | 6.221 | 22470841 | 20728191 | 193.545 | 76.173 # |
| 33) L7 AR-1260-3 | 7.730 | 6.369 | 11081912 | 12826042 | 79.408 | 51.669 # |
| 34) L7 AR-1260-4 | 8.024 | 6.834 | 5235891 | 7085701 | 60.626 | 41.439m# |
| 35) L7 AR-1260-5 | 8.346 | 7.077 | 7477359 | 18203704 | 41.413m | 37.639 |
| ----- | | | | | | |

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

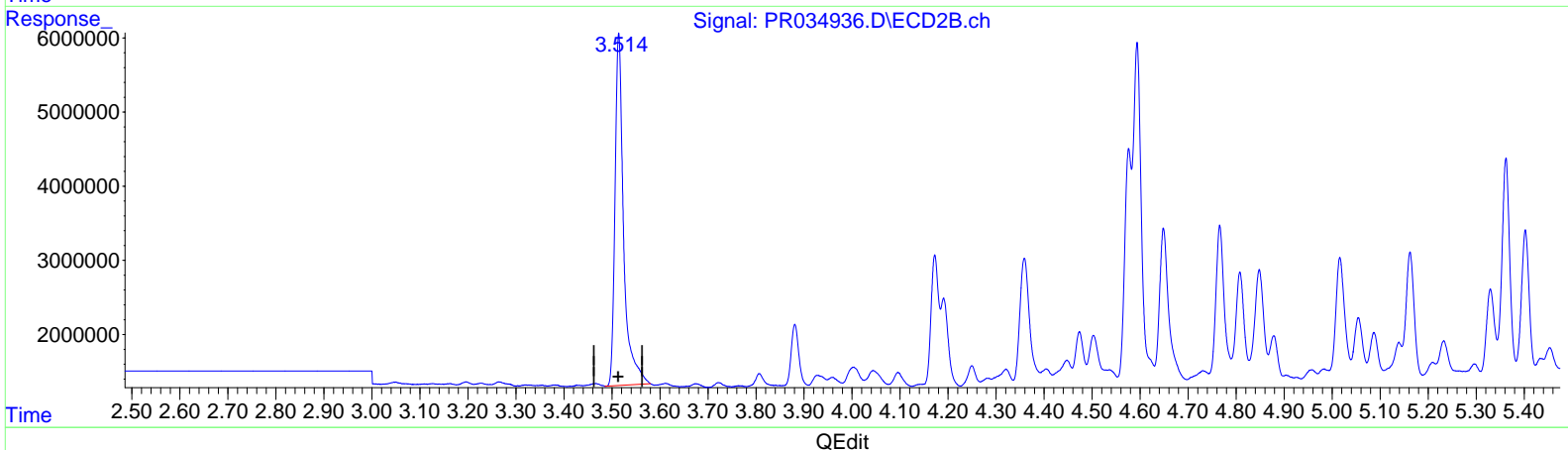
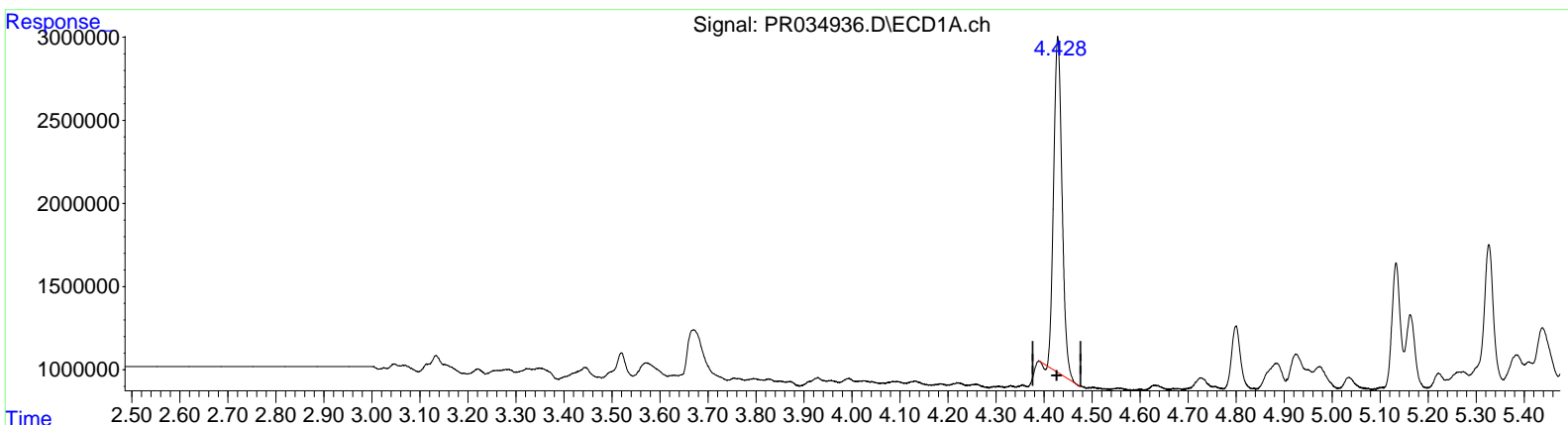
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 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X9

Manual Integrations
APPROVED
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 12/21/2018 6:11:59 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.429min 12.533 ng/ml

response 24376113

(1) Tetrachloro-m-xylene #2 (SA)

3.514min 17.052 ng/ml

response 59444200

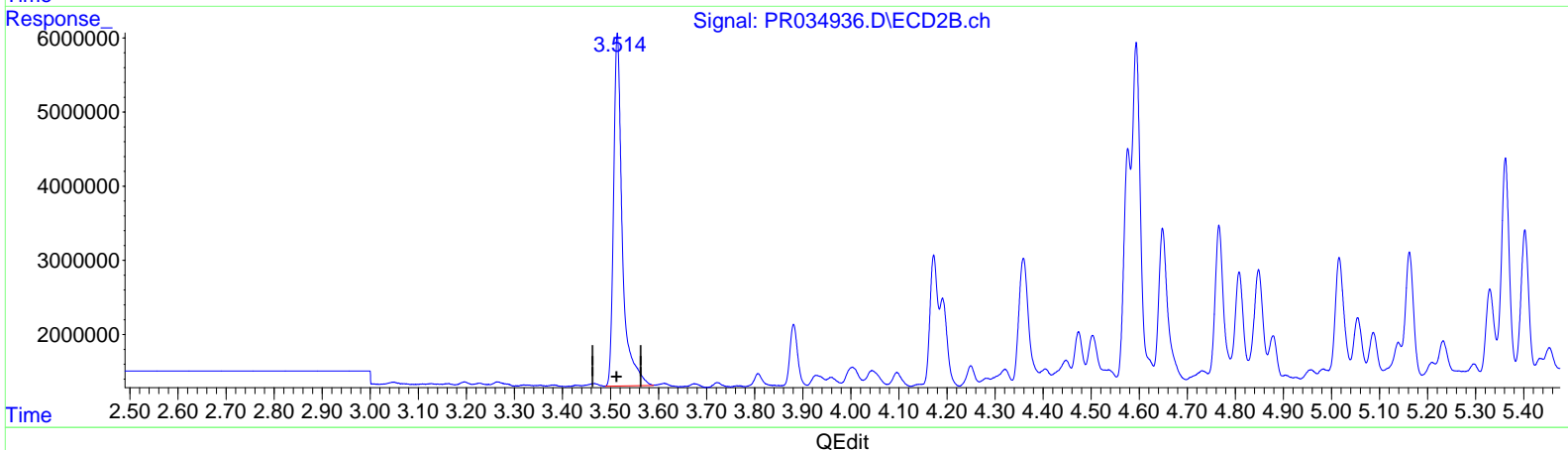
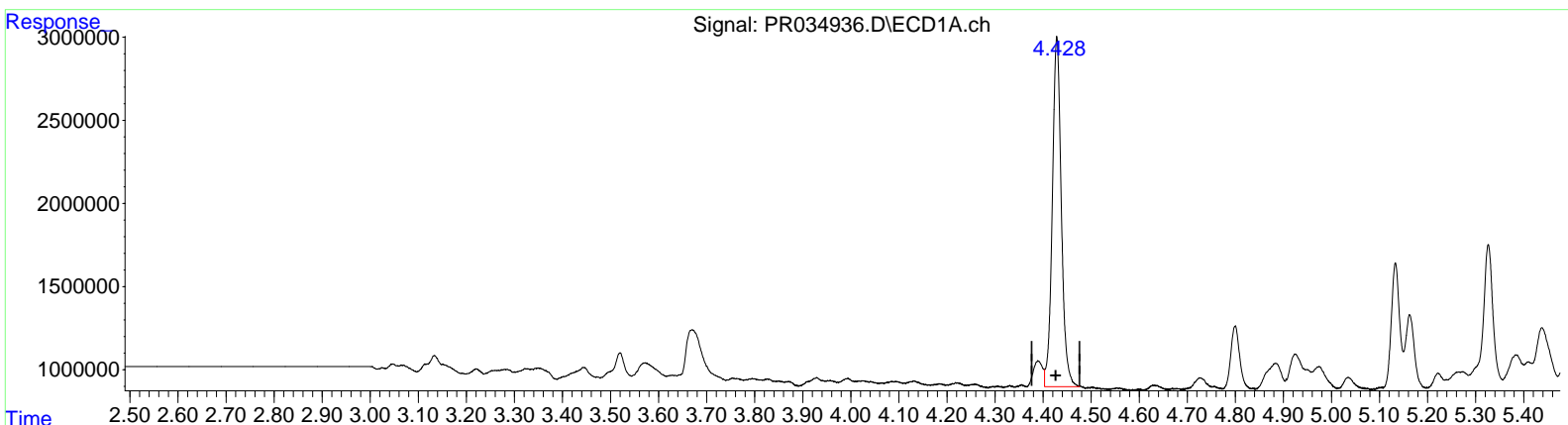
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 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X9

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.428min 14.138 ng/ml m
 response 27497980

(1) Tetrachloro-m-xylene #2 (SA)

3.514min 17.258 ng/ml m
 response 60162918

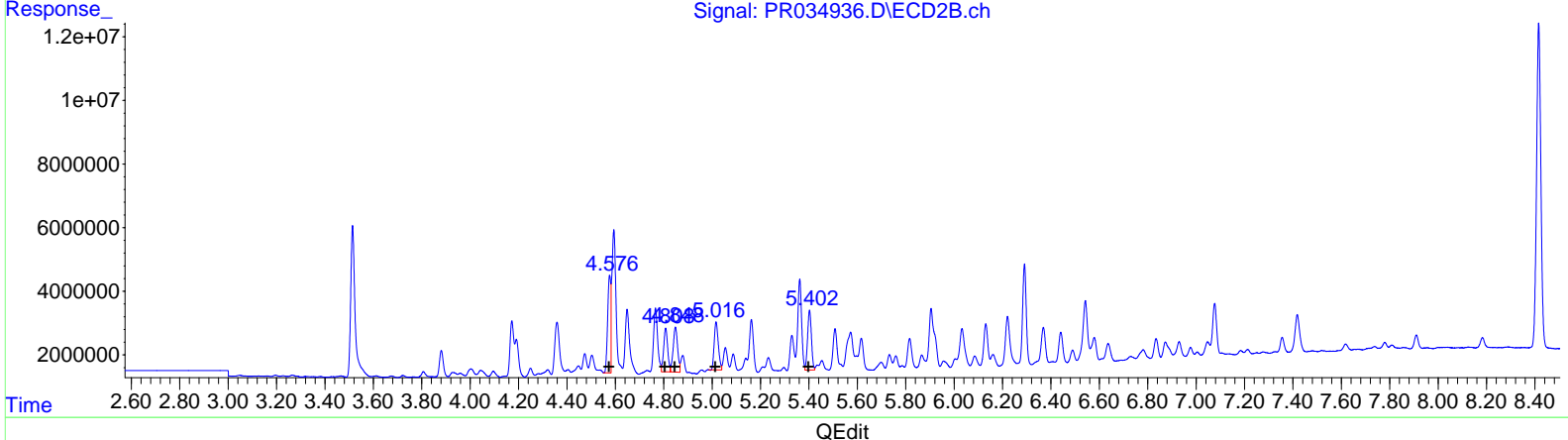
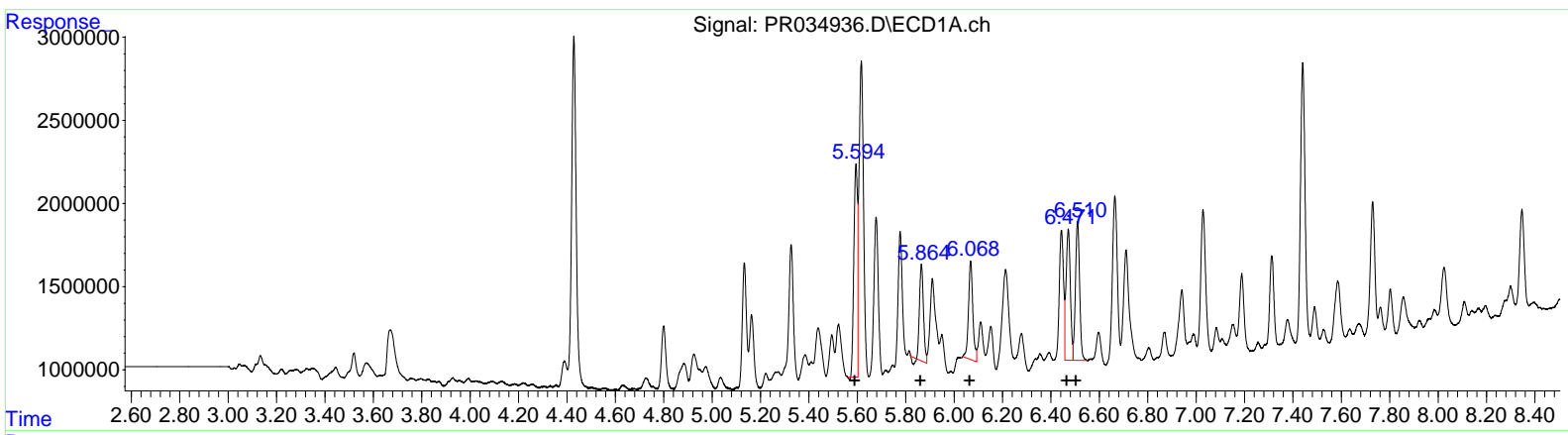
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X9

Manual Integrations
APPROVED
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 12/21/2018 6:11:59 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | | |
|------------------------|----------|--------|--|
| R.T. | Response | Conc | |
| 5.59 | 13439886 | 276.98 | |
| 5.86 | 6476774 | 98.02 | |
| 6.07 | 7337736 | 98.21 | |
| 6.47 | 9710210 | 108.68 | |
| 6.51 | 10036958 | 119.96 | |
| (21) AR-1248-1 #2 (L5) | | | |
| R.T. | Response | Conc | |
| 4.58 | 26974158 | 276.65 | |
| 4.81 | 15788100 | 123.25 | |
| 4.85 | 17987605 | 136.29 | |
| 5.02 | 17925468 | 108.95 | |
| 5.40 | 20621578 | 123.22 | |

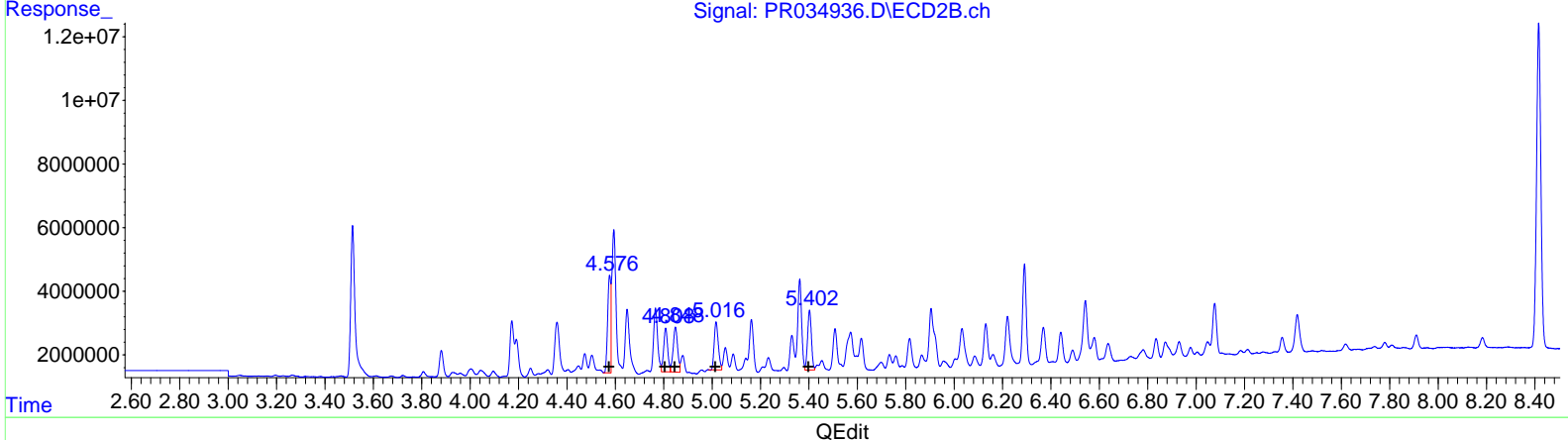
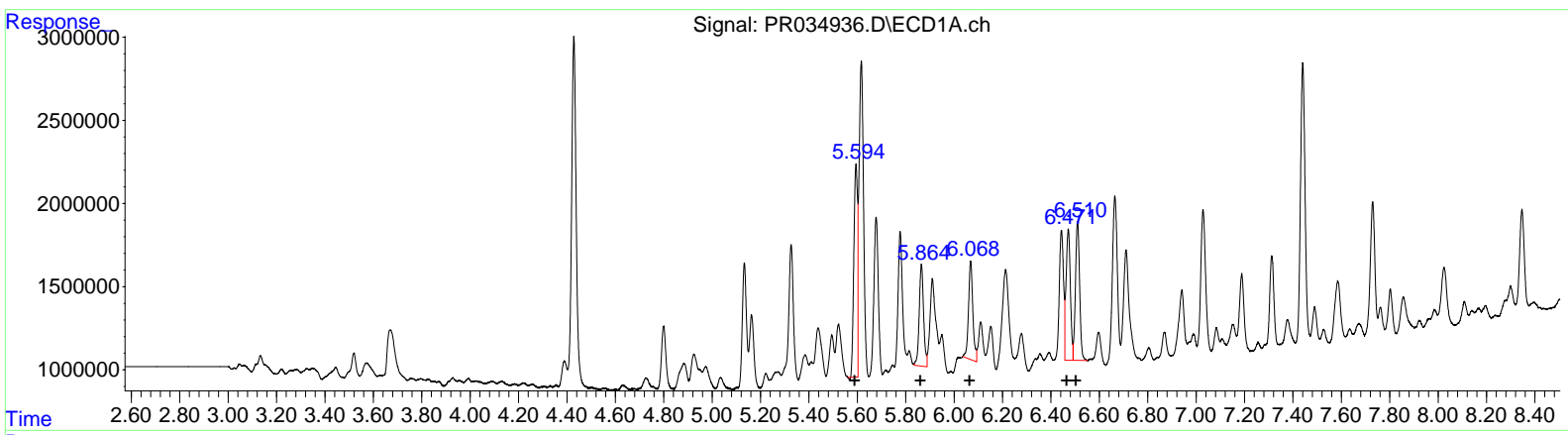
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 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X9

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:59 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 #2 (L5) | | | |
|------------------------|----------|--------|--|
| R.T. | Response | Conc | |
| 5.59 | 13439886 | 276.98 | |
| 5.86 | 7736665 | 117.09 | |
| 6.07 | 7337736 | 98.21 | |
| 6.47 | 9710210 | 108.68 | |
| 6.51 | 10036958 | 119.96 | |
| (21) AR-1248-1 #2 (L5) | | | |
| R.T. | Response | Conc | |
| 4.58 | 26974158 | 276.65 | |
| 4.81 | 15788100 | 123.25 | |
| 4.85 | 17987605 | 136.29 | |
| 5.02 | 17925468 | 108.95 | |
| 5.40 | 20621578 | 123.22 | |

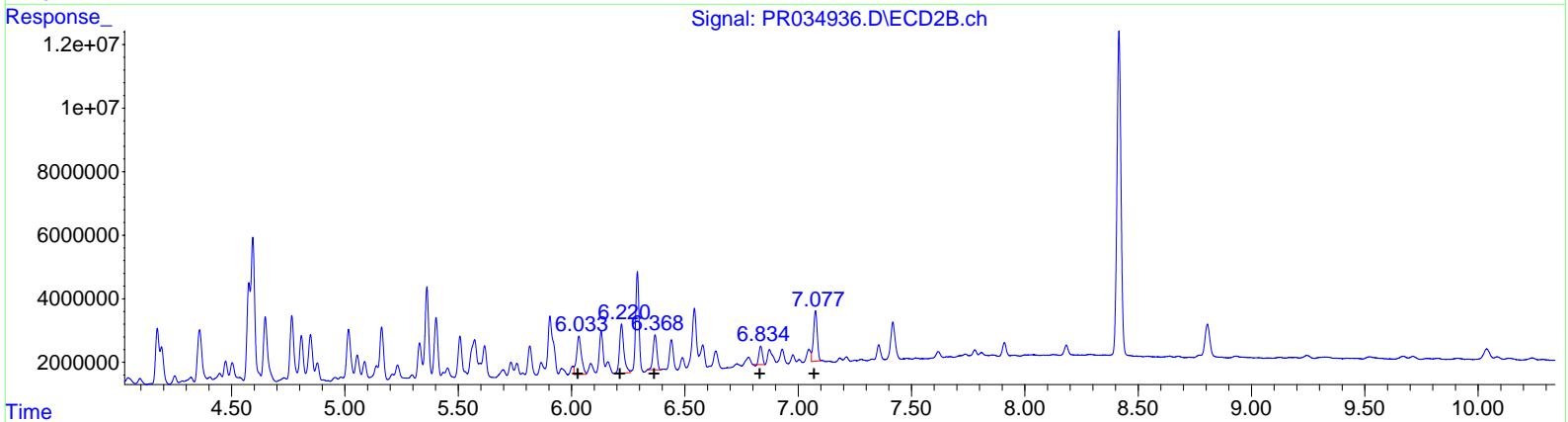
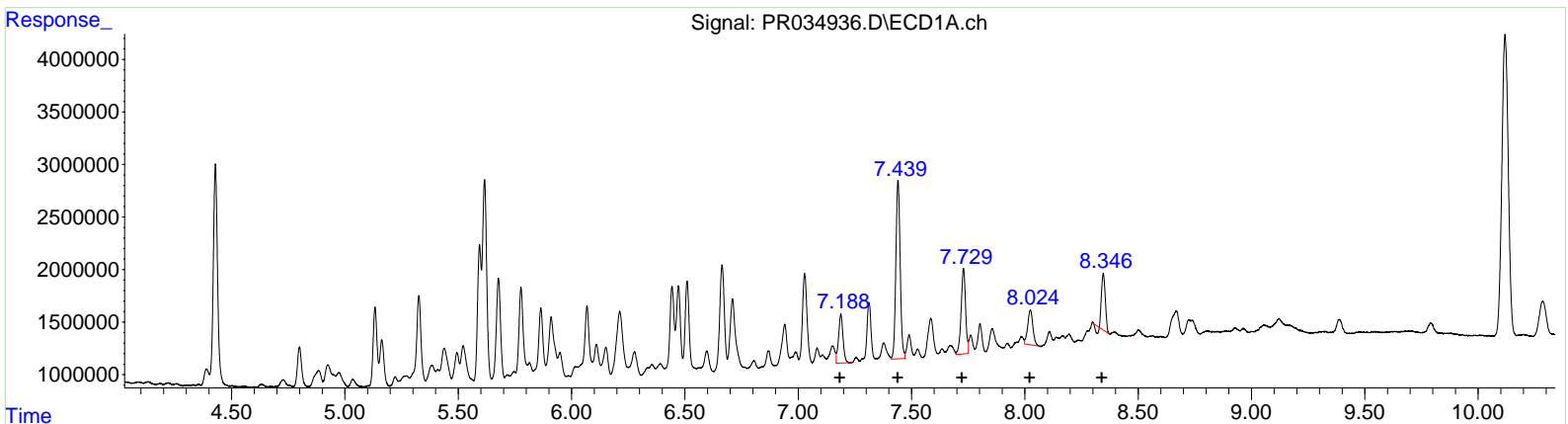
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 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X9

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:59 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 7.19 | 6397273 | 68.05 |
| 7.44 | 22470841 | 193.55 |
| 7.73 | 11081912 | 79.41 |
| 8.02 | 5235891 | 60.63 |
| 8.35 | 5864957 | 32.48 |
| (31) AR-1260-1 #2 (L7) | | |
| R.T. | Response | Conc |
| 6.03 | 18030740 | 83.87 |
| 6.22 | 20728191 | 76.17 |
| 6.37 | 12826042 | 51.67 |
| 6.83 | 5915317 | 34.59 |
| 7.08 | 18203704 | 37.64 |

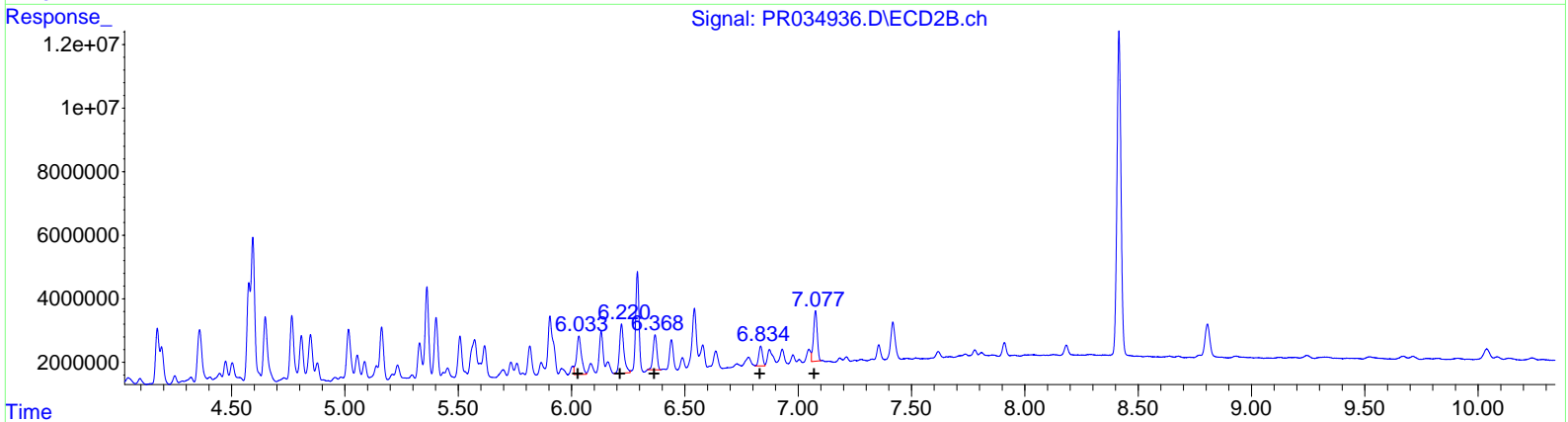
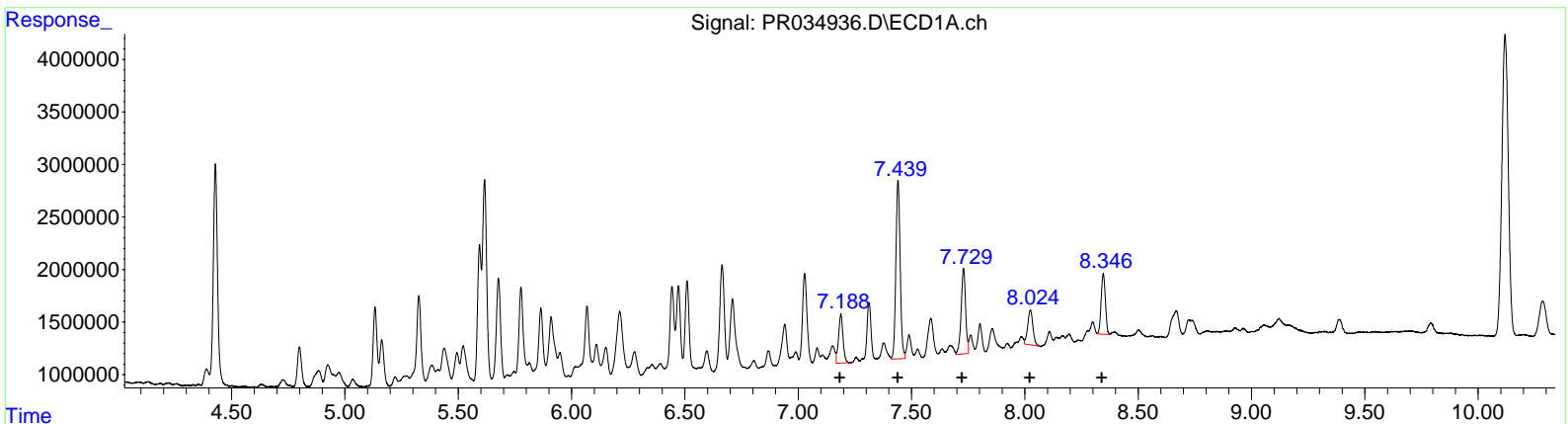
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X9

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:59 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 (L7) | | |
|---------------------|----------|--------|
| R.T. | Response | Conc |
| 7.19 | 6397273 | 68.05 |
| 7.44 | 22470841 | 193.55 |
| 7.73 | 11081912 | 79.41 |
| 8.02 | 5235891 | 60.63 |
| 8.35 | 7477359 | 41.41 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|----------|-------|
| R.T. | Response | Conc |
| 6.03 | 18030740 | 83.87 |
| 6.22 | 20728191 | 76.17 |
| 6.37 | 12826042 | 51.67 |
| 6.83 | 7085701 | 41.44 |
| 7.08 | 18203704 | 37.64 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034941.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:29
 Operator : SM\SJ
 Sample : J6431-13
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41X9

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:59 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:00 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|---------|---------|
| 1) SA Tetrachlo... | 4.428 | 3.514 | 27497980 | 60162918 | 14.138m | 17.258m |
| 2) SA Decachlor... | 10.119 | 8.415 | 56783384 | 126.5E6 | 28.884 | 28.763 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|-----------|
| 16) L4 AR-1242-1 | 5.594 | 4.577 | 13439886 | 26974158 | 231.707 | 237.630 |
| 17) L4 AR-1242-2 | 5.616 | 4.594 | 24599160 | 53914079 | 290.622 | 315.789 |
| 18) L4 AR-1242-3 | 5.678 | 4.766 | 12123483 | 22665202 | 241.934 | 267.495 |
| 19) L4 AR-1242-4 | 5.777 | 4.848 | 9099692 | 17987605 | 222.680 | 217.564 |
| 20) L4 AR-1242-5 | 6.510 | 5.362 | 10036958 | 31852864 | 217.916 | 286.381 # |
| 31) L7 AR-1260-1 | 7.189 | 6.032 | 6397273 | 18030740 | 68.050 | 83.875 |
| 32) L7 AR-1260-2 | 7.441 | 6.221 | 22470841 | 20728191 | 193.545 | 76.173 # |
| 33) L7 AR-1260-3 | 7.730 | 6.369 | 11081912 | 12826042 | 79.408 | 51.669 # |
| 34) L7 AR-1260-4 | 8.024 | 6.834 | 5235891 | 7085701 | 60.626 | 41.439m# |
| 35) L7 AR-1260-5 | 8.346 | 7.077 | 7477359 | 18203704 | 41.413m | 37.639 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y0

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-14
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034942.D
 % Solids : 65.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

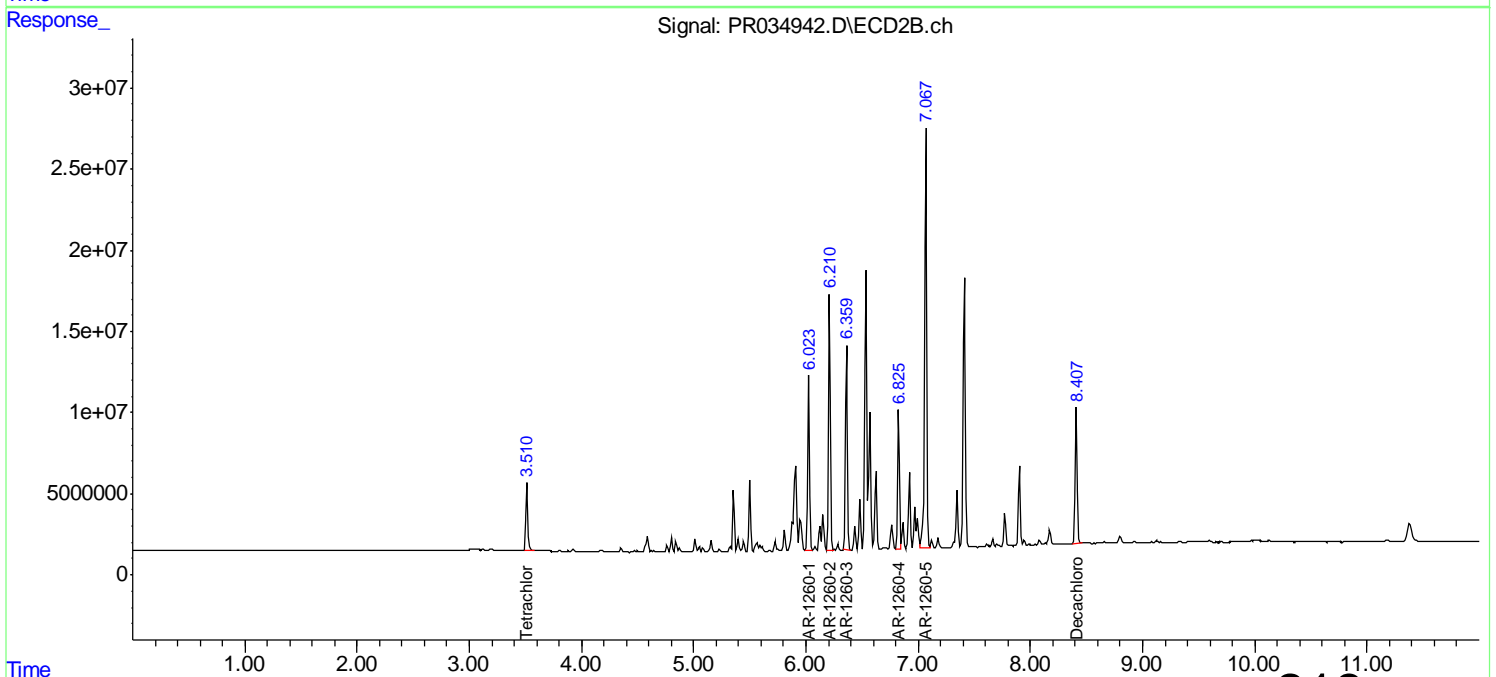
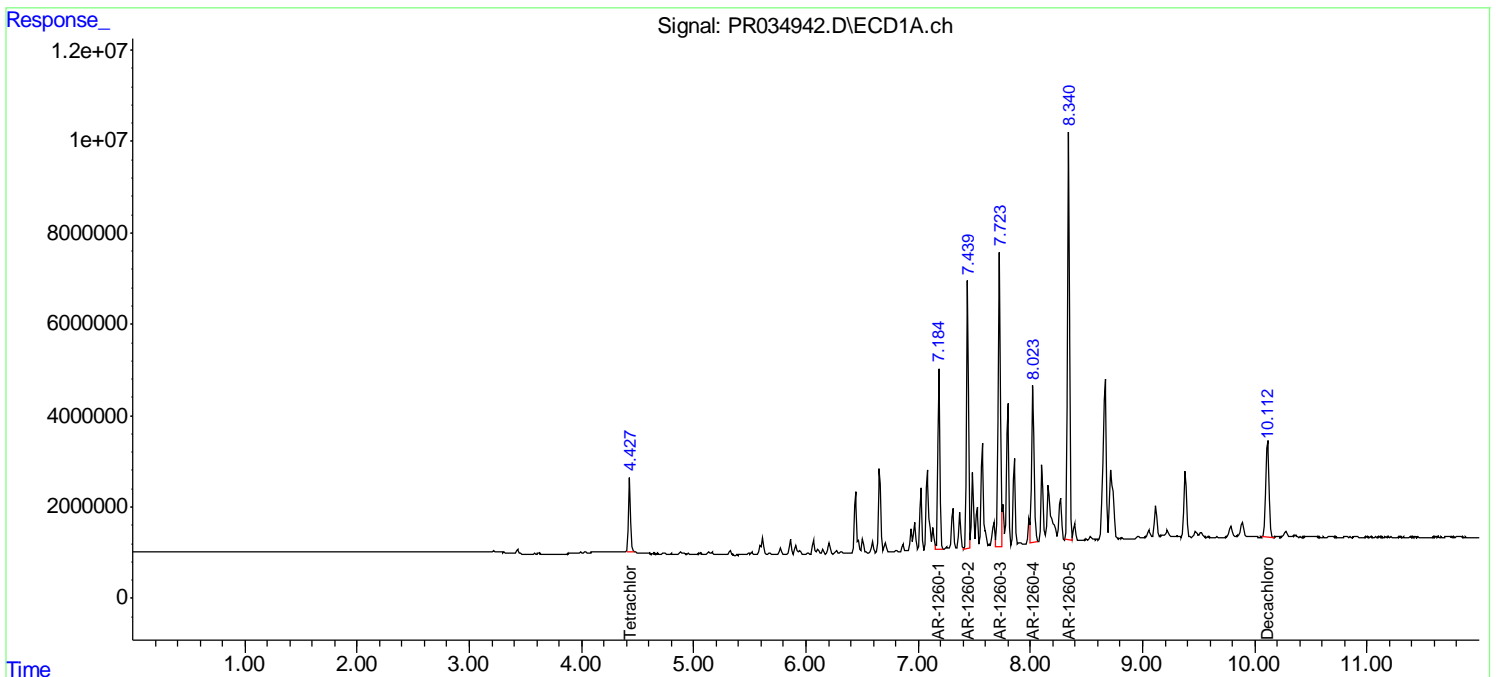
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 51 | U |
| 11104-28-2 | Aroclor-1221 | 51 | U |
| 11141-16-5 | Aroclor-1232 | 51 | U |
| 53469-21-9 | Aroclor-1242 | 51 | U |
| 12672-29-6 | Aroclor-1248 | 51 | U |
| 11097-69-1 | Aroclor-1254 | 51 | U |
| 11096-82-5 | Aroclor-1260 | 300 | |
| 37324-23-5 | Aroclor-1262 | 51 | U |
| 11100-14-4 | Aroclor-1268 | 51 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034942.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:44
 Operator : SM\SJ
 Sample : J6431-14
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y0

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034942.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:44
 Operator : SM\SJ
 Sample : J6431-14
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y0

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 20484194 | 48760721 | 10.532 | 13.987 # |
| 2) SA Decachlor... | 10.112 | 8.408 | 41649642 | 103.9E6 | 21.186 | 23.633 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.184 | 6.024 | 49812657 | 120.3E6 | 529.877 | 559.412 |
| 32) L7 AR-1260-2 | 7.440 | 6.210 | 73154673 | 169.1E6 | 630.094 | 621.482 |
| 33) L7 AR-1260-3 | 7.723 | 6.360 | 90263852 | 138.7E6 | 646.791 | 558.753 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 51481553 | 93076138 | 596.103 | 544.336 |
| 35) L7 AR-1260-5 | 8.340 | 7.067 | 115.8E6 | 308.0E6 | 641.538 | 636.728 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y1

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-15
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034943.D
 % Solids : 58.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 57 | U |
| 11104-28-2 | Aroclor-1221 | 57 | U |
| 11141-16-5 | Aroclor-1232 | 57 | U |
| 53469-21-9 | Aroclor-1242 | 57 | U |
| 12672-29-6 | Aroclor-1248 | 57 | U |
| 11097-69-1 | Aroclor-1254 | 57 | U |
| 11096-82-5 | Aroclor-1260 | 57 | U |
| 37324-23-5 | Aroclor-1262 | 57 | U |
| 11100-14-4 | Aroclor-1268 | 57 | U |

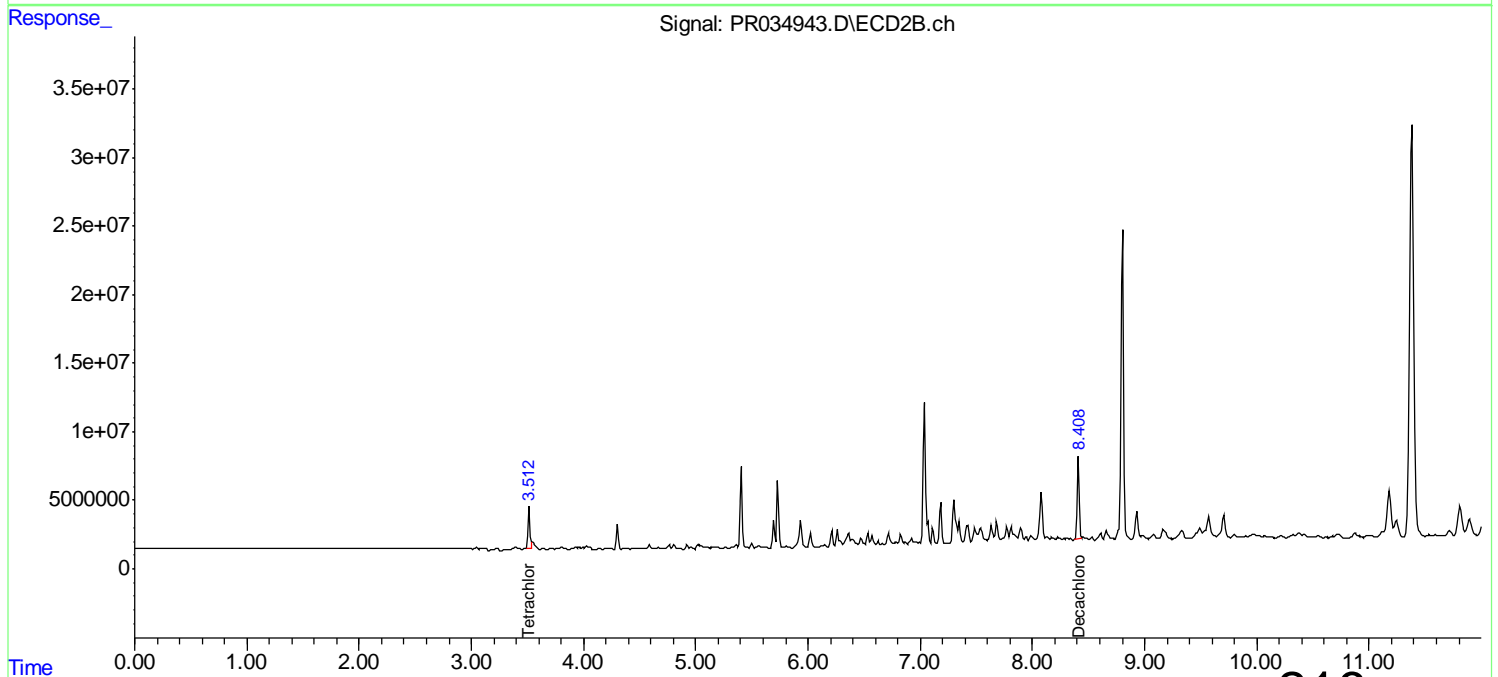
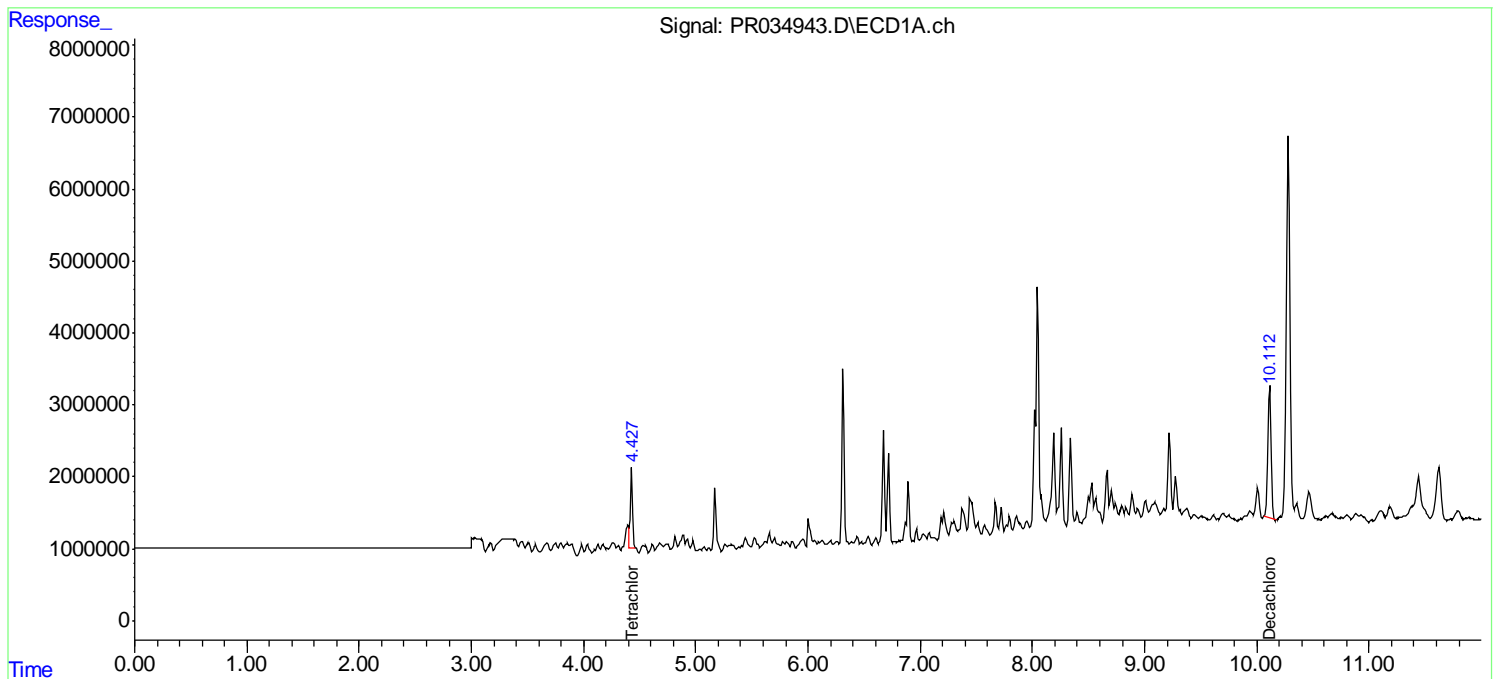
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
Data File : PR034943.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Dec 2018 18:58
Operator : SM\SJ
Sample : J6431-15
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
ECD_R
Client Sampled :
A41Y1

Manual Integrations
APPROVED
Sohil
12/21/2018 6:12:00 PM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 21 00:47:35 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034943.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:58
 Operator : SM\SJ
 Sample : J6431-15
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y1

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:12:00 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|----------|
| 1) SA Tetrachlo... | 4.427 | 3.512 | 15164414 | 34913395 | 7.796m | 10.015m# |
| 2) SA Decachlor... | 10.113 | 8.408 | 36818183 | 75415547 | 18.728 | 17.153 |

Target Compounds

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

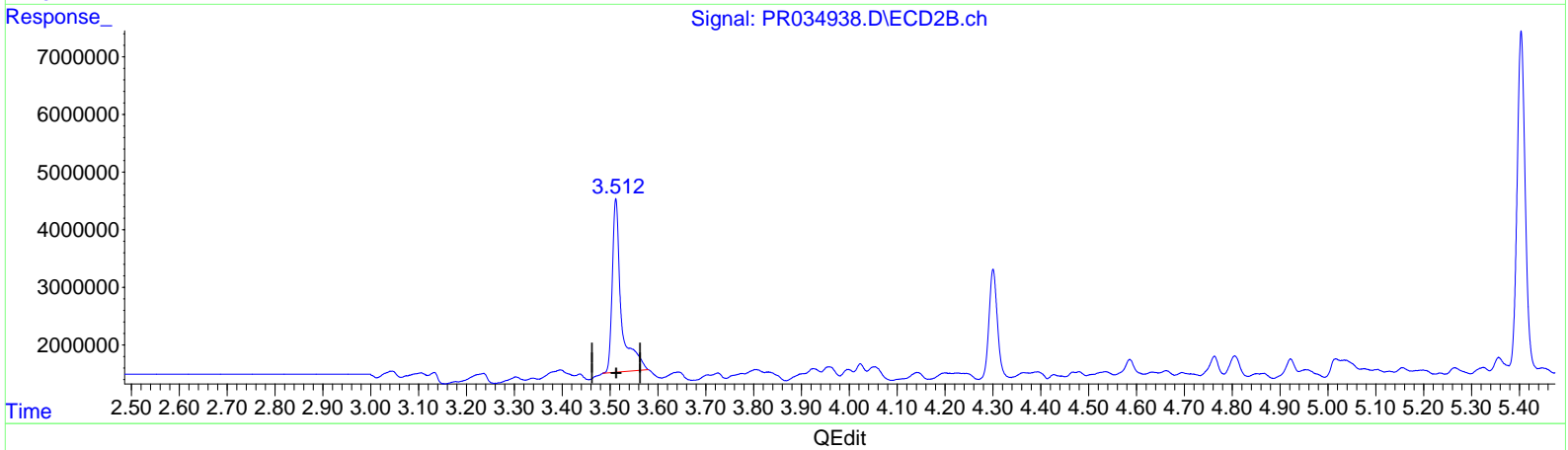
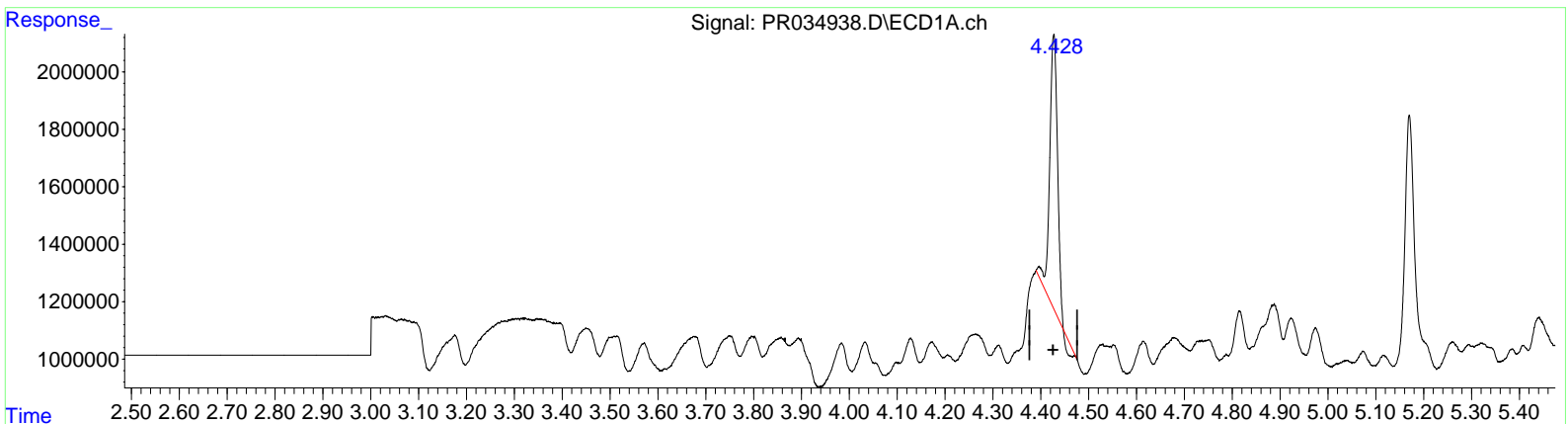
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034943.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:58
 Operator : SM\SJ
 Sample : J6431-15
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y1

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:12:00 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.427min 5.261 ng/ml
 response 10232501

(1) Tetrachloro-m-xylene #2 (SA)

3.512min 11.465 ng/ml
 response 39965904

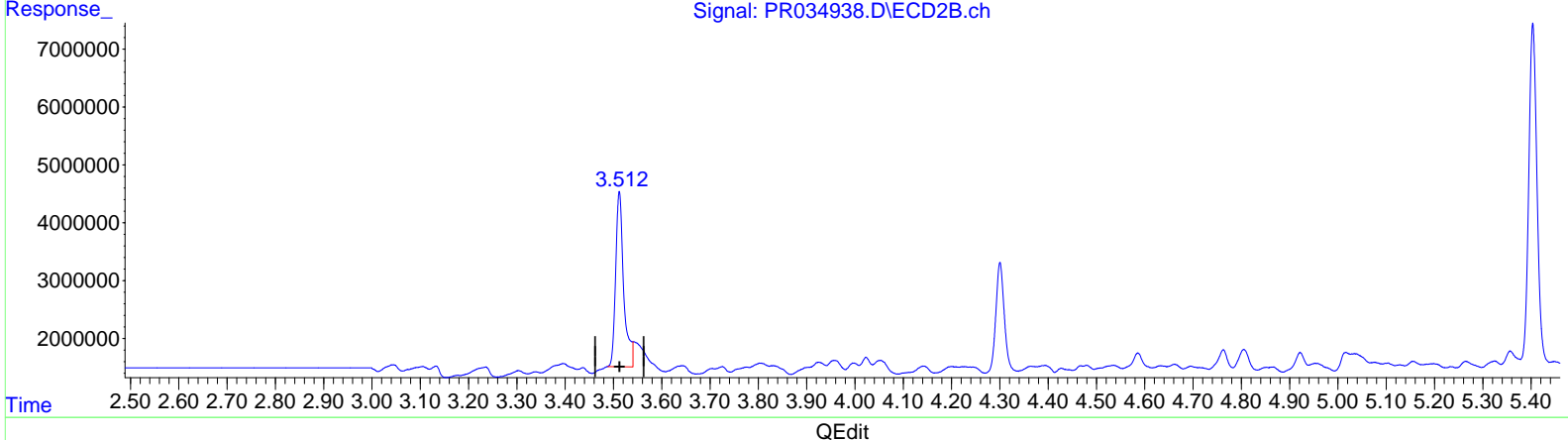
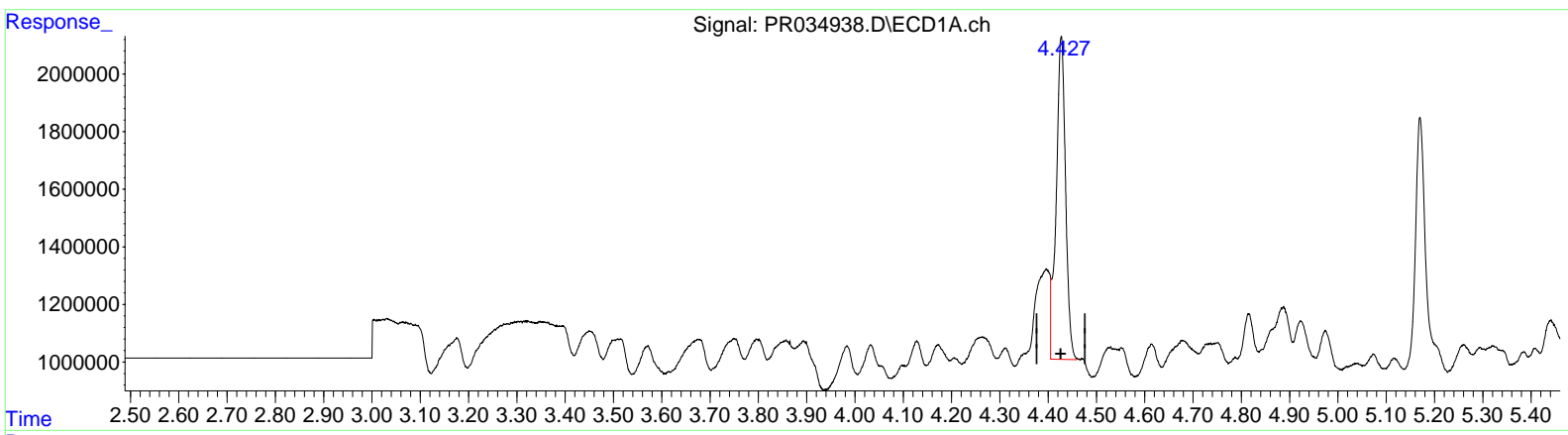
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034943.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:58
 Operator : SM\SJ
 Sample : J6431-15
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y1

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:12:00 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 7.796 ng/ml m
 response 15164414

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 10.015 ng/ml m
 response 34913395

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034943.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 18:58
 Operator : SM\SJ
 Sample : J6431-15
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:47:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:12:00 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 15164414 | 34913395 | 7.796m | 10.015m# |
| 2) SA Decachlor... | 10.113 | 8.408 | 36818183 | 75415547 | 18.728 | 17.153 |

> SJ
 12/28/18

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-16
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034994.D
 % Solids : 56.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

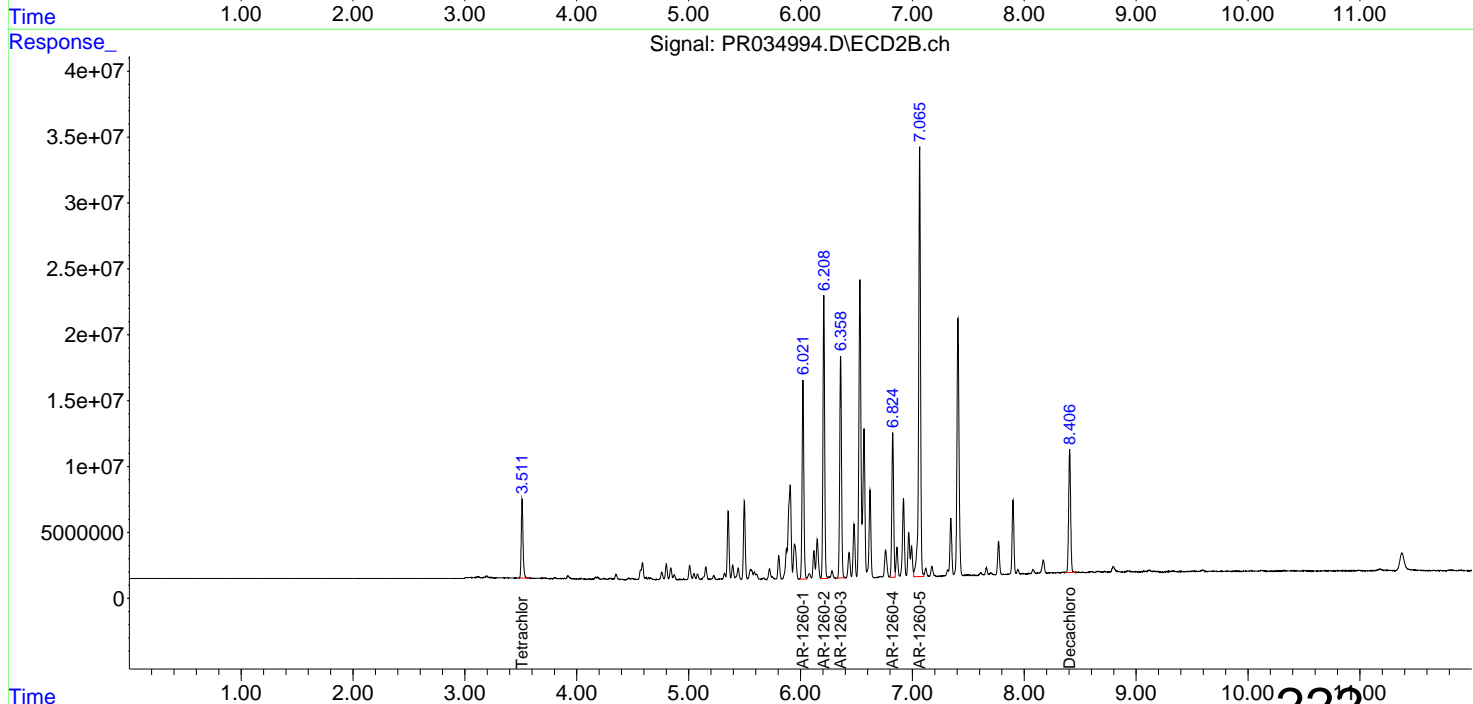
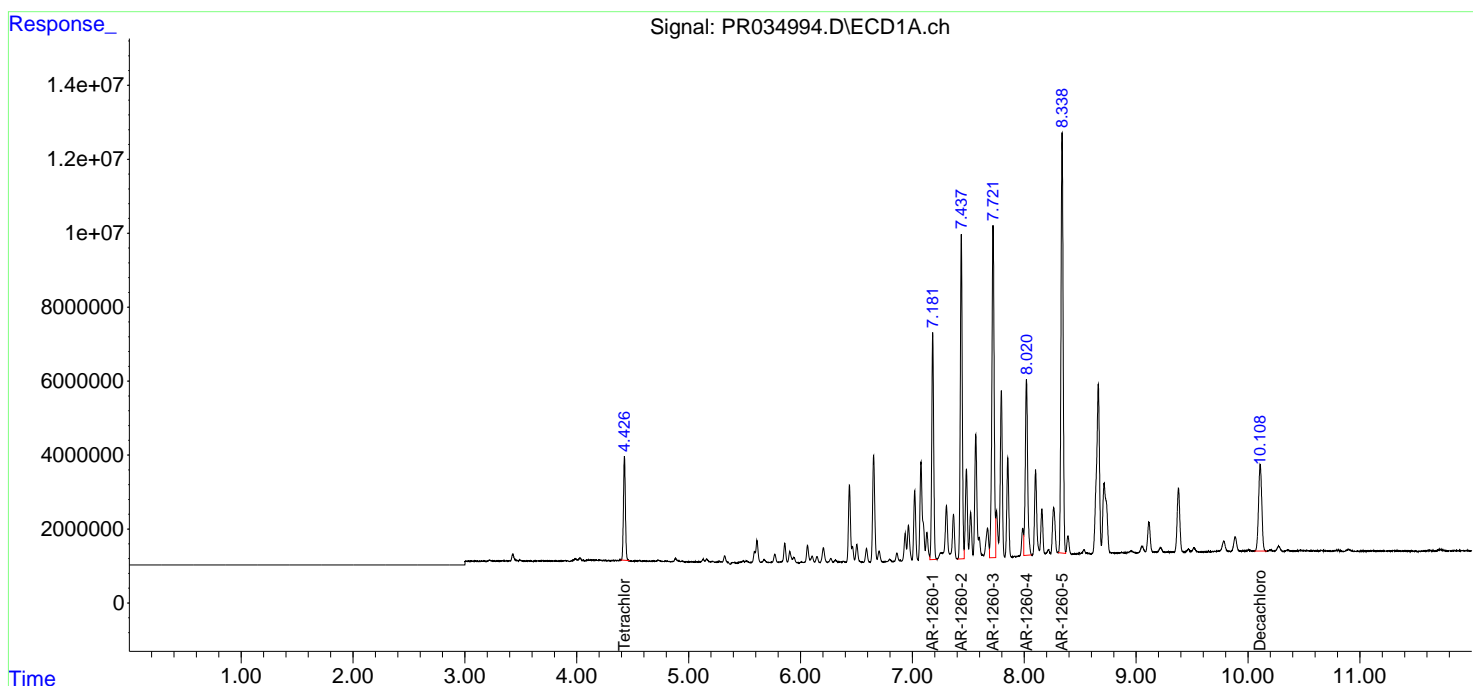
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 58 | U |
| 11104-28-2 | Aroclor-1221 | 58 | U |
| 11141-16-5 | Aroclor-1232 | 58 | U |
| 53469-21-9 | Aroclor-1242 | 58 | U |
| 12672-29-6 | Aroclor-1248 | 58 | U |
| 11097-69-1 | Aroclor-1254 | 58 | U |
| 11096-82-5 | Aroclor-1260 | 460 | |
| 37324-23-5 | Aroclor-1262 | 58 | U |
| 11100-14-4 | Aroclor-1268 | 58 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034994.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:44
 Operator : SM\SJ
 Sample : J6431-16
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:22:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034994.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:44
 Operator : SM\SJ
 Sample : J6431-16
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:22:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 33802971 | 66408510 | 17.379 | 19.050 |
| 2) SA Decachlor... | 10.109 | 8.406 | 46724342 | 115.0E6 | 23.767 | 26.154 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 73981771 | 164.1E6 | 786.973 | 763.290 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 105.7E6 | 228.1E6 | 910.717 | 838.382 |
| 33) L7 AR-1260-3 | 7.721 | 6.359 | 127.7E6 | 189.5E6 | 914.973 | 763.413 |
| 34) L7 AR-1260-4 | 8.020 | 6.825 | 70501978 | 124.0E6 | 816.339 | 725.464 |
| 35) L7 AR-1260-5 | 8.338 | 7.065 | 151.3E6 | 386.2E6 | 837.973 | 798.596 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y3

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-17
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034945.D
 % Solids : 61.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

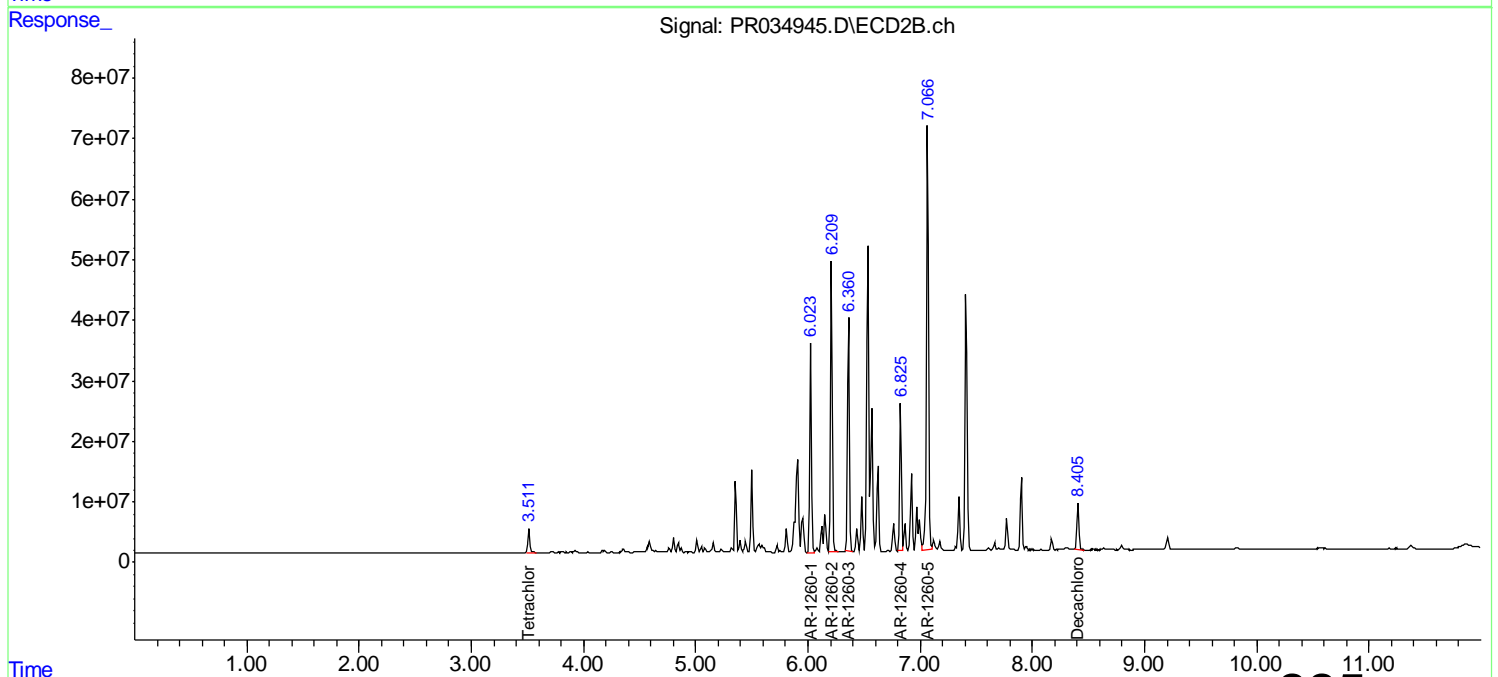
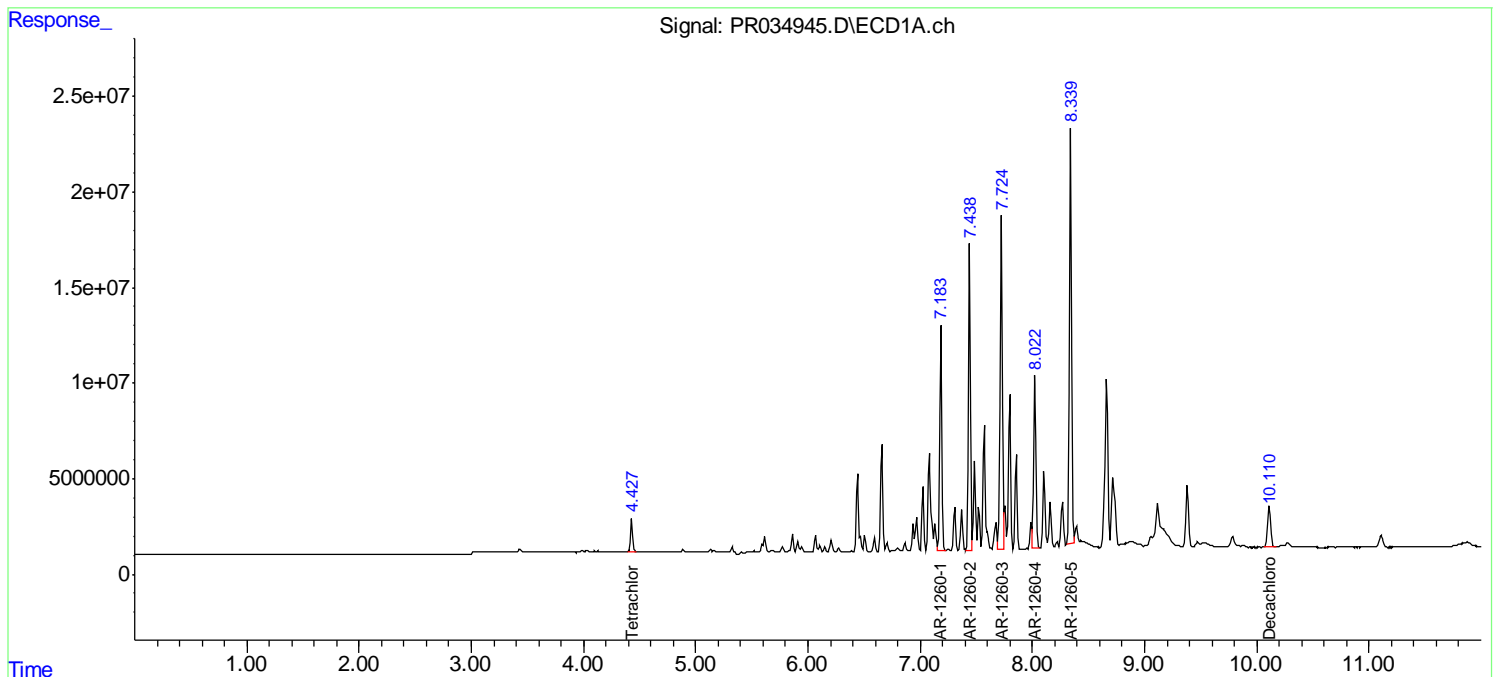
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 54 | U |
| 11104-28-2 | Aroclor-1221 | 54 | U |
| 11141-16-5 | Aroclor-1232 | 54 | U |
| 53469-21-9 | Aroclor-1242 | 54 | U |
| 12672-29-6 | Aroclor-1248 | 54 | U |
| 11097-69-1 | Aroclor-1254 | 54 | U |
| 11096-82-5 | Aroclor-1260 | 870 | E |
| 37324-23-5 | Aroclor-1262 | 54 | U |
| 11100-14-4 | Aroclor-1268 | 54 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034945.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 19:27
 Operator : SM\SJ
 Sample : J6431-17
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y3

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:48:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034945.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 19:27
 Operator : SM\SJ
 Sample : J6431-17
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y3

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:48:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.427 | 3.512 | 21415721 | 45038475 | 11.010 | 12.920 |
| 2) SA Decachlor... | 10.110 | 8.406 | 42010477 | 98261447 | 21.369 | 22.349 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|---------|----------|----------|
| 31) L7 AR-1260-1 | 7.183 | 6.024 | 144.7E6 | 367.1E6 | 1539.721 | 1707.660 |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 197.3E6 | 520.0E6 | 1699.714 | 1910.861 |
| 33) L7 AR-1260-3 | 7.724 | 6.360 | 241.2E6 | 422.8E6 | 1728.393 | 1703.134 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 126.1E6 | 263.7E6 | 1459.749 | 1542.063 |
| 35) L7 AR-1260-5 | 8.340 | 7.067 | 287.9E6 | 851.9E6 | 1594.279 | 1761.324 |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y3DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-17DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034995.D
 % Solids : 61.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 2.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

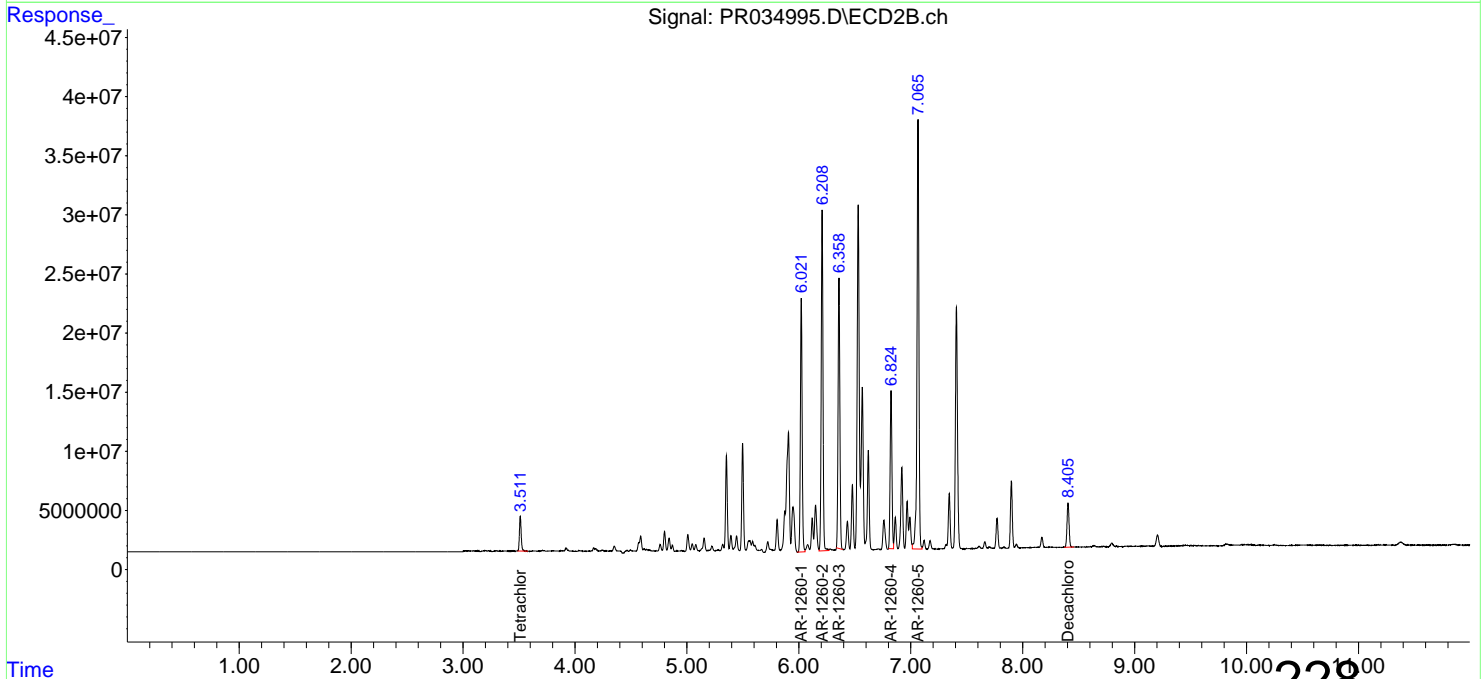
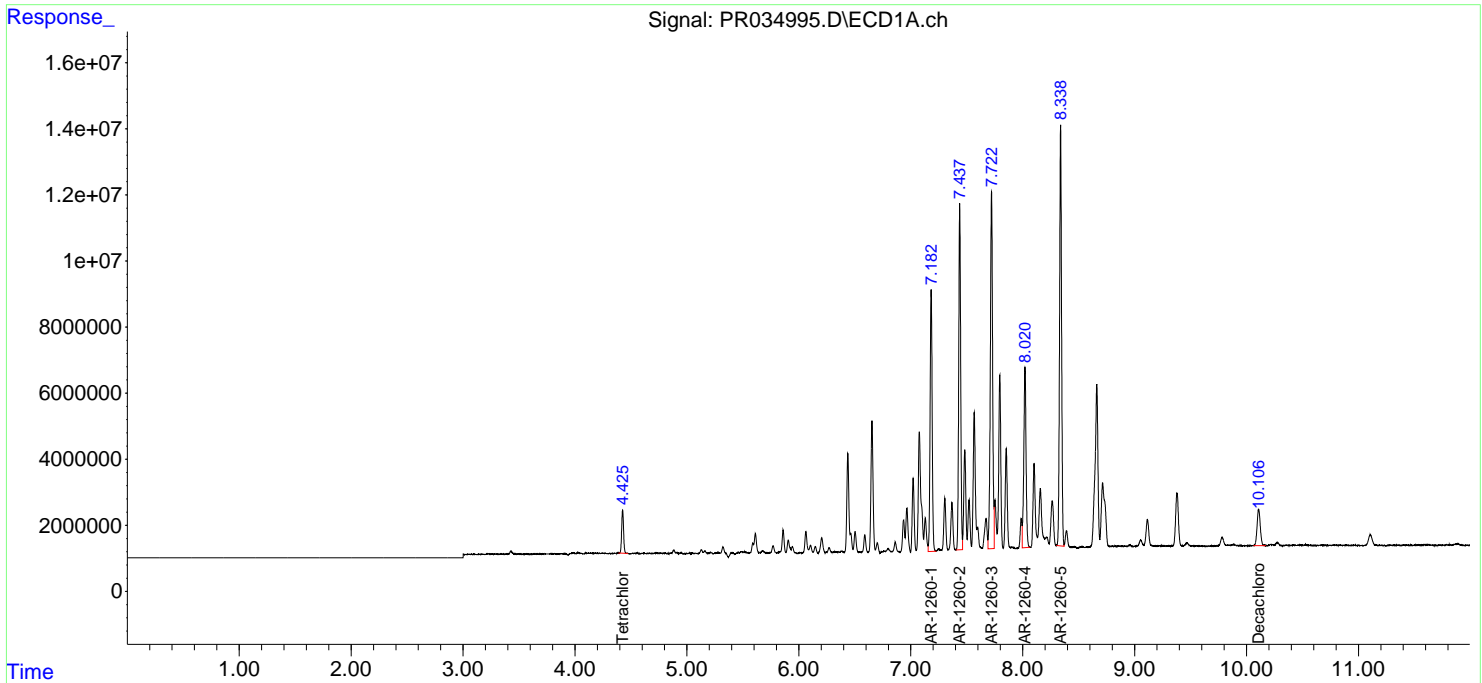
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 110 | U |
| 11104-28-2 | Aroclor-1221 | 110 | U |
| 11141-16-5 | Aroclor-1232 | 110 | U |
| 53469-21-9 | Aroclor-1242 | 110 | U |
| 12672-29-6 | Aroclor-1248 | 110 | U |
| 11097-69-1 | Aroclor-1254 | 110 | U |
| 11096-82-5 | Aroclor-1260 | 1100 | D |
| 37324-23-5 | Aroclor-1262 | 110 | U |
| 11100-14-4 | Aroclor-1268 | 110 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034995.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:59
 Operator : SM\SJ
 Sample : J6431-17DL 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41Y3DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:59:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034995.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 20:59
 Operator : SM\SJ
 Sample : J6431-17DL 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y3DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:59:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 15453264 | 32001501 | 7.945 | 9.180 |
| 2) SA Decachlor... | 10.108 | 8.405 | 21873982 | 47601298 | 11.127 | 10.827 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 101.0E6 | 233.9E6 | 1074.813 | 1087.967 |
| 32) L7 AR-1260-2 | 7.437 | 6.208 | 127.1E6 | 314.3E6 | 1095.136 | 1154.951 |
| 33) L7 AR-1260-3 | 7.722 | 6.359 | 152.3E6 | 251.8E6 | 1091.647 | 1014.545 |
| 34) L7 AR-1260-4 | 8.021 | 6.824 | 76695621 | 148.7E6 | 888.055 | 869.689 |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 160.3E6 | 435.4E6 | 887.945 | 900.319 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z4

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-18
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034946.D
 % Solids : 100 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

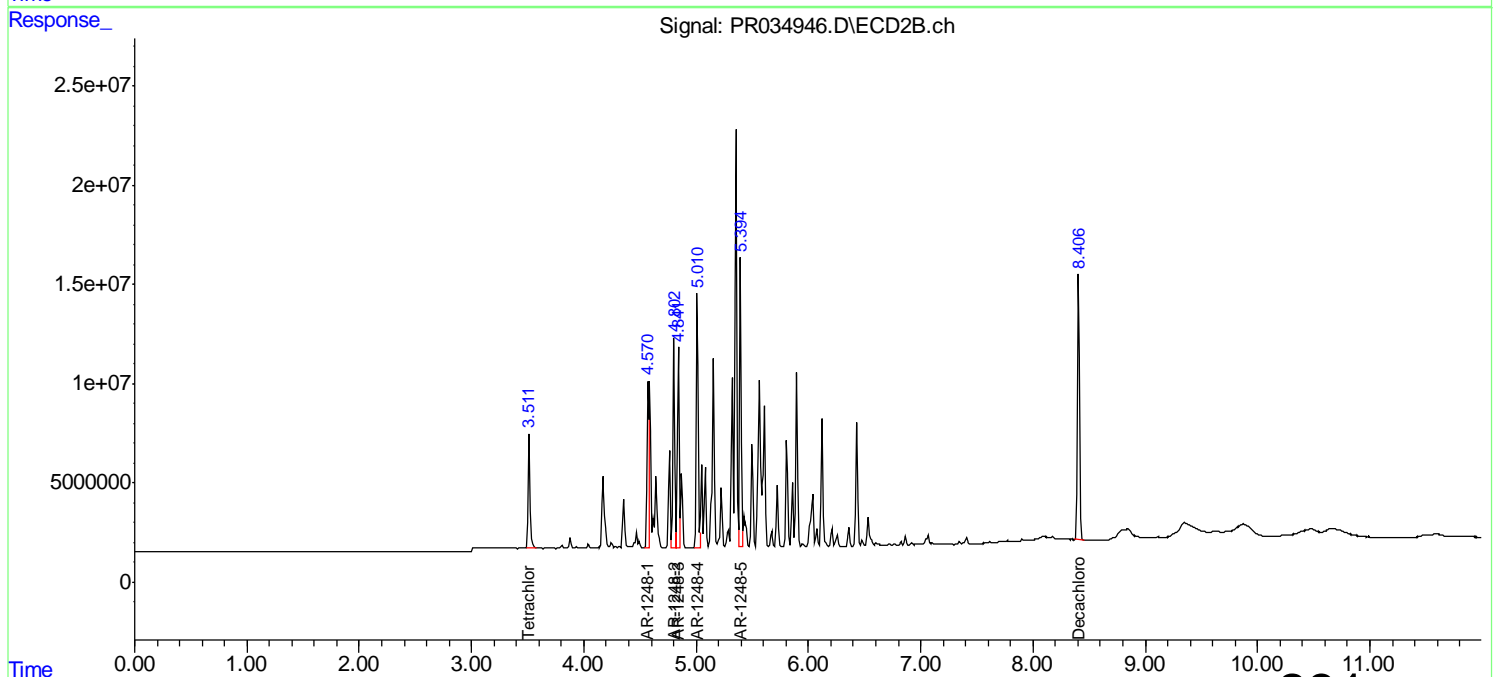
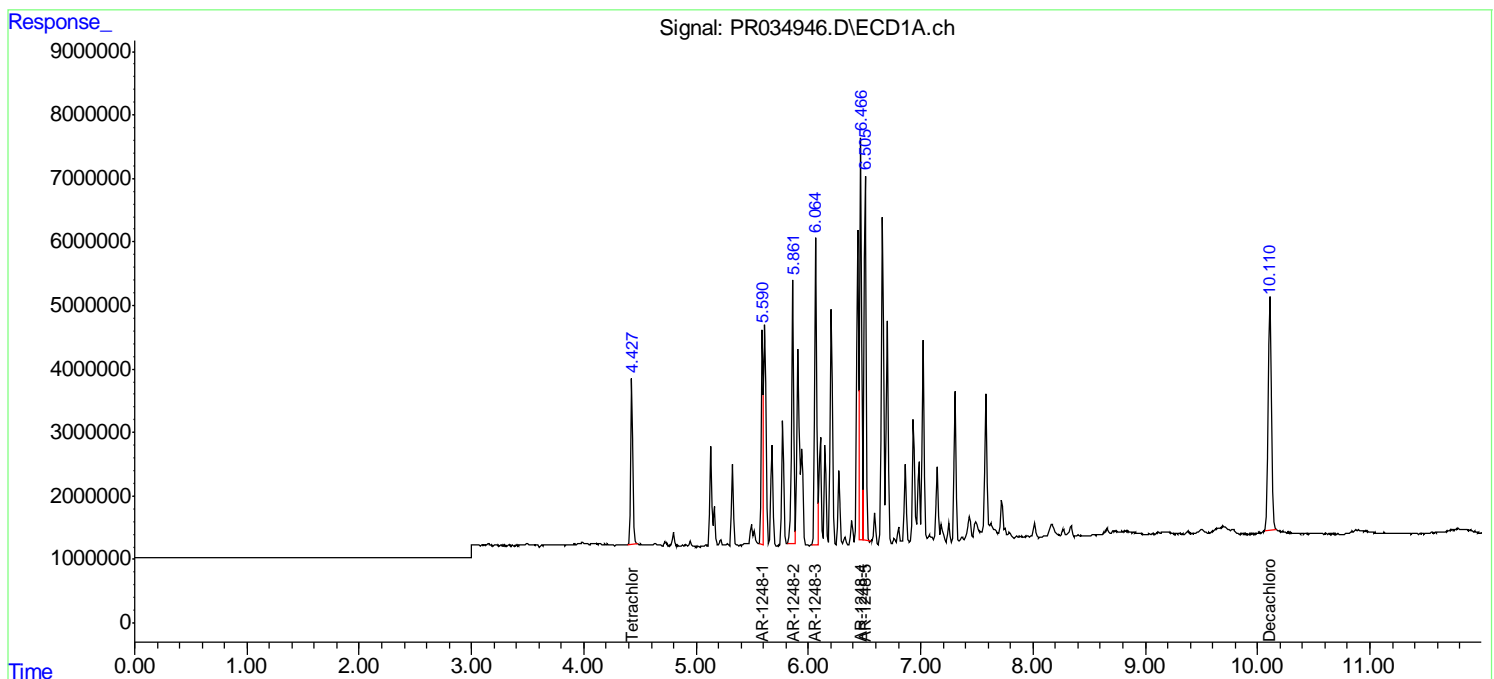
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 280 | |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
Data File : PR034946.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Dec 2018 19:41
Operator : SM\SJ
Sample : J6431-18
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
A41Z4

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 21 03:11:22 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034946.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 19:41
 Operator : SM\SJ
 Sample : J6431-18
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Z4

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 03:11:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 33330948 | 66284352 | 17.136 | 19.014 |
| 2) SA Decachlor... | 10.111 | 8.406 | 75249845 | 167.0E6 | 38.277 | 37.980 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.571 | 39591953 | 82723320 | 815.948 | 848.430 |
| 22) L5 AR-1248-2 | 5.861 | 4.802 | 54838769 | 111.7E6 | 829.966 | 871.732 |
| 23) L5 AR-1248-3 | 6.065 | 4.842 | 63212748 | 117.4E6 | 846.053 | 889.755 |
| 24) L5 AR-1248-4 | 6.466 | 5.010 | 75754714 | 144.5E6 | 847.881 | 878.383 |
| 25) L5 AR-1248-5 | 6.505 | 5.394 | 72321387 | 155.7E6 | 864.383 | 930.223 |
| ----- | | | | | | |

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

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|-------|-------|-------|-------|-------|-----------|-------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1016 | 1 | 5.60 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1016 | 2 | 5.62 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.54 | 5.68 |
| Aroclor-1016 | 3 | 5.68 | 5.68 | 5.68 | 5.67 | 5.67 | 5.68 | 5.61 | 5.75 |
| Aroclor-1016 | 4 | 5.78 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.70 | 5.84 |
| Aroclor-1016 | 5 | 6.07 | 6.07 | 6.07 | 6.07 | 6.06 | 6.07 | 6.00 | 6.14 |
| Aroclor-1260 | 1 | 7.19 | 7.18 | 7.18 | 7.18 | 7.18 | 7.19 | 7.12 | 7.26 |
| Aroclor-1260 | 2 | 7.45 | 7.44 | 7.44 | 7.44 | 7.44 | 7.44 | 7.37 | 7.51 |
| Aroclor-1260 | 3 | 7.73 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.65 | 7.79 |
| Aroclor-1260 | 4 | 8.03 | 8.02 | 8.02 | 8.02 | 8.02 | 8.02 | 7.95 | 8.09 |
| Aroclor-1260 | 5 | 8.35 | 8.34 | 8.34 | 8.34 | 8.34 | 8.34 | 8.27 | 8.41 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.13 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1242 | 1 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1242 | 2 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.54 | 5.68 |
| Aroclor-1242 | 3 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.60 | 5.74 |
| Aroclor-1242 | 4 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.70 | 5.84 |
| Aroclor-1242 | 5 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.43 | 6.57 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1248 | 1 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1248 | 2 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.79 | 5.93 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|-------|-------|-------|-------|-------|-----------|-------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1248 | 3 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 5.99 | 6.13 |
| Aroclor-1248 | 4 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.40 | 6.54 |
| Aroclor-1248 | 5 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.43 | 6.57 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1254 | 1 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.37 | 6.51 |
| Aroclor-1254 | 2 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.59 | 6.73 |
| Aroclor-1254 | 3 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.95 | 7.09 |
| Aroclor-1254 | 4 | 7.31 | 7.31 | 7.31 | 7.31 | 7.31 | 7.30 | 7.23 | 7.37 |
| Aroclor-1254 | 5 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.65 | 7.79 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|------|------|------|------|------|-----------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1016 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1016 | 2 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.52 | 4.66 |
| Aroclor-1016 | 3 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.69 | 4.83 |
| Aroclor-1016 | 4 | 4.81 | 4.81 | 4.81 | 4.81 | 4.81 | 4.80 | 4.73 | 4.87 |
| Aroclor-1016 | 5 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.94 | 5.08 |
| Aroclor-1260 | 1 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 5.96 | 6.10 |
| Aroclor-1260 | 2 | 6.22 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.14 | 6.28 |
| Aroclor-1260 | 3 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.30 | 6.44 |
| Aroclor-1260 | 4 | 6.83 | 6.83 | 6.83 | 6.83 | 6.83 | 6.83 | 6.76 | 6.90 |
| Aroclor-1260 | 5 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.00 | 7.14 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.42 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1242 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1242 | 2 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.52 | 4.66 |
| Aroclor-1242 | 3 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.69 | 4.83 |
| Aroclor-1242 | 4 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.84 | 4.77 | 4.91 |
| Aroclor-1242 | 5 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.29 | 5.43 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.42 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1248 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1248 | 2 | 4.80 | 4.80 | 4.81 | 4.81 | 4.80 | 4.80 | 4.73 | 4.87 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|------|------|------|------|------|-----------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1248 | 3 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.84 | 4.77 | 4.91 |
| Aroclor-1248 | 4 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.94 | 5.08 |
| Aroclor-1248 | 5 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.33 | 5.47 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1254 | 1 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.29 | 5.43 |
| Aroclor-1254 | 2 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.43 | 5.57 |
| Aroclor-1254 | 3 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.83 | 5.97 |
| Aroclor-1254 | 4 | 6.12 | 6.12 | 6.13 | 6.12 | 6.12 | 6.12 | 6.05 | 6.19 |
| Aroclor-1254 | 5 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.47 | 6.61 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | CF | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1016 | 1 | 85496790 | 67391880 | 61120593 | 65173403 | 58333319 | 67503197 | 15.8 |
| Aroclor-1016 | 2 | 121198880 | 98315265 | 90585548 | 96852955 | 88181963 | 99026922 | 13.2 |
| Aroclor-1016 | 3 | 71272310 | 60687515 | 54189475 | 57025470 | 51103869 | 58855728 | 13.2 |
| Aroclor-1016 | 4 | 58247010 | 46212995 | 43465063 | 46938168 | 42321286 | 47436904 | 13.4 |
| Aroclor-1016 | 5 | 59138380 | 46227095 | 44167588 | 46864665 | 41740051 | 47627556 | 14.2 |
| Aroclor-1260 | 1 | 116211160 | 94822230 | 87790395 | 87821795 | 83394446 | 94008005 | 13.9 |
| Aroclor-1260 | 2 | 136268590 | 117692900 | 110776323 | 108674915 | 107093126 | 116101171 | 10.3 |
| Aroclor-1260 | 3 | 149970600 | 144422430 | 136454755 | 133014001 | 133920246 | 139556407 | 5.3 |
| Aroclor-1260 | 4 | 99037500 | 89528380 | 82993353 | 79578783 | 80679901 | 86363583 | 9.3 |
| Aroclor-1260 | 5 | 199787780 | 185931315 | 174704768 | 166706504 | 175638296 | 180553733 | 7.1 |
| TCX | | 2315065600 | 1821388000 | 1801669700 | 1966341425 | 1820690275 | 1945031000 | 11.2 |
| DCB | | 2253143000 | 2070602500 | 1905299975 | 1759567075 | 1841000256 | 1965922561 | 10.0 |
| Aroclor-1242 | 1 | 73434920 | 59234540 | 56752480 | 51612086 | 48984377 | 58003681 | 16.4 |
| Aroclor-1242 | 2 | 107284840 | 84459955 | 83467020 | 75928881 | 72075621 | 84643264 | 16.2 |
| Aroclor-1242 | 3 | 63402990 | 50756345 | 49480828 | 44905008 | 42008516 | 50110737 | 16.4 |
| Aroclor-1242 | 4 | 50455360 | 40723785 | 40716393 | 37261200 | 35165084 | 40864364 | 14.4 |
| Aroclor-1242 | 5 | 56608810 | 47261120 | 45390703 | 41863173 | 39170793 | 46058920 | 14.5 |
| TCX | | 2532855800 | 2067425400 | 2135748100 | 1952182600 | 1906279725 | 2118898325 | 11.7 |
| DCB | | 2523157100 | 2270970250 | 2117249300 | 1998509113 | 1912162075 | 2164409568 | 11.2 |
| Aroclor-1248 | 1 | 56446150 | 50668385 | 47893945 | 44288589 | 43316076 | 48522629 | 10.9 |
| Aroclor-1248 | 2 | 78551880 | 68784645 | 64666478 | 60080586 | 58283929 | 66073504 | 12.2 |
| Aroclor-1248 | 3 | 86628030 | 77695080 | 73424098 | 68721280 | 67106099 | 74714917 | 10.5 |
| Aroclor-1248 | 4 | 107588580 | 92661375 | 86666585 | 81118309 | 78694835 | 89345937 | 12.9 |
| Aroclor-1248 | 5 | 99982150 | 85728530 | 81640875 | 76624205 | 74365419 | 83668236 | 12.1 |
| TCX | | 2119301800 | 1931145800 | 1894169450 | 1829214000 | 1870424638 | 1928851138 | 5.8 |
| DCB | | 2426017300 | 2156027800 | 1998708200 | 1877127413 | 1845799963 | 2060736135 | 11.5 |
| Aroclor-1254 | 1 | 95947180 | 87934265 | 80881718 | 73353954 | 70408014 | 81705026 | 12.8 |
| Aroclor-1254 | 2 | 150975500 | 136739780 | 124792905 | 115012931 | 111362033 | 127776630 | 12.7 |
| Aroclor-1254 | 3 | 157134160 | 143459175 | 130546753 | 122456906 | 121263259 | 134972051 | 11.3 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | \overline{CF} | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|-----------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1254 | 4 | 124749530 | 113413365 | 102506298 | 95696304 | 94023850 | 106077869 | 12.2 |
| Aroclor-1254 | 5 | 120773060 | 111491880 | 104908598 | 99416665 | 99126570 | 107143355 | 8.5 |
| TCX | | 1983569800 | 1929948300 | 1982881200 | 1868043500 | 1746908775 | 1902270315 | 5.2 |
| DCB | | 2377497600 | 2168056400 | 1958465425 | 1845521300 | 1828161931 | 2035540531 | 11.5 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030

Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6

Analytical Method: ARO

Instrument ID: ECD_R

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18

Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | CF | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1016 | 1 | 157117160 | 127028410 | 119146060 | 128645489 | 118685290 | 130124482 | 12.1 |
| Aroclor-1016 | 2 | 232414680 | 189037150 | 182058538 | 199857899 | 184883003 | 197650254 | 10.4 |
| Aroclor-1016 | 3 | 113573320 | 92047760 | 88926370 | 96564743 | 89467639 | 96115966 | 10.6 |
| Aroclor-1016 | 4 | 91010360 | 74229715 | 70253605 | 74532966 | 67718408 | 75549011 | 12.0 |
| Aroclor-1016 | 5 | 125099600 | 100573425 | 95000830 | 100803125 | 92652112 | 102825818 | 12.6 |
| Aroclor-1260 | 1 | 255381590 | 211874845 | 201181418 | 204229259 | 202193869 | 214972196 | 10.7 |
| Aroclor-1260 | 2 | 314486160 | 268605460 | 257464270 | 257754575 | 262297405 | 272121574 | 8.9 |
| Aroclor-1260 | 3 | 284780880 | 242578275 | 234240683 | 237008906 | 242570535 | 248235856 | 8.4 |
| Aroclor-1260 | 4 | 191773850 | 171225865 | 164201450 | 159643493 | 168106943 | 170990320 | 7.3 |
| Aroclor-1260 | 5 | 539882330 | 489288430 | 458191698 | 447259764 | 483604640 | 483645372 | 7.4 |
| TCX | | 4031338000 | 3299133900 | 3194921700 | 3553827150 | 3350929650 | 3486030080 | 9.5 |
| DCB | | 4808872200 | 4521520750 | 4239536000 | 4047548875 | 4365854869 | 4396666539 | 6.6 |
| Aroclor-1242 | 1 | 142359350 | 113228610 | 110551130 | 102524343 | 98904065 | 113513500 | 15.1 |
| Aroclor-1242 | 2 | 209373620 | 166559435 | 168793028 | 157202891 | 151710909 | 170727977 | 13.3 |
| Aroclor-1242 | 3 | 103521700 | 84110860 | 83411880 | 77954895 | 74657106 | 84731288 | 13.2 |
| Aroclor-1242 | 4 | 105626630 | 82959070 | 80620505 | 74195453 | 69984393 | 82677210 | 16.7 |
| Aroclor-1242 | 5 | 138269220 | 107619185 | 108833723 | 103115814 | 98289064 | 111225401 | 14.1 |
| TCX | | 4532430400 | 3719463500 | 3921157250 | 3646815475 | 3608610813 | 3885695488 | 9.8 |
| DCB | | 5549508500 | 5035108650 | 4786424650 | 4685774675 | 4585200031 | 4928403301 | 7.8 |
| Aroclor-1248 | 1 | 113959240 | 99457945 | 95561473 | 89848276 | 88681523 | 97501691 | 10.4 |
| Aroclor-1248 | 2 | 150379560 | 131285520 | 125359555 | 117592488 | 115894935 | 128102412 | 10.9 |
| Aroclor-1248 | 3 | 154831880 | 135077550 | 129110145 | 121291318 | 119575024 | 131977183 | 10.8 |
| Aroclor-1248 | 4 | 192259690 | 166553390 | 160485315 | 152238820 | 151114278 | 164530299 | 10.2 |
| Aroclor-1248 | 5 | 191977840 | 168997935 | 163767980 | 156372539 | 155662157 | 167355690 | 8.9 |
| TCX | | 4111601600 | 3775626600 | 3742002750 | 3611638450 | 3738220563 | 3795817993 | 4.9 |
| DCB | | 5349726300 | 4793425200 | 4565132225 | 4416972063 | 4435183488 | 4712087855 | 8.2 |
| Aroclor-1254 | 1 | 281480250 | 258431750 | 241837580 | 223585224 | 218133568 | 244693674 | 10.6 |
| Aroclor-1254 | 2 | 246735360 | 224872385 | 207186038 | 194074703 | 190579085 | 212689514 | 11.0 |
| Aroclor-1254 | 3 | 402913790 | 374137370 | 345484603 | 331728594 | 332327092 | 357318290 | 8.6 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | \overline{CF} | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|-----------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1254 | 4 | 271819590 | 248194315 | 225145143 | 217542819 | 218249933 | 236190360 | 9.9 |
| Aroclor-1254 | 5 | 361503220 | 335875350 | 303818353 | 294825795 | 298686214 | 318941786 | 9.0 |
| TCX | | 4024984000 | 3819388600 | 3917264450 | 3731199000 | 3508785813 | 3800324373 | 5.2 |
| DCB | | 5319766400 | 4887795050 | 4504330775 | 4367435300 | 4429745281 | 4701814561 | 8.5 |

FORM 6F-OR

INITIAL CALIBRATION (SINGLE POINT) OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | AMOUNT (ng) | PEAK | RT | RT WINDOW | | CALIBRATION FACTOR |
|--------------|----------------|------|------|-----------|------|-----------------------|
| | | | | FROM | TO | |
| Aroclor-1221 | 100 | 1 | 4.64 | 4.56 | 4.71 | 22012600 |
| | | 2 | 4.72 | 4.65 | 4.79 | 15330800 |
| | | 3 | 4.80 | 4.73 | 4.87 | 54089100 |
| | | 4 | 0.00 | | | |
| | | 5 | 0.00 | | | |
| Aroclor-1232 | 100 | 1 | 4.80 | 4.73 | 4.87 | 44835200 |
| | | 2 | 5.32 | 5.25 | 5.39 | 23143800 |
| | | 3 | 5.61 | 5.54 | 5.68 | 51315200 |
| | | 4 | 5.77 | 5.70 | 5.84 | 23313700 |
| | | 5 | 5.86 | 5.79 | 5.93 | 15810600 |
| Aroclor-1262 | 100 | 1 | 7.80 | 7.72 | 7.87 | 162403000 |
| | | 2 | 8.34 | 8.27 | 8.41 | 282800000 |
| | | 3 | 8.64 | 8.57 | 8.71 | 194325000 |
| | | 4 | 8.73 | 8.66 | 8.80 | 147575000 |
| | | 5 | 9.38 | 9.31 | 9.45 | 106070000 |
| Aroclor-1268 | 100 | 1 | 8.64 | 8.57 | 8.71 | 379935000 |
| | | 2 | 8.73 | 8.66 | 8.80 | 341435000 |
| | | 3 | 8.96 | 8.89 | 9.03 | 303208000 |
| | | 4 | 9.38 | 9.31 | 9.45 | 124505000 |
| | | 5 | 9.78 | 9.71 | 9.85 | 925832000 |
| | | | | | | |

FORM 6F-OR

INITIAL CALIBRATION (SINGLE POINT) OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: SDG No.: A41T6
 Analytical Method: ARO
 Instrument ID: ECD_R
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | AMOUNT (ng) | PEAK | RT | RT WINDOW | | CALIBRATION FACTOR |
|--------------|----------------|------|------|-----------|------|-----------------------|
| | | | | FROM | TO | |
| Aroclor-1221 | 100 | 1 | 3.72 | 3.65 | 3.79 | 42248700 |
| | | 2 | 3.81 | 3.74 | 3.88 | 30735800 |
| | | 3 | 3.88 | 3.81 | 3.95 | 110938000 |
| | | 4 | 0.00 | | | |
| | | 5 | 0.00 | | | |
| Aroclor-1232 | 100 | 1 | 3.88 | 3.81 | 3.95 | 91385300 |
| | | 2 | 4.59 | 4.52 | 4.66 | 103290000 |
| | | 3 | 4.76 | 4.69 | 4.83 | 48300900 |
| | | 4 | 4.85 | 4.77 | 4.92 | 44778300 |
| | | 5 | 5.01 | 4.94 | 5.08 | 49702800 |
| Aroclor-1262 | 100 | 1 | 6.57 | 6.50 | 6.64 | 388537000 |
| | | 2 | 7.07 | 7.00 | 7.14 | 711808000 |
| | | 3 | 7.35 | 7.28 | 7.42 | 305574000 |
| | | 4 | 7.41 | 7.34 | 7.48 | 523551000 |
| | | 5 | 7.90 | 7.83 | 7.97 | 244501000 |
| Aroclor-1268 | 100 | 1 | 7.35 | 7.28 | 7.42 | 910284000 |
| | | 2 | 7.41 | 7.34 | 7.48 | 839937000 |
| | | 3 | 7.62 | 7.55 | 7.69 | 732198000 |
| | | 4 | 7.90 | 7.83 | 7.97 | 290430000 |
| | | 5 | 8.18 | 8.11 | 8.25 | 2251790000 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK92 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK92 Time Analyzed: 08:11
 EPA Sample No.: AR1660325 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 08:25
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 64956200 | -3.8 |
| Aroclor-1016 | 2 | 5.61 | 5.54 | 5.68 | 99026920 | 99909104 | 0.89 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 58692700 | -0.28 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 46844200 | -1.3 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 47042300 | -1.2 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 100566000 | 7.0 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 117894000 | 1.5 |
| Aroclor-1260 | 3 | 7.72 | 7.65 | 7.79 | 139556400 | 143394000 | 2.8 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 84873904 | -1.7 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 185866000 | 2.9 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 1699520000 | -13 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 2047830016 | 4.2 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK92 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK92 Time Analyzed: 08:11
 EPA Sample No.: AR1660325 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 08:25
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 124060000 | -4.7 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 189906000 | -3.9 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 95742096 | -0.39 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 76396600 | 1.1 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 111543000 | 8.5 |
| Aroclor-1260 | 1 | 6.03 | 5.96 | 6.10 | 214972192 | 227871008 | 6.0 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 314547008 | 16 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 268569984 | 8.2 |
| Aroclor-1260 | 4 | 6.83 | 6.76 | 6.90 | 170990320 | 183864992 | 7.5 |
| Aroclor-1260 | 5 | 7.07 | 7.00 | 7.14 | 483645376 | 538534976 | 11 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 3381120000 | -3 |
| DCB | | 8.41 | 8.31 | 8.51 | 4396666368 | 4651709952 | 5.8 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK92 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK92 Time Analyzed: 08:11
 EPA Sample No.: AR1248325 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 08:54
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 45191600 | -6.9 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 62700200 | -5.1 |
| Aroclor-1248 | 3 | 6.07 | 5.99 | 6.13 | 74714920 | 69695696 | -6.7 |
| Aroclor-1248 | 4 | 6.47 | 6.40 | 6.54 | 89345936 | 85272600 | -4.6 |
| Aroclor-1248 | 5 | 6.51 | 6.43 | 6.57 | 83668240 | 78017800 | -6.8 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 1593709952 | -18 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1883849984 | -4.2 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK92 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK92 Time Analyzed: 08:11
 EPA Sample No.: AR1248325 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 08:54
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 84851800 | -13 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 113261000 | -12 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 116682000 | -12 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 158296000 | -3.8 |
| Aroclor-1248 | 5 | 5.40 | 5.33 | 5.47 | 167355696 | 162955008 | -2.6 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 3109769984 | -11 |
| DCB | | 8.41 | 8.31 | 8.51 | 4712088064 | 4296940032 | -2.3 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK92 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK92 Time Analyzed: 08:11
 EPA Sample No.: AR1254325 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 09:11
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.45 | 6.37 | 6.51 | 81705024 | 98546600 | 21 |
| Aroclor-1254 | 2 | 6.66 | 6.59 | 6.73 | 127776632 | 126155000 | -1.3 |
| Aroclor-1254 | 3 | 7.03 | 6.95 | 7.09 | 134972048 | 143140000 | 6.1 |
| Aroclor-1254 | 4 | 7.31 | 7.23 | 7.37 | 106077872 | 102681000 | -3.2 |
| Aroclor-1254 | 5 | 7.73 | 7.65 | 7.79 | 107143352 | 105216000 | -1.8 |
| TCX | | 4.43 | 4.38 | 4.48 | 1902270336 | 1680989952 | -14 |
| DCB | | 10.12 | 10.01 | 10.21 | 2035540480 | 1929900032 | -1.8 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK92 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK92 Time Analyzed: 08:11
 EPA Sample No.: AR1254325 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 09:11
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.36 | 5.29 | 5.43 | 244693680 | 245484000 | 0.32 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 208382000 | -2 |
| Aroclor-1254 | 3 | 5.90 | 5.83 | 5.97 | 357318304 | 359044992 | 0.48 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 284316000 | 20 |
| Aroclor-1254 | 5 | 6.54 | 6.47 | 6.61 | 318941792 | 333060992 | 4.4 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 3333060096 | -4.4 |
| DCB | | 8.41 | 8.31 | 8.51 | 4701814784 | 4384600064 | -0.28 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK93 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK93 Time Analyzed: 15:07
 EPA Sample No.: AR1660326 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 15:21
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 62532400 | -7.4 |
| Aroclor-1016 | 2 | 5.61 | 5.54 | 5.68 | 99026920 | 91853904 | -7.2 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 54581900 | -7.3 |
| Aroclor-1016 | 4 | 5.77 | 5.70 | 5.84 | 47436904 | 45016100 | -5.1 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 43591500 | -8.5 |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 94008008 | 100071000 | 6.5 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 116407000 | 0.26 |
| Aroclor-1260 | 3 | 7.72 | 7.65 | 7.79 | 139556400 | 154180000 | 11 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 88003904 | 1.9 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 191771008 | 6.2 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 1728160000 | -11 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 2175069952 | 11 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK93 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK93 Time Analyzed: 15:07
 EPA Sample No.: AR1660326 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 15:21
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 125260000 | -3.7 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 191958000 | -2.9 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 97539504 | 1.5 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 76687600 | 1.5 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 108023000 | 5.1 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 220784992 | 2.7 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 302409984 | 11 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 258940992 | 4.3 |
| Aroclor-1260 | 4 | 6.83 | 6.76 | 6.90 | 170990320 | 187072992 | 9.4 |
| Aroclor-1260 | 5 | 7.07 | 7.00 | 7.14 | 483645376 | 551441024 | 14 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 3628069888 | 4.1 |
| DCB | | 8.41 | 8.31 | 8.51 | 4396666368 | 4999119872 | 14 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK93 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK93 Time Analyzed: 15:07
 EPA Sample No.: AR1242326 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1242CCC400 Time Analyzed: 15:36
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1242 | 1 | 5.59 | 5.52 | 5.66 | 58003680 | 52173000 | -10 |
| Aroclor-1242 | 2 | 5.61 | 5.54 | 5.68 | 84643264 | 76283504 | -9.9 |
| Aroclor-1242 | 3 | 5.68 | 5.60 | 5.74 | 50110736 | 45038200 | -10 |
| Aroclor-1242 | 4 | 5.77 | 5.70 | 5.84 | 40864364 | 37588100 | -8 |
| Aroclor-1242 | 5 | 6.51 | 6.43 | 6.57 | 46058920 | 42383800 | -8 |
| TCX | | 4.43 | 4.38 | 4.48 | 2118898304 | 1790230016 | -8 |
| DCB | | 10.11 | 10.01 | 10.21 | 2164409600 | 2060669952 | 4.8 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK93 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK93 Time Analyzed: 15:07
 EPA Sample No.: AR1242326 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1242CCC400 Time Analyzed: 15:36
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1242 | 1 | 4.57 | 4.50 | 4.64 | 113513504 | 103509000 | -8.8 |
| Aroclor-1242 | 2 | 4.59 | 4.52 | 4.66 | 170727984 | 157639008 | -7.7 |
| Aroclor-1242 | 3 | 4.76 | 4.69 | 4.83 | 84731288 | 79515000 | -6.2 |
| Aroclor-1242 | 4 | 4.84 | 4.77 | 4.91 | 82677208 | 77088704 | -6.8 |
| Aroclor-1242 | 5 | 5.36 | 5.29 | 5.43 | 111225400 | 101067000 | -9.1 |
| TCX | | 3.51 | 3.46 | 3.56 | 3885695488 | 3704640000 | 6.3 |
| DCB | | 8.41 | 8.31 | 8.51 | 4928403456 | 4788630016 | 8.9 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK93 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK93 Time Analyzed: 15:07
 EPA Sample No.: AR1248326 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 15:50
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 48925100 | 0.83 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 65765400 | -0.47 |
| Aroclor-1248 | 3 | 6.07 | 5.99 | 6.13 | 74714920 | 73824304 | -1.2 |
| Aroclor-1248 | 4 | 6.47 | 6.40 | 6.54 | 89345936 | 90373104 | 1.2 |
| Aroclor-1248 | 5 | 6.51 | 6.43 | 6.57 | 83668240 | 83782896 | 0.14 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 1833490048 | -5.8 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1962230016 | -0.2 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK93 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK93 Time Analyzed: 15:07
 EPA Sample No.: AR1248326 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 15:50
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 96110000 | -1.4 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 127719000 | -0.3 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 131803000 | -0.13 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 173308000 | 5.3 |
| Aroclor-1248 | 5 | 5.40 | 5.33 | 5.47 | 167355696 | 181076992 | 8.2 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 3636730112 | 4.3 |
| DCB | | 8.41 | 8.31 | 8.51 | 4712088064 | 4588969984 | 4.4 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK93 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK93 Time Analyzed: 15:07
 EPA Sample No.: AR1254326 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 16:04
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 81705024 | 96665296 | 18 |
| Aroclor-1254 | 2 | 6.66 | 6.59 | 6.73 | 127776632 | 128671000 | 0.7 |
| Aroclor-1254 | 3 | 7.02 | 6.95 | 7.09 | 134972048 | 147356992 | 9.2 |
| Aroclor-1254 | 4 | 7.31 | 7.23 | 7.37 | 106077872 | 110589000 | 4.3 |
| Aroclor-1254 | 5 | 7.72 | 7.65 | 7.79 | 107143352 | 109826000 | 2.5 |
| TCX | | 4.43 | 4.38 | 4.48 | 1902270336 | 1826470016 | -6.1 |
| DCB | | 10.11 | 10.01 | 10.21 | 2035540480 | 2031459968 | 3.3 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK93 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK93 Time Analyzed: 15:07
 EPA Sample No.: AR1254326 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 16:04
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.36 | 5.29 | 5.43 | 244693680 | 252511008 | 3.2 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 213231008 | 0.26 |
| Aroclor-1254 | 3 | 5.90 | 5.83 | 5.97 | 357318304 | 366696000 | 2.6 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 249564992 | 5.7 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 339406016 | 6.4 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 3585230080 | 2.9 |
| DCB | | 8.41 | 8.31 | 8.51 | 4701814784 | 4787049984 | 8.9 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK94 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK94 Time Analyzed: 19:56
 EPA Sample No.: AR1660327 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 20:10
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|----|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 80580600 | 19 |
| Aroclor-1016 | 2 | 5.61 | 5.54 | 5.68 | 99026920 | 117110000 | 18 |
| Aroclor-1016 | 3 | 5.67 | 5.61 | 5.75 | 58855728 | 69134704 | 18 |
| Aroclor-1016 | 4 | 5.77 | 5.70 | 5.84 | 47436904 | 57508100 | 21 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 53783000 | 13 |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 94008008 | 125383000 | 33 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 148974000 | 28 |
| Aroclor-1260 | 3 | 7.72 | 7.65 | 7.79 | 139556400 | 184820992 | 32 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 111719000 | 29 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 240632000 | 33 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 2272229888 | 17 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 2411869952 | 23 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK94 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK94 Time Analyzed: 19:56
 EPA Sample No.: AR1660327 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 20:10
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|----|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 155412992 | 19 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 238268992 | 21 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 121669000 | 27 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 95518704 | 26 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 134296000 | 31 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 282939008 | 32 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 392016000 | 44 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 336059008 | 35 |
| Aroclor-1260 | 4 | 6.83 | 6.76 | 6.90 | 170990320 | 239063008 | 40 |
| Aroclor-1260 | 5 | 7.07 | 7.00 | 7.14 | 483645376 | 703313984 | 45 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4461340160 | 28 |
| DCB | | 8.41 | 8.31 | 8.51 | 4396666368 | 5844780032 | 33 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK94 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK94 Time Analyzed: 19:56
 EPA Sample No.: AR1242327 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1242CCC400 Time Analyzed: 20:25
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1242 | 1 | 5.59 | 5.52 | 5.66 | 58003680 | 59650700 | 2.8 |
| Aroclor-1242 | 2 | 5.61 | 5.54 | 5.68 | 84643264 | 87682096 | 3.6 |
| Aroclor-1242 | 3 | 5.67 | 5.60 | 5.74 | 50110736 | 51292900 | 2.4 |
| Aroclor-1242 | 4 | 5.77 | 5.70 | 5.84 | 40864364 | 42632500 | 4.3 |
| Aroclor-1242 | 5 | 6.50 | 6.43 | 6.57 | 46058920 | 45808600 | -0.54 |
| TCX | | 4.43 | 4.38 | 4.48 | 2118898304 | 2054179968 | 5.6 |
| DCB | | 10.11 | 10.01 | 10.21 | 2164409600 | 2170200064 | 10 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK94 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK94 Time Analyzed: 19:56
 EPA Sample No.: AR1242327 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1242CCC400 Time Analyzed: 20:25
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1242 | 1 | 4.57 | 4.50 | 4.64 | 113513504 | 114507000 | 0.88 |
| Aroclor-1242 | 2 | 4.59 | 4.52 | 4.66 | 170727984 | 174891008 | 2.4 |
| Aroclor-1242 | 3 | 4.76 | 4.69 | 4.83 | 84731288 | 87001800 | 2.7 |
| Aroclor-1242 | 4 | 4.84 | 4.77 | 4.91 | 82677208 | 84297000 | 2.0 |
| Aroclor-1242 | 5 | 5.35 | 5.29 | 5.43 | 111225400 | 111035000 | -0.17 |
| TCX | | 3.51 | 3.46 | 3.56 | 3885695488 | 4088260096 | 17 |
| DCB | | 8.41 | 8.31 | 8.51 | 4928403456 | 5208019968 | 19 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK94 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK94 Time Analyzed: 19:56
 EPA Sample No.: AR1248327 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 20:39
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 55269000 | 14 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 73652600 | 12 |
| Aroclor-1248 | 3 | 6.06 | 5.99 | 6.13 | 74714920 | 84052600 | 13 |
| Aroclor-1248 | 4 | 6.47 | 6.40 | 6.54 | 89345936 | 101795000 | 14 |
| Aroclor-1248 | 5 | 6.51 | 6.43 | 6.57 | 83668240 | 93660096 | 12 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2116790016 | 8.9 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 2003990016 | 1.9 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK94 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK94 Time Analyzed: 19:56
 EPA Sample No.: AR1248327 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 20:39
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 106127000 | 8.8 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 138326000 | 8.0 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 142631008 | 8.1 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 187452992 | 14 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 202251008 | 21 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4130309888 | 19 |
| DCB | | 8.41 | 8.31 | 8.51 | 4712088064 | 4784920064 | 8.8 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK94 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK94 Time Analyzed: 19:56
 EPA Sample No.: AR1254327 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 20:53
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 81705024 | 105990000 | 30 |
| Aroclor-1254 | 2 | 6.66 | 6.59 | 6.73 | 127776632 | 148703008 | 16 |
| Aroclor-1254 | 3 | 7.02 | 6.95 | 7.09 | 134972048 | 162266000 | 20 |
| Aroclor-1254 | 4 | 7.31 | 7.23 | 7.37 | 106077872 | 124428000 | 17 |
| Aroclor-1254 | 5 | 7.72 | 7.65 | 7.79 | 107143352 | 127570000 | 19 |
| TCX | | 4.43 | 4.38 | 4.48 | 1902270336 | 2132019968 | 9.6 |
| DCB | | 10.11 | 10.01 | 10.21 | 2035540480 | 2112630016 | 7.5 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK94 Date Analyzed: 12/20/2018
 Instrument Blank Lab ID: AIBLK94 Time Analyzed: 19:56
 EPA Sample No.: AR1254327 Date Analyzed: 12/20/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 20:53
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|----|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.35 | 5.29 | 5.43 | 244693680 | 281048000 | 15 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 235959008 | 11 |
| Aroclor-1254 | 3 | 5.90 | 5.83 | 5.97 | 357318304 | 408944000 | 14 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 278303008 | 18 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 378635008 | 19 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 4192199936 | 20 |
| DCB | | 8.41 | 8.31 | 8.51 | 4701814784 | 5093770240 | 16 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK96 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK96 Time Analyzed: 15:23
 EPA Sample No.: AR1660329 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 15:54
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.60 | 5.52 | 5.66 | 67503200 | 63636200 | -5.7 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 90019696 | -9.1 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 53581300 | -9 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 45142100 | -4.8 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 45933200 | -3.6 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 94726200 | 0.77 |
| Aroclor-1260 | 2 | 7.45 | 7.37 | 7.51 | 116101168 | 122373000 | 5.4 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 146796992 | 5.2 |
| Aroclor-1260 | 4 | 8.03 | 7.95 | 8.09 | 86363584 | 86662704 | 0.35 |
| Aroclor-1260 | 5 | 8.35 | 8.27 | 8.41 | 180553728 | 185684992 | 2.8 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 1695049984 | -13 |
| DCB | | 10.12 | 10.01 | 10.21 | 1965922560 | 1722940032 | -12 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK96 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK96 Time Analyzed: 15:23
 EPA Sample No.: AR1660329 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 15:54
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 115227000 | -11 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 169540992 | -14 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 86402800 | -10 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 66997100 | -11 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 90519104 | -12 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 203374000 | -5.4 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 276182016 | 1.5 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 243939008 | -1.7 |
| Aroclor-1260 | 4 | 6.83 | 6.76 | 6.90 | 170990320 | 173927008 | 1.7 |
| Aroclor-1260 | 5 | 7.07 | 7.00 | 7.14 | 483645376 | 490715008 | 1.5 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 3046579968 | -13 |
| DCB | | 8.41 | 8.31 | 8.51 | 4396666368 | 3835480064 | -13 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK96 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK96 Time Analyzed: 15:23
 EPA Sample No.: AR1248329 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 17:02
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 58047700 | 20 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 76681296 | 16 |
| Aroclor-1248 | 3 | 6.06 | 5.99 | 6.13 | 74714920 | 88239696 | 18 |
| Aroclor-1248 | 4 | 6.46 | 6.40 | 6.54 | 89345936 | 105610000 | 18 |
| Aroclor-1248 | 5 | 6.50 | 6.43 | 6.57 | 83668240 | 98143600 | 17 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2182190080 | 12 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1960989952 | -0.25 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK96 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK96 Time Analyzed: 15:23
 EPA Sample No.: AR1248329 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 17:02
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 108424000 | 11 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 138791008 | 8.3 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 142762000 | 8.2 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 182223008 | 11 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 199936000 | 20 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4205690112 | 21 |
| DCB | | 8.41 | 8.31 | 8.51 | 4712088064 | 4415810048 | 0.43 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK96 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK96 Time Analyzed: 15:23
 EPA Sample No.: AR1254329 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 17:51
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 81705024 | 71033000 | -13 |
| Aroclor-1254 | 2 | 6.66 | 6.59 | 6.73 | 127776632 | 108018000 | -16 |
| Aroclor-1254 | 3 | 7.02 | 6.95 | 7.09 | 134972048 | 113824000 | -16 |
| Aroclor-1254 | 4 | 7.31 | 7.23 | 7.37 | 106077872 | 91115400 | -14 |
| Aroclor-1254 | 5 | 7.72 | 7.65 | 7.79 | 107143352 | 93262496 | -13 |
| TCX | | 4.43 | 4.38 | 4.48 | 1902270336 | 1850140032 | -4.9 |
| DCB | | 10.11 | 10.01 | 10.21 | 2035540480 | 1539510016 | -22 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK96 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK96 Time Analyzed: 15:23
 EPA Sample No.: AR1254329 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 17:51
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.35 | 5.29 | 5.43 | 244693680 | 217964992 | -11 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 187536000 | -12 |
| Aroclor-1254 | 3 | 5.90 | 5.83 | 5.97 | 357318304 | 306588992 | -14 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 203510000 | -14 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 267226000 | -16 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 4161710080 | 19 |
| DCB | | 8.41 | 8.31 | 8.51 | 4701814784 | 3356519936 | -24 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1660330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 21:42
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 74605104 | 11 |
| Aroclor-1016 | 2 | 5.61 | 5.54 | 5.68 | 99026920 | 104842000 | 5.9 |
| Aroclor-1016 | 3 | 5.67 | 5.61 | 5.75 | 58855728 | 62439900 | 6.1 |
| Aroclor-1016 | 4 | 5.77 | 5.70 | 5.84 | 47436904 | 51682800 | 9.0 |
| Aroclor-1016 | 5 | 6.06 | 6.00 | 6.14 | 47627556 | 50680000 | 6.4 |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 94008008 | 93751504 | -0.27 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 118115000 | 1.7 |
| Aroclor-1260 | 3 | 7.72 | 7.65 | 7.79 | 139556400 | 138546000 | -0.73 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 81220896 | -6 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 178392000 | -1.2 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 2237550080 | 15 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 1632550016 | -17 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1660330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 21:42
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 140051008 | 7.6 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 205152000 | 3.8 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 104406000 | 8.6 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 80828400 | 7.0 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 106600000 | 3.7 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 205735008 | -4.3 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 269635008 | -0.92 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 239396992 | -3.6 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 164700000 | -3.7 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 492592992 | 1.9 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4263340032 | 22 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3679810048 | -16 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1248330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 22:11
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 58149900 | 20 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 77362304 | 17 |
| Aroclor-1248 | 3 | 6.06 | 5.99 | 6.13 | 74714920 | 86966200 | 16 |
| Aroclor-1248 | 4 | 6.46 | 6.40 | 6.54 | 89345936 | 100143000 | 12 |
| Aroclor-1248 | 5 | 6.50 | 6.43 | 6.57 | 83668240 | 92519504 | 11 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2318540032 | 19 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1658089984 | -16 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1248330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 22:11
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 112930000 | 16 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 142696000 | 11 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 146819008 | 11 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 184002000 | 12 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 195972992 | 17 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4411279872 | 27 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3766789888 | -14 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1254330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 22:25
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 81705024 | 104522000 | 28 |
| Aroclor-1254 | 2 | 6.65 | 6.59 | 6.73 | 127776632 | 157018000 | 23 |
| Aroclor-1254 | 3 | 7.02 | 6.95 | 7.09 | 134972048 | 167416992 | 24 |
| Aroclor-1254 | 4 | 7.30 | 7.23 | 7.37 | 106077872 | 133008000 | 25 |
| Aroclor-1254 | 5 | 7.72 | 7.65 | 7.79 | 107143352 | 124782000 | 17 |
| TCX | | 4.43 | 4.38 | 4.48 | 1902270336 | 2392019968 | 23 |
| DCB | | 10.11 | 10.01 | 10.21 | 2035540480 | 1792450048 | -8.8 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1254330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 22:25
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.35 | 5.29 | 5.43 | 244693680 | 289864992 | 19 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 244248992 | 15 |
| Aroclor-1254 | 3 | 5.89 | 5.83 | 5.97 | 357318304 | 414264992 | 16 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 275368992 | 17 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 361316000 | 13 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 4658729984 | 34 |
| DCB | | 8.40 | 8.31 | 8.51 | 4701814784 | 4081969920 | -7.2 |

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AIBLK82 | PR034706.D | 12/17/2018 | 14:52 | 4.43 | 10.12 |
| AR1660101 | PR034707.D | 12/17/2018 | 15:11 | 4.43 | 10.13 |
| AR1660201 | PR034708.D | 12/17/2018 | 15:25 | 4.43 | 10.11 |
| AR1660301 | PR034709.D | 12/17/2018 | 15:40 | 4.43 | 10.11 |
| AR1660401 | PR034710.D | 12/17/2018 | 15:54 | 4.43 | 10.11 |
| AR1660501 | PR034711.D | 12/17/2018 | 16:09 | 4.43 | 10.11 |
| AR1221101 | PR034712.D | 12/17/2018 | 16:23 | 4.43 | 10.11 |
| AR1232201 | PR034713.D | 12/17/2018 | 16:37 | 4.43 | 10.11 |
| AR1242101 | PR034714.D | 12/17/2018 | 16:52 | 4.43 | 10.11 |
| AR1242201 | PR034715.D | 12/17/2018 | 17:06 | 4.43 | 10.11 |
| AR1242301 | PR034716.D | 12/17/2018 | 17:21 | 4.43 | 10.11 |
| AR1242401 | PR034717.D | 12/17/2018 | 17:35 | 4.43 | 10.11 |
| AR1242501 | PR034718.D | 12/17/2018 | 17:50 | 4.43 | 10.11 |
| AR1248101 | PR034719.D | 12/17/2018 | 18:04 | 4.43 | 10.11 |
| AR1248201 | PR034720.D | 12/17/2018 | 18:19 | 4.43 | 10.11 |
| AR1248301 | PR034721.D | 12/17/2018 | 18:33 | 4.43 | 10.11 |
| AR1248401 | PR034722.D | 12/17/2018 | 18:48 | 4.43 | 10.11 |
| AR1248501 | PR034723.D | 12/17/2018 | 19:02 | 4.43 | 10.11 |
| AR1254101 | PR034724.D | 12/17/2018 | 19:16 | 4.43 | 10.11 |
| AR1254201 | PR034725.D | 12/17/2018 | 19:31 | 4.43 | 10.11 |
| AR1254301 | PR034726.D | 12/17/2018 | 19:45 | 4.43 | 10.11 |
| AR1254401 | PR034727.D | 12/17/2018 | 20:00 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1254501 | PR034728.D | 12/17/2018 | 20:14 | 4.43 | 10.11 |
| AR1262101 | PR034729.D | 12/17/2018 | 20:29 | 4.43 | 10.11 |
| AR1268101 | PR034730.D | 12/17/2018 | 20:43 | 4.43 | 10.11 |
| AIBLK83 | PR034731.D | 12/17/2018 | 20:58 | 4.43 | 10.11 |
| AR1660316 | PR034732.D | 12/17/2018 | 21:12 | 4.43 | 10.11 |
| AR1242316 | PR034733.D | 12/17/2018 | 21:27 | 4.43 | 10.11 |
| AR1248316 | PR034734.D | 12/17/2018 | 21:41 | 4.43 | 10.11 |
| AR1254316 | PR034735.D | 12/17/2018 | 21:56 | 4.43 | 10.11 |
| AIBLK84 | PR034760.D | 12/18/2018 | 03:57 | 4.43 | 10.11 |
| AR1660317 | PR034761.D | 12/18/2018 | 04:11 | 4.43 | 10.11 |
| AR1242317 | PR034762.D | 12/18/2018 | 04:26 | 4.43 | 10.11 |
| AR1248317 | PR034763.D | 12/18/2018 | 04:40 | 4.43 | 10.11 |
| AR1254317 | PR034764.D | 12/18/2018 | 04:55 | 4.43 | 10.11 |
| AIBLK92 | PR034907.D | 12/20/2018 | 08:11 | 4.43 | 10.11 |
| AR1660325 | PR034908.D | 12/20/2018 | 08:25 | 4.43 | 10.11 |
| AR1242325 | PR034909.D | 12/20/2018 | 08:40 | 4.43 | 10.11 |
| AR1248325 | PR034910.D | 12/20/2018 | 08:54 | 4.43 | 10.11 |
| AR1254325 | PR034911.D | 12/20/2018 | 09:11 | 4.43 | 10.12 |
| ZZZZZZ | PR034912.D | 12/20/2018 | 09:25 | 4.43 | 10.11 |
| ZZZZZZ | PR034913.D | 12/20/2018 | 09:41 | 4.43 | 10.11 |
| ZZZZZZ | PR034914.D | 12/20/2018 | 09:55 | 4.43 | 10.11 |
| ZZZZZZ | PR034915.D | 12/20/2018 | 10:10 | * 0.00 | * 0.00 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR034916.D | 12/20/2018 | 10:24 | 4.43 | 10.11 |
| ZZZZZZ | PR034917.D | 12/20/2018 | 10:39 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034918.D | 12/20/2018 | 10:53 | 4.43 | 10.11 |
| ZZZZZZ | PR034919.D | 12/20/2018 | 11:07 | 4.43 | 10.11 |
| ZZZZZZ | PR034920.D | 12/20/2018 | 13:23 | 4.44 | 10.12 |
| ZZZZZZ | PR034921.D | 12/20/2018 | 13:37 | * 0.00 | * 0.00 |
| ABLK54 | PR034922.D | 12/20/2018 | 13:54 | 4.43 | 10.12 |
| ALCS54 | PR034923.D | 12/20/2018 | 14:09 | 4.43 | 10.11 |
| A41T6 | PR034924.D | 12/20/2018 | 14:23 | 4.43 | 10.11 |
| A41T6MS | PR034925.D | 12/20/2018 | 14:38 | 4.43 | 10.11 |
| A41T6MSD | PR034926.D | 12/20/2018 | 14:52 | 4.43 | 10.11 |
| AIBLK93 | PR034927.D | 12/20/2018 | 15:07 | 4.43 | 10.11 |
| AR1660326 | PR034928.D | 12/20/2018 | 15:21 | 4.43 | 10.11 |
| AR1242326 | PR034929.D | 12/20/2018 | 15:36 | 4.43 | 10.11 |
| AR1248326 | PR034930.D | 12/20/2018 | 15:50 | 4.43 | 10.11 |
| AR1254326 | PR034931.D | 12/20/2018 | 16:04 | 4.43 | 10.11 |
| A41W4 | PR034932.D | 12/20/2018 | 16:19 | 4.43 | 10.12 |
| A41X1 | PR034933.D | 12/20/2018 | 16:33 | 4.43 | 10.11 |
| A41X2 | PR034934.D | 12/20/2018 | 16:48 | 4.43 | 10.11 |
| A41X3 | PR034935.D | 12/20/2018 | 17:02 | 4.43 | 10.11 |
| A41X4 | PR034936.D | 12/20/2018 | 17:17 | 4.43 | 10.11 |
| A41X5 | PR034937.D | 12/20/2018 | 17:31 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41X6 | PR034938.D | 12/20/2018 | 17:46 | 4.43 | 10.11 |
| A41X7 | PR034939.D | 12/20/2018 | 18:00 | 4.43 | 10.11 |
| A41X8 | PR034940.D | 12/20/2018 | 18:15 | 4.43 | 10.11 |
| A41X9 | PR034941.D | 12/20/2018 | 18:29 | 4.43 | 10.12 |
| A41Y0 | PR034942.D | 12/20/2018 | 18:44 | 4.43 | 10.11 |
| A41Y1 | PR034943.D | 12/20/2018 | 18:58 | 4.43 | 10.11 |
| ZZZZZZ | PR034944.D | 12/20/2018 | 19:12 | 4.43 | 10.11 |
| A41Y3 | PR034945.D | 12/20/2018 | 19:27 | 4.43 | 10.11 |
| A41Z4 | PR034946.D | 12/20/2018 | 19:41 | 4.43 | 10.11 |
| AIBLK94 | PR034947.D | 12/20/2018 | 19:56 | 4.43 | 10.11 |
| AR1660327 | PR034948.D | 12/20/2018 | 20:10 | 4.43 | 10.11 |
| AR1242327 | PR034949.D | 12/20/2018 | 20:25 | 4.43 | 10.11 |
| AR1248327 | PR034950.D | 12/20/2018 | 20:39 | 4.43 | 10.11 |
| AR1254327 | PR034951.D | 12/20/2018 | 20:53 | 4.43 | 10.11 |
| AIBLK95 | PR034952.D | 12/21/2018 | 08:41 | 4.44 | 10.14 |
| AR1660328 | PR034953.D | 12/21/2018 | 09:14 | 4.43 | 10.12 |
| AR1242328 | PR034954.D | 12/21/2018 | 09:28 | 4.43 | 10.11 |
| AR1248328 | PR034955.D | 12/21/2018 | 09:43 | 4.43 | 10.11 |
| AR1254328 | PR034956.D | 12/21/2018 | 09:57 | 4.43 | 10.11 |
| ZZZZZZ | PR034957.D | 12/21/2018 | 10:12 | 4.43 | 10.11 |
| ZZZZZZ | PR034958.D | 12/21/2018 | 10:26 | 4.43 | 10.11 |
| ZZZZZZ | PR034959.D | 12/21/2018 | 10:41 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR034960.D | 12/21/2018 | 10:55 | 4.43 | 10.11 |
| ZZZZZZ | PR034961.D | 12/21/2018 | 11:10 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034962.D | 12/21/2018 | 11:31 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034963.D | 12/21/2018 | 11:45 | 4.43 | 10.11 |
| ZZZZZZ | PR034964.D | 12/21/2018 | 12:00 | 4.43 | 10.11 |
| ZZZZZZ | PR034965.D | 12/21/2018 | 12:14 | 4.43 | 10.11 |
| ZZZZZZ | PR034966.D | 12/21/2018 | 12:29 | 4.43 | 10.11 |
| ZZZZZZ | PR034967.D | 12/21/2018 | 12:43 | 4.43 | 10.11 |
| ZZZZZZ | PR034968.D | 12/21/2018 | 12:58 | 4.43 | 10.11 |
| ZZZZZZ | PR034969.D | 12/21/2018 | 13:12 | 4.43 | 10.11 |
| ZZZZZZ | PR034970.D | 12/21/2018 | 13:27 | 4.43 | 10.11 |
| ZZZZZZ | PR034971.D | 12/21/2018 | 13:41 | 4.43 | 10.11 |
| ZZZZZZ | PR034972.D | 12/21/2018 | 13:56 | 4.43 | 10.11 |
| ZZZZZZ | PR034973.D | 12/21/2018 | 14:10 | 4.43 | 10.11 |
| ZZZZZZ | PR034974.D | 12/21/2018 | 14:25 | 4.43 | 10.11 |
| ZZZZZZ | PR034975.D | 12/21/2018 | 14:39 | 4.43 | 10.11 |
| ZZZZZZ | PR034976.D | 12/21/2018 | 14:54 | 4.43 | 10.11 |
| ZZZZZZ | PR034977.D | 12/21/2018 | 15:08 | 4.43 | 10.11 |
| AIBLK96 | PR034978.D | 12/21/2018 | 15:23 | 4.43 | 10.11 |
| AR1660329 | PR034979.D | 12/21/2018 | 15:54 | 4.43 | 10.12 |
| AR1242329 | PR034980.D | 12/21/2018 | 16:10 | 4.43 | 10.11 |
| AR1248329 | PR034981.D | 12/21/2018 | 17:02 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1254329 | PR034982.D | 12/21/2018 | 17:51 | 4.43 | 10.11 |
| ZZZZZZ | PR034983.D | 12/21/2018 | 18:05 | 4.43 | 10.11 |
| A41X7DL | PR034984.D | 12/21/2018 | 18:20 | 4.43 | 10.11 |
| A41X6DL | PR034985.D | 12/21/2018 | 18:34 | 4.42 | 10.11 |
| A41X6DL2 | PR034986.D | 12/21/2018 | 18:48 | 4.42 | 10.11 |
| A41X5DL | PR034987.D | 12/21/2018 | 19:03 | 4.43 | 10.11 |
| A41X2DL | PR034988.D | 12/21/2018 | 19:17 | 4.43 | 10.11 |
| A41X2DL2 | PR034989.D | 12/21/2018 | 19:32 | 4.43 | 10.11 |
| A41W4DL | PR034990.D | 12/21/2018 | 19:46 | 4.43 | 10.11 |
| A41T6DL | PR034991.D | 12/21/2018 | 20:01 | 4.43 | 10.11 |
| A41T6DL2 | PR034992.D | 12/21/2018 | 20:15 | 4.43 | 10.11 |
| ZZZZZZ | PR034993.D | 12/21/2018 | 20:30 | 4.43 | 10.11 |
| A41Y2 | PR034994.D | 12/21/2018 | 20:44 | 4.43 | 10.11 |
| A41Y3DL | PR034995.D | 12/21/2018 | 20:59 | 4.43 | 10.11 |
| ZZZZZZ | PR034996.D | 12/21/2018 | 21:13 | 4.43 | 10.11 |
| AIBLK97 | PR034997.D | 12/21/2018 | 21:27 | 4.43 | 10.11 |
| AR1660330 | PR034998.D | 12/21/2018 | 21:42 | 4.43 | 10.11 |
| AR1242330 | PR034999.D | 12/21/2018 | 21:56 | 4.43 | 10.11 |
| AR1248330 | PR035000.D | 12/21/2018 | 22:11 | 4.43 | 10.11 |
| AR1254330 | PR035001.D | 12/21/2018 | 22:25 | 4.43 | 10.11 |
| ZZZZZZ | PR035002.D | 12/21/2018 | 22:40 | 4.43 | 10.11 |
| ZZZZZZ | PR035003.D | 12/21/2018 | 22:54 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035004.D | 12/21/2018 | 23:09 | 4.43 | 10.11 |
| ZZZZZZ | PR035005.D | 12/21/2018 | 23:23 | 4.43 | 10.11 |
| ZZZZZZ | PR035006.D | 12/21/2018 | 23:37 | 4.43 | 10.11 |
| ZZZZZZ | PR035007.D | 12/21/2018 | 23:52 | 4.43 | 10.10 |
| ZZZZZZ | PR035008.D | 12/22/2018 | 00:06 | 4.43 | 10.11 |
| ZZZZZZ | PR035009.D | 12/22/2018 | 00:21 | 4.43 | 10.10 |
| ZZZZZZ | PR035010.D | 12/22/2018 | 00:35 | 4.43 | 10.10 |
| ZZZZZZ | PR035011.D | 12/22/2018 | 00:50 | 4.43 | 10.10 |
| ZZZZZZ | PR035012.D | 12/22/2018 | 01:04 | 4.43 | 10.10 |
| ZZZZZZ | PR035013.D | 12/22/2018 | 01:19 | 4.43 | 10.10 |
| ZZZZZZ | PR035014.D | 12/22/2018 | 01:33 | 4.43 | 10.11 |
| ZZZZZZ | PR035015.D | 12/22/2018 | 01:47 | 4.43 | 10.11 |
| AIBLK98 | PR035016.D | 12/22/2018 | 02:02 | 4.43 | 10.10 |
| AR1660331 | PR035017.D | 12/22/2018 | 02:16 | 4.43 | 10.10 |
| AR1242331 | PR035018.D | 12/22/2018 | 02:31 | 4.43 | 10.10 |
| AR1248331 | PR035019.D | 12/22/2018 | 02:45 | 4.43 | 10.10 |
| AR1254331 | PR035020.D | 12/22/2018 | 03:00 | 4.43 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AIBLK82 | PR034706.D-2 | 12/17/2018 | 14:52 | 3.51 | 8.42 |
| AR1660101 | PR034707.D-2 | 12/17/2018 | 15:11 | 3.51 | 8.42 |
| AR1660201 | PR034708.D-2 | 12/17/2018 | 15:25 | 3.51 | 8.41 |
| AR1660301 | PR034709.D-2 | 12/17/2018 | 15:40 | 3.51 | 8.41 |
| AR1660401 | PR034710.D-2 | 12/17/2018 | 15:54 | 3.51 | 8.41 |
| AR1660501 | PR034711.D-2 | 12/17/2018 | 16:09 | 3.51 | 8.41 |
| AR1221101 | PR034712.D-2 | 12/17/2018 | 16:23 | 3.51 | 8.41 |
| AR1232201 | PR034713.D-2 | 12/17/2018 | 16:37 | 3.51 | 8.41 |
| AR1242101 | PR034714.D-2 | 12/17/2018 | 16:52 | 3.51 | 8.41 |
| AR1242201 | PR034715.D-2 | 12/17/2018 | 17:06 | 3.51 | 8.41 |
| AR1242301 | PR034716.D-2 | 12/17/2018 | 17:21 | 3.51 | 8.41 |
| AR1242401 | PR034717.D-2 | 12/17/2018 | 17:35 | 3.51 | 8.41 |
| AR1242501 | PR034718.D-2 | 12/17/2018 | 17:50 | 3.51 | 8.41 |
| AR1248101 | PR034719.D-2 | 12/17/2018 | 18:04 | 3.51 | 8.41 |
| AR1248201 | PR034720.D-2 | 12/17/2018 | 18:19 | 3.51 | 8.41 |
| AR1248301 | PR034721.D-2 | 12/17/2018 | 18:33 | 3.51 | 8.41 |
| AR1248401 | PR034722.D-2 | 12/17/2018 | 18:48 | 3.51 | 8.41 |
| AR1248501 | PR034723.D-2 | 12/17/2018 | 19:02 | 3.51 | 8.41 |
| AR1254101 | PR034724.D-2 | 12/17/2018 | 19:16 | 3.51 | 8.41 |
| AR1254201 | PR034725.D-2 | 12/17/2018 | 19:31 | 3.51 | 8.41 |
| AR1254301 | PR034726.D-2 | 12/17/2018 | 19:45 | 3.51 | 8.41 |
| AR1254401 | PR034727.D-2 | 12/17/2018 | 20:00 | 3.51 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1254501 | PR034728.D-2 | 12/17/2018 | 20:14 | 3.51 | 8.41 |
| AR1262101 | PR034729.D-2 | 12/17/2018 | 20:29 | 3.51 | 8.41 |
| AR1268101 | PR034730.D-2 | 12/17/2018 | 20:43 | 3.51 | 8.41 |
| AIBLK83 | PR034731.D-2 | 12/17/2018 | 20:58 | 3.51 | 8.41 |
| AR1660316 | PR034732.D-2 | 12/17/2018 | 21:12 | 3.51 | 8.41 |
| AR1242316 | PR034733.D-2 | 12/17/2018 | 21:27 | 3.51 | 8.41 |
| AR1248316 | PR034734.D-2 | 12/17/2018 | 21:41 | 3.51 | 8.41 |
| AR1254316 | PR034735.D-2 | 12/17/2018 | 21:56 | 3.51 | 8.41 |
| AIBLK84 | PR034760.D-2 | 12/18/2018 | 03:57 | 3.51 | 8.41 |
| AR1660317 | PR034761.D-2 | 12/18/2018 | 04:11 | 3.51 | 8.41 |
| AR1242317 | PR034762.D-2 | 12/18/2018 | 04:26 | 3.51 | 8.41 |
| AR1248317 | PR034763.D-2 | 12/18/2018 | 04:40 | 3.51 | 8.41 |
| AR1254317 | PR034764.D-2 | 12/18/2018 | 04:55 | 3.51 | 8.41 |
| AIBLK92 | PR034907.D-2 | 12/20/2018 | 08:11 | 3.51 | 8.41 |
| AR1660325 | PR034908.D-2 | 12/20/2018 | 08:25 | 3.51 | 8.41 |
| AR1242325 | PR034909.D-2 | 12/20/2018 | 08:40 | 3.51 | 8.41 |
| AR1248325 | PR034910.D-2 | 12/20/2018 | 08:54 | 3.51 | 8.41 |
| AR1254325 | PR034911.D-2 | 12/20/2018 | 09:11 | 3.51 | 8.41 |
| ZZZZZZ | PR034912.D-2 | 12/20/2018 | 09:25 | 3.51 | 8.41 |
| ZZZZZZ | PR034913.D-2 | 12/20/2018 | 09:41 | 3.51 | 8.41 |
| ZZZZZZ | PR034914.D-2 | 12/20/2018 | 09:55 | 3.51 | 8.41 |
| ZZZZZZ | PR034915.D-2 | 12/20/2018 | 10:10 | * 0.00 | * 0.00 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR034916.D-2 | 12/20/2018 | 10:24 | 3.51 | 8.41 |
| ZZZZZZ | PR034917.D-2 | 12/20/2018 | 10:39 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034918.D-2 | 12/20/2018 | 10:53 | 3.51 | 8.41 |
| ZZZZZZ | PR034919.D-2 | 12/20/2018 | 11:07 | 3.51 | 8.41 |
| ZZZZZZ | PR034920.D-2 | 12/20/2018 | 13:23 | 3.51 | 8.41 |
| ZZZZZZ | PR034921.D-2 | 12/20/2018 | 13:37 | * 0.00 | * 0.00 |
| ABLK54 | PR034922.D-2 | 12/20/2018 | 13:54 | 3.51 | 8.41 |
| ALCS54 | PR034923.D-2 | 12/20/2018 | 14:09 | 3.51 | 8.41 |
| A41T6 | PR034924.D-2 | 12/20/2018 | 14:23 | 3.51 | 8.41 |
| A41T6MS | PR034925.D-2 | 12/20/2018 | 14:38 | 3.51 | 8.41 |
| A41T6MSD | PR034926.D-2 | 12/20/2018 | 14:52 | 3.51 | 8.41 |
| AIBLK93 | PR034927.D-2 | 12/20/2018 | 15:07 | 3.51 | 8.41 |
| AR1660326 | PR034928.D-2 | 12/20/2018 | 15:21 | 3.51 | 8.41 |
| AR1242326 | PR034929.D-2 | 12/20/2018 | 15:36 | 3.51 | 8.41 |
| AR1248326 | PR034930.D-2 | 12/20/2018 | 15:50 | 3.51 | 8.41 |
| AR1254326 | PR034931.D-2 | 12/20/2018 | 16:04 | 3.51 | 8.41 |
| A41W4 | PR034932.D-2 | 12/20/2018 | 16:19 | 3.51 | 8.42 |
| A41X1 | PR034933.D-2 | 12/20/2018 | 16:33 | 3.51 | 8.41 |
| A41X2 | PR034934.D-2 | 12/20/2018 | 16:48 | 3.51 | 8.41 |
| A41X3 | PR034935.D-2 | 12/20/2018 | 17:02 | 3.51 | 8.41 |
| A41X4 | PR034936.D-2 | 12/20/2018 | 17:17 | 3.51 | 8.41 |
| A41X5 | PR034937.D-2 | 12/20/2018 | 17:31 | 3.51 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41X6 | PR034938.D-2 | 12/20/2018 | 17:46 | 3.51 | 8.41 |
| A41X7 | PR034939.D-2 | 12/20/2018 | 18:00 | 3.51 | 8.41 |
| A41X8 | PR034940.D-2 | 12/20/2018 | 18:15 | 3.51 | 8.41 |
| A41X9 | PR034941.D-2 | 12/20/2018 | 18:29 | 3.51 | 8.41 |
| A41Y0 | PR034942.D-2 | 12/20/2018 | 18:44 | 3.51 | 8.41 |
| A41Y1 | PR034943.D-2 | 12/20/2018 | 18:58 | 3.51 | 8.41 |
| ZZZZZZ | PR034944.D-2 | 12/20/2018 | 19:12 | 3.51 | 8.41 |
| A41Y3 | PR034945.D-2 | 12/20/2018 | 19:27 | 3.51 | 8.41 |
| A41Z4 | PR034946.D-2 | 12/20/2018 | 19:41 | 3.51 | 8.41 |
| AIBLK94 | PR034947.D-2 | 12/20/2018 | 19:56 | 3.51 | 8.41 |
| AR1660327 | PR034948.D-2 | 12/20/2018 | 20:10 | 3.51 | 8.41 |
| AR1242327 | PR034949.D-2 | 12/20/2018 | 20:25 | 3.51 | 8.41 |
| AR1248327 | PR034950.D-2 | 12/20/2018 | 20:39 | 3.51 | 8.41 |
| AR1254327 | PR034951.D-2 | 12/20/2018 | 20:53 | 3.51 | 8.40 |
| AIBLK95 | PR034952.D-2 | 12/21/2018 | 08:41 | 3.51 | 8.42 |
| AR1660328 | PR034953.D-2 | 12/21/2018 | 09:14 | 3.51 | 8.41 |
| AR1242328 | PR034954.D-2 | 12/21/2018 | 09:28 | 3.51 | 8.41 |
| AR1248328 | PR034955.D-2 | 12/21/2018 | 09:43 | 3.51 | 8.40 |
| AR1254328 | PR034956.D-2 | 12/21/2018 | 09:57 | 3.51 | 8.41 |
| ZZZZZZ | PR034957.D-2 | 12/21/2018 | 10:12 | 3.51 | 8.40 |
| ZZZZZZ | PR034958.D-2 | 12/21/2018 | 10:26 | 3.51 | 8.40 |
| ZZZZZZ | PR034959.D-2 | 12/21/2018 | 10:41 | 3.51 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR034960.D-2 | 12/21/2018 | 10:55 | 3.51 | 8.41 |
| ZZZZZZ | PR034961.D-2 | 12/21/2018 | 11:10 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034962.D-2 | 12/21/2018 | 11:31 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034963.D-2 | 12/21/2018 | 11:45 | 3.51 | 8.41 |
| ZZZZZZ | PR034964.D-2 | 12/21/2018 | 12:00 | 3.51 | 8.41 |
| ZZZZZZ | PR034965.D-2 | 12/21/2018 | 12:14 | 3.51 | 8.41 |
| ZZZZZZ | PR034966.D-2 | 12/21/2018 | 12:29 | 3.51 | 8.41 |
| ZZZZZZ | PR034967.D-2 | 12/21/2018 | 12:43 | 3.51 | 8.40 |
| ZZZZZZ | PR034968.D-2 | 12/21/2018 | 12:58 | 3.51 | 8.40 |
| ZZZZZZ | PR034969.D-2 | 12/21/2018 | 13:12 | 3.51 | 8.40 |
| ZZZZZZ | PR034970.D-2 | 12/21/2018 | 13:27 | 3.51 | 8.40 |
| ZZZZZZ | PR034971.D-2 | 12/21/2018 | 13:41 | 3.51 | 8.40 |
| ZZZZZZ | PR034972.D-2 | 12/21/2018 | 13:56 | 3.51 | 8.41 |
| ZZZZZZ | PR034973.D-2 | 12/21/2018 | 14:10 | 3.51 | 8.40 |
| ZZZZZZ | PR034974.D-2 | 12/21/2018 | 14:25 | 3.51 | 8.41 |
| ZZZZZZ | PR034975.D-2 | 12/21/2018 | 14:39 | 3.51 | 8.40 |
| ZZZZZZ | PR034976.D-2 | 12/21/2018 | 14:54 | 3.51 | 8.40 |
| ZZZZZZ | PR034977.D-2 | 12/21/2018 | 15:08 | 3.51 | 8.41 |
| AIBLK96 | PR034978.D-2 | 12/21/2018 | 15:23 | 3.51 | 8.41 |
| AR1660329 | PR034979.D-2 | 12/21/2018 | 15:54 | 3.51 | 8.41 |
| AR1242329 | PR034980.D-2 | 12/21/2018 | 16:10 | 3.51 | 8.41 |
| AR1248329 | PR034981.D-2 | 12/21/2018 | 17:02 | 3.51 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1254329 | PR034982.D-2 | 12/21/2018 | 17:51 | 3.51 | 8.41 |
| ZZZZZZ | PR034983.D-2 | 12/21/2018 | 18:05 | 3.51 | 8.41 |
| A41X7DL | PR034984.D-2 | 12/21/2018 | 18:20 | 3.51 | 8.41 |
| A41X6DL | PR034985.D-2 | 12/21/2018 | 18:34 | 3.51 | 8.41 |
| A41X6DL2 | PR034986.D-2 | 12/21/2018 | 18:48 | 3.51 | 8.41 |
| A41X5DL | PR034987.D-2 | 12/21/2018 | 19:03 | 3.51 | 8.41 |
| A41X2DL | PR034988.D-2 | 12/21/2018 | 19:17 | 3.51 | 8.41 |
| A41X2DL2 | PR034989.D-2 | 12/21/2018 | 19:32 | 3.51 | 8.41 |
| A41W4DL | PR034990.D-2 | 12/21/2018 | 19:46 | 3.51 | 8.41 |
| A41T6DL | PR034991.D-2 | 12/21/2018 | 20:01 | 3.51 | 8.41 |
| A41T6DL2 | PR034992.D-2 | 12/21/2018 | 20:15 | 3.51 | 8.41 |
| ZZZZZZ | PR034993.D-2 | 12/21/2018 | 20:30 | 3.51 | 8.40 |
| A41Y2 | PR034994.D-2 | 12/21/2018 | 20:44 | 3.51 | 8.41 |
| A41Y3DL | PR034995.D-2 | 12/21/2018 | 20:59 | 3.51 | 8.40 |
| ZZZZZZ | PR034996.D-2 | 12/21/2018 | 21:13 | 3.51 | 8.40 |
| AIBLK97 | PR034997.D-2 | 12/21/2018 | 21:27 | 3.51 | 8.40 |
| AR1660330 | PR034998.D-2 | 12/21/2018 | 21:42 | 3.51 | 8.40 |
| AR1242330 | PR034999.D-2 | 12/21/2018 | 21:56 | 3.51 | 8.40 |
| AR1248330 | PR035000.D-2 | 12/21/2018 | 22:11 | 3.51 | 8.40 |
| AR1254330 | PR035001.D-2 | 12/21/2018 | 22:25 | 3.51 | 8.40 |
| ZZZZZZ | PR035002.D-2 | 12/21/2018 | 22:40 | 3.51 | 8.40 |
| ZZZZZZ | PR035003.D-2 | 12/21/2018 | 22:54 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035004.D-2 | 12/21/2018 | 23:09 | 3.51 | 8.40 |
| ZZZZZZ | PR035005.D-2 | 12/21/2018 | 23:23 | 3.51 | 8.40 |
| ZZZZZZ | PR035006.D-2 | 12/21/2018 | 23:37 | 3.51 | 8.40 |
| ZZZZZZ | PR035007.D-2 | 12/21/2018 | 23:52 | 3.51 | 8.40 |
| ZZZZZZ | PR035008.D-2 | 12/22/2018 | 00:06 | 3.51 | 8.40 |
| ZZZZZZ | PR035009.D-2 | 12/22/2018 | 00:21 | 3.51 | 8.40 |
| ZZZZZZ | PR035010.D-2 | 12/22/2018 | 00:35 | 3.51 | 8.40 |
| ZZZZZZ | PR035011.D-2 | 12/22/2018 | 00:50 | 3.51 | 8.40 |
| ZZZZZZ | PR035012.D-2 | 12/22/2018 | 01:04 | 3.51 | 8.40 |
| ZZZZZZ | PR035013.D-2 | 12/22/2018 | 01:19 | 3.51 | 8.40 |
| ZZZZZZ | PR035014.D-2 | 12/22/2018 | 01:33 | 3.51 | 8.40 |
| ZZZZZZ | PR035015.D-2 | 12/22/2018 | 01:47 | 3.51 | 8.40 |
| AIBLK98 | PR035016.D-2 | 12/22/2018 | 02:02 | 3.51 | 8.40 |
| AR1660331 | PR035017.D-2 | 12/22/2018 | 02:16 | 3.51 | 8.40 |
| AR1242331 | PR035018.D-2 | 12/22/2018 | 02:31 | 3.51 | 8.40 |
| AR1248331 | PR035019.D-2 | 12/22/2018 | 02:45 | 3.51 | 8.40 |
| AR1254331 | PR035020.D-2 | 12/22/2018 | 03:00 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T6

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-01
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 3609.4900 | 6900 | 14.20 |
| | 2 | 5.86 | 5.79 | 5.93 | 7411.5801 | | |
| | 3 | 6.07 | 5.99 | 6.13 | 8819.4199 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 5899.1401 | | |
| | 5 | 6.51 | 6.43 | 6.57 | 8670.8701 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 3954.0801 | 7900 | |
| | 2 | 4.80 | 4.73 | 4.87 | 8726.9199 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 8742.7305 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 8763.9805 | | |
| | 5 | 5.40 | 5.33 | 5.47 | 9108.6602 | | |
| Aroclor-1254 COLUMN 1 | 1 | 6.44 | 6.37 | 6.51 | 6693.2598 | 6500 | |
| | 2 | 6.66 | 6.59 | 6.73 | 6975.0400 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 4592.7900 | | |
| | 4 | 7.31 | 7.23 | 7.37 | 4556.2202 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 9921.1699 | | |
| COLUMN 2 | 1 | 5.36 | 5.29 | 5.43 | 8573.2500 | 6500 | |
| | 2 | 5.50 | 5.43 | 5.57 | 5121.7700 | | |
| | 3 | 5.90 | 5.83 | 5.97 | 6140.1299 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 4172.2002 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 8522.3096 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 6252.9902 | 6800 | |
| | 2 | 7.44 | 7.37 | 7.51 | 6794.9702 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 7569.5698 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 6997.9102 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 6151.8198 | | |
| COLUMN 2 | 1 | 6.03 | 5.96 | 6.10 | 8330.6104 | 7100 | |
| | 2 | 6.21 | 6.14 | 6.28 | 7510.8901 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 6698.8799 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 6034.7798 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 6752.8599 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T6DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-01DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 5042.3701 | 9200 | 14.70 |
| | 2 | 5.86 | 5.79 | 5.93 | 9727.3896 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 11755.7998 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 7848.8799 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 11596.0000 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 5556.4199 | 11000 | |
| | 2 | 4.80 | 4.73 | 4.87 | 11842.9004 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 11645.7002 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 11602.2002 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 12064.0000 | | |
| Aroclor-1254 COLUMN 1 | 1 | 6.44 | 6.37 | 6.51 | 8989.7803 | 8600 | |
| | 2 | 6.66 | 6.59 | 6.73 | 9502.6797 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 6038.0601 | | |
| | 4 | 7.31 | 7.23 | 7.37 | 5532.8301 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 13065.5996 | | |
| COLUMN 2 | 1 | 5.35 | 5.29 | 5.43 | 11664.0000 | 8400 | |
| | 2 | 5.50 | 5.43 | 5.57 | 6602.0801 | | |
| | 3 | 5.90 | 5.83 | 5.97 | 7914.8398 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 5152.5200 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 10662.5996 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 8009.9600 | 8700 | |
| | 2 | 7.44 | 7.37 | 7.51 | 9171.0195 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 10031.0000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 8444.2900 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 7825.9702 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 10535.4004 | 8700 | |
| | 2 | 6.21 | 6.14 | 6.28 | 9744.5098 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 8417.9502 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 6998.9302 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 7953.3398 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T6DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-01DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 6561.6699 | 12000 | 9.60 |
| | 2 | 5.86 | 5.79 | 5.93 | 13157.7998 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 14979.5000 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 10437.9004 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 15230.2002 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 6934.0498 | 13000 | |
| | 2 | 4.80 | 4.73 | 4.87 | 14881.2998 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 14764.5996 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 14598.2998 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 14989.2998 | | |
| Aroclor-1254 COLUMN 1 | 1 | 6.44 | 6.37 | 6.51 | 11720.9004 | 11000 | |
| | 2 | 6.66 | 6.59 | 6.73 | 12106.7998 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 7627.6699 | | |
| | 4 | 7.31 | 7.23 | 7.37 | 7709.6699 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 15645.0996 | | |
| COLUMN 2 | 1 | 5.35 | 5.29 | 5.43 | 14327.7998 | 10000 | |
| | 2 | 5.50 | 5.43 | 5.57 | 8397.1602 | | |
| | 3 | 5.90 | 5.83 | 5.97 | 9807.4297 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 6367.2402 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 12557.7998 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 10024.2998 | 11000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 11485.7002 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 12011.2998 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 10184.0000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 8957.4199 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 13154.2002 | 11000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 12184.4004 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 10059.0996 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 8461.4102 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 9262.1699 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T6MS

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-02MS
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): $\mu\text{g/Kg}$

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|---------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 2479.9700 | 5100 | 54.90 * |
| | 2 | 5.62 | 5.54 | 5.68 | 6755.5698 | | |
| | 3 | 5.68 | 5.61 | 5.75 | 927.6630 | | |
| | 4 | 5.77 | 5.70 | 5.84 | 3991.5300 | | |
| | 5 | 6.07 | 6.00 | 6.14 | 11589.7998 | | |
| | 1 | 4.57 | 4.50 | 4.64 | 2711.5601 | 8000 | |
| | 2 | 4.59 | 4.52 | 4.66 | 7194.1899 | | |
| | 3 | 4.76 | 4.69 | 4.83 | 5431.8398 | | |
| | 4 | 4.80 | 4.73 | 4.87 | 12564.5996 | | |
| | 5 | 5.01 | 4.94 | 5.08 | 11981.0996 | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 3450.0601 | 5700 | 18.00 |
| | 2 | 5.86 | 5.79 | 5.93 | 5888.3701 | | |
| | 3 | 6.07 | 5.99 | 6.13 | 7262.1401 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 4889.6699 | | |
| | 5 | 6.51 | 6.43 | 6.57 | 7058.7598 | | |
| | 1 | 4.57 | 4.50 | 4.64 | 3425.8101 | 6700 | |
| | 2 | 4.80 | 4.73 | 4.87 | 7410.0200 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 7554.4800 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 7579.7002 | | |
| | 5 | 5.40 | 5.33 | 5.47 | 7704.6802 | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 5357.3198 | 5100 | 1.50 |
| | 2 | 6.66 | 6.59 | 6.73 | 5537.1699 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 3624.0901 | | |
| | 4 | 7.31 | 7.23 | 7.37 | 3420.9399 | | |
| | 5 | 7.73 | 7.65 | 7.79 | 7749.1802 | | |
| | 1 | 5.36 | 5.29 | 5.43 | 7097.2300 | 5200 | |
| | 2 | 5.50 | 5.43 | 5.57 | 4075.0200 | | |
| | 3 | 5.90 | 5.83 | 5.97 | 4880.8999 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 3273.9399 | | |
| | 5 | 6.54 | 6.47 | 6.61 | 6758.4600 | | |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 4749.9600 | 5300 | 6.10 |
| | 2 | 7.44 | 7.37 | 7.51 | 5352.3599 | | |
| | 3 | 7.73 | 7.65 | 7.79 | 5949.3701 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 5373.7998 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 4911.1401 | | |
| | 1 | 6.03 | 5.96 | 6.10 | 6566.3198 | 5600 | |
| | 2 | 6.21 | 6.14 | 6.28 | 5945.3501 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 5295.9702 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 4753.7598 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 5384.1699 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T6MSD

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-03MSD
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): $\mu\text{g/Kg}$

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D | |
|--------------|----------|------|-----------|------|---------------|------------|---------|------|
| | | | FROM | TO | PEAK | MEAN | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 2481.8999 | 4600 | 55.30 * | |
| | 2 | 5.61 | 5.54 | 5.68 | 5919.9800 | | | |
| | 3 | 5.68 | 5.61 | 5.75 | 858.1530 | | | |
| | 4 | 5.77 | 5.70 | 5.84 | 3591.4299 | | | |
| | 5 | 6.07 | 6.00 | 6.14 | 10384.4004 | | | |
| | COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 2482.4199 | | 7200 |
| | | 2 | 4.59 | 4.52 | 4.66 | 6561.7700 | | |
| | | 3 | 4.77 | 4.69 | 4.83 | 4859.6001 | | |
| | | 4 | 4.80 | 4.73 | 4.87 | 11379.4004 | | |
| | | 5 | 5.01 | 4.94 | 5.08 | 10812.5000 | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 3318.8000 | 5200 | 15.80 | |
| | 2 | 5.86 | 5.79 | 5.93 | 5388.8398 | | | |
| | 3 | 6.07 | 5.99 | 6.13 | 6436.9399 | | | |
| | 4 | 6.47 | 6.40 | 6.54 | 4455.2598 | | | |
| | 5 | 6.51 | 6.43 | 6.57 | 6441.0000 | | | |
| | COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 2827.8601 | | 6000 |
| | | 2 | 4.80 | 4.73 | 4.87 | 6711.0298 | | |
| | | 3 | 4.84 | 4.77 | 4.91 | 6819.2500 | | |
| | | 4 | 5.01 | 4.94 | 5.08 | 6757.4399 | | |
| | | 5 | 5.40 | 5.33 | 5.47 | 7039.5400 | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 4930.7700 | 4800 | 1.00 | |
| | 2 | 6.66 | 6.59 | 6.73 | 5054.3901 | | | |
| | 3 | 7.02 | 6.95 | 7.09 | 3336.4099 | | | |
| | 4 | 7.31 | 7.23 | 7.37 | 3231.5400 | | | |
| | 5 | 7.72 | 7.65 | 7.79 | 7238.3501 | | | |
| | COLUMN 1 | 1 | 5.36 | 5.29 | 5.43 | 6523.1201 | | 4800 |
| | | 2 | 5.50 | 5.43 | 5.57 | 3718.1799 | | |
| | | 3 | 5.90 | 5.83 | 5.97 | 4473.3301 | | |
| | | 4 | 6.12 | 6.05 | 6.19 | 3017.7300 | | |
| | | 5 | 6.54 | 6.47 | 6.61 | 6296.2202 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 4363.4302 | 4900 | 5.60 | |
| | 2 | 7.44 | 7.37 | 7.51 | 4982.7700 | | | |
| | 3 | 7.72 | 7.65 | 7.79 | 5557.1802 | | | |
| | 4 | 8.02 | 7.95 | 8.09 | 5023.3398 | | | |
| | 5 | 8.34 | 8.27 | 8.41 | 4659.6699 | | | |
| | COLUMN 1 | 1 | 6.03 | 5.96 | 6.10 | 6037.7300 | | 5200 |
| | | 2 | 6.21 | 6.14 | 6.28 | 5505.8999 | | |
| | | 3 | 6.36 | 6.30 | 6.44 | 4887.1802 | | |
| | | 4 | 6.83 | 6.76 | 6.90 | 4419.1299 | | |
| | | 5 | 7.07 | 7.00 | 7.14 | 5104.2500 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41W4 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-04
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 1184.0699 | 1400 | 1.90 |
| COLUMN 1 | 2 | 7.45 | 7.37 | 7.51 | 1320.8600 | | |
| | 3 | 7.73 | 7.65 | 7.79 | 1426.6801 | | |
| | 4 | 8.03 | 7.95 | 8.09 | 1650.8300 | | |
| | 5 | 8.35 | 8.27 | 8.41 | 1632.0500 | | |
| | COLUMN 2 | 1 | 6.03 | 5.96 | 6.10 | 1299.3199 | |
| COLUMN 2 | 2 | 6.22 | 6.14 | 6.28 | 1347.4700 | | |
| | 3 | 6.37 | 6.30 | 6.44 | 1367.3900 | | |
| | 4 | 6.84 | 6.76 | 6.90 | 1477.7900 | | |
| | 5 | 7.08 | 7.00 | 7.14 | 1585.1600 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41W4DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-04DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 1375.2700 | 1700 | 13.60 |
| | 2 | 7.44 | 7.37 | 7.51 | 1593.5699 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 1638.3800 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2105.3000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2023.3000 | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 1370.6400 | 1500 | |
| | 2 | 6.21 | 6.14 | 6.28 | 1459.0800 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 1410.6400 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 1654.3900 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 1794.0200 | | |
| COLUMN 2 | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41X1 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-05
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D | | |
|--------------|------|------|-----------|------|---------------|------|------|-----|------|
| | | | FROM | TO | PEAK | MEAN | | | |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 113.0510 | 130 | 3.90 | | |
| | 2 | 7.44 | 7.37 | 7.51 | 134.6420 | | | | |
| | 3 | 7.72 | 7.65 | 7.79 | 130.4150 | | | | |
| | 4 | 8.02 | 7.95 | 8.09 | 161.7010 | | | | |
| | 5 | 8.34 | 8.27 | 8.41 | 129.8130 | | | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 132.1300 | | | 130 | 3.90 |
| | 2 | 6.21 | 6.14 | 6.28 | 132.4710 | | | | |
| | 3 | 6.36 | 6.30 | 6.44 | 117.1450 | | | | |
| | 4 | 6.83 | 6.76 | 6.90 | 130.2830 | | | | |
| | 5 | 7.07 | 7.00 | 7.14 | 132.3070 | | | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 132.1300 | 130 | 3.90 | | |
| | 2 | 6.21 | 6.14 | 6.28 | 132.4710 | | | | |
| | 3 | 6.36 | 6.30 | 6.44 | 117.1450 | | | | |
| | 4 | 6.83 | 6.76 | 6.90 | 130.2830 | | | | |
| | 5 | 7.07 | 7.00 | 7.14 | 132.3070 | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-06
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 4058.8701 | 4200 | 8.30 |
| | 2 | 7.44 | 7.37 | 7.51 | 4336.1602 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 4473.7300 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 4046.3201 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 4168.7900 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 4692.4902 | 4600 | |
| | 2 | 6.21 | 6.14 | 6.28 | 4894.5801 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 4528.0400 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 4352.3901 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 4358.1602 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X2DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-06DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 5586.4902 | 5700 | 0.50 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 5718.8398 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 6028.0400 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 5378.9800 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 5690.9399 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 5618.7300 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 6251.4399 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 5591.9199 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 5459.9199 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 5609.8701 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X2DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-06DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 6498.5000 | 6300 | 1.40 |
| | 2 | 7.44 | 7.37 | 7.51 | 6806.1699 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 6453.4902 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 5862.9800 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 5791.8901 | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 6678.7202 | 6400 | |
| | 2 | 6.21 | 6.14 | 6.28 | 7089.5400 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 6302.4702 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 5917.2798 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 5865.3101 | | |
| COLUMN 2 | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X3

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-07
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 17.5477 | 19 | 18.40 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 25.7187 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 17.2488 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 17.8825 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 18.6862 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 30.9737 | 23 | |
| | 2 | 6.21 | 6.14 | 6.28 | 28.6450 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 18.2586 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 19.7476 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 17.3313 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X4

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-08
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 10.9150 | 11 | 14.60 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 11.9608 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 9.6430 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 11.2217 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 9.5676 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 16.2192 | 12 | |
| | 2 | 6.21 | 6.14 | 6.28 | 13.8813 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 10.9603 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 10.1257 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 9.9296 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X5

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-09
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 267.3370 | 300 | 3.40 |
| | 2 | 5.86 | 5.79 | 5.93 | 312.2310 | | |
| | 3 | 6.07 | 5.99 | 6.13 | 351.5610 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 220.6410 | | |
| | 5 | 6.51 | 6.43 | 6.57 | 348.7190 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 241.3270 | 310 | |
| | 2 | 4.80 | 4.73 | 4.87 | 344.4190 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 327.9820 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 309.2060 | | |
| | 5 | 5.40 | 5.33 | 5.47 | 328.9450 | | |
| Aroclor-1254 COLUMN 1 | 1 | 6.44 | 6.37 | 6.51 | 500.9090 | 590 | |
| | 2 | 6.66 | 6.59 | 6.73 | 465.3110 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 315.7990 | | |
| | 4 | 7.31 | 7.23 | 7.37 | 257.9950 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 1408.3400 | | |
| COLUMN 2 | 1 | 5.36 | 5.29 | 5.43 | 441.5430 | 580 | |
| | 2 | 5.50 | 5.43 | 5.57 | 409.8200 | | |
| | 3 | 5.90 | 5.83 | 5.97 | 562.3990 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 317.9440 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 1156.4700 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.19 | 7.12 | 7.26 | 992.2700 | 1000 | |
| | 2 | 7.44 | 7.37 | 7.51 | 1028.4200 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 1081.2400 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 921.7810 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 993.9850 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 1380.4900 | 1100 | |
| | 2 | 6.21 | 6.14 | 6.28 | 1079.5699 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 937.6650 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 897.1170 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 1033.9500 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X5DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-09DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 392.0680 | 390 | 2.80 |
| | 2 | 5.86 | 5.79 | 5.93 | 394.8420 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 441.8140 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 282.2330 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 447.3120 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 308.0030 | 380 | |
| | 2 | 4.80 | 4.73 | 4.87 | 396.4190 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 394.8420 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 389.9380 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 415.6660 | | |
| Aroclor-1254 COLUMN 1 | 1 | 6.44 | 6.37 | 6.51 | 629.0280 | 690 | |
| | 2 | 6.66 | 6.59 | 6.73 | 591.5670 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 348.9040 | | |
| | 4 | 7.31 | 7.23 | 7.37 | 316.2440 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 1585.3101 | | |
| COLUMN 2 | 1 | 5.35 | 5.29 | 5.43 | 551.7610 | 680 | |
| | 2 | 5.50 | 5.43 | 5.57 | 510.9320 | | |
| | 3 | 5.90 | 5.83 | 5.97 | 686.0030 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 358.8860 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 1294.9200 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 1191.4100 | 1200 | |
| | 2 | 7.44 | 7.37 | 7.51 | 1230.3500 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 1217.1000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1075.6899 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 1058.2600 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 1476.1801 | 1200 | |
| | 2 | 6.21 | 6.14 | 6.28 | 1251.3400 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 1086.6700 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 998.1730 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 1086.8101 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X6

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-10
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): $\mu\text{g/Kg}$

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 4713.1099 | 4200 | 16.20 |
| | 2 | 5.86 | 5.79 | 5.93 | 3946.5701 | | |
| | 3 | 6.07 | 5.99 | 6.13 | 4440.3198 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 3338.3701 | | |
| | 5 | 6.51 | 6.43 | 6.57 | 4659.1001 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 5017.8701 | 4900 | |
| | 2 | 4.80 | 4.73 | 4.87 | 4304.6001 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 5247.5498 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 4682.6899 | | |
| | 5 | 5.40 | 5.33 | 5.47 | 5254.6099 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 2005.7700 | 2100 | |
| | 2 | 7.44 | 7.37 | 7.51 | 2177.8401 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2331.3101 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1935.4900 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 1835.9000 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 2760.4199 | 2100 | 3.90 |
| | 2 | 6.21 | 6.14 | 6.28 | 2209.1899 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2063.8799 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 1741.3500 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 1910.3800 | | |
| COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 2005.7700 | 2100 | |
| | 2 | 7.44 | 7.37 | 7.51 | 2177.8401 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2331.3101 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1935.4900 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 1835.9000 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2760.4199 | 2100 | |
| | 2 | 6.21 | 6.14 | 6.28 | 2209.1899 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2063.8799 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 1741.3500 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 1910.3800 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X6DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-10DL
 Instrument ID (1): ECD_R Date(s) Analyzed: 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): $\mu\text{g/Kg}$

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 5302.6299 | 4600 | 12.90 |
| | 2 | 5.86 | 5.79 | 5.93 | 4128.9902 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 4867.8701 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 3641.0901 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 5172.3799 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 5358.5000 | 5200 | |
| | 2 | 4.80 | 4.73 | 4.87 | 4609.0698 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 5557.9399 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 4904.2300 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 5663.3799 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 2200.4500 | 2300 | |
| | 2 | 7.44 | 7.37 | 7.51 | 2424.6899 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2579.7200 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2144.9299 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2091.1201 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 2983.3201 | 2300 | 2.10 |
| | 2 | 6.21 | 6.14 | 6.28 | 2438.5200 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2246.6799 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 1905.9100 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 2105.4099 | | |
| COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 2200.4500 | 2300 | |
| | 2 | 7.44 | 7.37 | 7.51 | 2424.6899 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2579.7200 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2144.9299 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2091.1201 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2983.3201 | 2300 | |
| | 2 | 6.21 | 6.14 | 6.28 | 2438.5200 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2246.6799 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 1905.9100 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 2105.4099 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X6DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-10DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): $\mu\text{g/Kg}$

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 6502.9702 | 5900 | 10.70 |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 5470.9502 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 6269.8999 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 4735.6099 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 6663.4302 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 6647.2402 | 6600 | |
| | 2 | 4.80 | 4.73 | 4.87 | 5938.2300 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 7036.3999 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 6158.0898 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 7030.6201 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2830.0100 | 2800 | 5.00 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 3062.8999 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 3079.7000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2628.5200 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2333.8601 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 3877.0801 | 2900 | |
| | 2 | 6.21 | 6.14 | 6.28 | 3111.9900 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2809.1899 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 2404.1101 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 2434.2100 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X7

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-11
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2821.9700 | 3000 | 6.20 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 3030.8701 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 3048.8701 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2912.9299 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 3160.6699 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 3014.3101 | 3200 | |
| | 2 | 6.21 | 6.14 | 6.28 | 3331.3000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 3033.2100 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 3219.0701 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 3310.3201 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X7DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-11DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2671.4500 | 2900 | 0.90 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 2992.1001 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2907.2900 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2798.7100 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 3064.1799 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2872.5801 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 3104.2400 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2780.4800 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 2873.9299 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 2929.5300 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X8

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-12
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 11.0922 | 13 | 5.80 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 9.7751 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 9.6080 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 23.2853 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 12.7091 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 12.4093 | 13 | |
| | 2 | 6.21 | 6.14 | 6.28 | 14.3457 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 11.3183 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 12.5027 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 12.2668 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X9

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-13
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1242 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 116.6360 | 120 | 10.00 |
| | 2 | 5.62 | 5.54 | 5.68 | 146.2900 | | |
| | 3 | 5.68 | 5.60 | 5.74 | 121.7810 | | |
| | 4 | 5.78 | 5.70 | 5.84 | 112.0910 | | |
| | 5 | 6.51 | 6.43 | 6.57 | 109.6950 | | |
| COLUMN 2 | 1 | 4.58 | 4.50 | 4.64 | 119.6160 | 130 | |
| | 2 | 4.59 | 4.52 | 4.66 | 158.9600 | | |
| | 3 | 4.77 | 4.69 | 4.83 | 134.6520 | | |
| | 4 | 4.85 | 4.77 | 4.91 | 109.5140 | | |
| | 5 | 5.36 | 5.29 | 5.43 | 144.1560 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.19 | 7.12 | 7.26 | 34.2545 | 45 | |
| | 2 | 7.44 | 7.37 | 7.51 | 97.4278 | | |
| | 3 | 7.73 | 7.65 | 7.79 | 39.9728 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 30.5195 | | |
| | 5 | 8.35 | 8.27 | 8.41 | 20.8447 | | |
| COLUMN 2 | 1 | 6.03 | 5.96 | 6.10 | 42.2179 | 29 | |
| | 2 | 6.22 | 6.14 | 6.28 | 38.3419 | | |
| | 3 | 6.37 | 6.30 | 6.44 | 26.0093 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 20.8598 | | |
| | 5 | 7.08 | 7.00 | 7.14 | 18.9469 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y0

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-14
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 270.9000 | 310 | 4.20 |
| | 2 | 7.44 | 7.37 | 7.51 | 322.1320 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 330.6700 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 304.7550 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 327.9860 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 285.9970 | 300 | |
| | 2 | 6.21 | 6.14 | 6.28 | 317.7300 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 285.6600 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 278.2920 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 325.5270 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41Y2 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-16
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 464.3900 | 500 | 9.70 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 537.4150 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 539.9230 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 481.7220 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 494.4860 | | |
| | 1 | 6.02 | 5.96 | 6.10 | 450.4170 | 460 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 494.7270 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 450.4880 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 428.0930 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 471.2530 | | |
| | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y3

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-17
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 834.4780 | 870 | 7.50 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 921.1870 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 936.7310 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 791.1370 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 864.0480 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 925.4960 | 930 | |
| | 2 | 6.21 | 6.14 | 6.28 | 1035.6200 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 923.0410 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 835.7460 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 954.5780 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y3DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-17DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 1165.0200 | 1100 | 0.20 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 1187.0601 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 1183.2800 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 962.5990 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 962.4800 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 1179.2900 | 1100 | |
| | 2 | 6.21 | 6.14 | 6.28 | 1251.8900 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 1099.6899 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 942.6870 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 975.8880 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z4

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: J6431-18
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 271.9830 | 280 | 5.10 |
| COLUMN 1 | 2 | 5.86 | 5.79 | 5.93 | 276.6570 | | |
| | 3 | 6.07 | 5.99 | 6.13 | 282.0170 | | |
| | 4 | 6.47 | 6.40 | 6.54 | 282.6270 | | |
| | 5 | 6.51 | 6.43 | 6.57 | 288.1270 | | |
| | 1 | 4.57 | 4.50 | 4.64 | 282.8100 | 290 | |
| COLUMN 2 | 2 | 4.80 | 4.73 | 4.87 | 290.5770 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 296.5830 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 292.7930 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 310.0730 | | |
| | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

ALCS54

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T6
 Analytical Method: ARO Lab Sample ID: PB115754BS
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/20/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

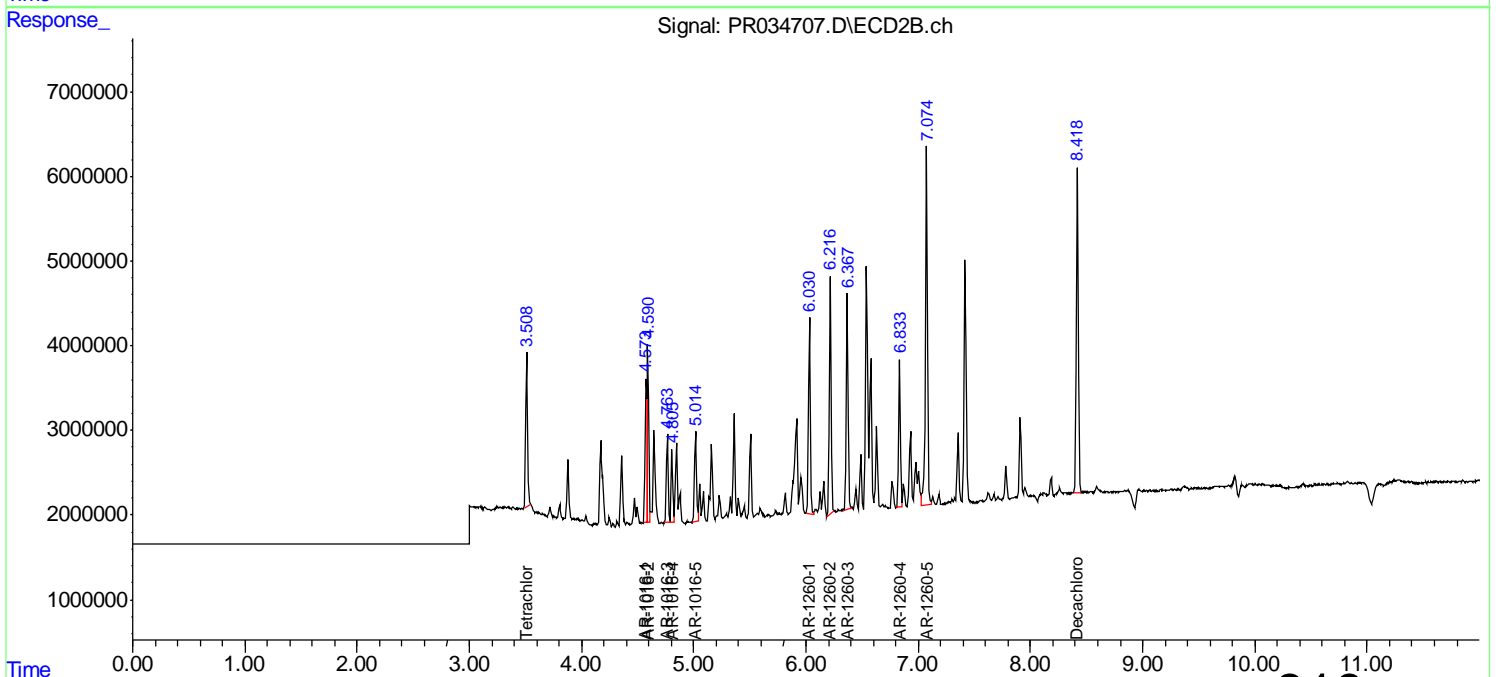
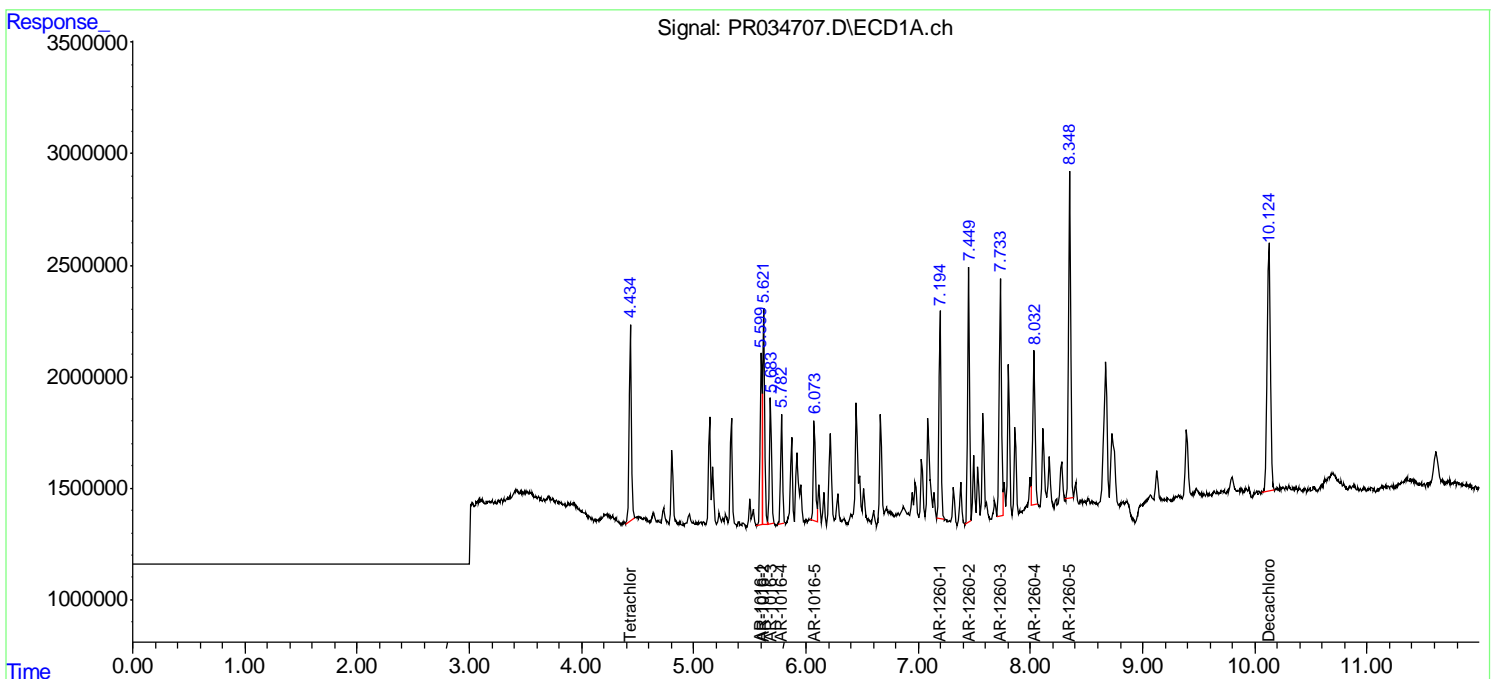
| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 35.5767 | 34 | 0.40 |
| | 2 | 5.61 | 5.54 | 5.68 | 34.0667 | | |
| | 3 | 5.68 | 5.61 | 5.75 | 33.3333 | | |
| | 4 | 5.78 | 5.70 | 5.84 | 33.7367 | | |
| | 5 | 6.07 | 6.00 | 6.14 | 34.6167 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 33.5300 | 34 | |
| | 2 | 4.59 | 4.52 | 4.66 | 33.0067 | | |
| | 3 | 4.76 | 4.69 | 4.83 | 34.8633 | | |
| | 4 | 4.80 | 4.73 | 4.87 | 35.6833 | | |
| | 5 | 5.01 | 4.94 | 5.08 | 34.8667 | | |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 36.9867 | 35 | |
| | 2 | 7.44 | 7.37 | 7.51 | 36.2500 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 34.5700 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 34.1833 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 35.0633 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 36.1867 | 38 | |
| | 2 | 6.21 | 6.14 | 6.28 | 42.4400 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 35.5033 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 38.6400 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 37.4500 | | |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034707.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:11
 Operator : SM\SJ
 Sample : AR1660ICC100
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:44:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034707.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:11
 Operator : SM\SJ
 Sample : AR1660ICC100
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:44:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.434 | 3.509 | 11575328 | 20156690 | 5.951 | 5.782 |
| 2) SA Decachlor... | 10.125 | 8.418 | 22531430 | 48088722 | 11.461 | 10.938 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.600 | 4.574 | 8549679 | 15711716 | 126.656 | 120.744 |
| 4) L1 AR-1016-2 | 5.622 | 4.591 | 12119888 | 23241468 | 122.390 | 117.589 |
| 5) L1 AR-1016-3 | 5.684 | 4.763 | 7127231 | 11357332 | 121.097 | 118.163 |
| 6) L1 AR-1016-4 | 5.782 | 4.805 | 5824701 | 9101036 | 122.788 | 120.465 |
| 7) L1 AR-1016-5 | 6.074 | 5.014 | 5913838 | 12509960 | 124.168 | 121.662 |
| 31) L7 AR-1260-1 | 7.194 | 6.030 | 11621116 | 25538159 | 123.618 | 118.797 |
| 32) L7 AR-1260-2 | 7.449 | 6.216 | 13626859 | 31448616 | 117.371 | 115.568 |
| 33) L7 AR-1260-3 | 7.733 | 6.367 | 14997060 | 28478088 | 107.462 | 114.722 |
| 34) L7 AR-1260-4 | 8.032 | 6.833 | 9903750 | 19177385 | 114.675 | 112.155 |
| 35) L7 AR-1260-5 | 8.349 | 7.074 | 19978778 | 53988233 | 110.653 | 111.628 |
| ----- | | | | | | |

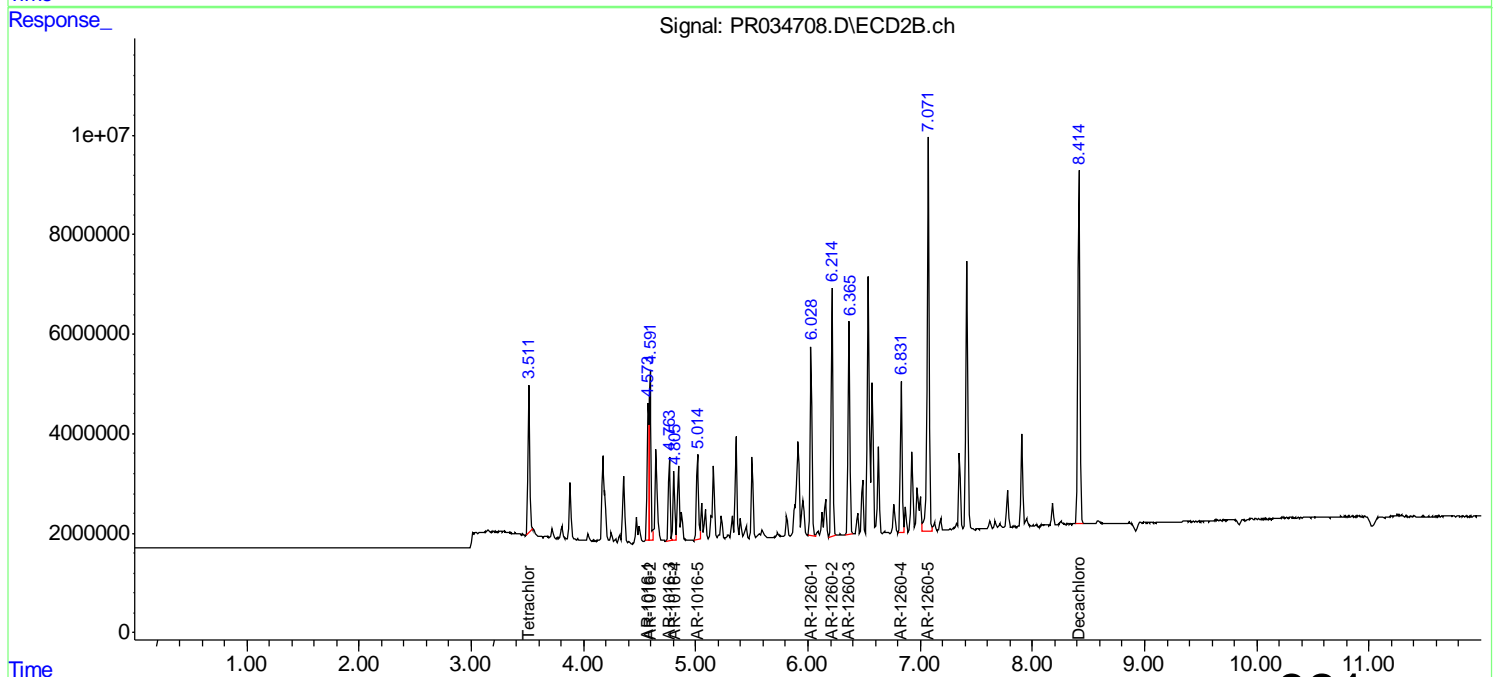
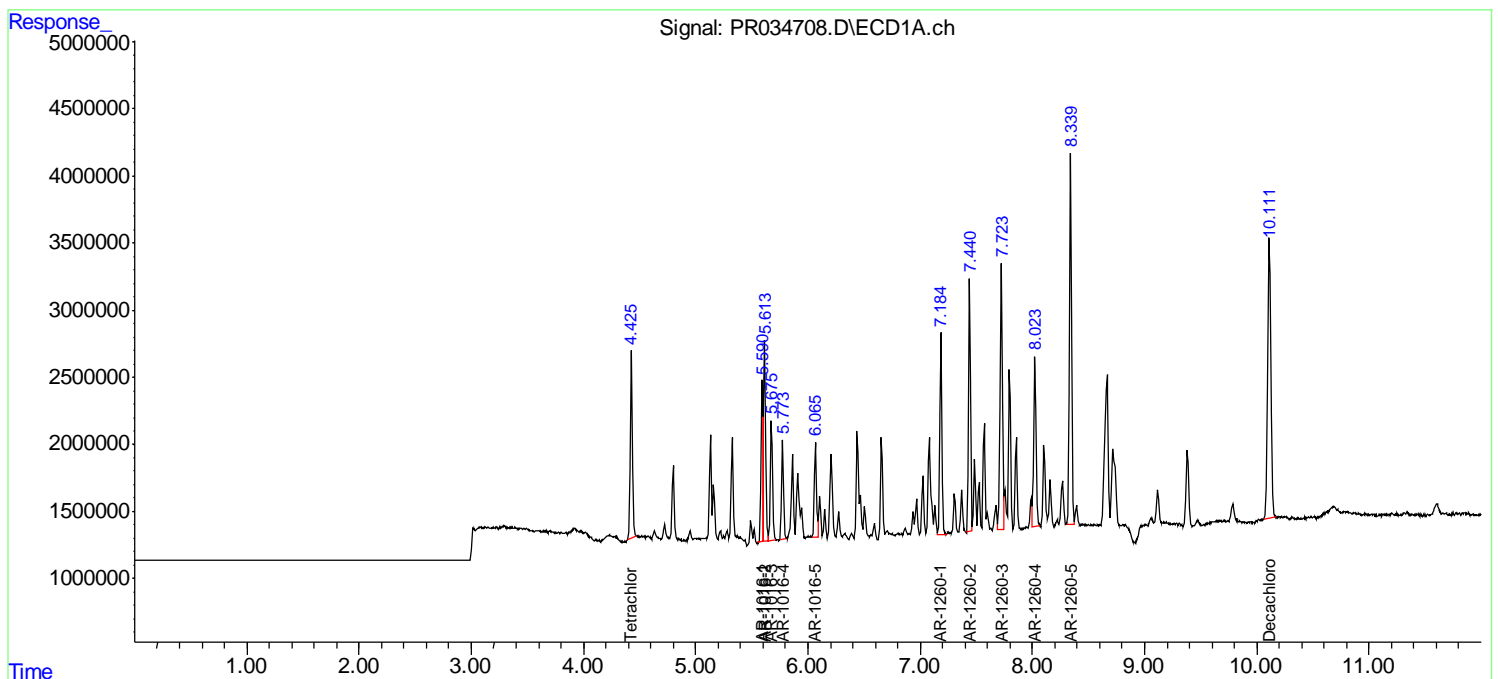
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034708.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:25
 Operator : SM\SJ
 Sample : AR1660ICC200
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:43:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034708.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:25
 Operator : SM\SJ
 Sample : AR1660ICC200
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1660201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:43:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 18213880 | 32991339 | 9.832 | 9.849 |
| 2) SA Decachlor... | 10.111 | 8.414 | 41412050 | 90430415 | 21.864 | 21.062 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.591 | 4.574 | 13478376 | 25405682 | 213.926 | 205.920 |
| 4) L1 AR-1016-2 | 5.613 | 4.591 | 19663053 | 37807430 | 210.336 | 200.083 |
| 5) L1 AR-1016-3 | 5.675 | 4.764 | 12137503 | 18409552 | 217.707 | 200.646 |
| 6) L1 AR-1016-4 | 5.773 | 4.805 | 9242599 | 14845943 | 206.611 | 207.104 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 9245419 | 20114685 | 206.602 | 206.819 |
| 31) L7 AR-1260-1 | 7.184 | 6.028 | 18964446 | 42374969 | 214.391 | 206.838 |
| 32) L7 AR-1260-2 | 7.440 | 6.214 | 23538580 | 53721092 | 211.946 | 205.410 |
| 33) L7 AR-1260-3 | 7.723 | 6.365 | 28884486 | 48515655 | 210.908 | 202.910 |
| 34) L7 AR-1260-4 | 8.023 | 6.831 | 17905676 | 34245173 | 215.225 | 206.552 |
| 35) L7 AR-1260-5 | 8.340 | 7.072 | 37186263 | 97857686 | 211.592 | 208.391 |
| ----- | | | | | | |

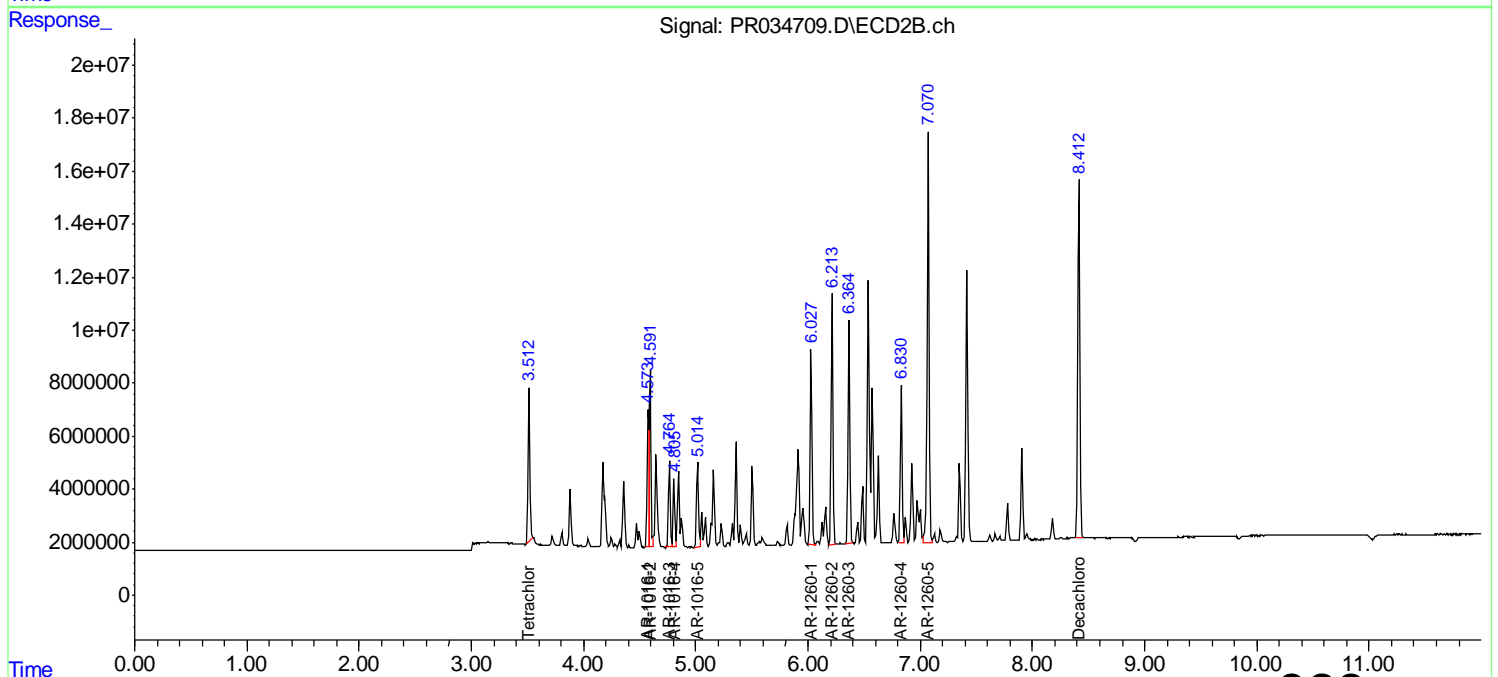
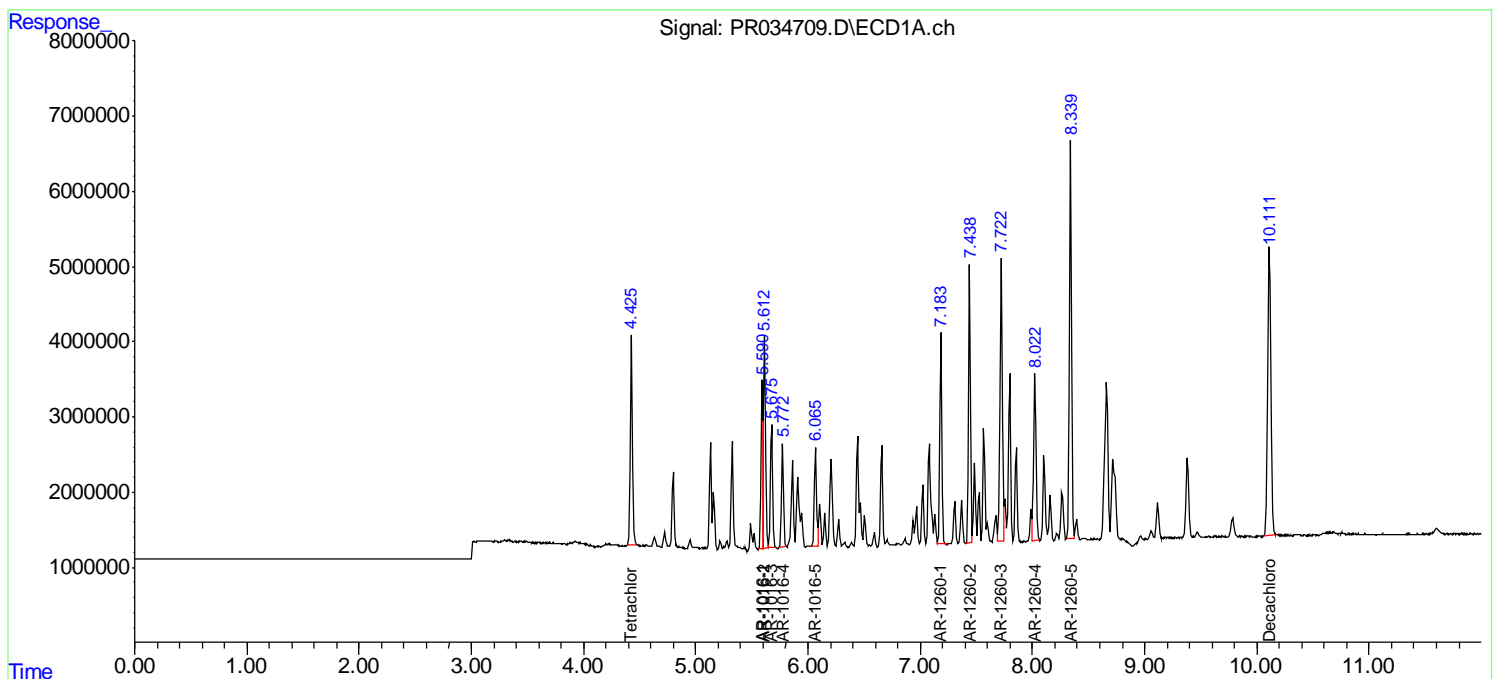
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034709.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:40
 Operator : SM\SJ
 Sample : AR1660ICC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:34:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034709.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:40
 Operator : SM\SJ
 Sample : AR1660ICC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:34:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 36033394 | 63898434 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.111 | 8.413 | 76211999 | 169.6E6 | 40.000 | 40.000 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.574 | 24448237 | 47658424 | 400.000 | 400.000 |
| 4) L1 AR-1016-2 | 5.612 | 4.591 | 36234219 | 72823415 | 400.000 | 400.000 |
| 5) L1 AR-1016-3 | 5.675 | 4.764 | 21675790 | 35570548 | 400.000 | 400.000 |
| 6) L1 AR-1016-4 | 5.773 | 4.805 | 17386025 | 28101442 | 400.000 | 400.000 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 17667035 | 38000332 | 400.000 | 400.000 |
| 31) L7 AR-1260-1 | 7.183 | 6.028 | 35116158 | 80472567 | 400.000 | 400.000 |
| 32) L7 AR-1260-2 | 7.439 | 6.214 | 44310529 | 103.0E6 | 400.000 | 400.000 |
| 33) L7 AR-1260-3 | 7.722 | 6.365 | 54581902 | 93696273 | 400.000 | 400.000 |
| 34) L7 AR-1260-4 | 8.022 | 6.831 | 33197341 | 65680580 | 400.000 | 400.000 |
| 35) L7 AR-1260-5 | 8.339 | 7.071 | 69881907 | 183.3E6 | 400.000 | 400.000 |
| ----- | | | | | | |

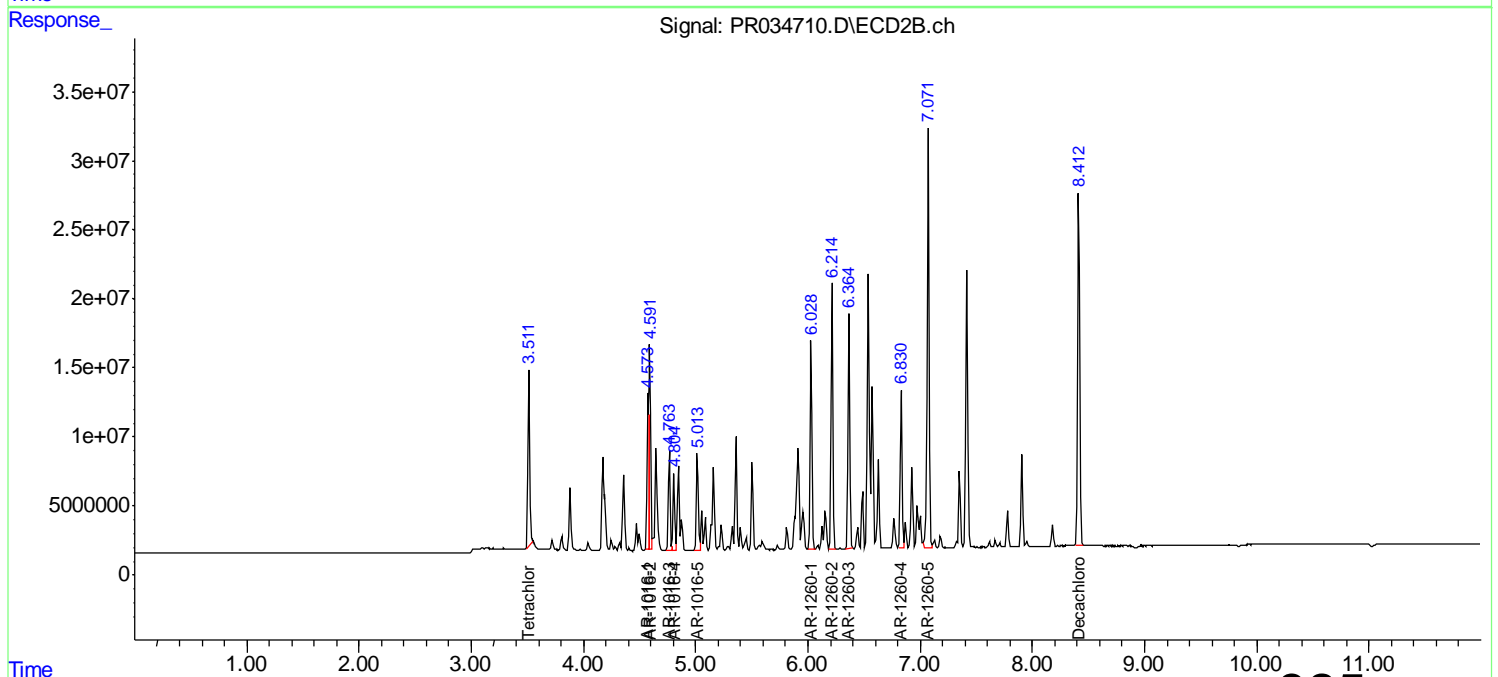
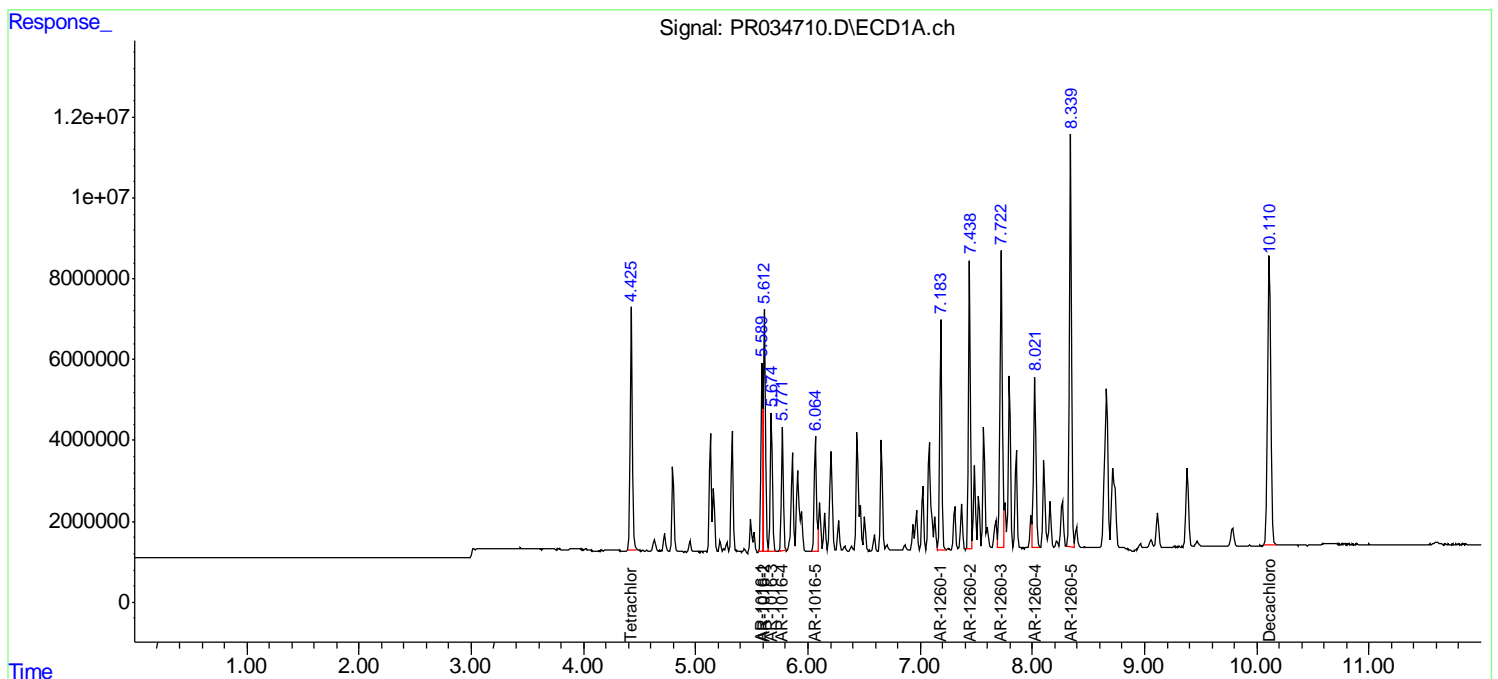
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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034710.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660ICC800
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:41:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034710.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660ICC800
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:41:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 78653657 | 142.2E6 | 42.221 | 42.225 |
| 2) SA Decachlor... | 10.111 | 8.413 | 140.8E6 | 323.8E6 | 76.699 | 76.774 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.574 | 52138722 | 102.9E6 | 847.199 | 842.479 |
| 4) L1 AR-1016-2 | 5.613 | 4.591 | 77482364 | 159.9E6 | 843.359 | 846.259 |
| 5) L1 AR-1016-3 | 5.674 | 4.764 | 45620376 | 77251794 | 843.162 | 842.873 |
| 6) L1 AR-1016-4 | 5.772 | 4.805 | 37550534 | 59626373 | 848.763 | 841.764 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 37491732 | 80642500 | 847.128 | 838.698 |
| 31) L7 AR-1260-1 | 7.183 | 6.028 | 70257436 | 163.4E6 | 813.772 | 806.693 |
| 32) L7 AR-1260-2 | 7.439 | 6.214 | 86939932 | 206.2E6 | 798.727 | 795.625 |
| 33) L7 AR-1260-3 | 7.722 | 6.365 | 106.4E6 | 189.6E6 | 791.379 | 796.869 |
| 34) L7 AR-1260-4 | 8.022 | 6.831 | 63663026 | 127.7E6 | 785.149 | 778.825 |
| 35) L7 AR-1260-5 | 8.339 | 7.072 | 133.4E6 | 357.8E6 | 773.805 | 772.772 |
| ----- | | | | | | |

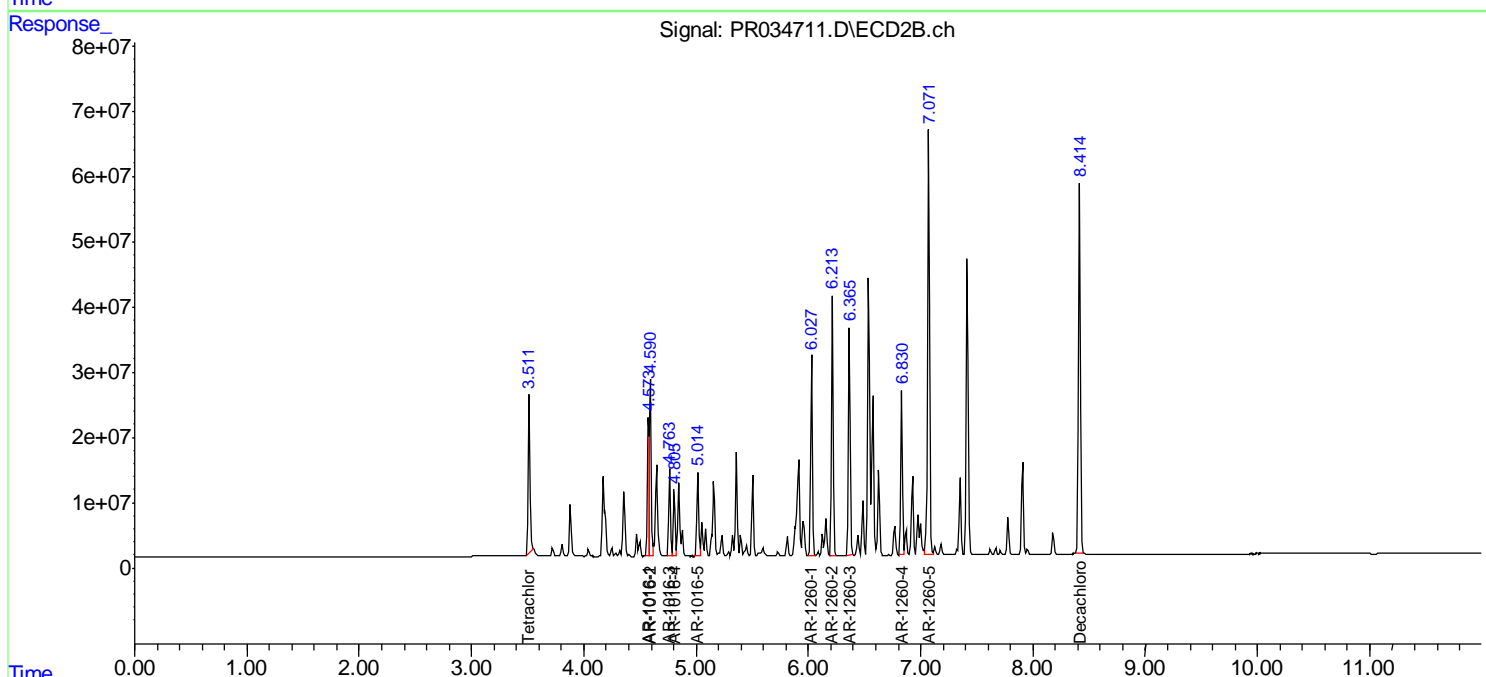
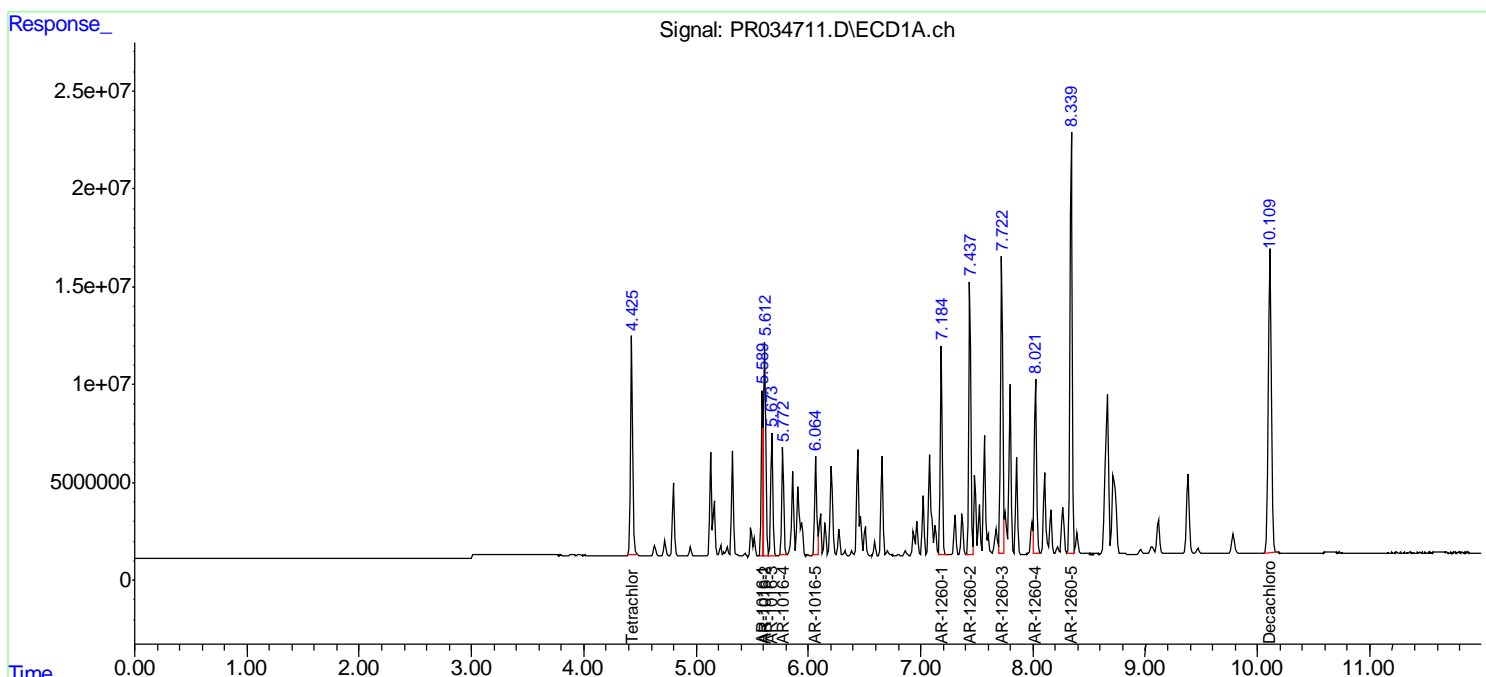
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034711.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660ICC1600
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:38:56 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034711.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660ICCC1600
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:38:56 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.512 | 145.7E6 | 268.1E6 | 80.420 | 81.907 |
| 2) SA Decachlor... | 10.110 | 8.414 | 294.6E6 | 698.5E6 | 157.254 | 162.349 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.574 | 93333310 | 189.9E6 | 1562.666 | 1596.900 |
| 4) L1 AR-1016-2 | 5.612 | 4.591 | 141.1E6 | 295.8E6 | 1578.487 | 1612.316 |
| 5) L1 AR-1016-3 | 5.674 | 4.763 | 81766190 | 143.1E6 | 1553.112 | 1604.855 |
| 6) L1 AR-1016-4 | 5.772 | 4.805 | 67714057 | 108.3E6 | 1578.667 | 1570.600 |
| 7) L1 AR-1016-5 | 6.064 | 5.014 | 66784081 | 148.2E6 | 1554.788 | 1579.974 |
| 31) L7 AR-1260-1 | 7.184 | 6.028 | 133.4E6 | 323.5E6 | 1558.913 | 1604.016 |
| 32) L7 AR-1260-2 | 7.438 | 6.213 | 171.3E6 | 419.7E6 | 1572.951 | 1614.878 |
| 33) L7 AR-1260-3 | 7.722 | 6.365 | 214.3E6 | 388.1E6 | 1585.002 | 1627.952 |
| 34) L7 AR-1260-4 | 8.022 | 6.831 | 129.1E6 | 269.0E6 | 1577.385 | 1618.804 |
| 35) L7 AR-1260-5 | 8.340 | 7.072 | 281.0E6 | 773.8E6 | 1604.263 | 1643.174 |
| ----- | | | | | | |

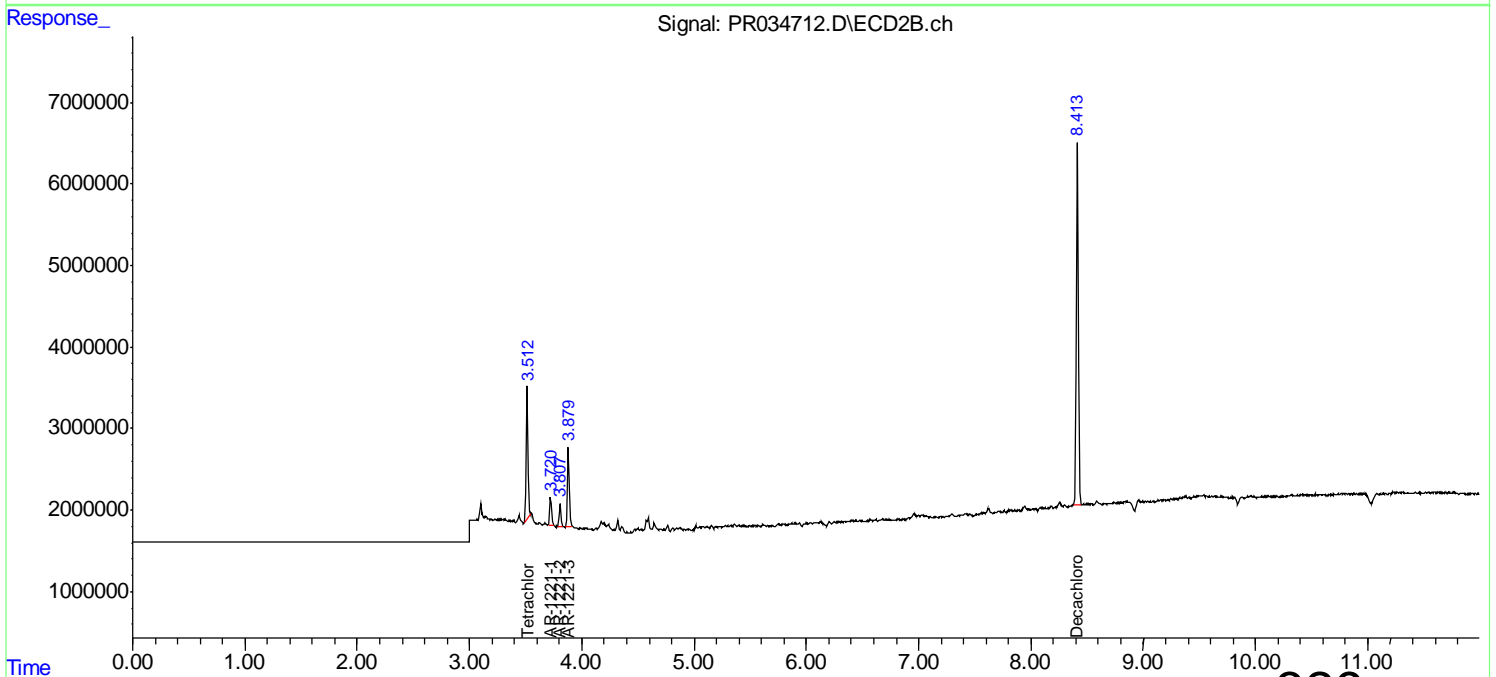
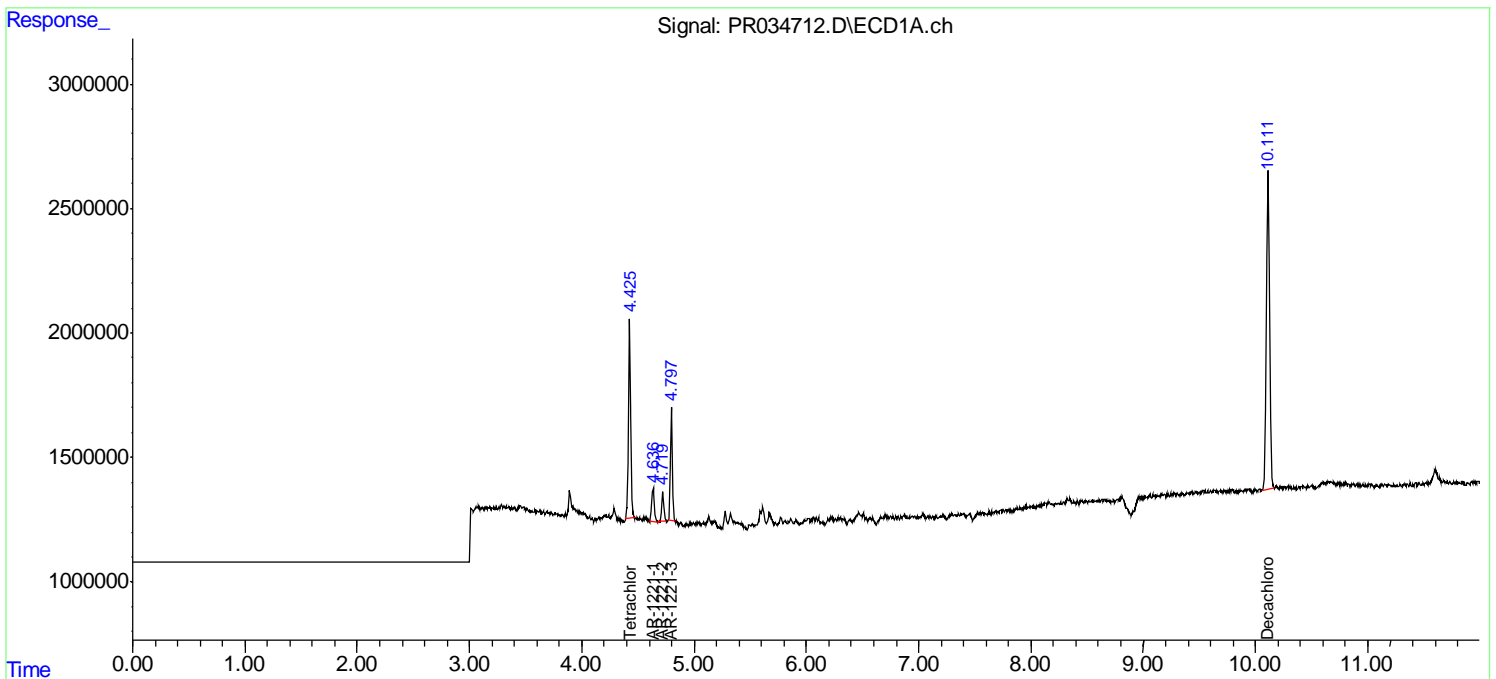
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034712.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 16:23
Operator : SM\SJ
Sample : AR1221ICC100
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR1221101

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:50:47 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:33:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034712.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:23
 Operator : SM\SJ
 Sample : AR1221ICC100
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AR1221101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:50:47 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 10660622 | 17609836 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.111 | 8.414 | 25823530 | 55835928 | 10.000 | 10.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|----------|---------|---------|
| 8) L2 AR-1221-1 | 4.635 | 3.722 | 2201259 | 4224872 | 100.000 | 100.000 |
| 9) L2 AR-1221-2 | 4.720 | 3.806 | 1533078 | 3073584 | 100.000 | 100.000 |
| 10) L2 AR-1221-3 | 4.797 | 3.880 | 5408912 | 11093751 | 100.000 | 100.000 |

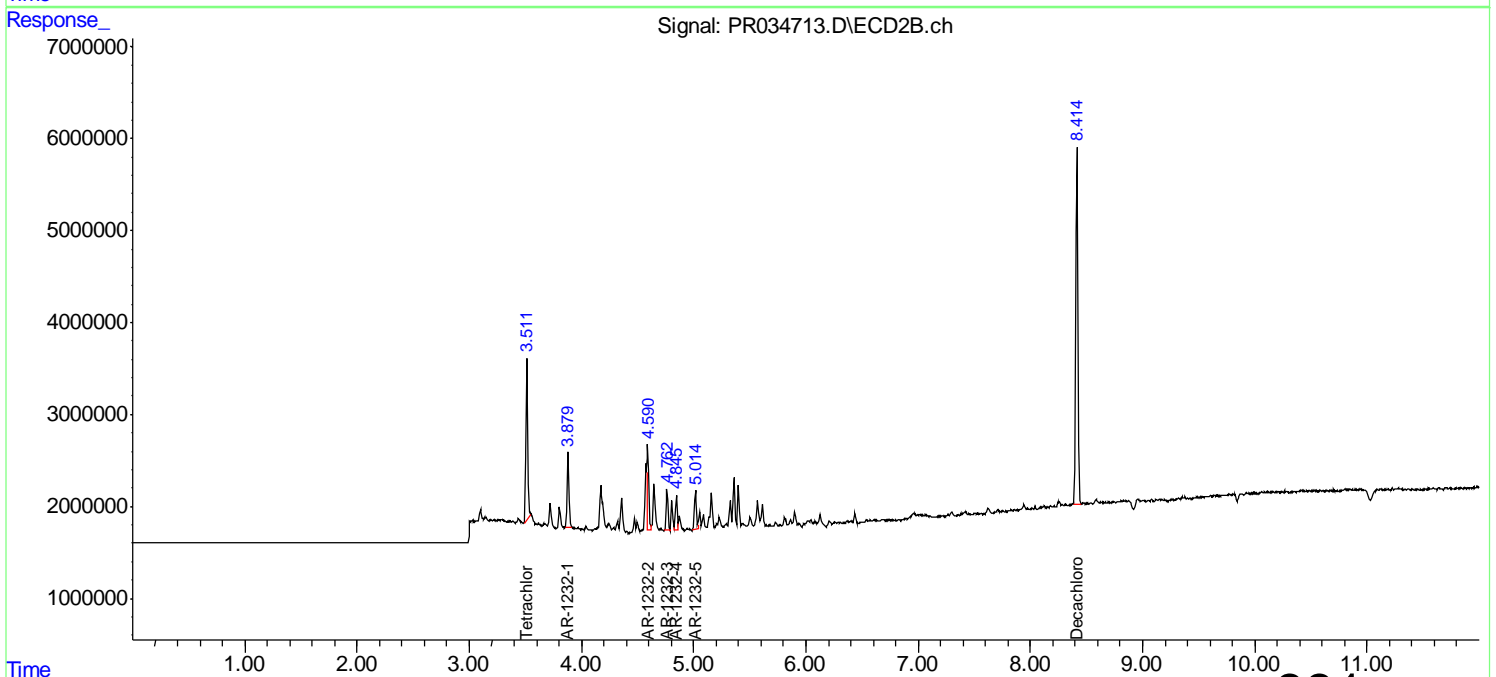
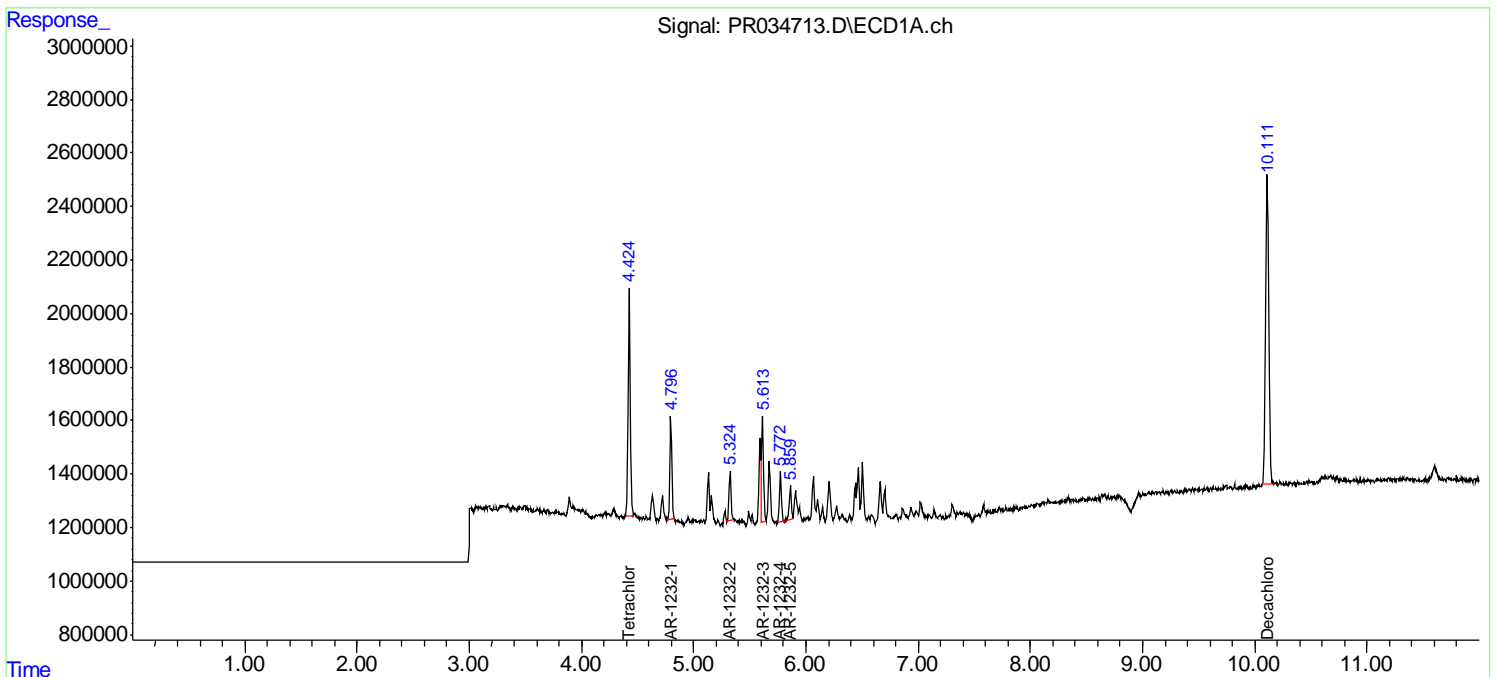
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034713.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:37
 Operator : SM\SJ
 Sample : AR1232ICC100
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1232201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:45:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034713.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:37
 Operator : SM\SJ
 Sample : AR1232ICC100
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1232201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:45:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.512 | 11081067 | 18964552 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.110 | 8.414 | 22915956 | 50165798 | 10.000 | 10.000 |
| Target Compounds | | | | | | |
| 11) L3 AR-1232-1 | 4.797 | 3.879 | 4483522 | 9138526 | 100.000 | 100.000 |
| 12) L3 AR-1232-2 | 5.323 | 4.591 | 2314380 | 10328991 | 100.000 | 100.000 |
| 13) L3 AR-1232-3 | 5.612 | 4.763 | 5131517 | 4830087 | 100.000 | 100.000 |
| 14) L3 AR-1232-4 | 5.773 | 4.845 | 2331372 | 4477834 | 100.000 | 100.000 |
| 15) L3 AR-1232-5 | 5.861 | 5.014 | 1581063 | 4970275 | 100.000 | 100.000 |
| ----- | | | | | | |

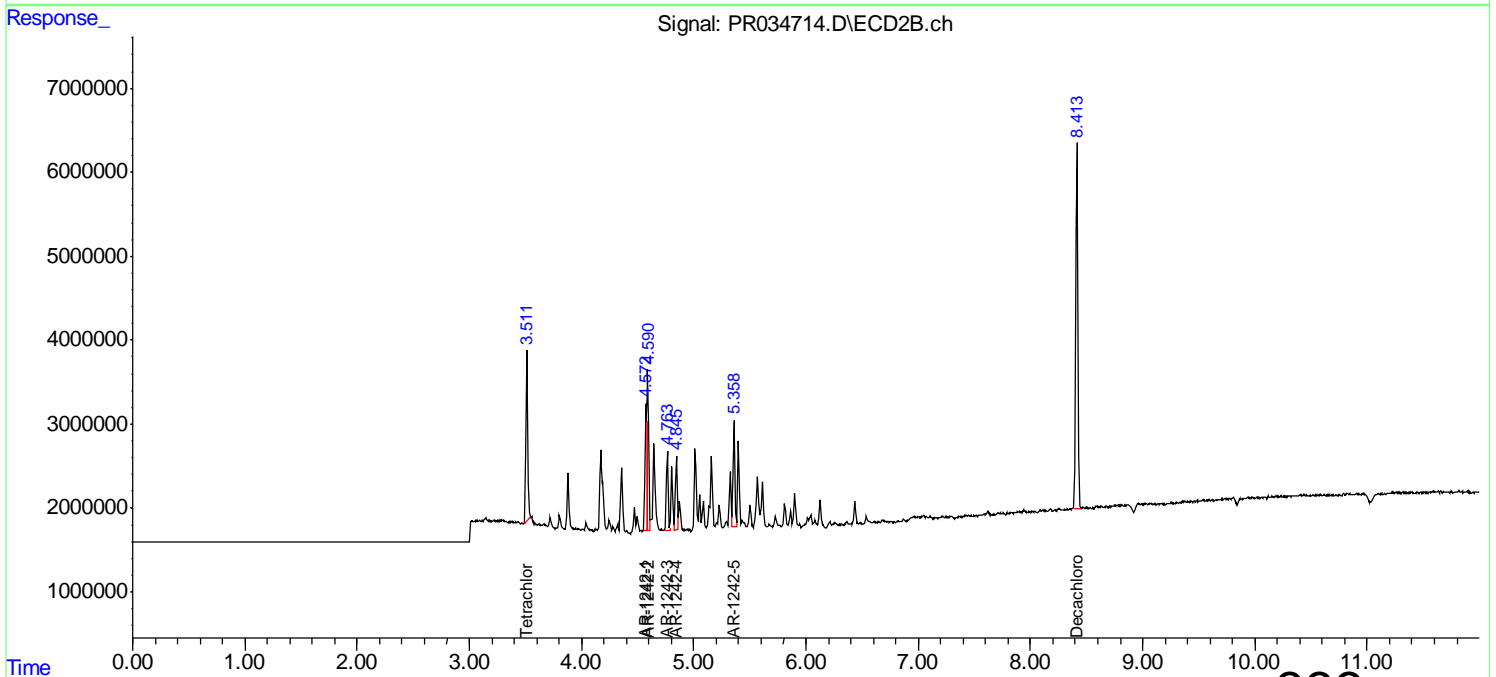
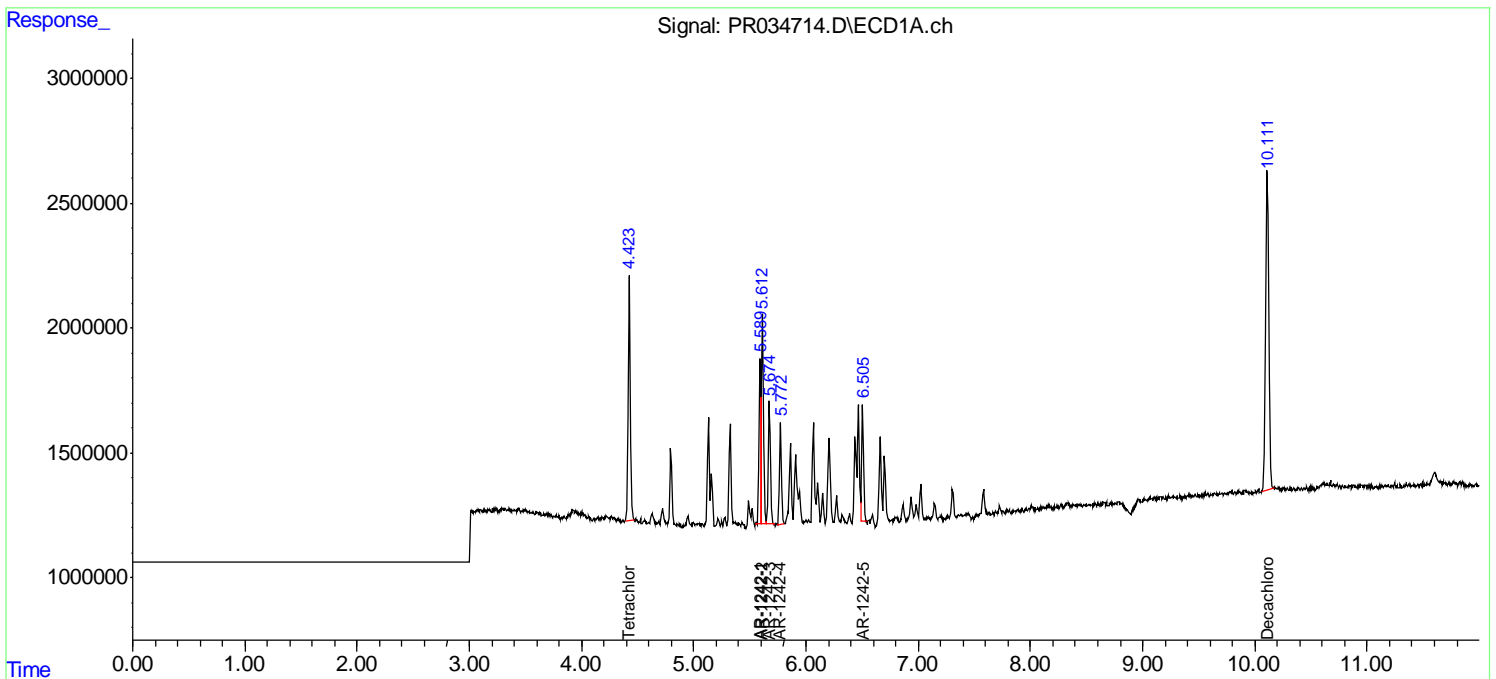
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034714.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:52
 Operator : SM\SJ
 Sample : AR1242ICC100
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:27:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034714.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:52
 Operator : SM\SJ
 Sample : AR1242ICC100
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:27:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 12664279 | 22662152 | 5.977 | 5.832 |
| 2) SA Decachlor... | 10.110 | 8.413 | 25231571 | 55495085 | 11.657 | 11.260 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 7343492 | 14235935 | 126.604 | 125.412 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 10728484 | 20937362 | 126.749 | 122.636 |
| 18) L4 AR-1242-3 | 5.674 | 4.763 | 6340299 | 10352170 | 126.526 | 122.176 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 5045536 | 10562663 | 123.470 | 127.758 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 5660881 | 13826922 | 122.905 | 124.314 |

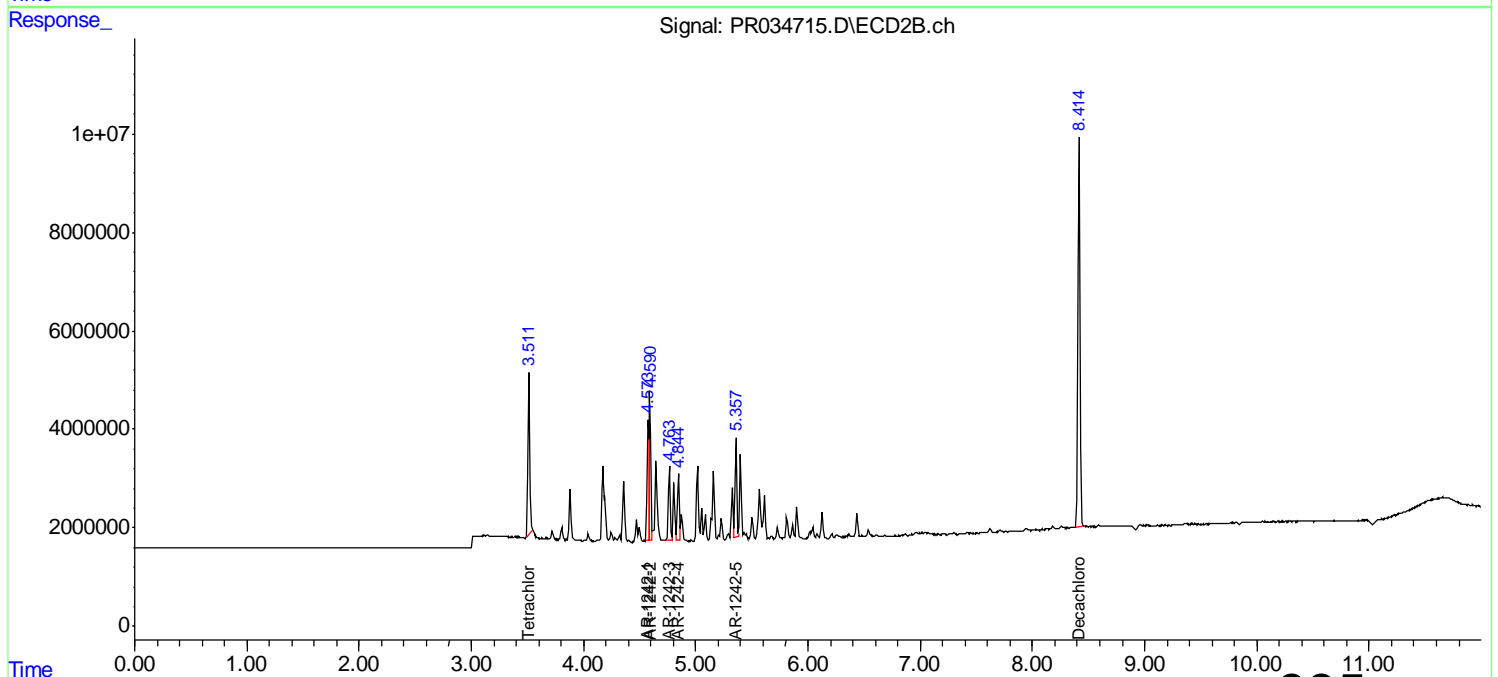
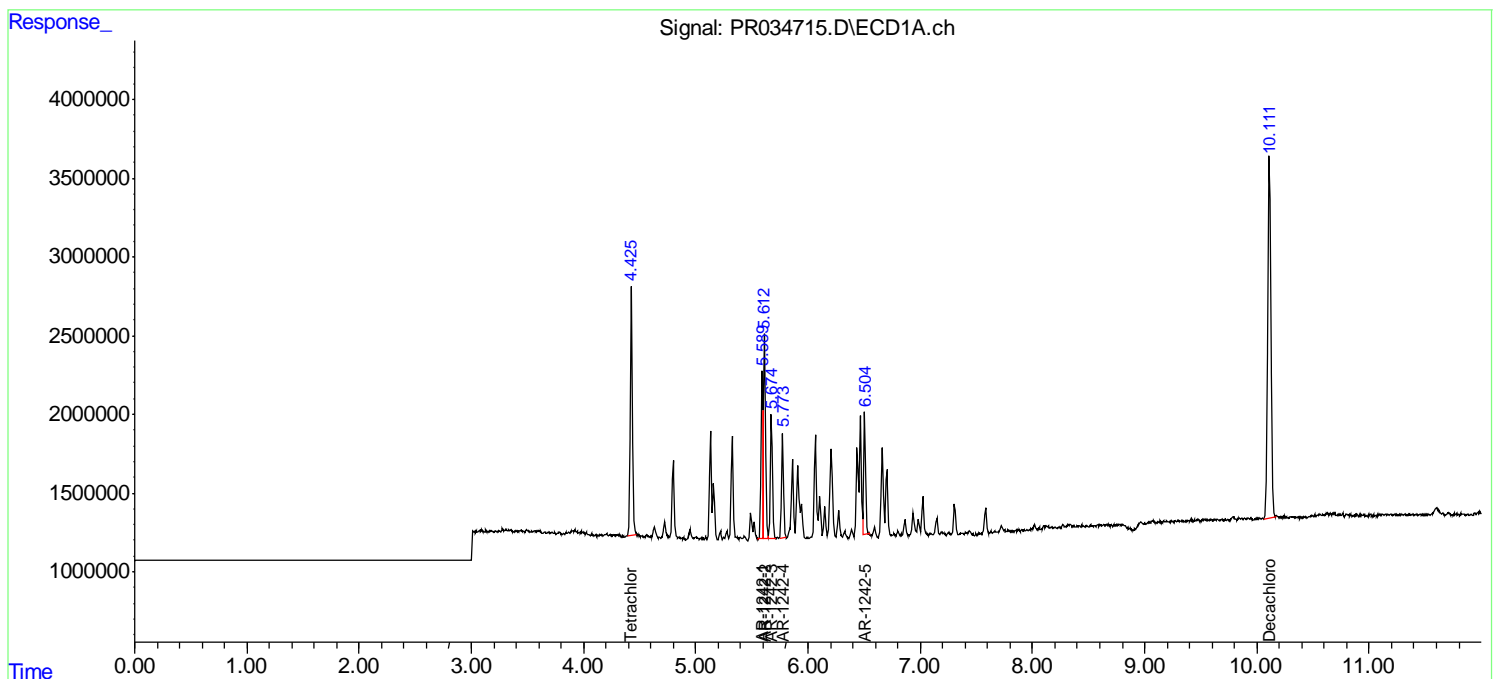
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034715.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:06
 Operator : SM\SJ
 Sample : AR1242ICC200
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:25:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034715.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:06
 Operator : SM\SJ
 Sample : AR1242ICC200
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:25:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.511 | 20674254 | 37194635 | 10.258 | 9.988 |
| 2) SA Decachlor... | 10.111 | 8.415 | 45419405 | 100.7E6 | 21.892 | 21.098 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 11846908 | 22645722 | 218.796 | 213.032 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 16891991 | 33311887 | 213.869 | 206.821 |
| 18) L4 AR-1242-3 | 5.674 | 4.764 | 10151269 | 16822172 | 216.965 | 210.189 |
| 19) L4 AR-1242-4 | 5.773 | 4.845 | 8144757 | 16591814 | 211.736 | 215.647 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 9452224 | 21523837 | 217.686 | 206.040 |

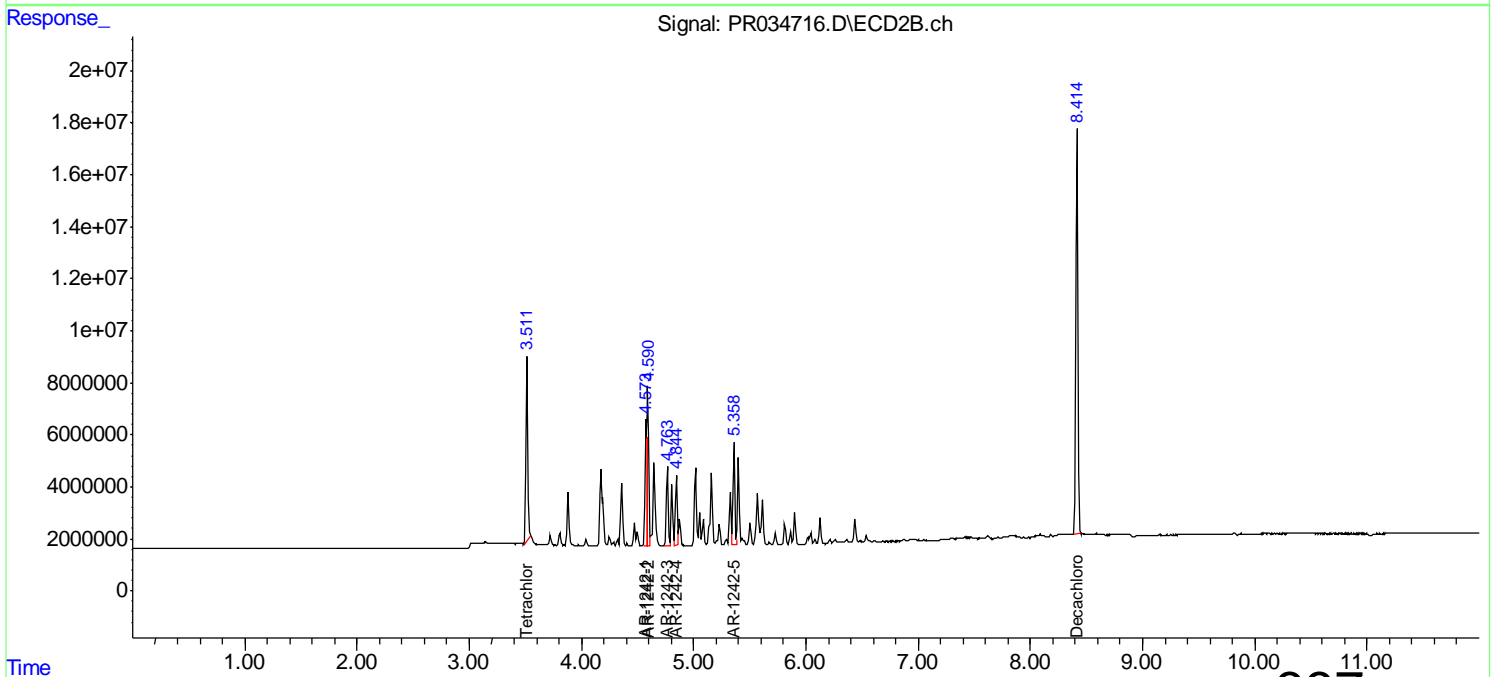
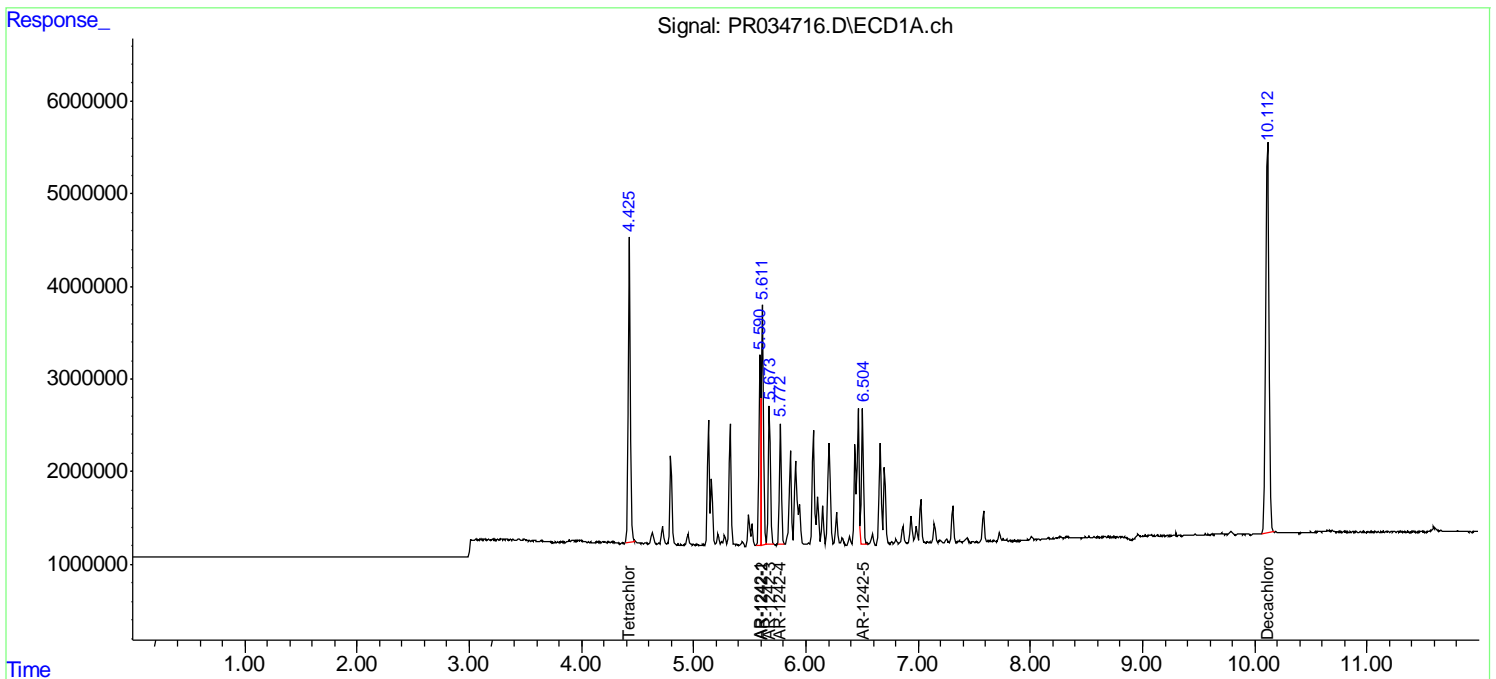
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034716.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:21
 Operator : SM\SJ
 Sample : AR1242ICC400
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:19:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034716.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:21
 Operator : SM\SJ
 Sample : AR1242ICC400
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:19:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 42714962 | 78423145 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.112 | 8.414 | 84689972 | 191.5E6 | 40.000 | 40.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.574 | 22700992 | 44220452 | 400.000 | 400.000 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 33386808 | 67517211 | 400.000 | 400.000 |
| 18) L4 AR-1242-3 | 5.674 | 4.764 | 19792331 | 33364752 | 400.000 | 400.000 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 16286557 | 32248202 | 400.000 | 400.000 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 18156281 | 43533489 | 400.000 | 400.000 |

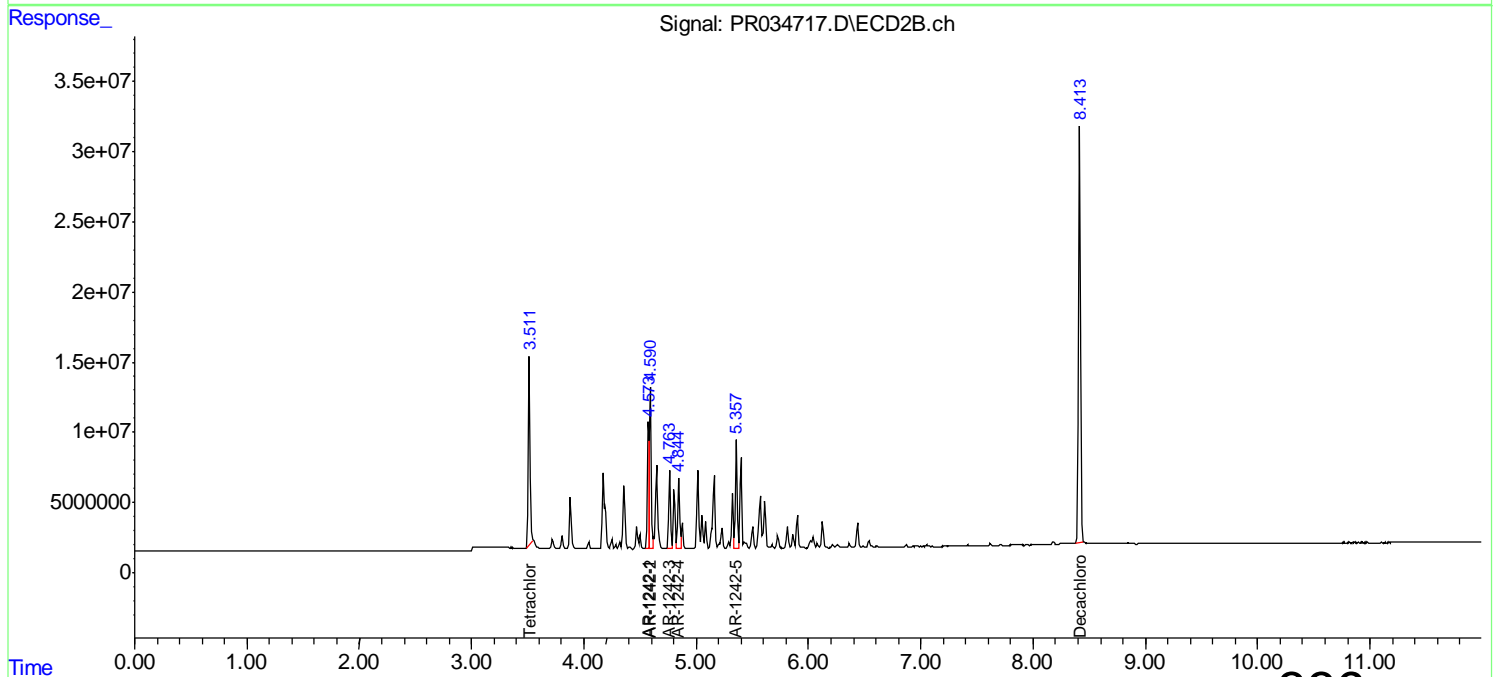
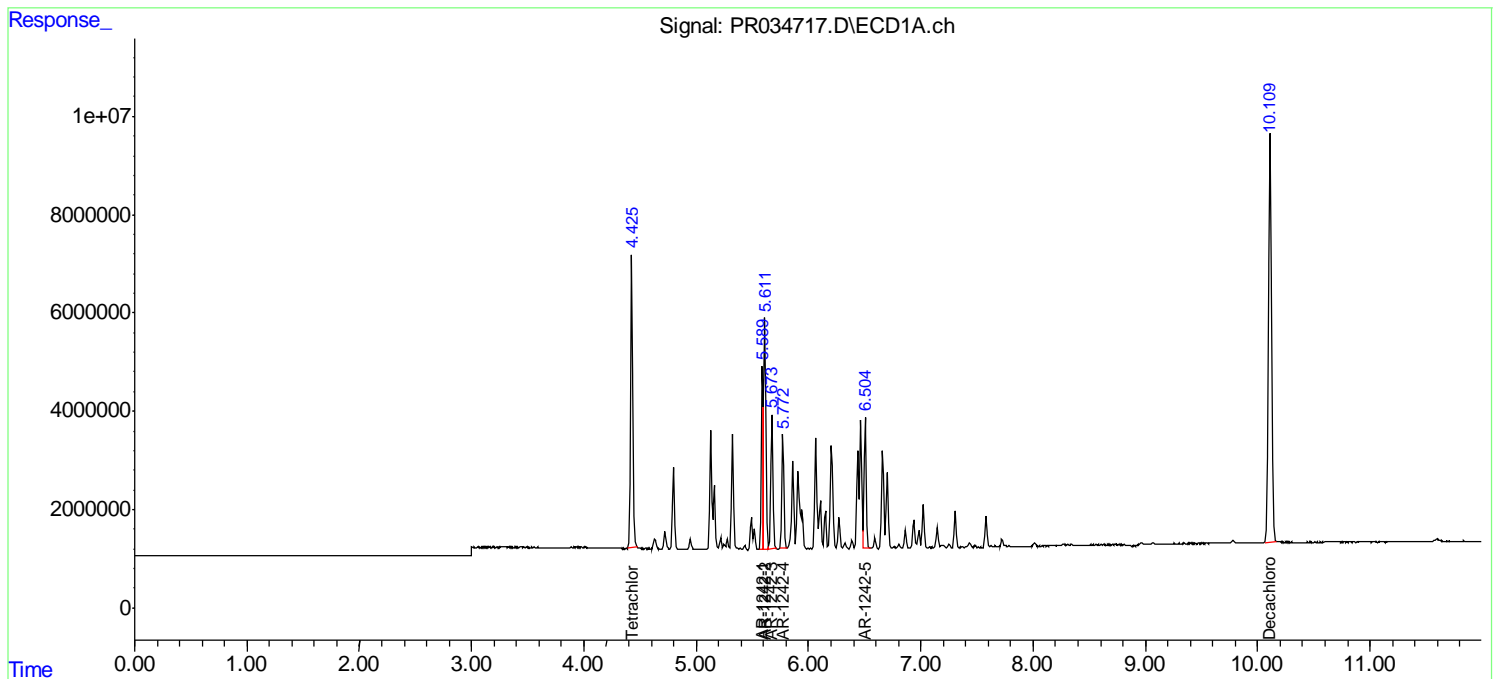
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034717.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:35
 Operator : SM\SJ
 Sample : AR1242ICC800
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:24:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034717.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:35
 Operator : SM\SJ
 Sample : AR1242ICC800
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:24:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|---------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 78087304 | 145.9E6 | 39.081 | 39.155 |
| 2) SA Decachlor... | 10.110 | 8.413 | 159.9E6 | 374.9E6 | 79.570 | 80.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 41289669 | 82019474 | 787.225 | 788.701 |
| 17) L4 AR-1242-2 | 5.611 | 4.590 | 60743105 | 125.8E6 | 787.265 | 789.788 |
| 18) L4 AR-1242-3 | 5.674 | 4.763 | 35924006 | 62363916 | 790.150 | 792.681 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 29808960 | 59356362 | 790.390 | 792.121 |
| 20) L4 AR-1242-5 | 6.504 | 5.357 | 33490538 | 82492651 | 794.715 | 797.702 |

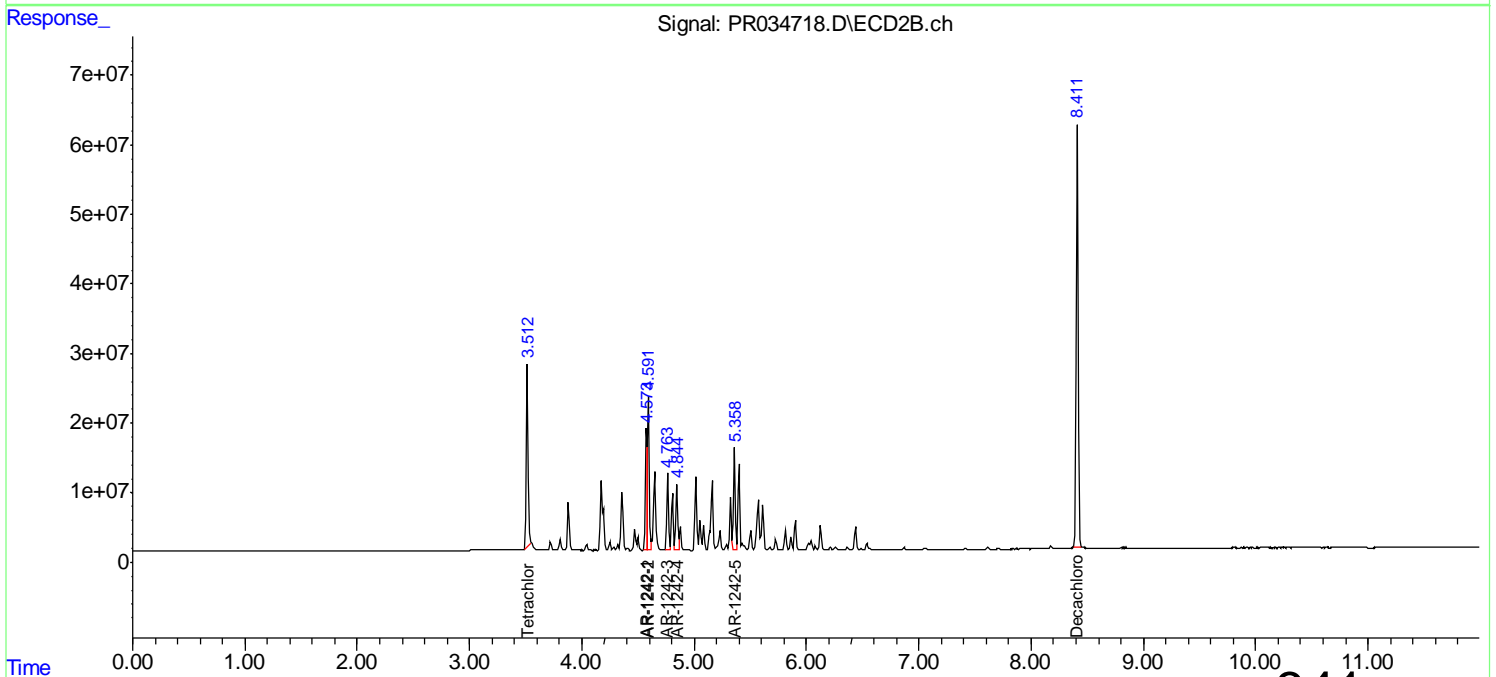
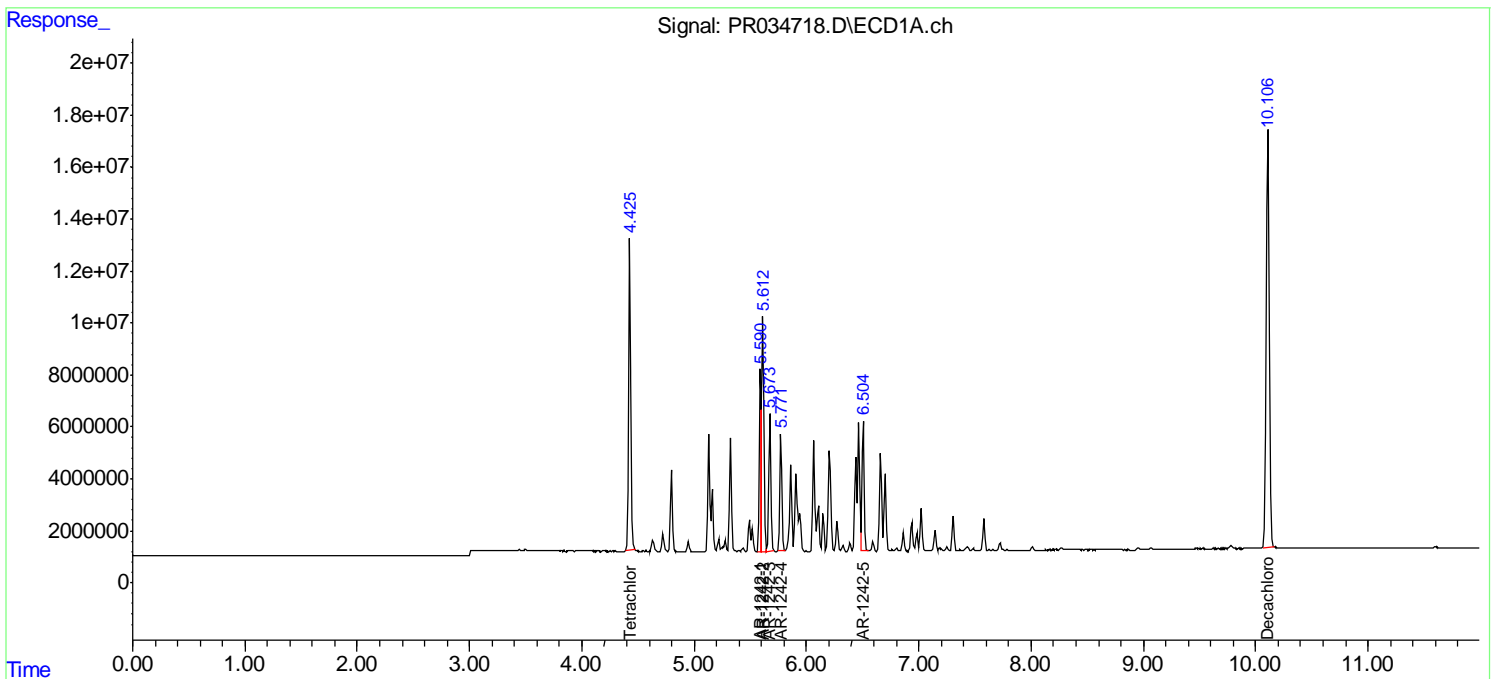
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034718.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:50
 Operator : SM\SJ
 Sample : AR1242ICC1600
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:22:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034718.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:50
 Operator : SM\SJ
 Sample : AR1242IC1600
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:22:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 152.5E6 | 288.7E6 | 75.458 | 76.679 |
| 2) SA Decachlor... | 10.107 | 8.411 | 305.9E6 | 733.6E6 | 151.856 | 156.565 |
| Target Compounds | | | | | | |
| 16) L4 AR-1242-1 | 5.590 | 4.574 | 78375003 | 158.2E6 | 1482.454 | 1511.030 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 115.3E6 | 242.7E6 | 1482.822 | 1514.724 |
| 18) L4 AR-1242-3 | 5.673 | 4.763 | 67213626 | 119.5E6 | 1469.321 | 1511.383 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 56264135 | 112.0E6 | 1482.948 | 1487.004 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 62673269 | 157.3E6 | 1482.312 | 1518.544 |
| ----- | | | | | | |

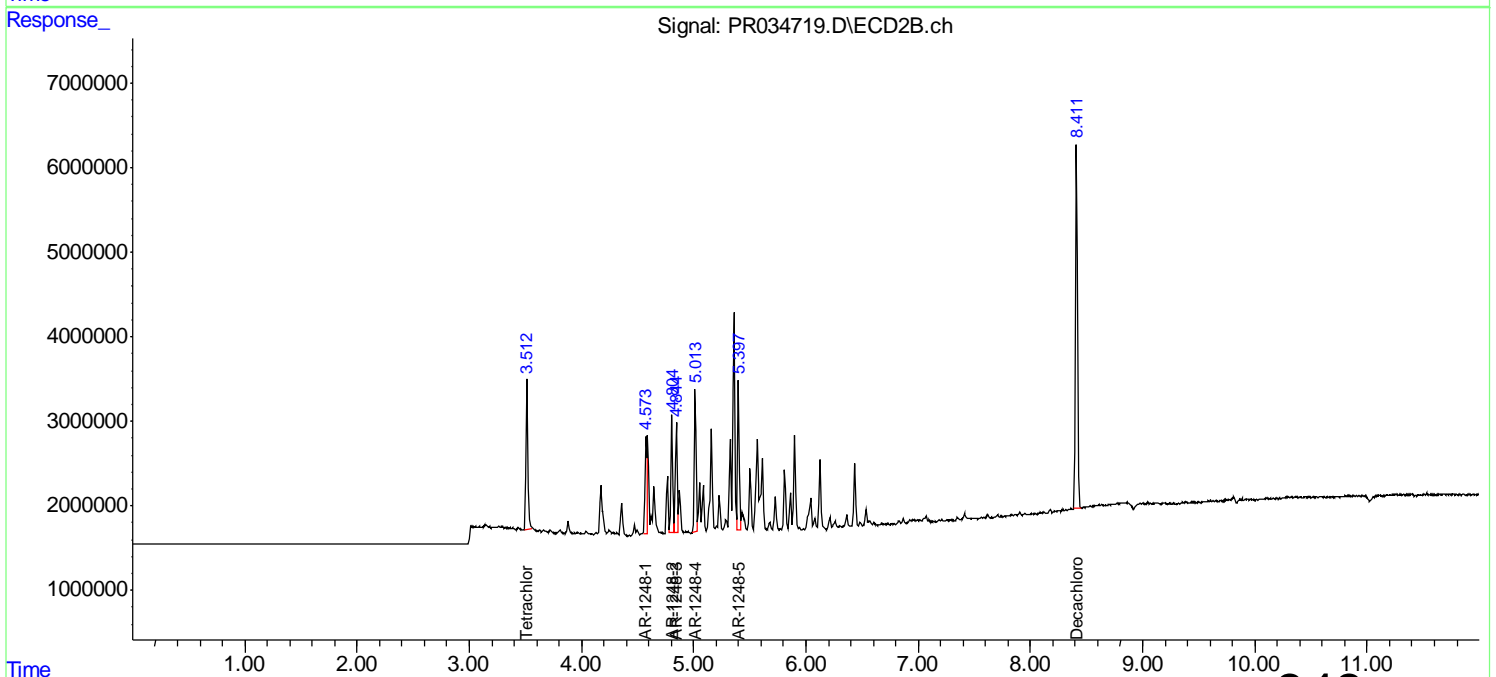
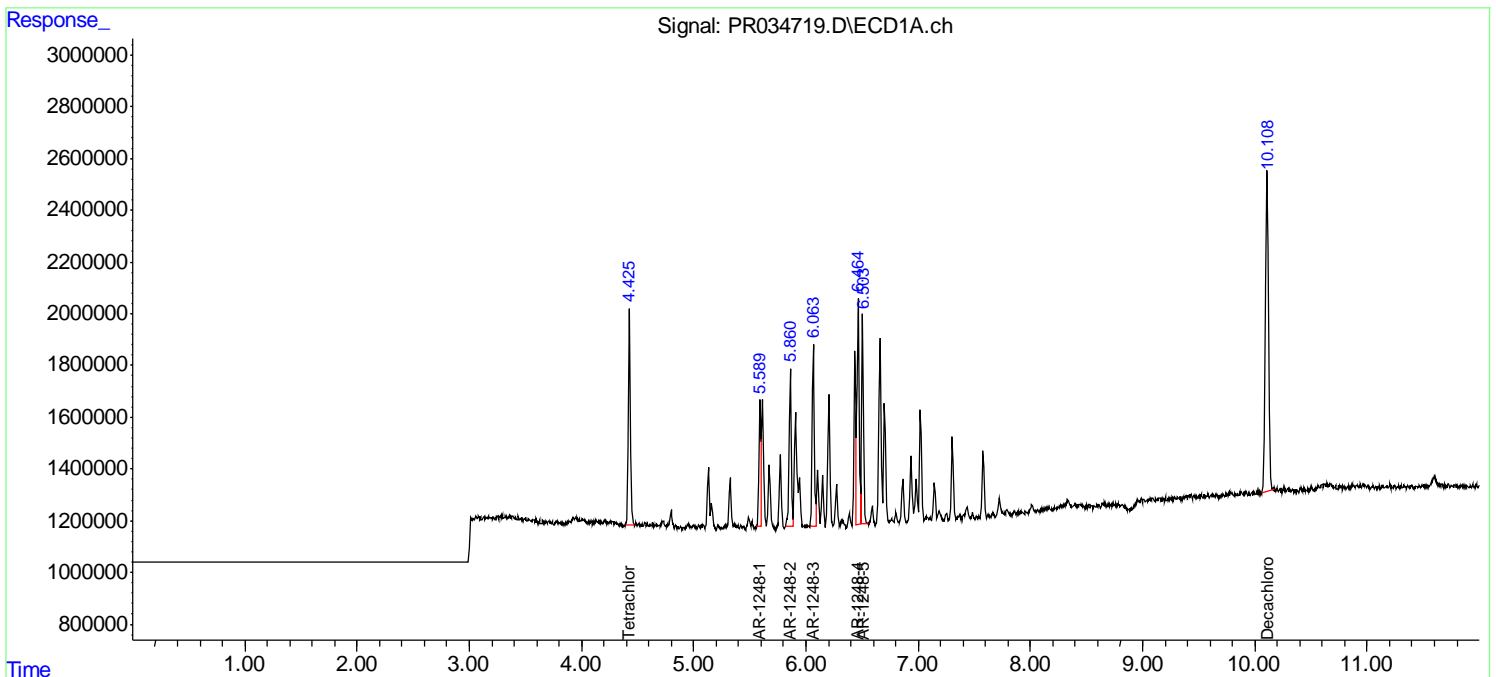
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034719.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:04
 Operator : SM\SJ
 Sample : AR1248ICC100
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:14:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034719.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:04
 Operator : SM\SJ
 Sample : AR1248ICC100
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:14:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 10596509 | 20558008 | 5.494 | 5.416 |
| 2) SA Decachlor... | 10.108 | 8.411 | 24260173 | 53497263 | 11.773 | 11.353 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 5644615 | 11395924 | 116.330 | 116.879 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 7855188 | 15037956 | 118.886 | 117.390 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 8662803 | 15483188 | 115.945 | 117.317 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 10758858 | 19225969 | 120.418 | 116.854 |
| 25) L5 AR-1248-5 | 6.503 | 5.397 | 9998215 | 19197784 | 119.498 | 114.712 |

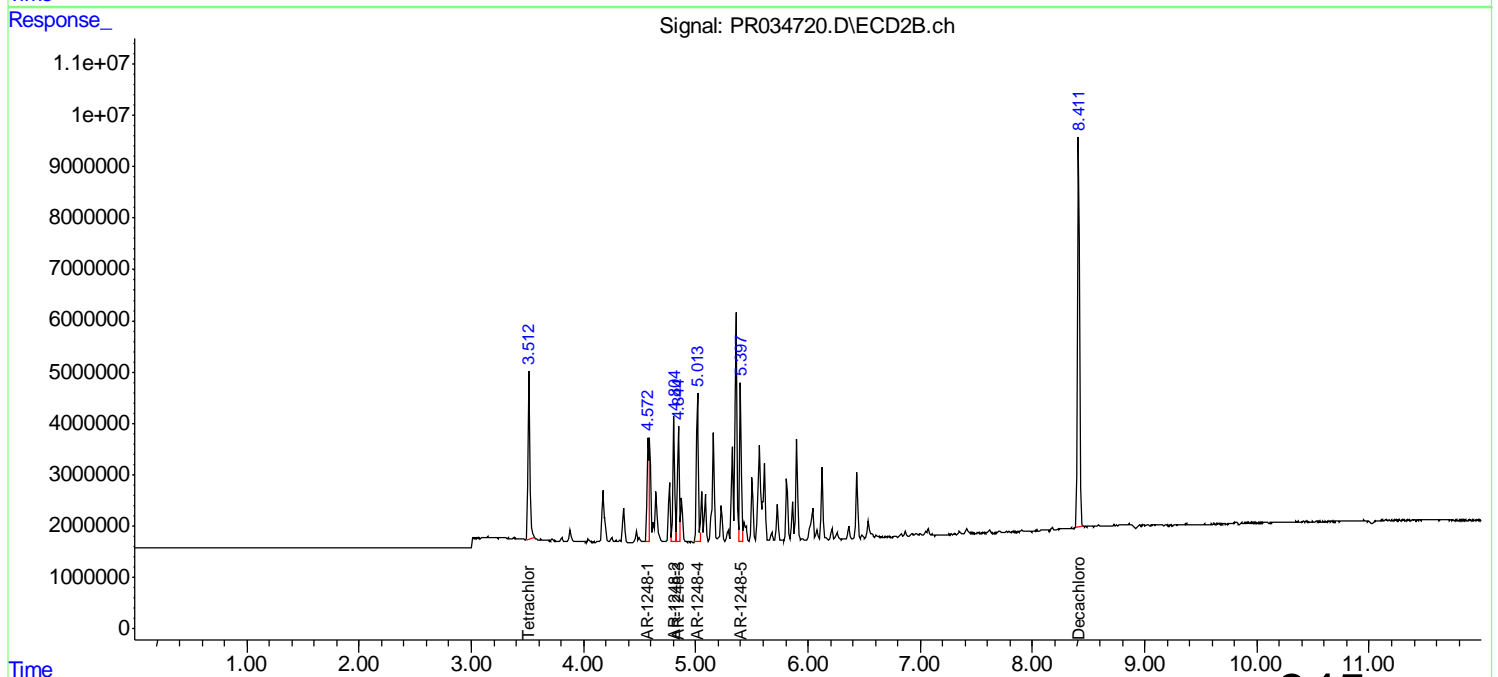
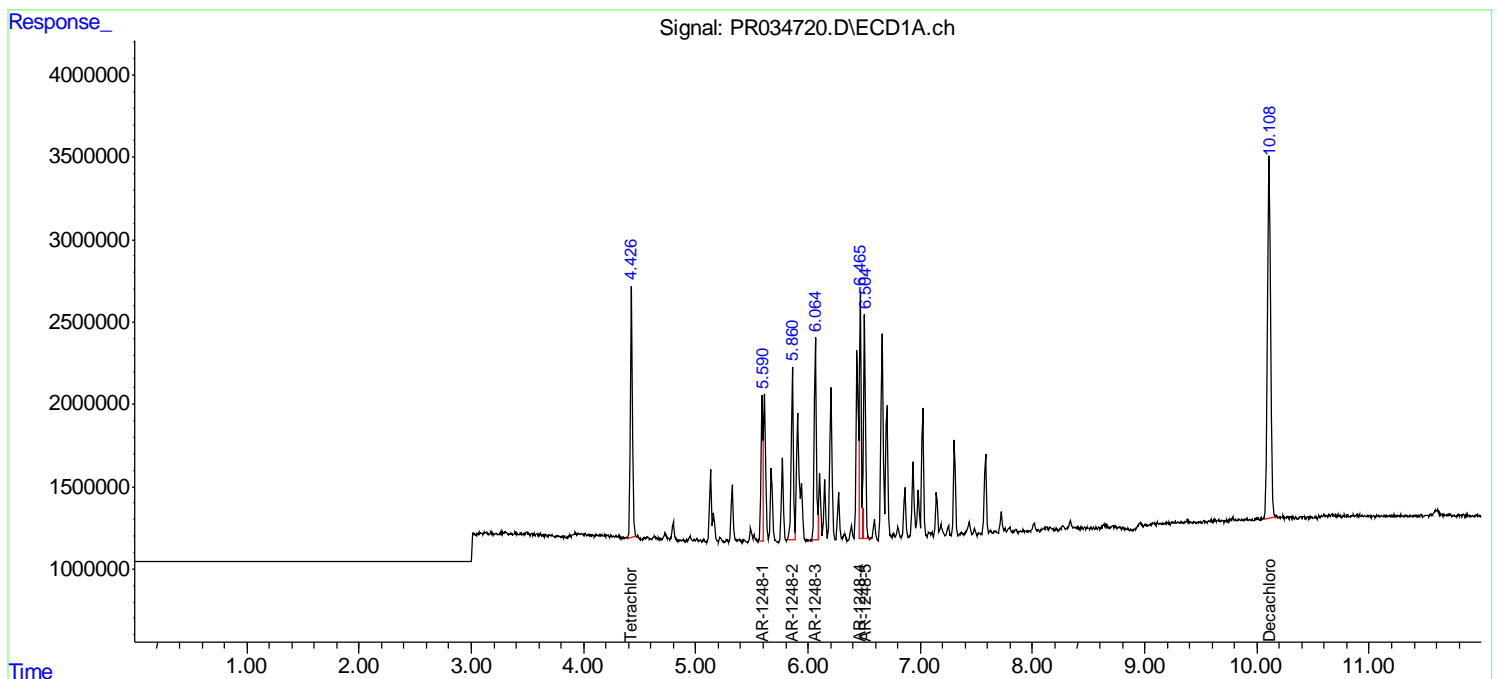
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034720.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:19
 Operator : SM\SJ
 Sample : AR1248ICC200
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:12:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034720.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:19
 Operator : SM\SJ
 Sample : AR1248ICC200
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:12:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 19311458 | 37756266 | 10.265 | 10.158 |
| 2) SA Decachlor... | 10.108 | 8.411 | 43120556 | 95868504 | 21.895 | 21.058 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 10133677 | 19891589 | 217.733 | 213.001 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 13756929 | 26257104 | 218.524 | 214.286 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 15539016 | 27015510 | 216.612 | 213.961 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 18532275 | 33310678 | 218.579 | 211.365 |
| 25) L5 AR-1248-5 | 6.503 | 5.398 | 17145706 | 33799587 | 215.426 | 209.675 |
| ----- | | | | | | |

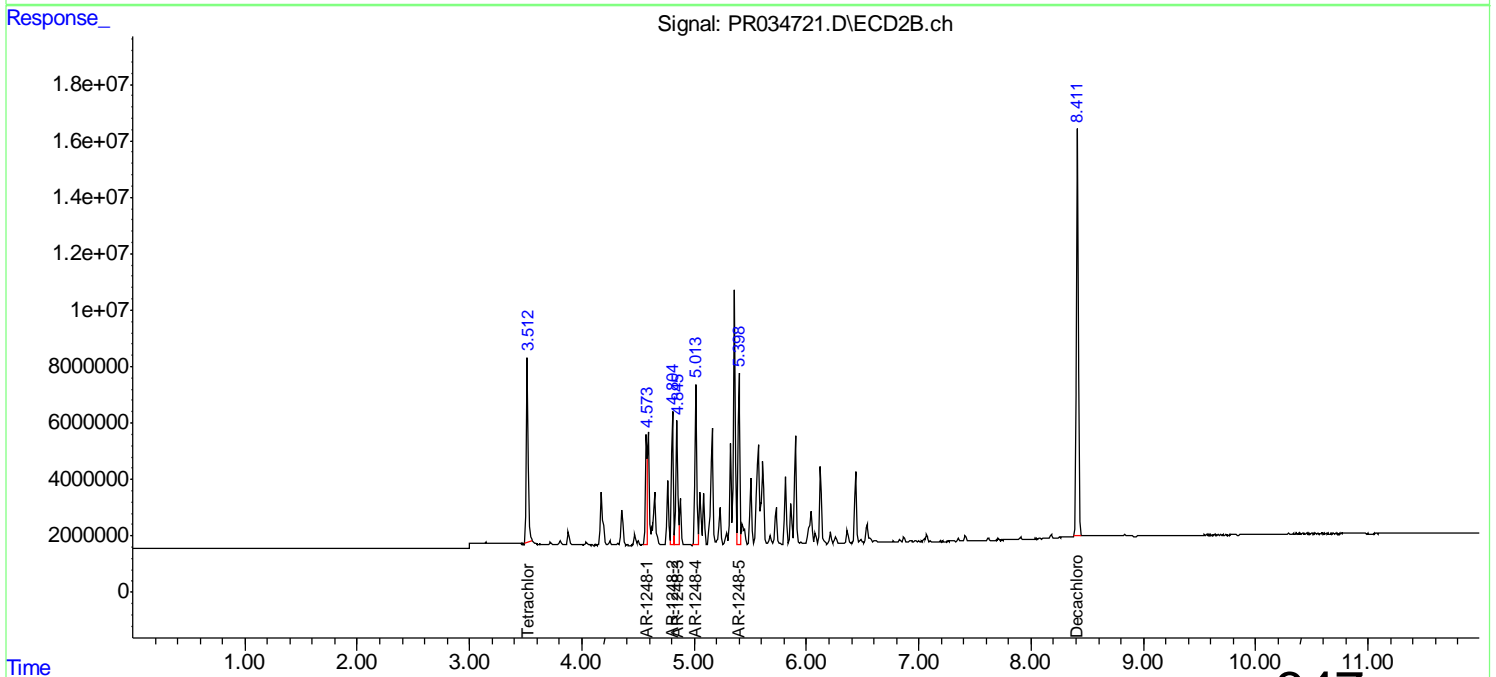
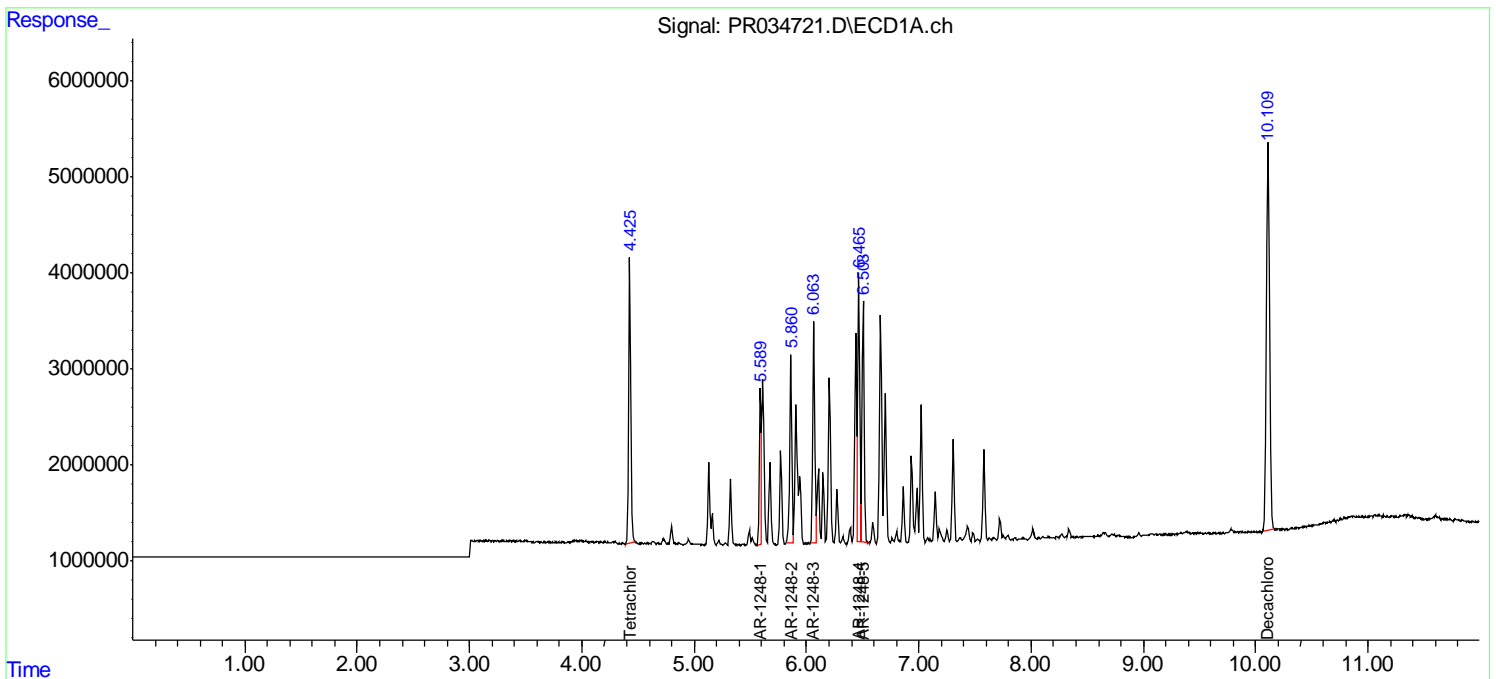
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034721.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:33
 Operator : SM\SJ
 Sample : AR1248ICC400
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:07:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034721.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:33
 Operator : SM\SJ
 Sample : AR1248ICC400
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:07:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.513 | 37883389 | 74840055 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.109 | 8.412 | 79948328 | 182.6E6 | 40.000 | 40.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.574 | 19157578 | 38224589 | 400.000 | 400.000 |
| 22) L5 AR-1248-2 | 5.861 | 4.805 | 25866591 | 50143822 | 400.000 | 400.000 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 29369639 | 51644058 | 400.000 | 400.000 |
| 24) L5 AR-1248-4 | 6.466 | 5.014 | 34666634 | 64194126 | 400.000 | 400.000 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 32656350 | 65507192 | 400.000 | 400.000 |

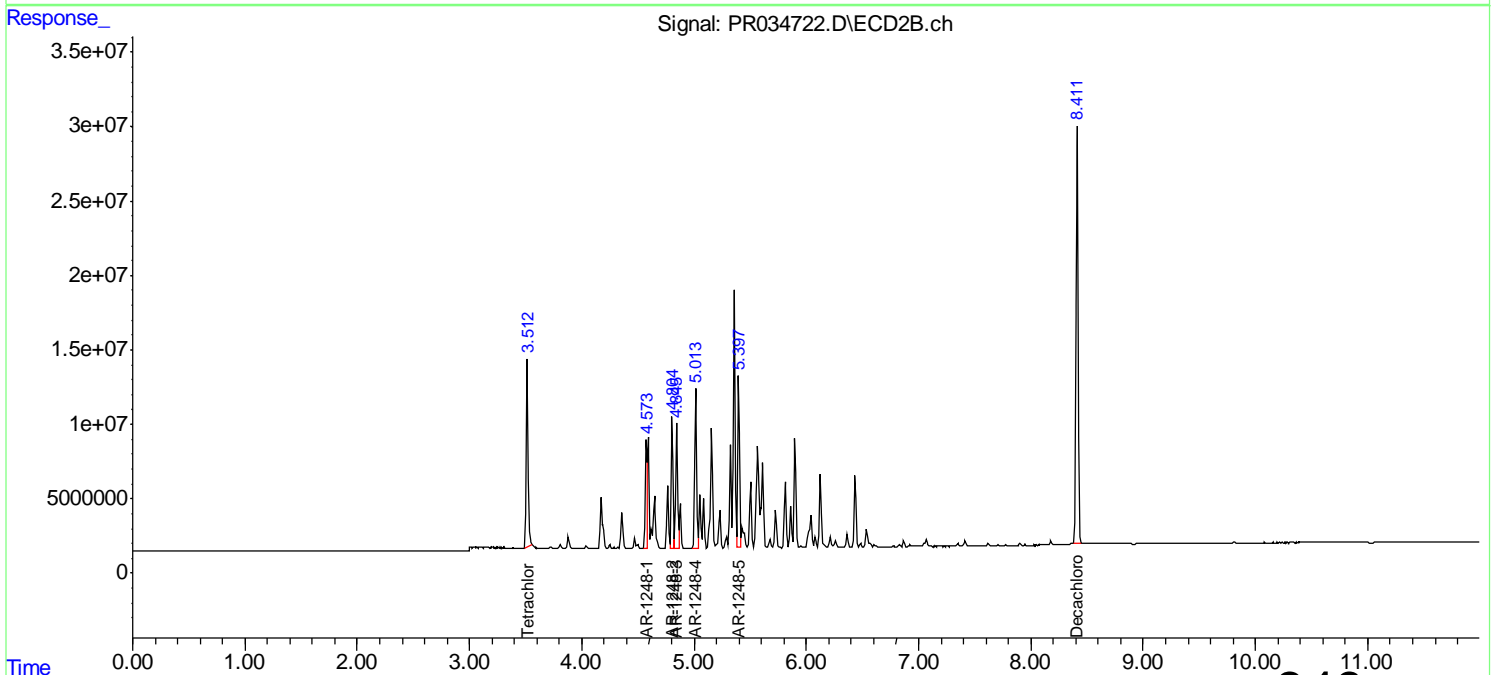
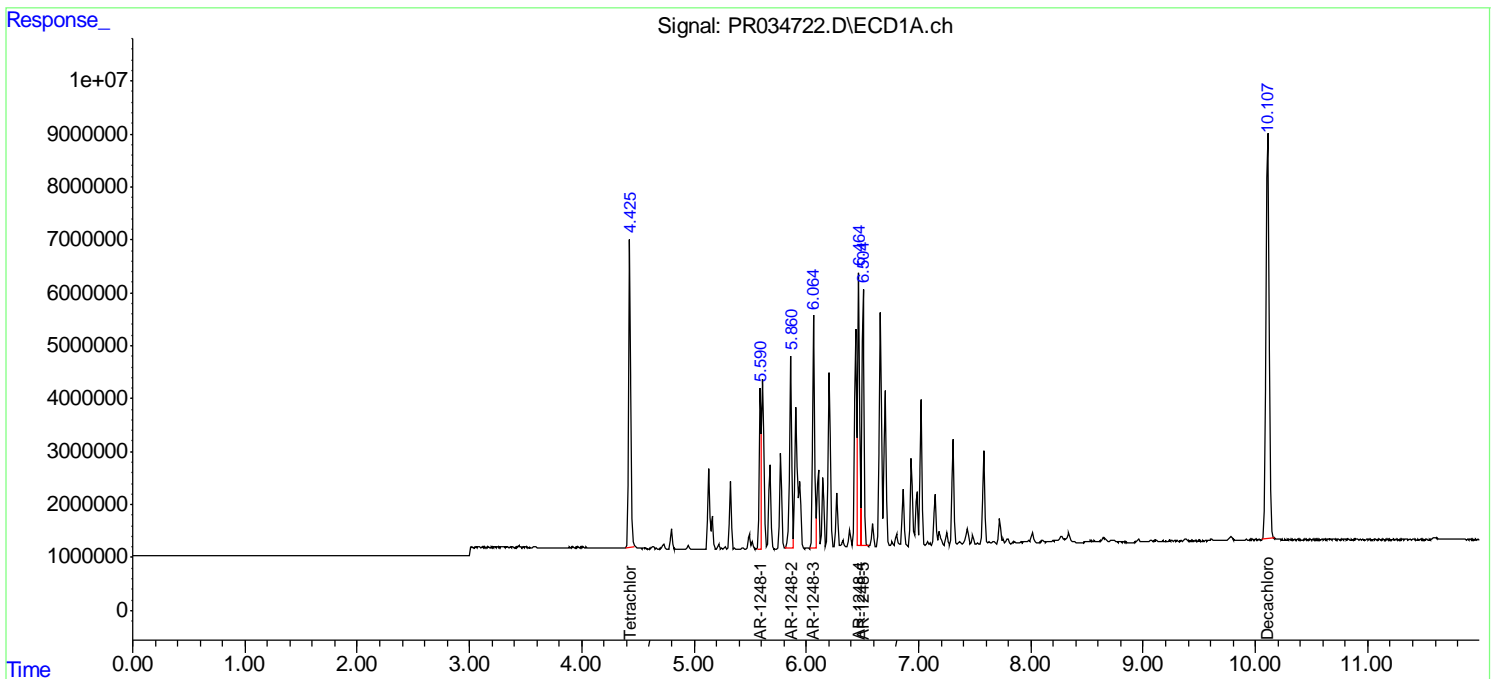
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034722.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:48
 Operator : SM\SJ
 Sample : AR1248ICC800
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:10:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034722.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:48
 Operator : SM\SJ
 Sample : AR1248ICC800
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:10:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 73168560 | 144.5E6 | 39.241 | 39.073 |
| 2) SA Decachlor... | 10.107 | 8.411 | 150.2E6 | 353.4E6 | 78.738 | 79.008 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.574 | 35430871 | 71878621 | 784.455 | 786.730 |
| 22) L5 AR-1248-2 | 5.861 | 4.805 | 48064469 | 94073990 | 787.809 | 786.469 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 54977024 | 97033054 | 788.196 | 786.804 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 64894647 | 121.8E6 | 789.858 | 787.716 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 61299364 | 125.1E6 | 790.516 | 788.760 |
| ----- | | | | | | |

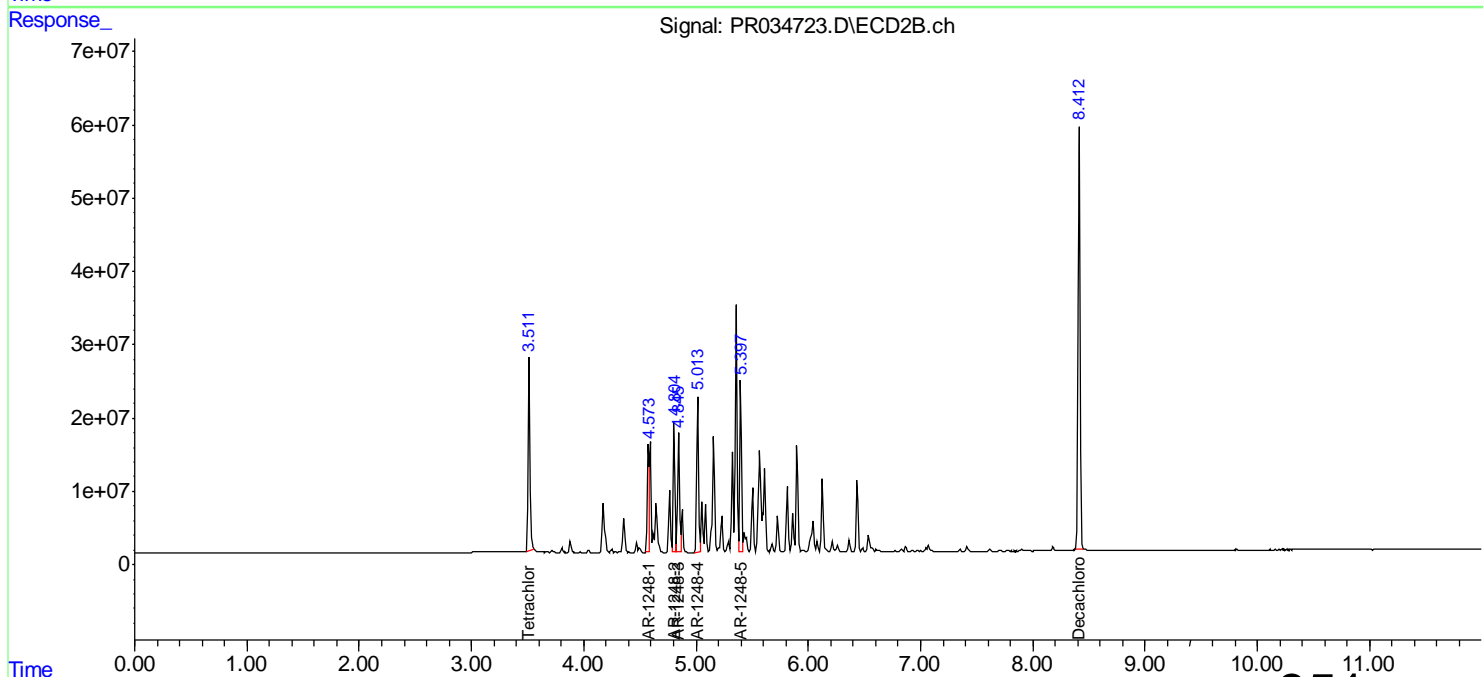
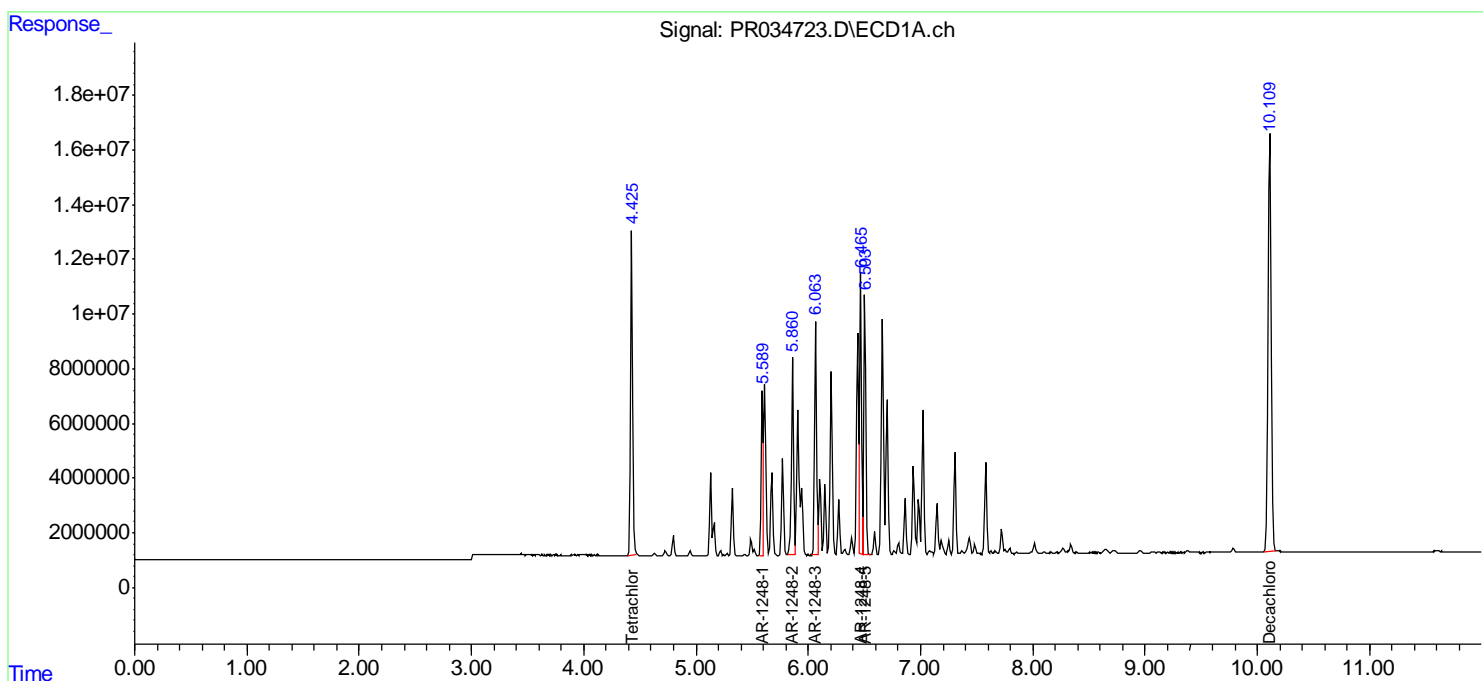
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034723.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:02
 Operator : SM\SJ
 Sample : AR1248ICC1600
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:08:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034723.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:02
 Operator : SM\SJ
 Sample : AR1248ICC1600
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:08:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|---------|---------|---------|---------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 149.6E6 | 299.1E6 | 79.495 | 79.960 |
| 2) SA Decachlor... | 10.109 | 8.412 | 295.3E6 | 709.6E6 | 153.636 | 157.690 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|---------|----------|----------|
| 21) L5 AR-1248-1 | 5.589 | 4.573 | 69305721 | 141.9E6 | 1519.695 | 1540.253 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 93254286 | 185.4E6 | 1516.941 | 1537.231 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 107.4E6 | 191.3E6 | 1528.067 | 1538.653 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 125.9E6 | 241.8E6 | 1522.867 | 1551.882 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 119.0E6 | 249.1E6 | 1525.383 | 1559.399 |

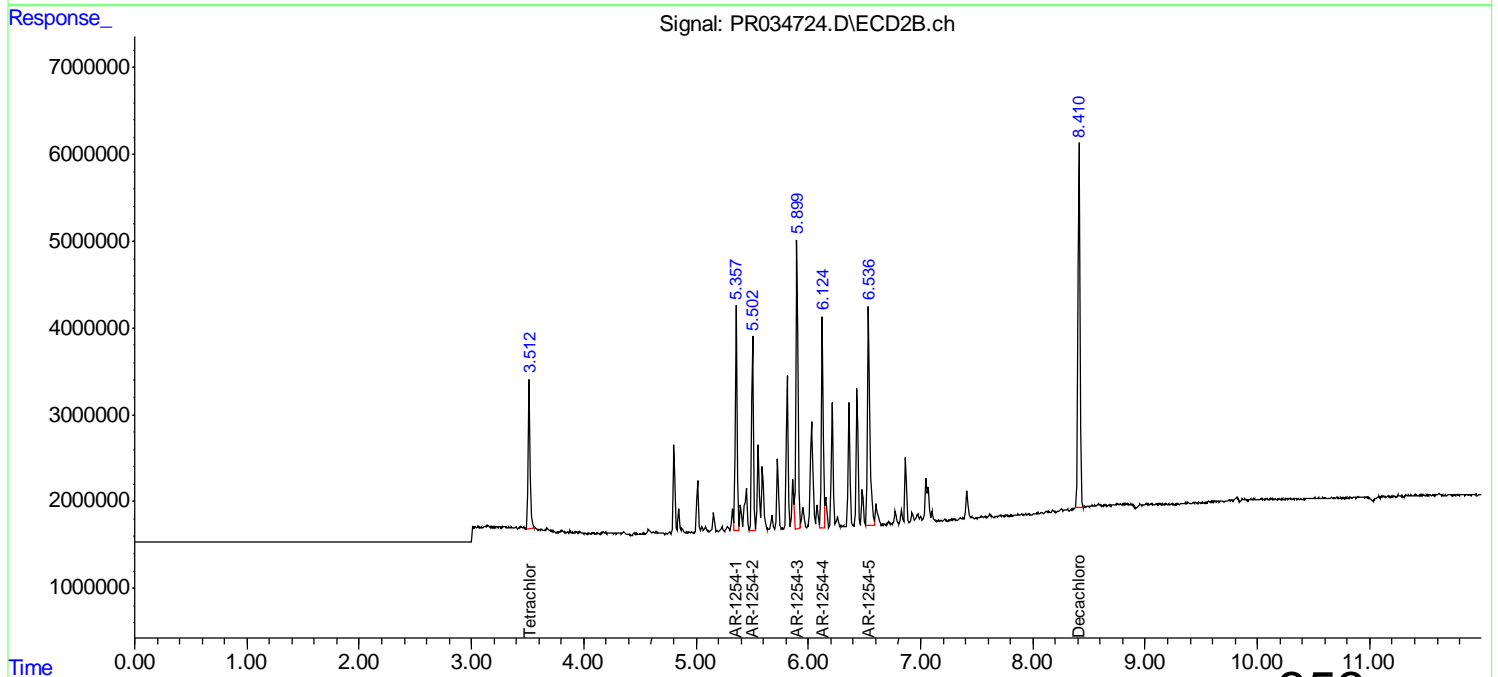
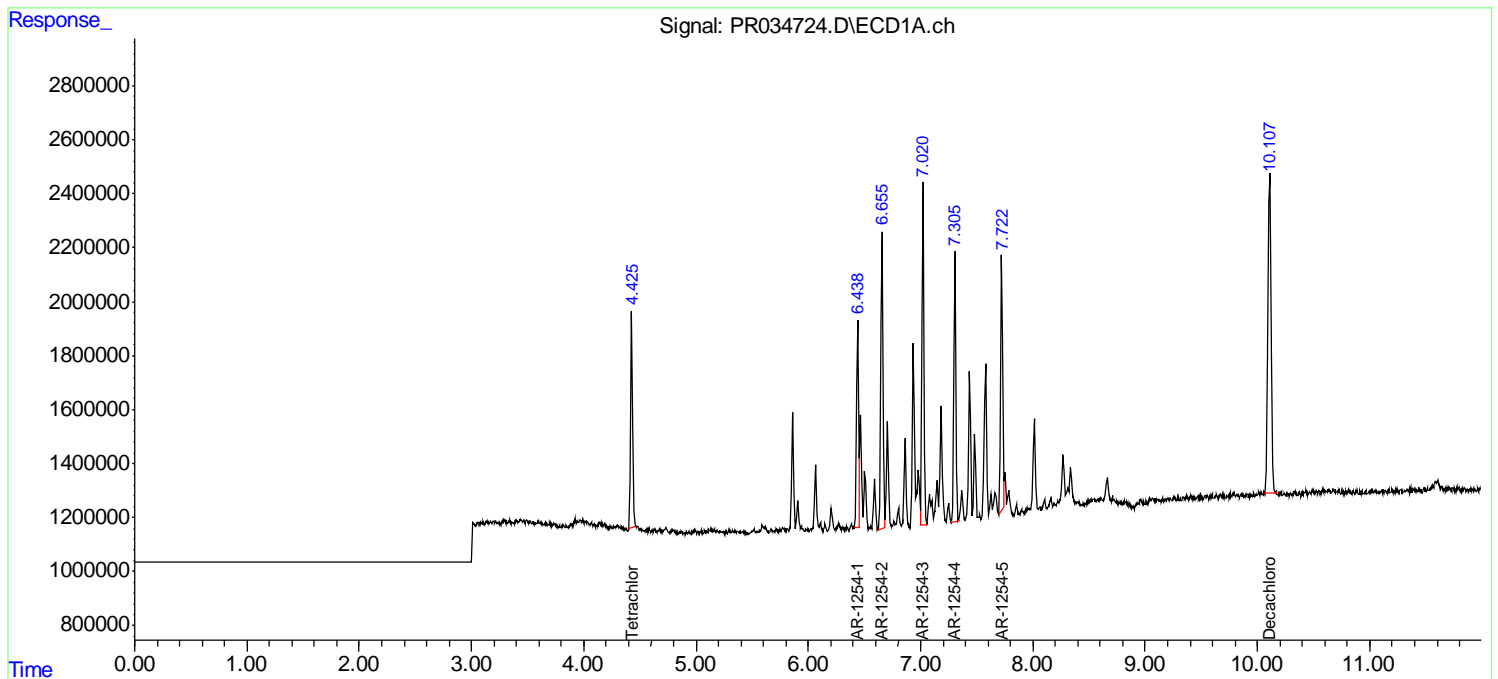
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034724.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 19:16
Operator : SM\SJ
Sample : AR1254ICC100
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1254101

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:01:58 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 00:54:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034724.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:16
 Operator : SM\SJ
 Sample : AR1254ICC100
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:01:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.512 | 9917849 | 20124920 | 5.214 | 5.296 |
| 2) SA Decachlor... | 10.108 | 8.410 | 23774976 | 53197664 | 11.680 | 11.314 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.438 | 5.357 | 9594718 | 28148025 | 117.431 | 115.034 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 15097550 | 24673536 | 118.156 | 116.007 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 15713416 | 40291379 | 116.420 | 112.760 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 12474953 | 27181959 | 117.602 | 115.085 |
| 30) L6 AR-1254-5 | 7.722 | 6.536 | 12077306 | 36150322 | 112.721 | 113.345 |
| ----- | | | | | | |

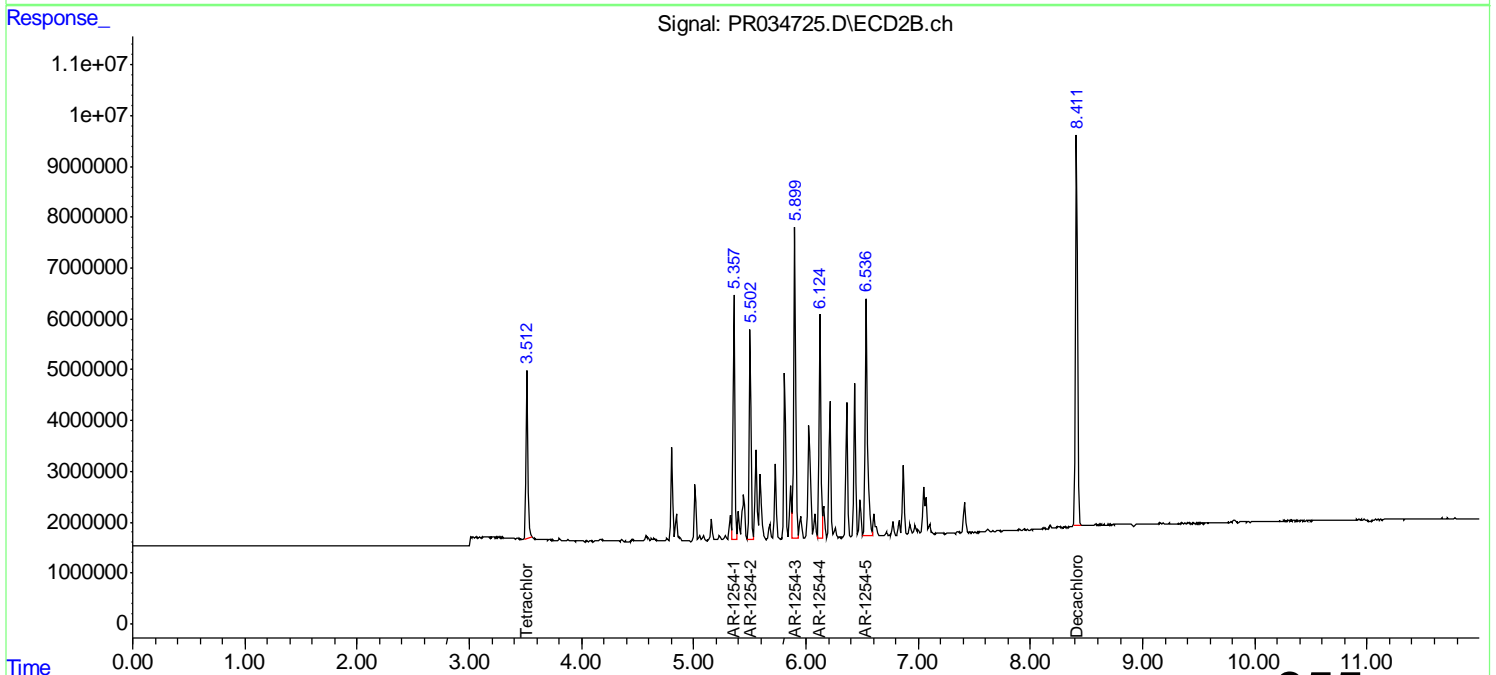
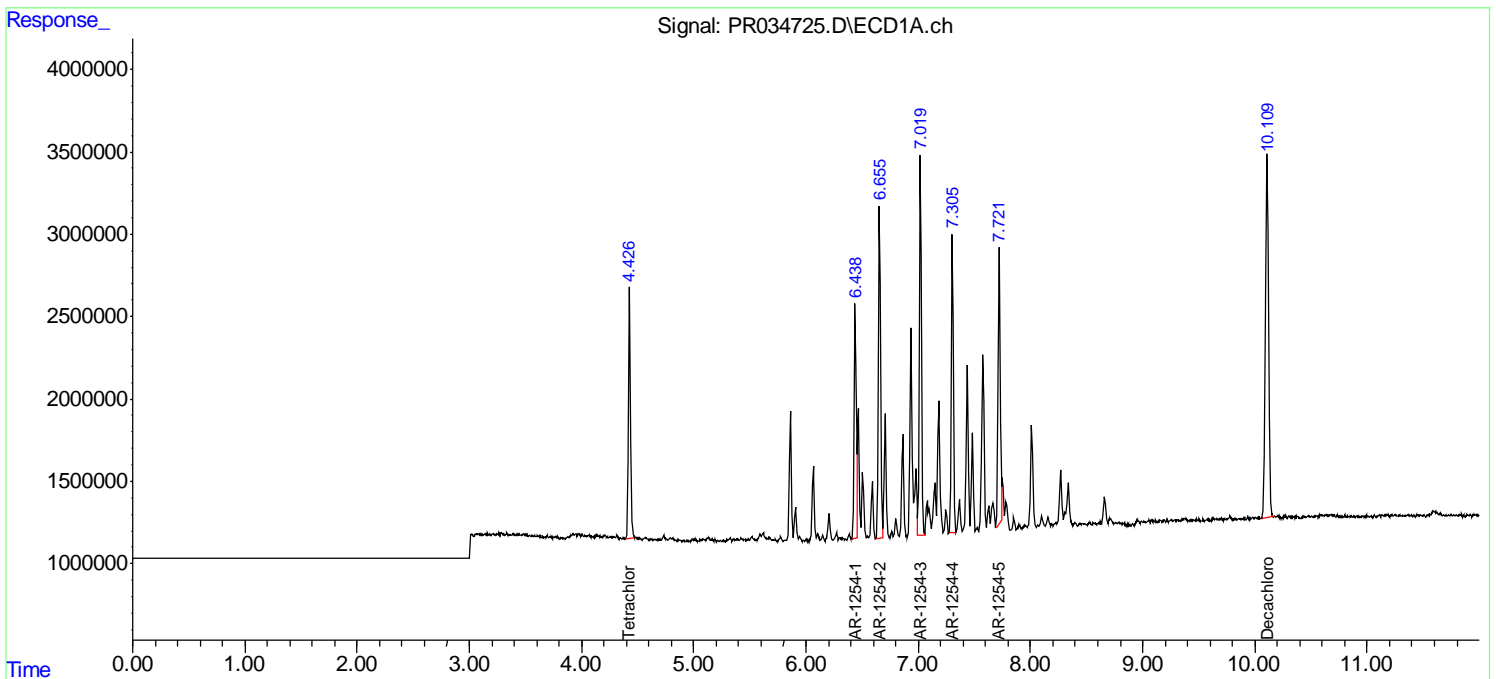
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034725.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:31
 Operator : SM\SJ
 Sample : AR1254ICC200
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:00:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034725.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:31
 Operator : SM\SJ
 Sample : AR1254ICC200
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:00:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 19299483 | 38193886 | 10.255 | 10.201 |
| 2) SA Decachlor... | 10.109 | 8.411 | 43361128 | 97755901 | 22.236 | 21.497 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 26) L6 AR-1254-1 | 6.438 | 5.358 | 17586853 | 51686350 | 225.056 | 219.478 |
| 27) L6 AR-1254-2 | 6.655 | 5.503 | 27347956 | 44974477 | 224.206 | 220.271 |
| 28) L6 AR-1254-3 | 7.020 | 5.900 | 28691835 | 74827474 | 221.676 | 216.315 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 22682673 | 49638863 | 223.673 | 218.401 |
| 30) L6 AR-1254-5 | 7.721 | 6.536 | 22298376 | 67175070 | 214.953 | 217.888 |

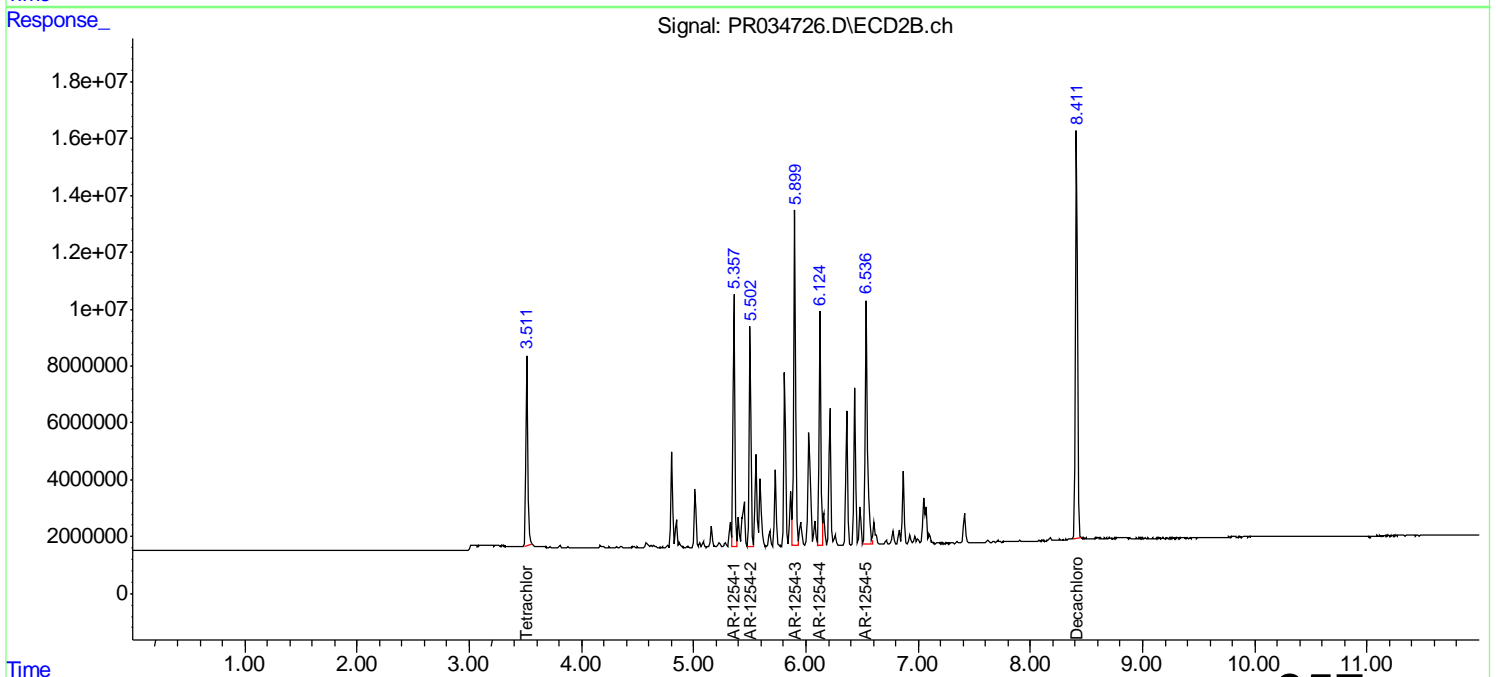
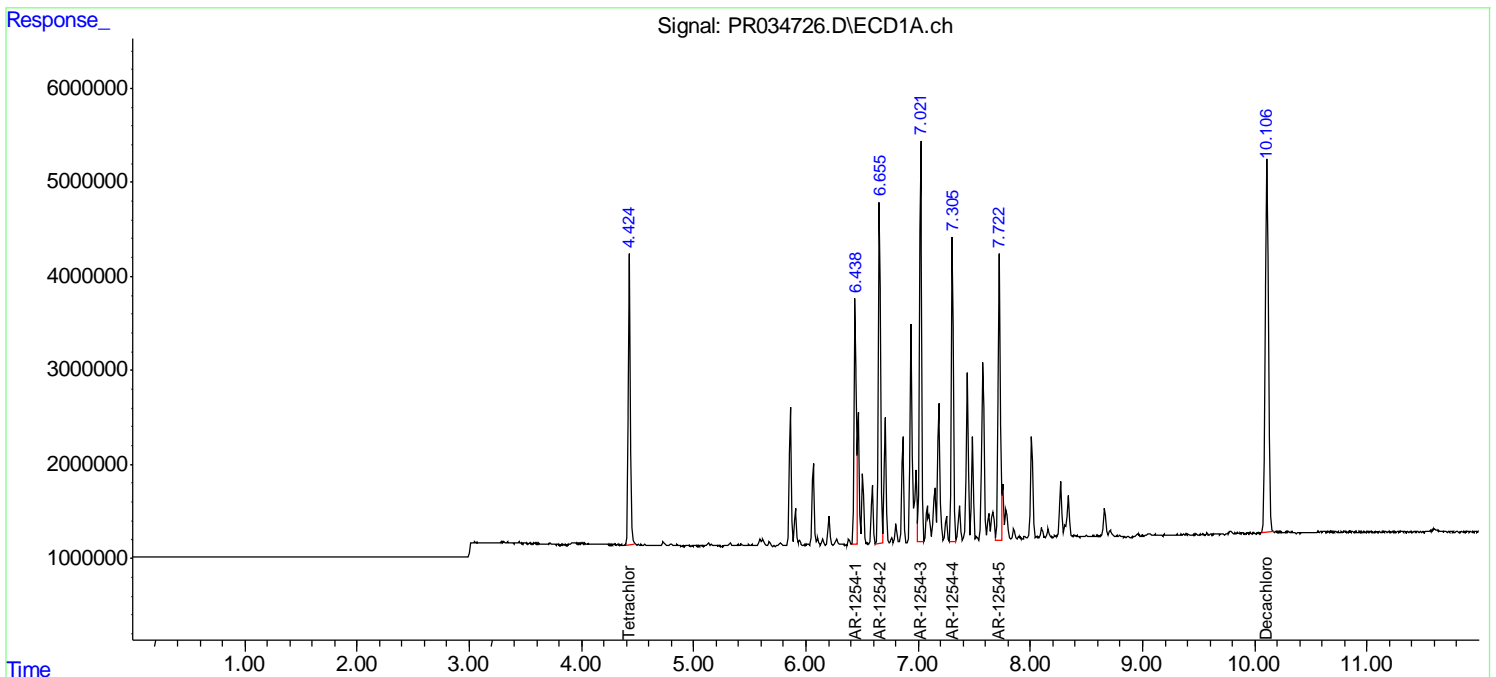
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034726.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:45
 Operator : SM\SJ
 Sample : AR1254ICC400
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:55:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034726.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:45
 Operator : SM\SJ
 Sample : AR1254ICC400
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:55:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 39657624 | 78345289 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.107 | 8.411 | 78338617 | 180.2E6 | 40.000 | 40.000 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.439 | 5.357 | 32352687 | 96735032 | 400.000 | 400.000 |
| 27) L6 AR-1254-2 | 6.655 | 5.503 | 49917162 | 82874415 | 400.000 | 400.000 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 52218701 | 138.2E6 | 400.000 | 400.000 |
| 29) L6 AR-1254-4 | 7.305 | 6.125 | 41002519 | 90058057 | 400.000 | 400.000 |
| 30) L6 AR-1254-5 | 7.722 | 6.537 | 41963439 | 121.5E6 | 400.000 | 400.000 |
| ----- | | | | | | |

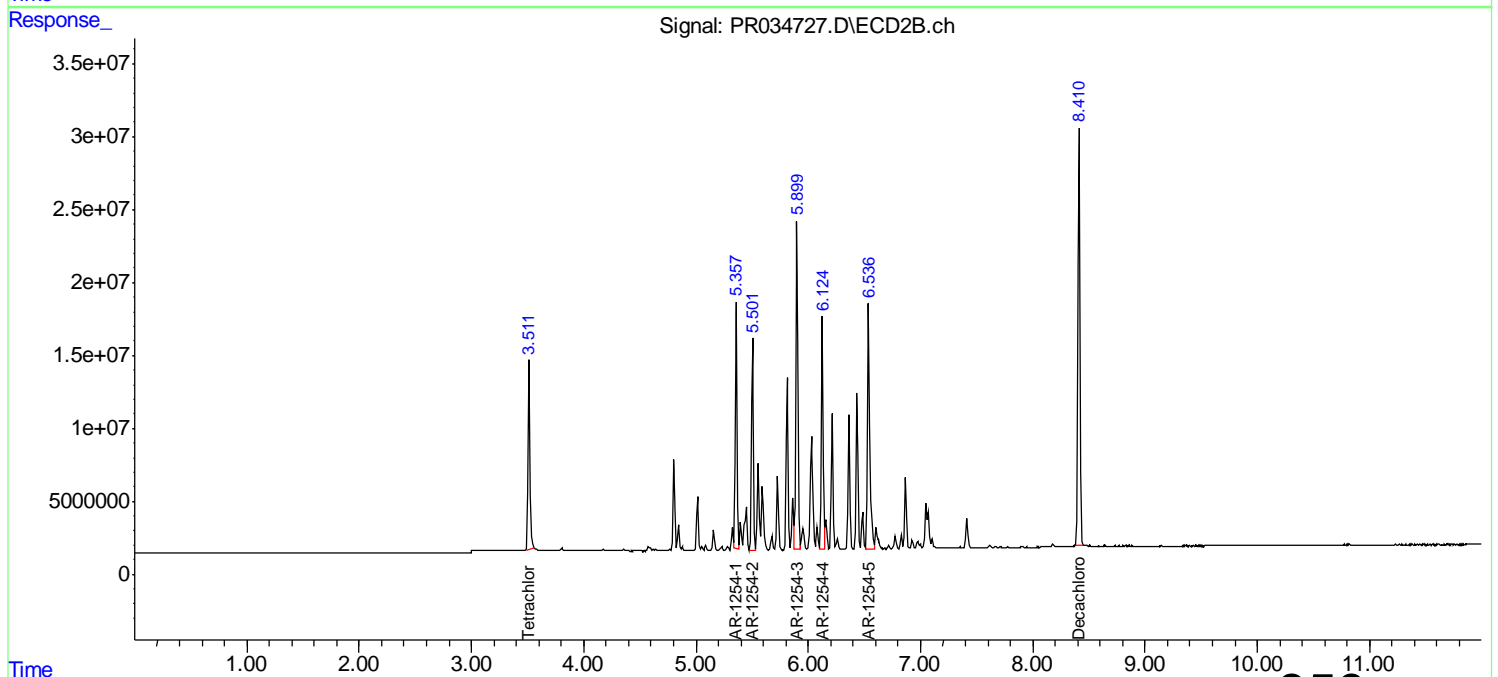
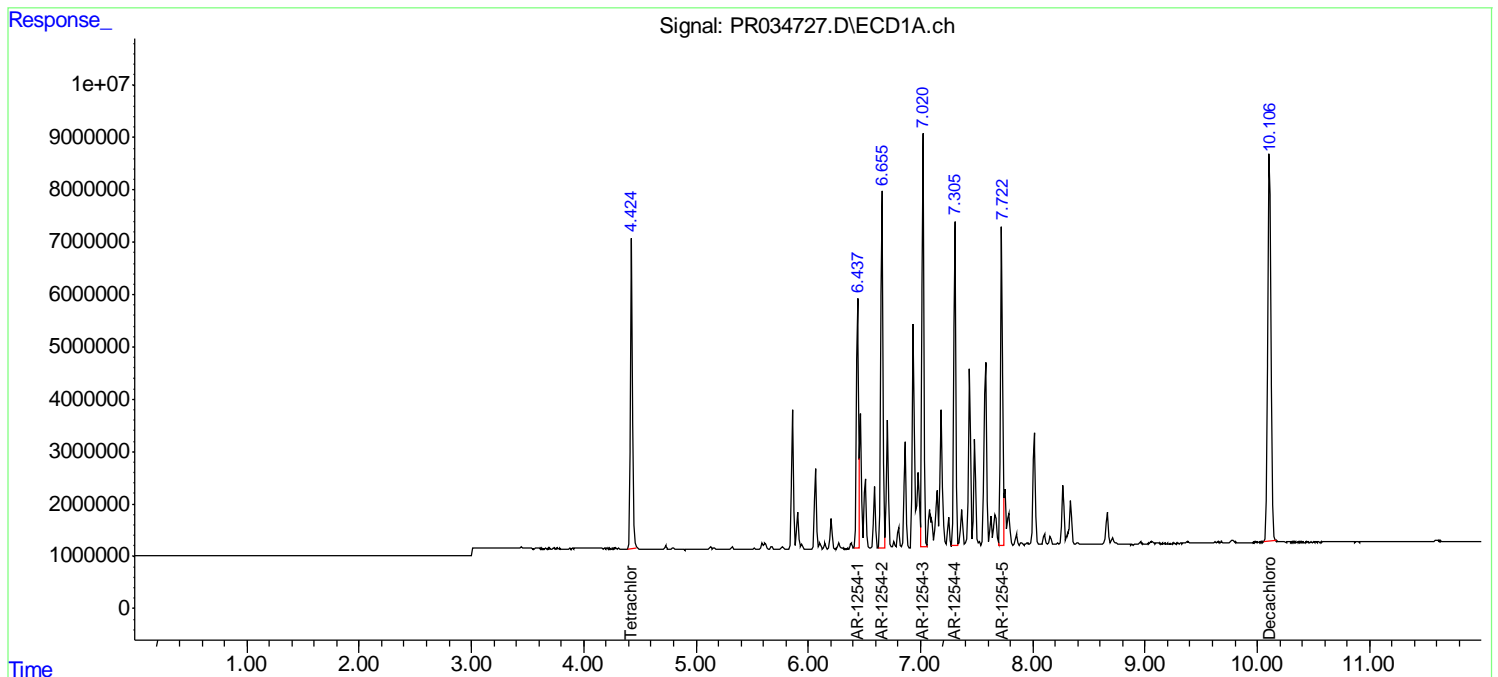
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034727.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:00
 Operator : SM\SJ
 Sample : AR1254ICC800
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:58:12 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034727.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:00
 Operator : SM\SJ
 Sample : AR1254ICC800
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:58:12 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 74721740 | 149.2E6 | 40.045 | 40.130 |
| 2) SA Decachlor... | 10.107 | 8.411 | 147.6E6 | 349.4E6 | 78.642 | 78.802 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.437 | 5.357 | 58683163 | 178.9E6 | 783.683 | 785.019 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 92010345 | 155.3E6 | 786.037 | 787.002 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 97965525 | 265.4E6 | 785.259 | 788.625 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 76557043 | 174.0E6 | 785.935 | 789.942 |
| 30) L6 AR-1254-5 | 7.722 | 6.536 | 79533332 | 235.9E6 | 786.286 | 788.541 |
| ----- | | | | | | |

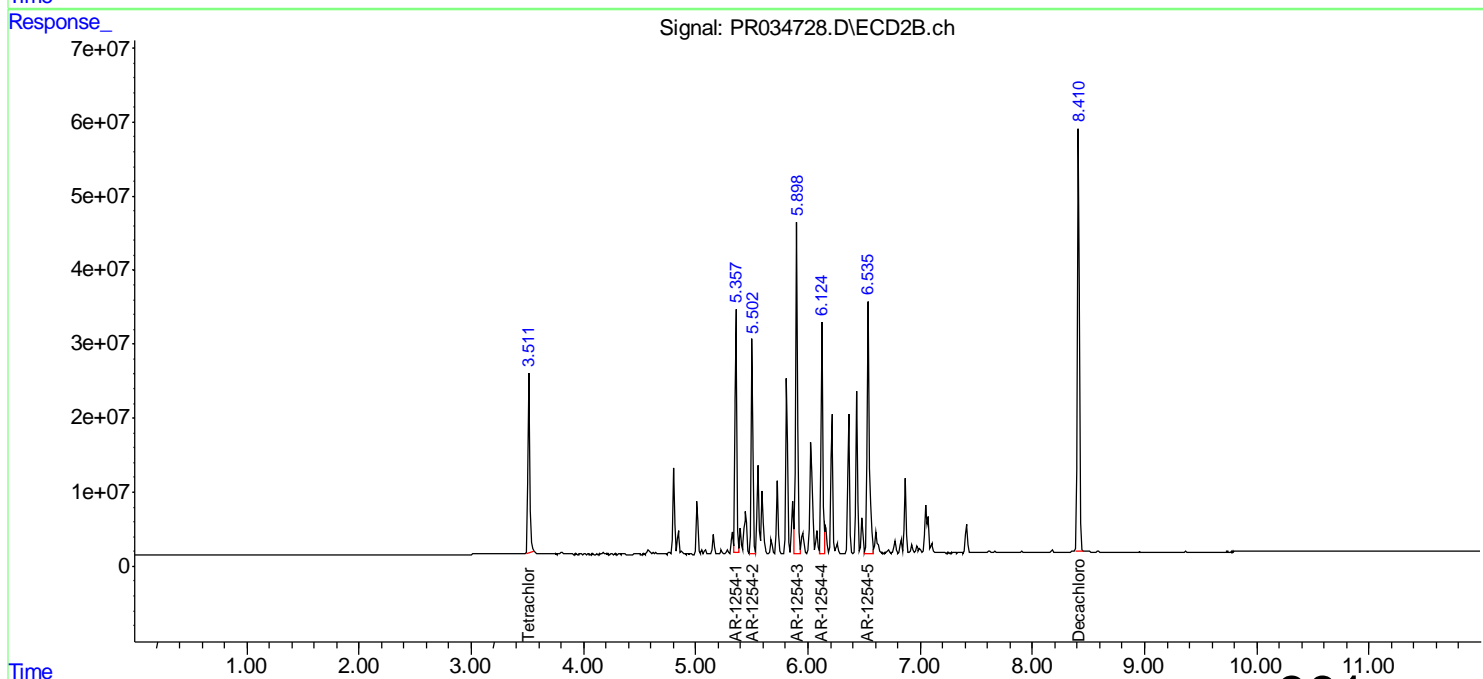
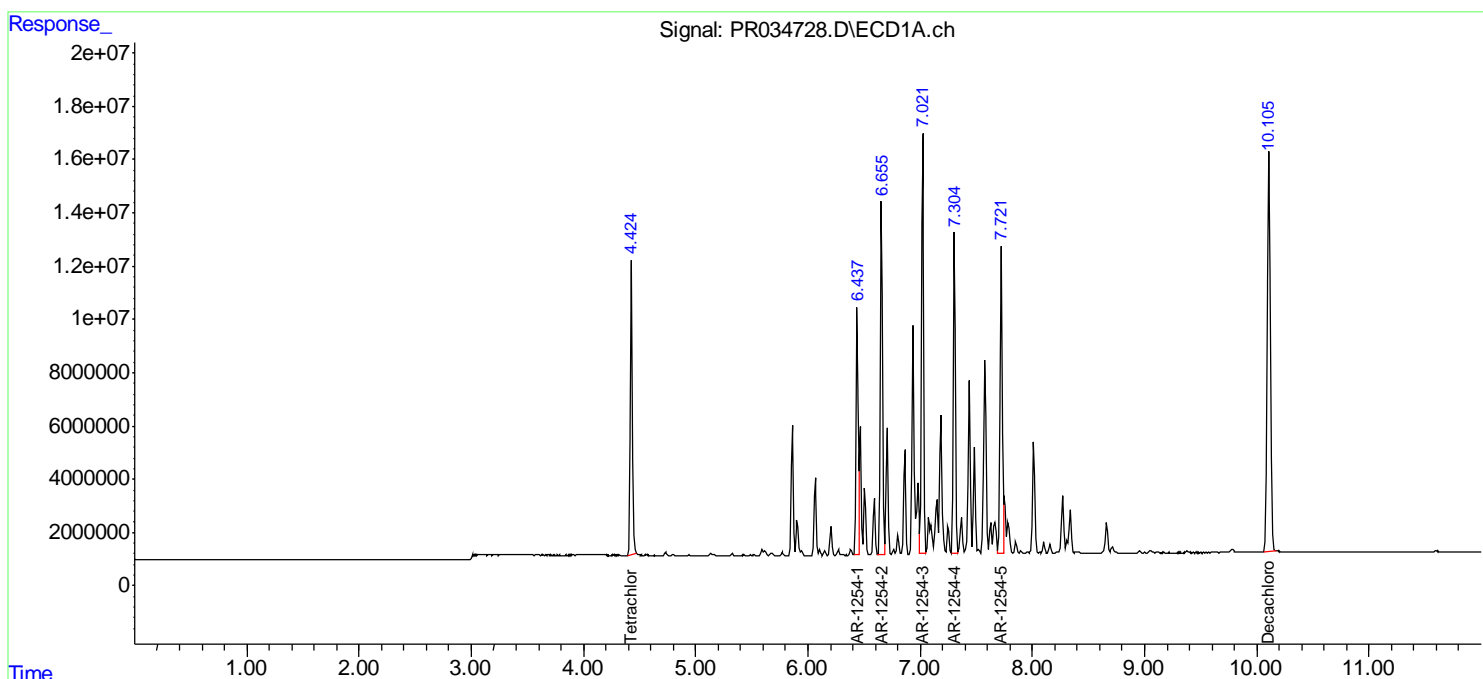
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034728.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:14
 Operator : SM\SJ
 Sample : AR1254ICC1600
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:56:36 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034728.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:14
 Operator : SM\SJ
 Sample : AR1254ICC1600
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:56:36 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|---------|---------|---------|---------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 139.8E6 | 280.7E6 | 74.939 | 75.600 |
| 2) SA Decachlor... | 10.107 | 8.410 | 292.5E6 | 708.8E6 | 154.494 | 158.664 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|---------|----------|----------|
| 26) L6 AR-1254-1 | 6.438 | 5.357 | 112.7E6 | 349.0E6 | 1489.233 | 1517.546 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 178.2E6 | 304.9E6 | 1509.003 | 1533.199 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 194.0E6 | 531.7E6 | 1541.013 | 1568.941 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 150.4E6 | 349.2E6 | 1530.942 | 1575.118 |
| 30) L6 AR-1254-5 | 7.721 | 6.536 | 158.6E6 | 477.9E6 | 1554.659 | 1586.371 |

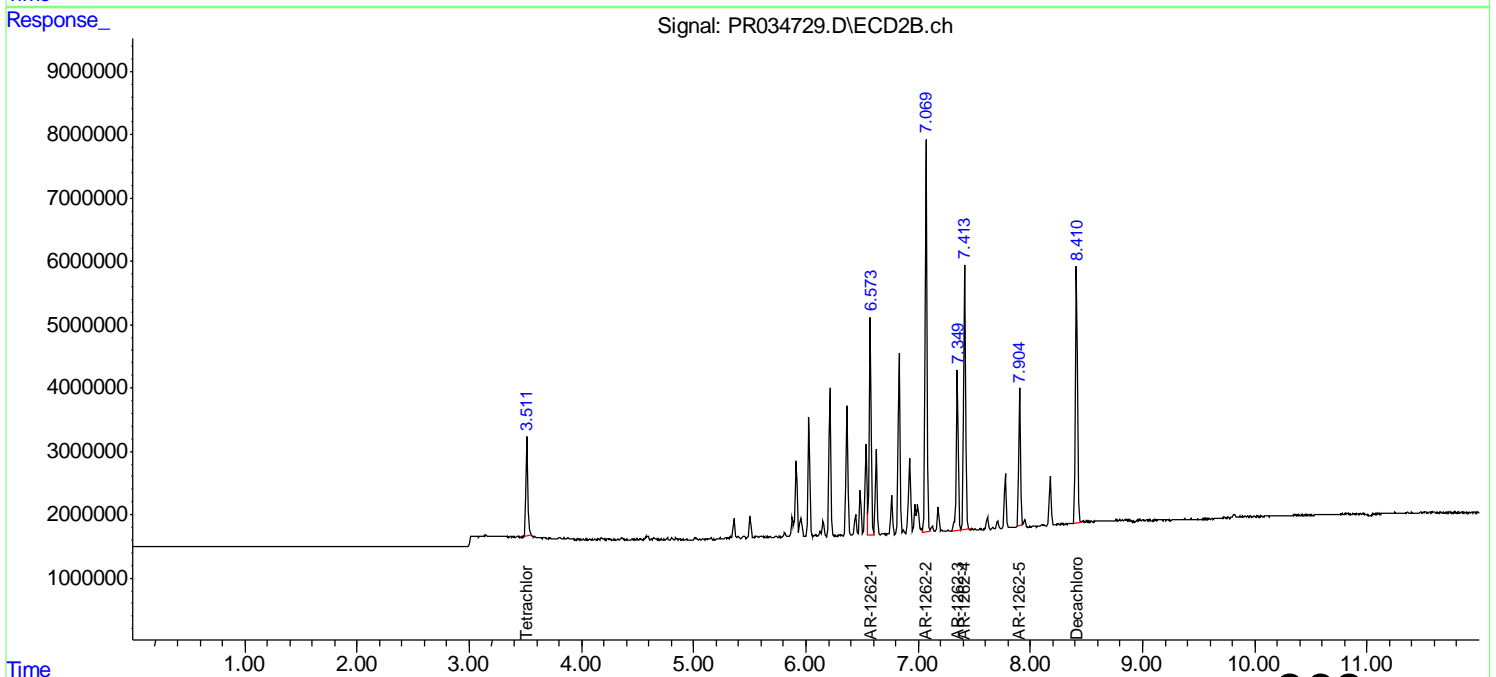
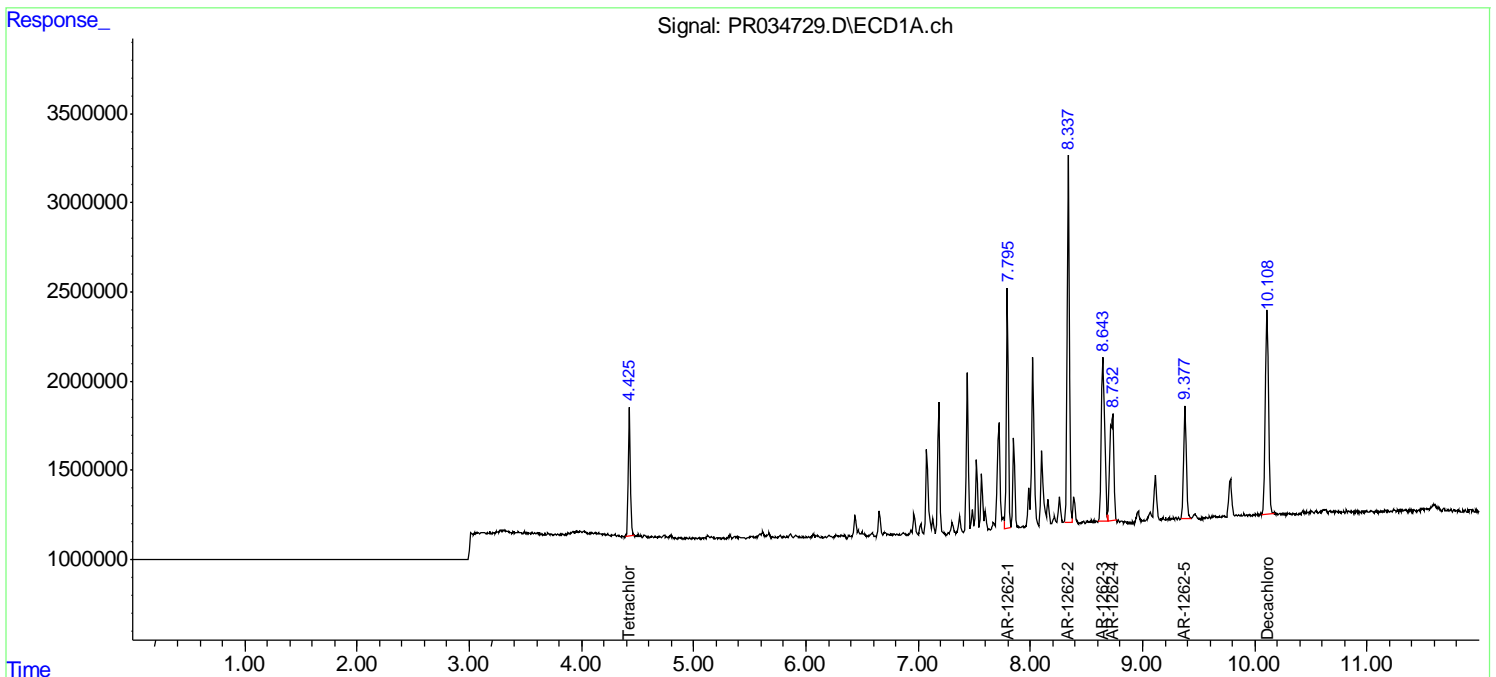
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034729.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 20:29
Operator : SM\SJ
Sample : AR1262ICC100
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1262101

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:37:20 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:33:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034729.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:29
 Operator : SM\SJ
 Sample : AR1262ICC100
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1262101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:37:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.512 | 9304912 | 18203750 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.109 | 8.411 | 22834273 | 51214722 | 10.000 | 10.000 |
| Target Compounds | | | | | | |
| 36) L8 AR-1262-1 | 7.795 | 6.573 | 16240260 | 38853721 | 100.000 | 100.000 |
| 37) L8 AR-1262-2 | 8.338 | 7.070 | 28279950 | 71180783 | 100.000 | 100.000 |
| 38) L8 AR-1262-3 | 8.643 | 7.349 | 19432465 | 30557410 | 100.000 | 100.000 |
| 39) L8 AR-1262-4 | 8.732 | 7.414 | 14757461 | 52355083 | 100.000 | 100.000 |
| 40) L8 AR-1262-5 | 9.378 | 7.904 | 10606987 | 24450127 | 100.000 | 100.000 |
| ----- | | | | | | |

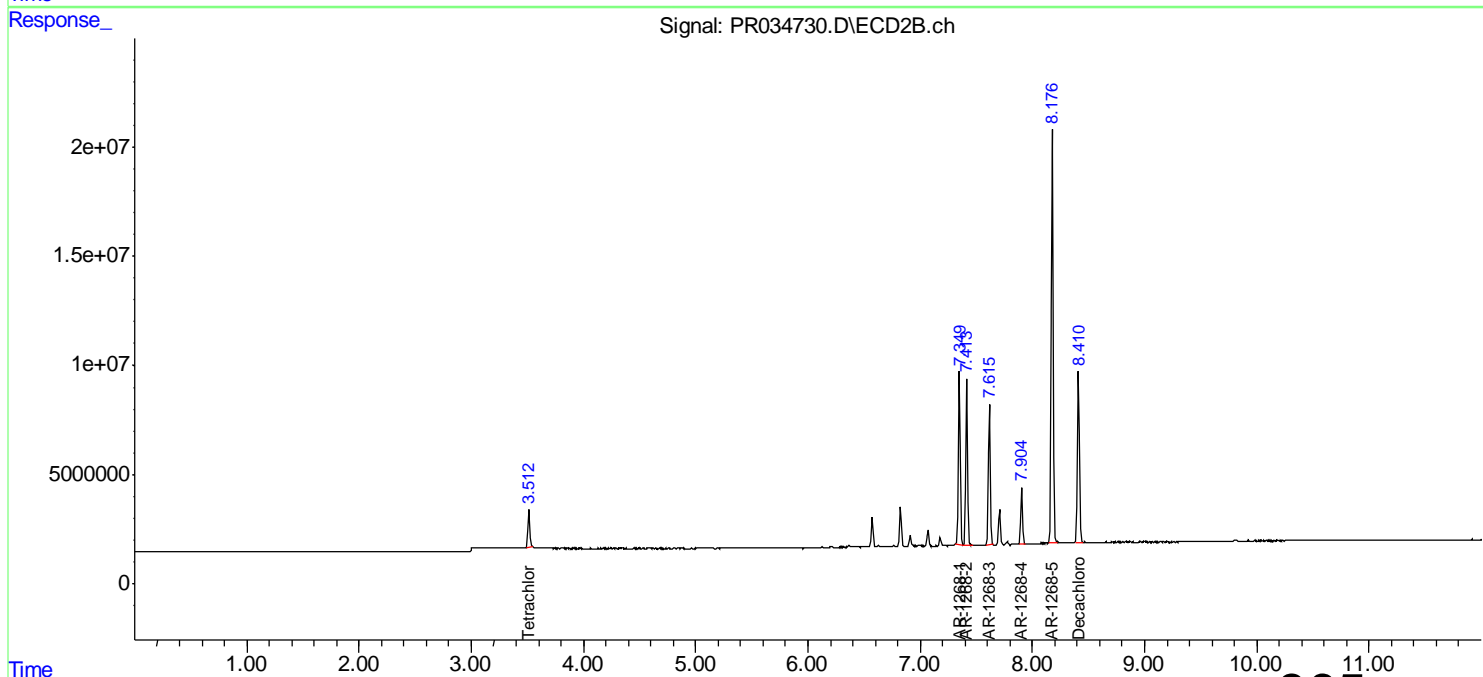
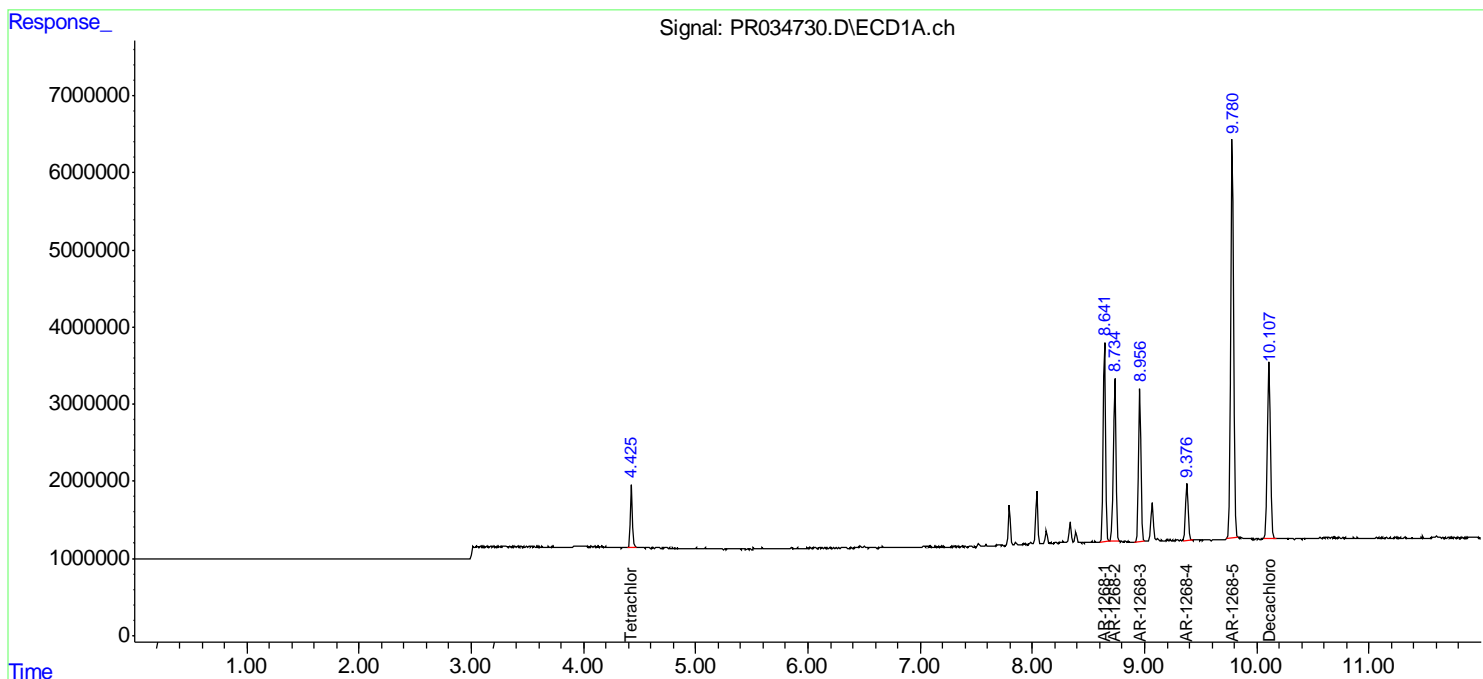
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034730.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:43
 Operator : SM\SJ
 Sample : AR1268ICC100
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1268101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:33:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



365

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034730.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:43
 Operator : SM\SJ
 Sample : AR1268ICC100
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1268101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:33:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 10312674 | 20354856 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.108 | 8.411 | 43838916 | 99484436 | 10.000 | 10.000 |
| Target Compounds | | | | | | |
| 41) L9 AR-1268-1 | 8.641 | 7.349 | 37993453 | 91028393 | 100.000 | 100.000 |
| 42) L9 AR-1268-2 | 8.734 | 7.414 | 34143481 | 83993680 | 100.000 | 100.000 |
| 43) L9 AR-1268-3 | 8.957 | 7.616 | 30320811 | 73219811 | 100.000 | 100.000 |
| 44) L9 AR-1268-4 | 9.376 | 7.904 | 12450492 | 29043038 | 100.000 | 100.000 |
| 45) L9 AR-1268-5 | 9.781 | 8.177 | 92583202 | 225.2E6 | 100.000 | 100.000 |
| ----- | | | | | | |

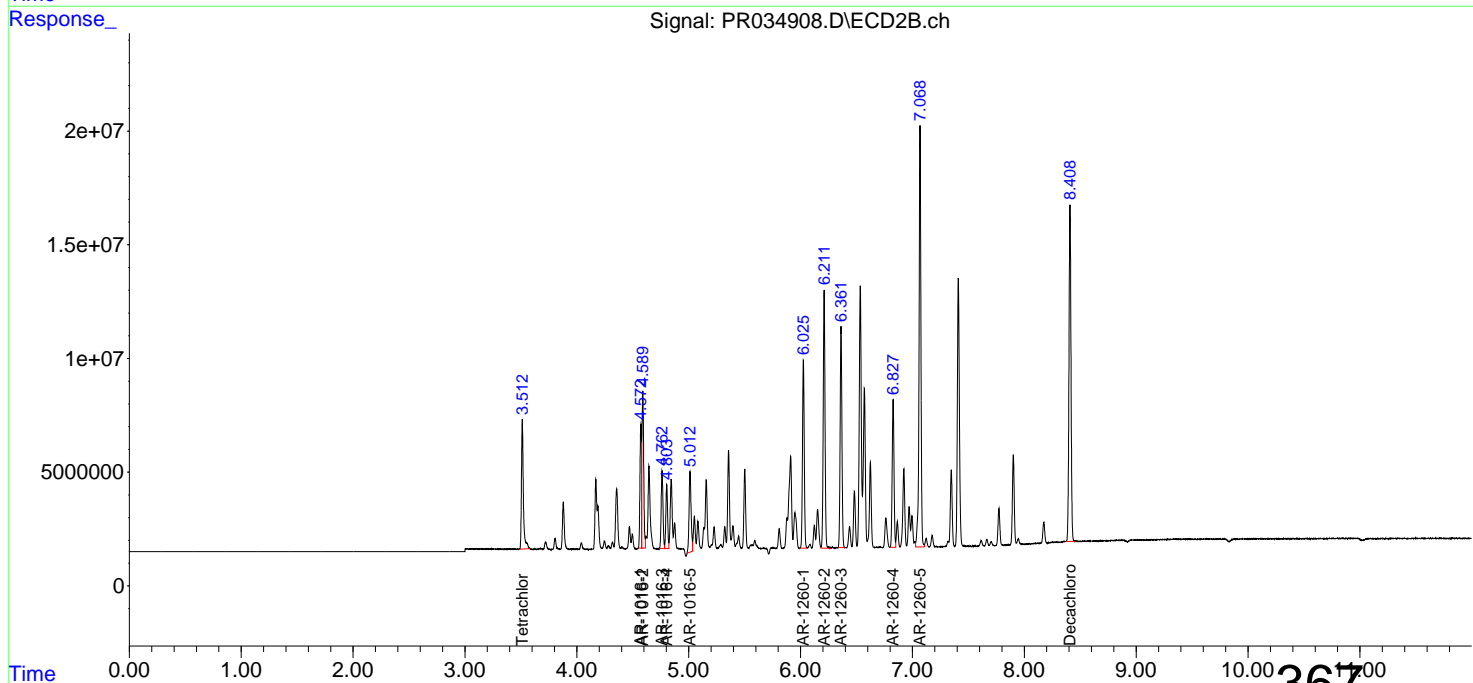
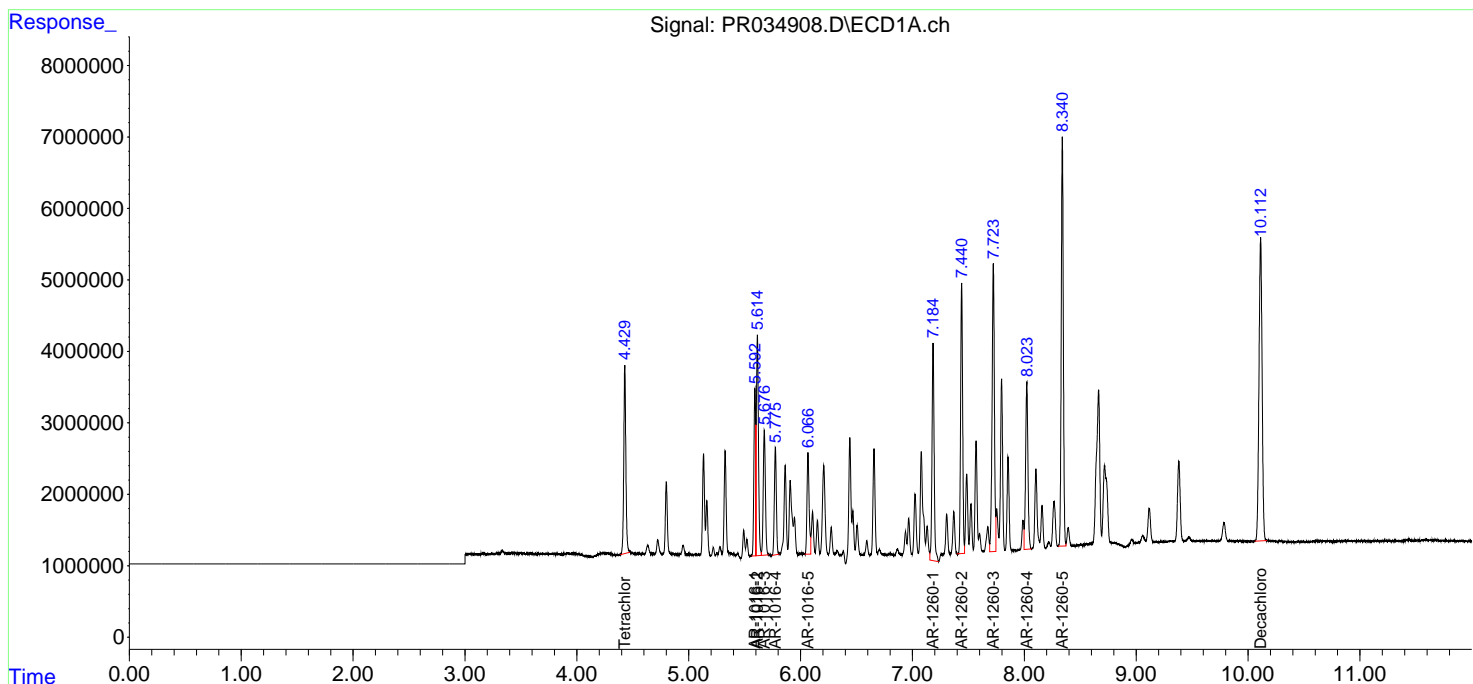
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034908.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 08:25
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AR1660325

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:36:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034908.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 08:25
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660325

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:36:28 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.429 | 3.513 | 33990313 | 67622364 | 17.475 | 19.398 |
| 2) SA Decachlor... | 10.113 | 8.409 | 81913027 | 186.1E6 | 41.666 | 42.320 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.592 | 4.573 | 25982479 | 49624089 | 384.907 | 381.359 |
| 4) L1 AR-1016-2 | 5.614 | 4.590 | 39963648 | 75962597 | 403.563 | 384.328 |
| 5) L1 AR-1016-3 | 5.676 | 4.762 | 23477078 | 38296847 | 398.892 | 398.444 |
| 6) L1 AR-1016-4 | 5.775 | 4.804 | 18737682 | 30558643 | 395.002 | 404.488 |
| 7) L1 AR-1016-5 | 6.066 | 5.012 | 18816907 | 44617143 | 395.084 | 433.910 |
| 31) L7 AR-1260-1 | 7.185 | 6.025 | 40226211 | 91148365 | 427.902 | 424.001 |
| 32) L7 AR-1260-2 | 7.440 | 6.211 | 47157404 | 125.8E6 | 406.175 | 462.363 |
| 33) L7 AR-1260-3 | 7.723 | 6.362 | 57357697 | 107.4E6 | 411.000 | 432.766 |
| 34) L7 AR-1260-4 | 8.023 | 6.828 | 33949551 | 73546161 | 393.100 | 430.119 |
| 35) L7 AR-1260-5 | 8.340 | 7.068 | 74346347 | 215.4E6 | 411.769 | 445.396 |

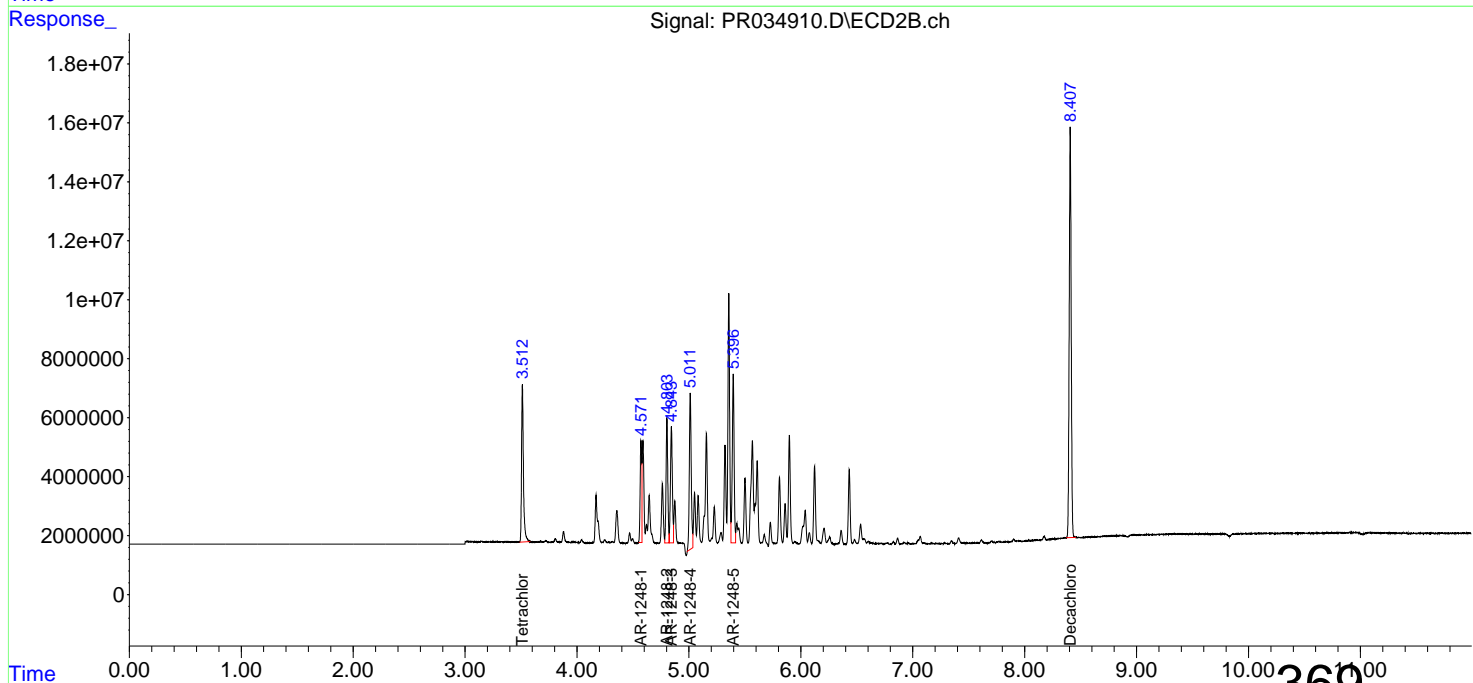
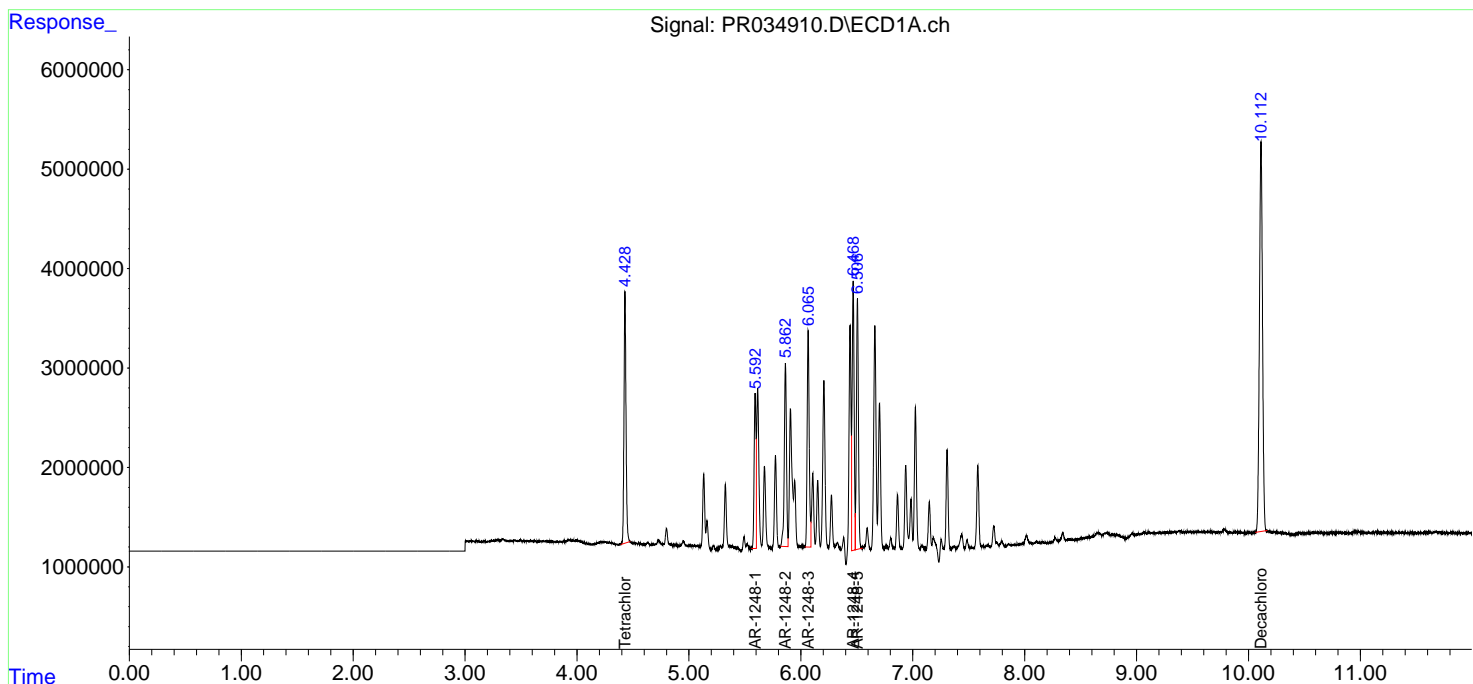
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034910.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 08:54
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248325

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 02:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034910.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 08:54
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248325

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 02:18:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.429 | 3.512 | 31874209 | 62195474 | 16.388 | 17.841 |
| 2) SA Decachlor... | 10.112 | 8.407 | 75354075 | 171.9E6 | 38.330 | 39.093 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.592 | 4.572 | 18076640 | 33940702 | 372.540 | 348.104 |
| 22) L5 AR-1248-2 | 5.863 | 4.803 | 25080073 | 45304434 | 379.578 | 353.658 |
| 23) L5 AR-1248-3 | 6.066 | 4.844 | 27878286 | 46672999 | 373.129 | 353.644 |
| 24) L5 AR-1248-4 | 6.468 | 5.012 | 34109024 | 63318576 | 381.764 | 384.844 |
| 25) L5 AR-1248-5 | 6.506 | 5.396 | 31207111 | 65182056 | 372.986 | 389.482 |
| ----- | | | | | | |

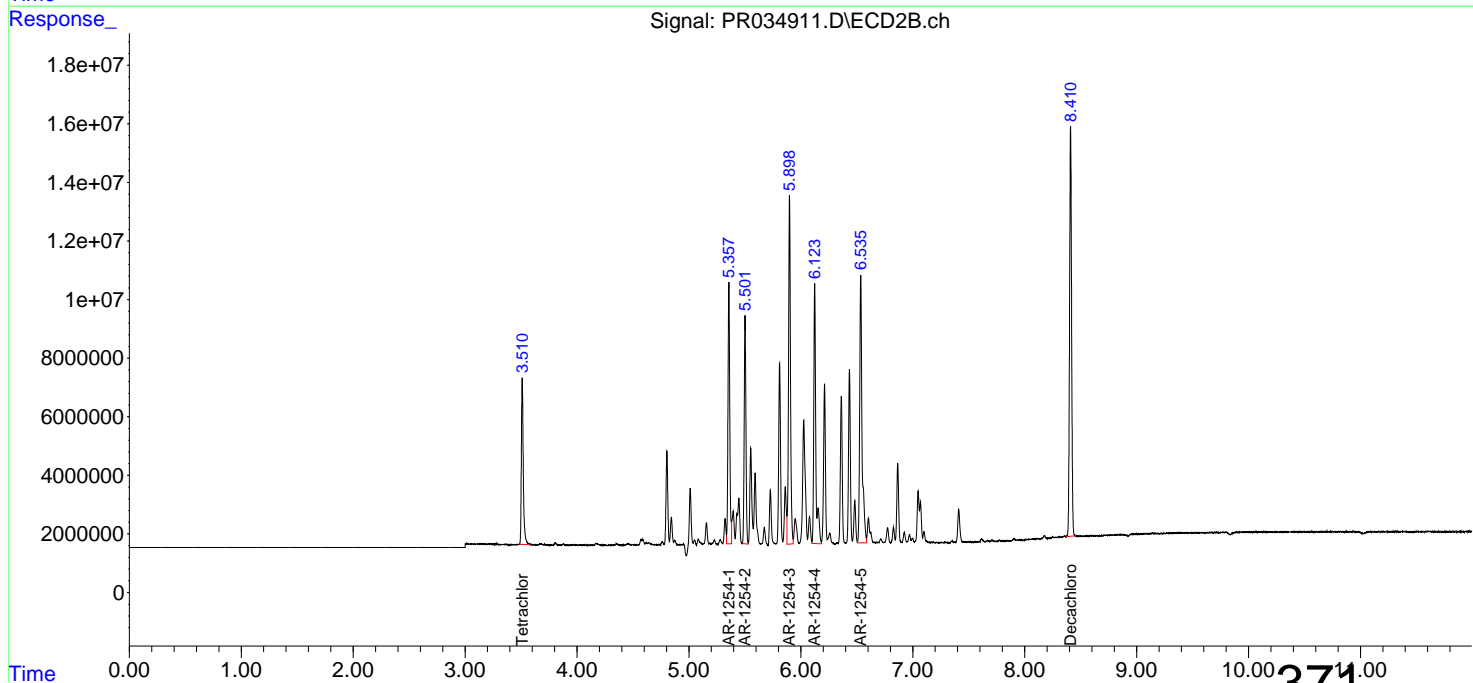
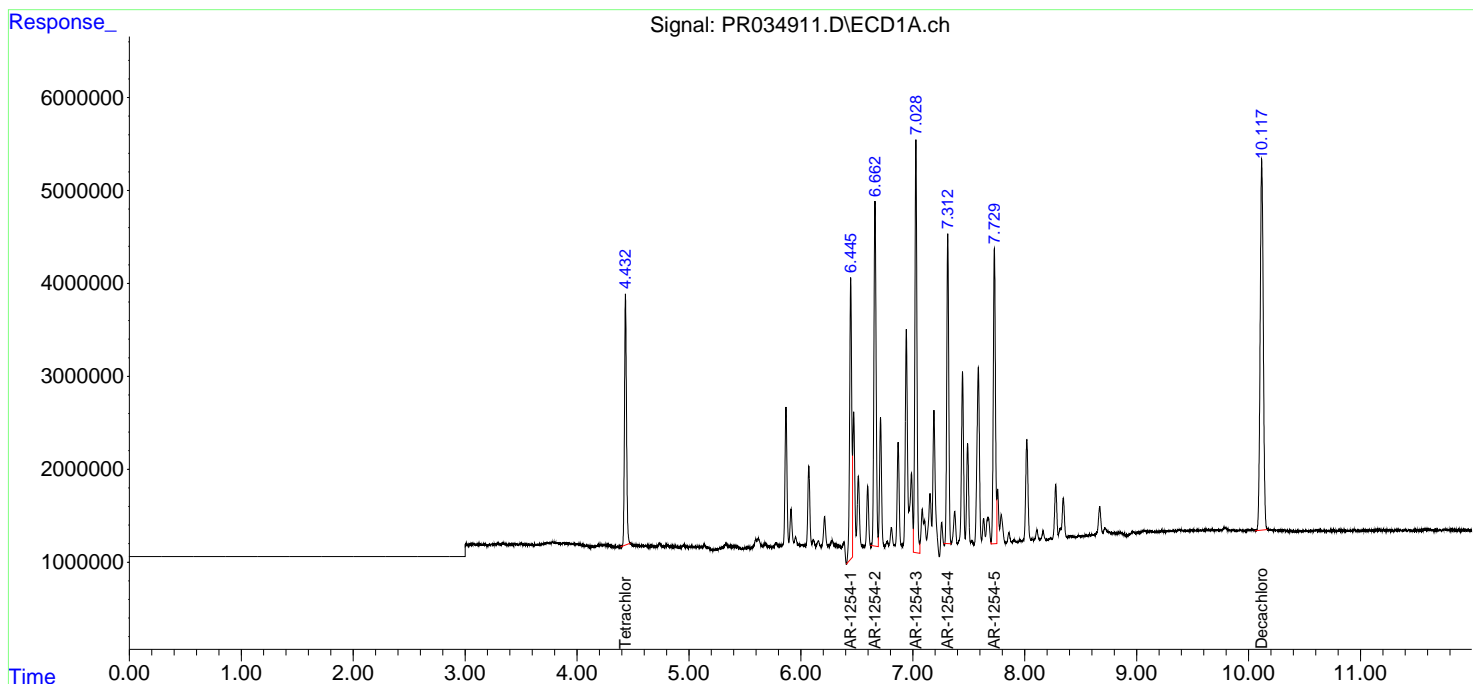
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034911.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 09:11
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254325

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:37:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034911.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 09:11
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254325

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:37:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.433 | 3.511 | 33619730 | 66661129 | 17.285 | 19.122 |
| 2) SA Decachlor... | 10.117 | 8.410 | 77196063 | 175.4E6 | 39.267 | 39.890 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.446 | 5.357 | 39418621 | 98193758 | 482.450 | 401.293 |
| 27) L6 AR-1254-2 | 6.663 | 5.502 | 50461952 | 83352777 | 394.923 | 391.899 |
| 28) L6 AR-1254-3 | 7.028 | 5.899 | 57255933 | 143.6E6 | 424.206 | 401.933 |
| 29) L6 AR-1254-4 | 7.313 | 6.124 | 41072390 | 113.7E6 | 387.191 | 481.503 |
| 30) L6 AR-1254-5 | 7.729 | 6.535 | 42086405 | 133.2E6 | 392.805 | 417.707 |
| ----- | | | | | | |

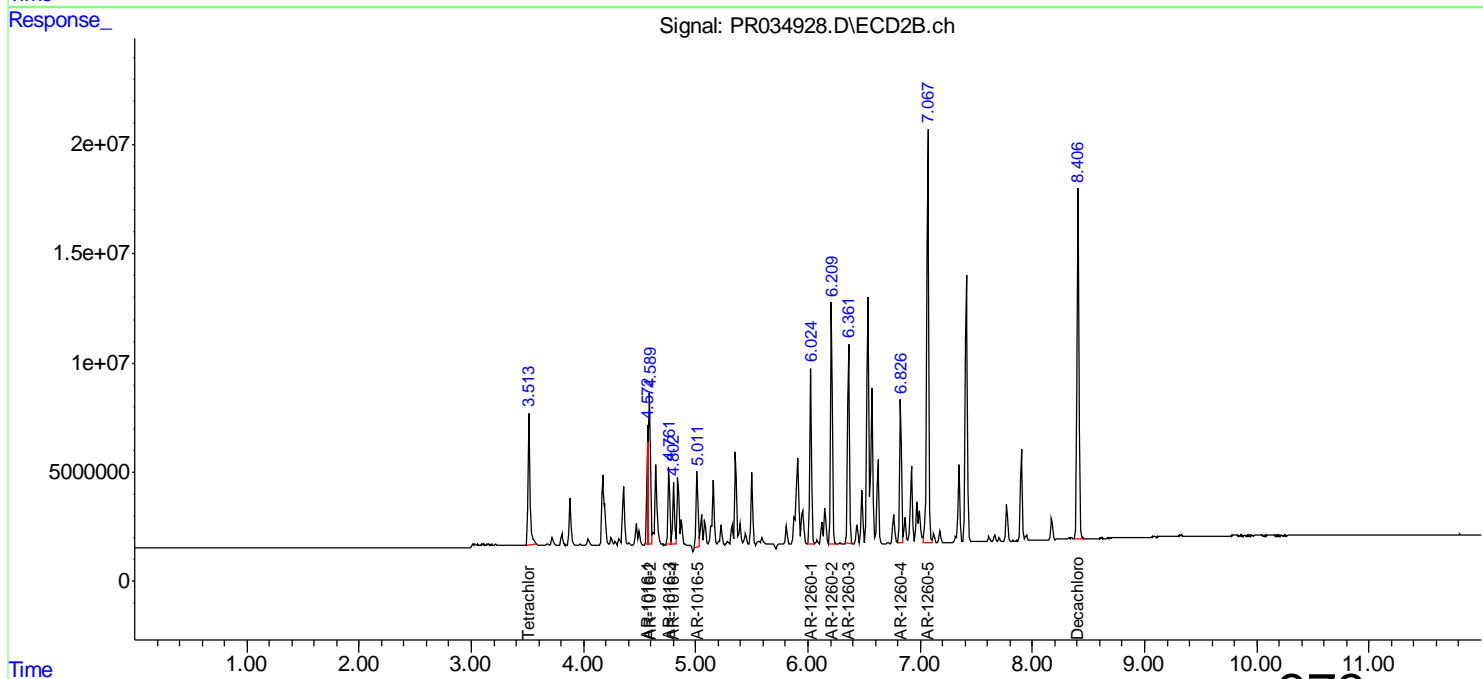
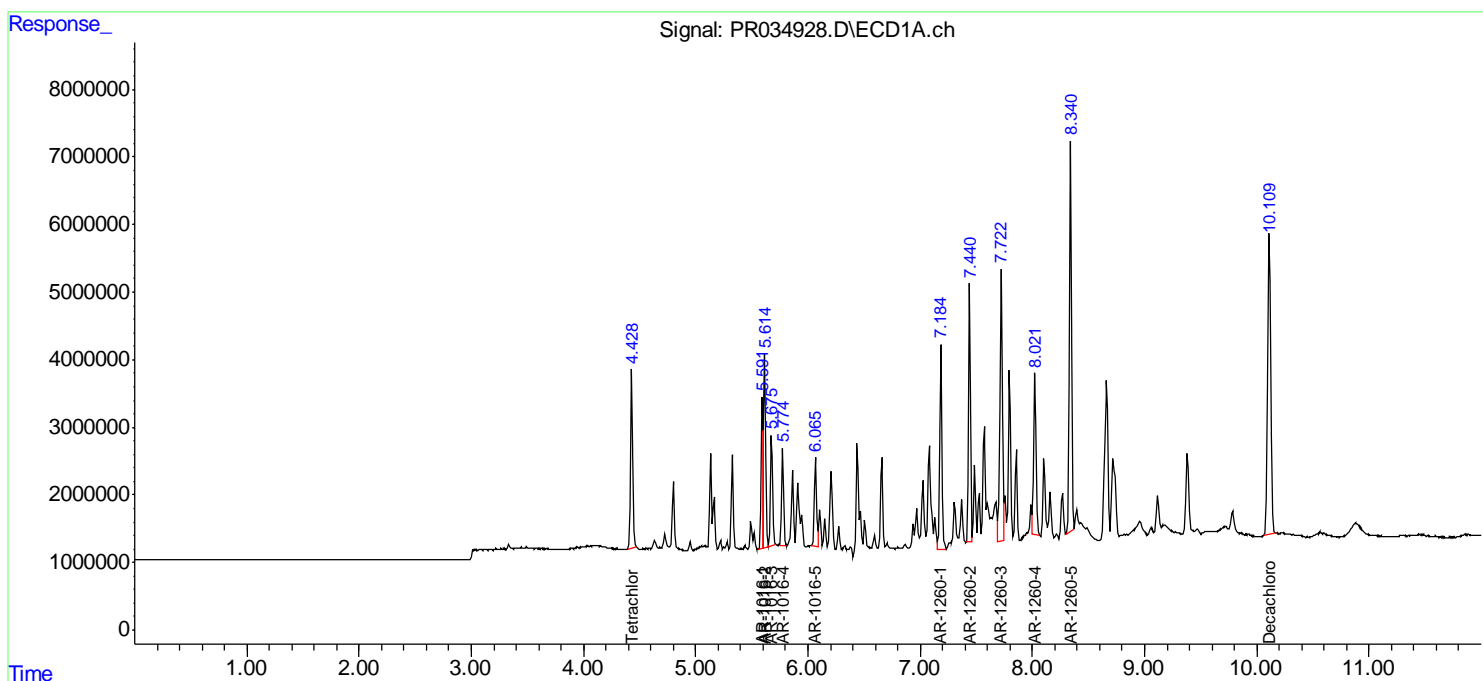
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034928.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:21
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660326

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:59 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034928.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:21
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660326

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:59 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 34563247 | 72561401 | 17.770 | 20.815 |
| 2) SA Decachlor... | 10.111 | 8.406 | 87002657 | 200.0E6 | 44.255 | 45.481 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.592 | 4.572 | 25012978 | 50104040 | 370.545 | 385.047 |
| 4) L1 AR-1016-2 | 5.614 | 4.589 | 36741569 | 76783310 | 371.026 | 388.481 |
| 5) L1 AR-1016-3 | 5.675 | 4.761 | 21832750 | 39015791 | 370.954 | 405.924 |
| 6) L1 AR-1016-4 | 5.774 | 4.803 | 18006432 | 30675022 | 379.587 | 406.028 |
| 7) L1 AR-1016-5 | 6.066 | 5.011 | 17436582 | 43209224 | 366.103 | 420.218 |
| 31) L7 AR-1260-1 | 7.184 | 6.024 | 40028471 | 88313945 | 425.799 | 410.816 |
| 32) L7 AR-1260-2 | 7.440 | 6.210 | 46562831 | 121.0E6 | 401.054 | 444.522 |
| 33) L7 AR-1260-3 | 7.723 | 6.361 | 61671933 | 103.6E6 | 441.914 | 417.249 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 35201549 | 74829313 | 407.597 | 437.623 |
| 35) L7 AR-1260-5 | 8.340 | 7.067 | 76708468 | 220.6E6 | 424.851 | 456.070 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034929.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:36
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

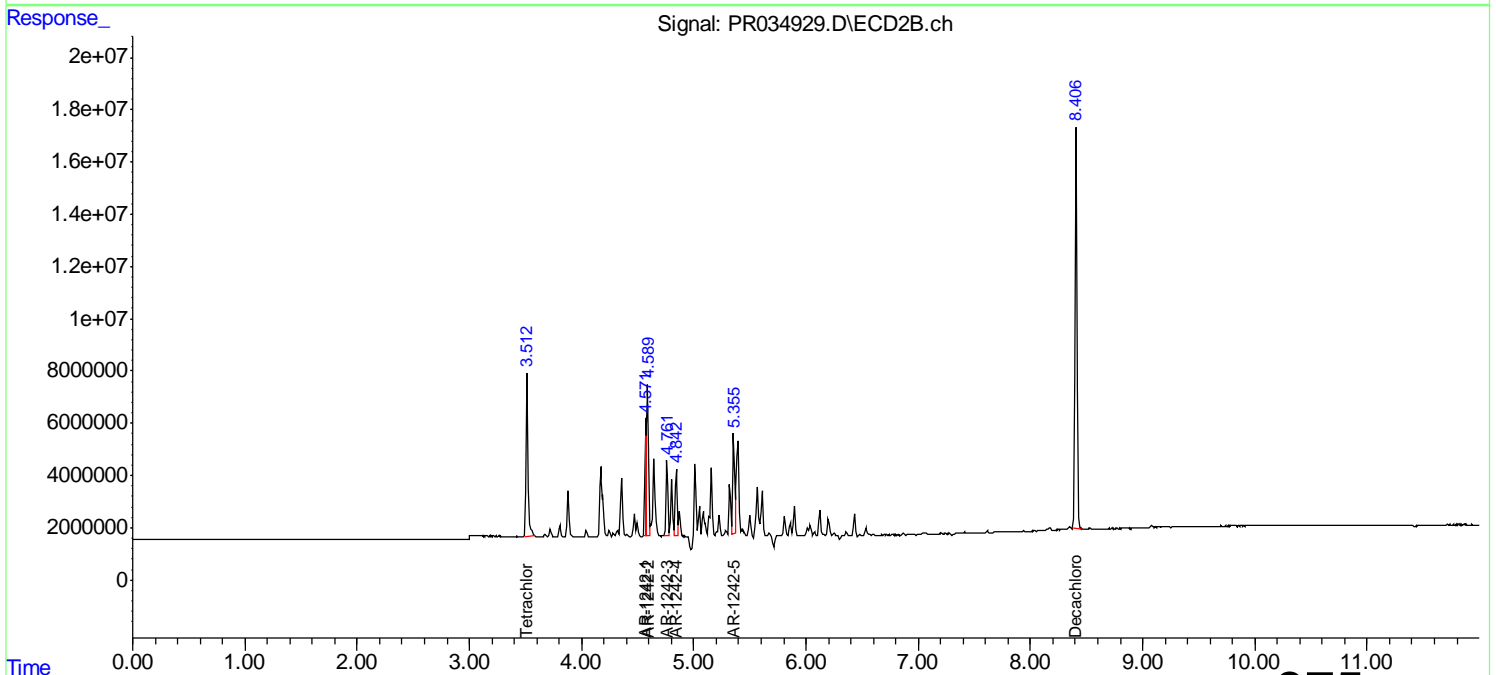
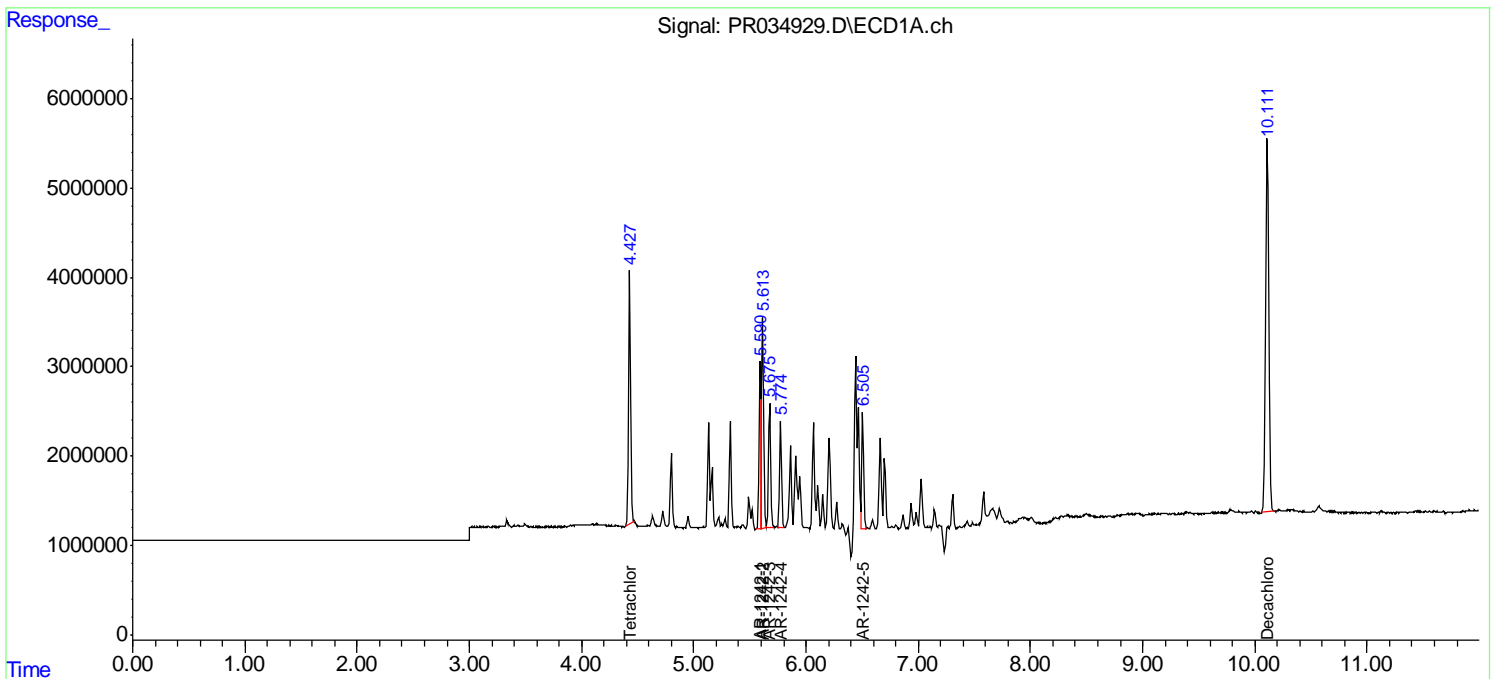
Instrument :
 ECD_R
 Client Sampled :
 AR1242326

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:51 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 02:46:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034929.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:36
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1242326

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:51 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 02:46:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 35804622 | 74092733 | 18.408 | 21.254 |
| 2) SA Decachlor... | 10.111 | 8.407 | 82426690 | 191.5E6 | 41.928 | 43.566 |
| Target Compounds | | | | | | |
| 16) L4 AR-1242-1 | 5.591 | 4.572 | 20869192 | 41403701 | 359.791 | 364.747 |
| 17) L4 AR-1242-2 | 5.613 | 4.589 | 30513403 | 63055495 | 360.494 | 369.333 |
| 18) L4 AR-1242-3 | 5.675 | 4.762 | 18015275 | 31805982 | 359.509 | 375.375 |
| 19) L4 AR-1242-4 | 5.774 | 4.843 | 15035231 | 30835490 | 367.930 | 372.962 |
| 20) L4 AR-1242-5 | 6.505 | 5.356 | 16953523 | 40426710 | 368.083m | 363.467 |
| ----- | | | | | | |

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

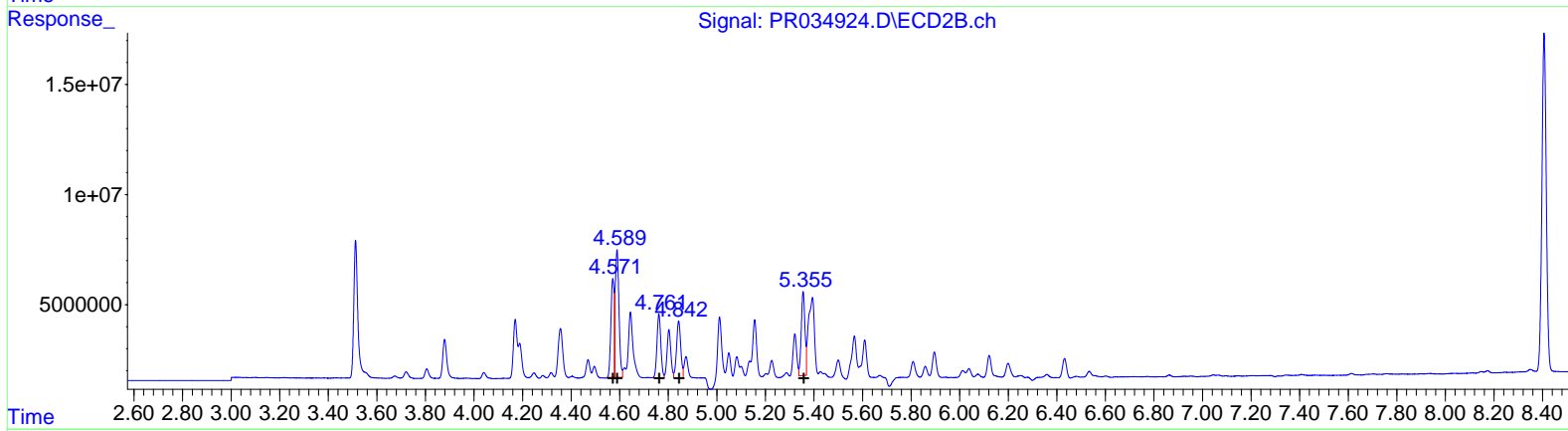
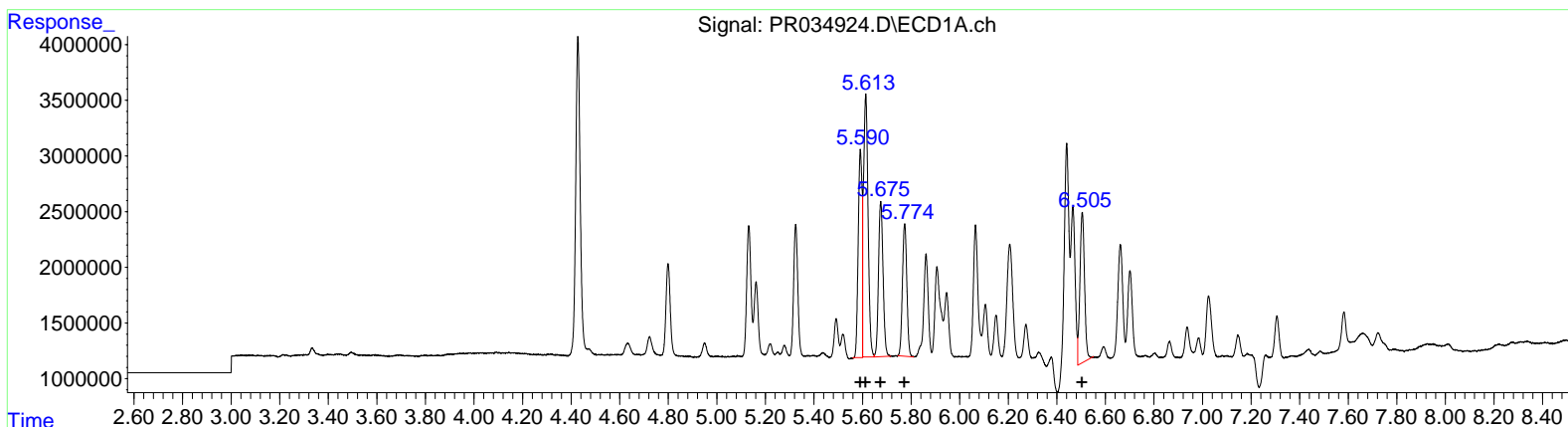
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034929.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:36
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1242326

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:51 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 02:46:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(16) AR-1242-1 (L4)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 20869192 | 359.79 |
| 5.61 | 30513403 | 360.49 |
| 5.68 | 18015275 | 359.51 |
| 5.77 | 15035231 | 367.93 |
| 6.50 | 17902411 | 388.69 |

(16) AR-1242-1 #2 (L4)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 41403701 | 364.75 |
| 4.59 | 63055495 | 369.33 |
| 4.76 | 31805982 | 375.37 |
| 4.84 | 30835490 | 372.96 |
| 5.36 | 40426710 | 363.47 |

QEdit

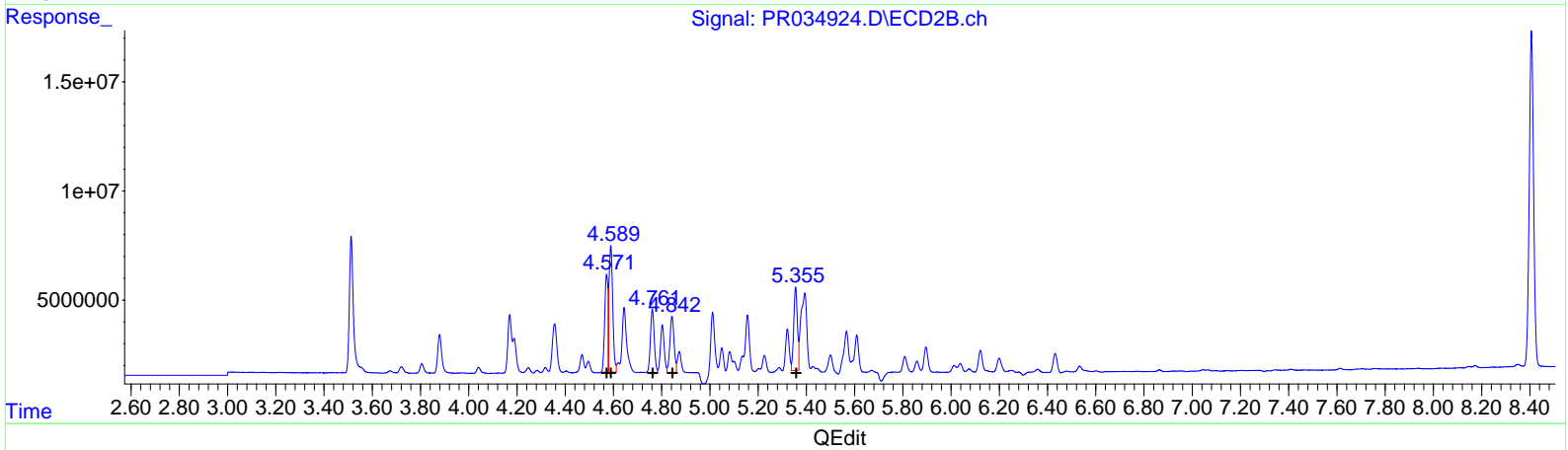
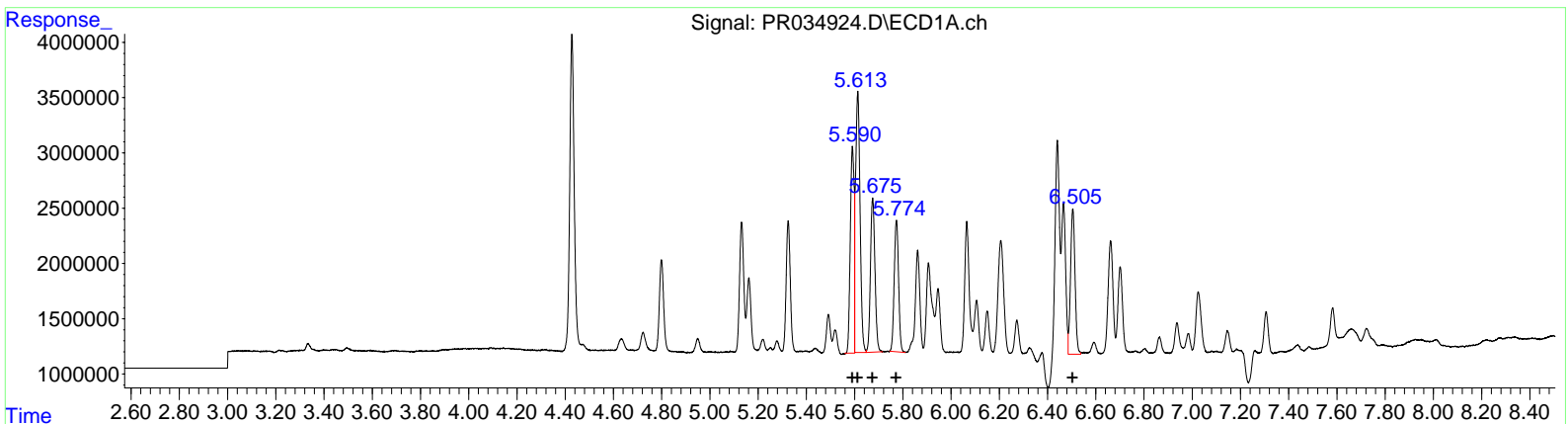
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034929.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:36
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1242326

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:51 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 02:46:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (16) AR-1242-1 (L4) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 5.59 | 20869192 | 359.79 |
| 5.61 | 30513403 | 360.49 |
| 5.68 | 18015275 | 359.51 |
| 5.77 | 15035231 | 367.93 |
| 6.51 | 16953523 | 368.08 |
| (16) AR-1242-1 #2 (L4) | | |
| R.T. | Response | Conc |
| 4.57 | 41403701 | 364.75 |
| 4.59 | 63055495 | 369.33 |
| 4.76 | 31805982 | 375.37 |
| 4.84 | 30835490 | 372.96 |
| 5.36 | 40426710 | 363.47 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034929.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:36
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1242326

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 02:46:49 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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 12/21/2018 6:11:51 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 35804622 | 74092733 | 18.408 | 21.254 |
| 2) SA Decachlor... | 10.111 | 8.407 | 82426690 | 191.5E6 | 41.928 | 43.566 |
| Target Compounds | | | | | | |
| 16) L4 AR-1242-1 | 5.591 | 4.572 | 20869192 | 41403701 | 359.791 | 364.747 |
| 17) L4 AR-1242-2 | 5.613 | 4.589 | 30513403 | 63055495 | 360.494 | 369.333 |
| 18) L4 AR-1242-3 | 5.675 | 4.762 | 18015275 | 31805982 | 359.509 | 375.375 |
| 19) L4 AR-1242-4 | 5.774 | 4.843 | 15035231 | 30835490 | 367.930 | 372.962 |
| 20) L4 AR-1242-5 | 6.505 | 5.356 | 16953523 | 40426710 | 368.083m | 363.467 |

} SS
 12/26/18

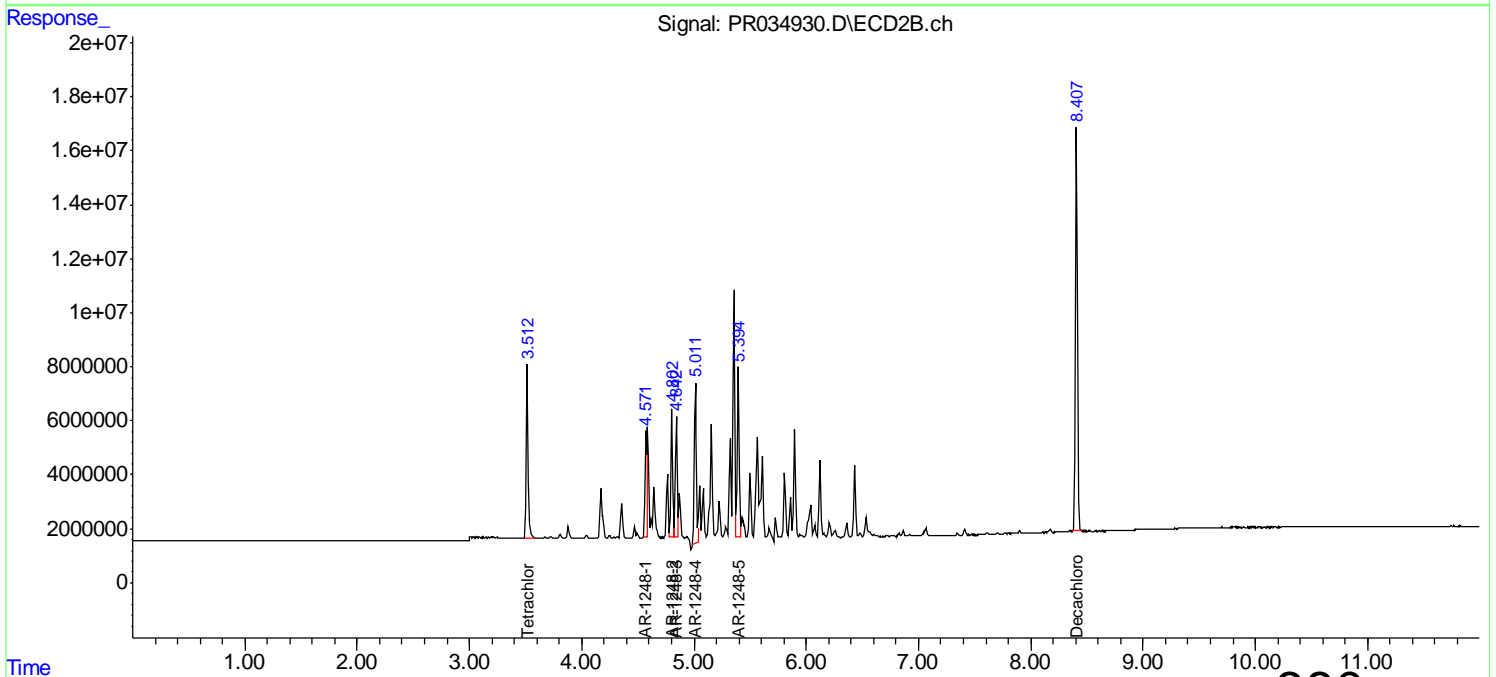
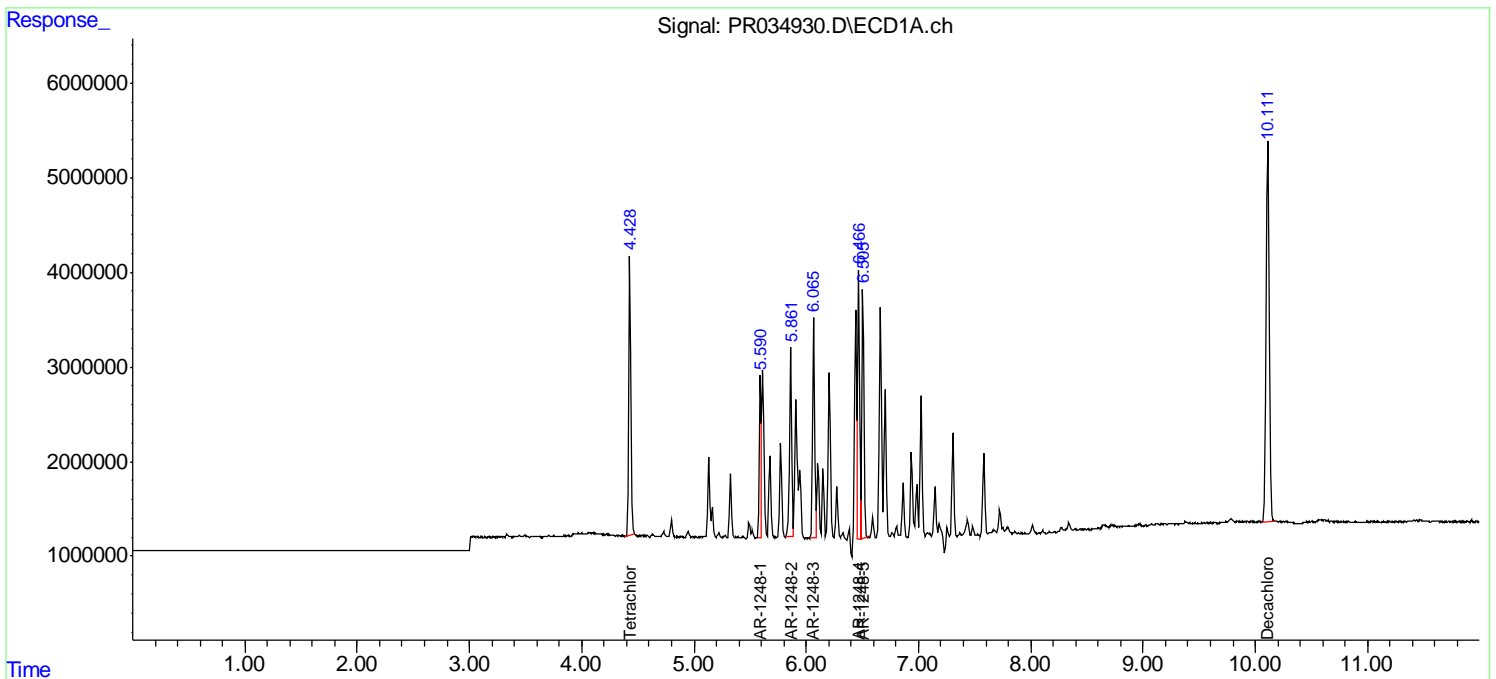
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
Data File : PR034930.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Dec 2018 15:50
Operator : SM\SJ
Sample : AR1248CCC400
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1248326

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 21 02:48:08 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034930.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:50
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248326

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 02:48:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 36669831 | 72734630 | 18.853 | 20.865 |
| 2) SA Decachlor... | 10.111 | 8.407 | 78489095 | 183.6E6 | 39.925 | 41.750 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.591 | 4.571 | 19570047 | 38443986 | 403.318 | 394.290 |
| 22) L5 AR-1248-2 | 5.862 | 4.802 | 26306140 | 51087620 | 398.134 | 398.803 |
| 23) L5 AR-1248-3 | 6.065 | 4.842 | 29529710 | 52721155 | 395.232 | 399.472 |
| 24) L5 AR-1248-4 | 6.466 | 5.011 | 36149228 | 69323377 | 404.598 | 421.341 |
| 25) L5 AR-1248-5 | 6.505 | 5.395 | 33513165 | 72430963 | 400.548 | 432.797 |
| ----- | | | | | | |

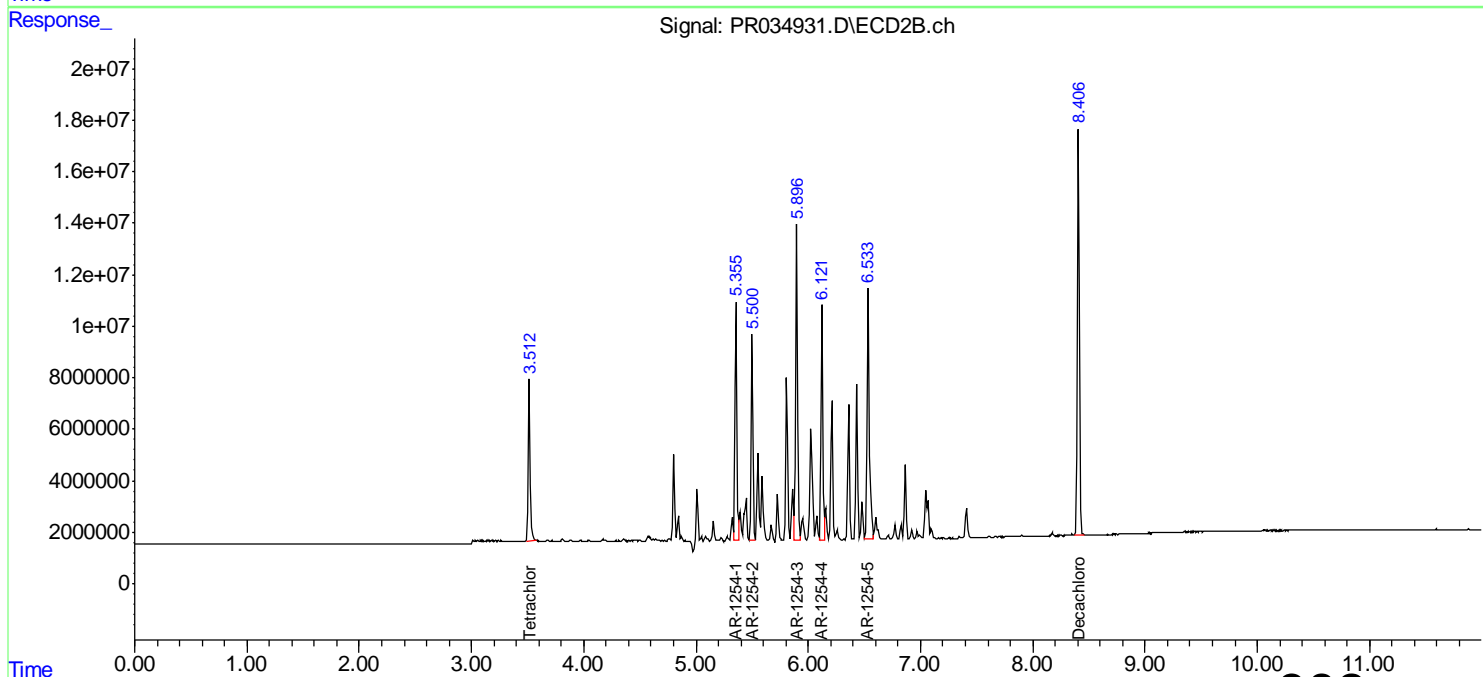
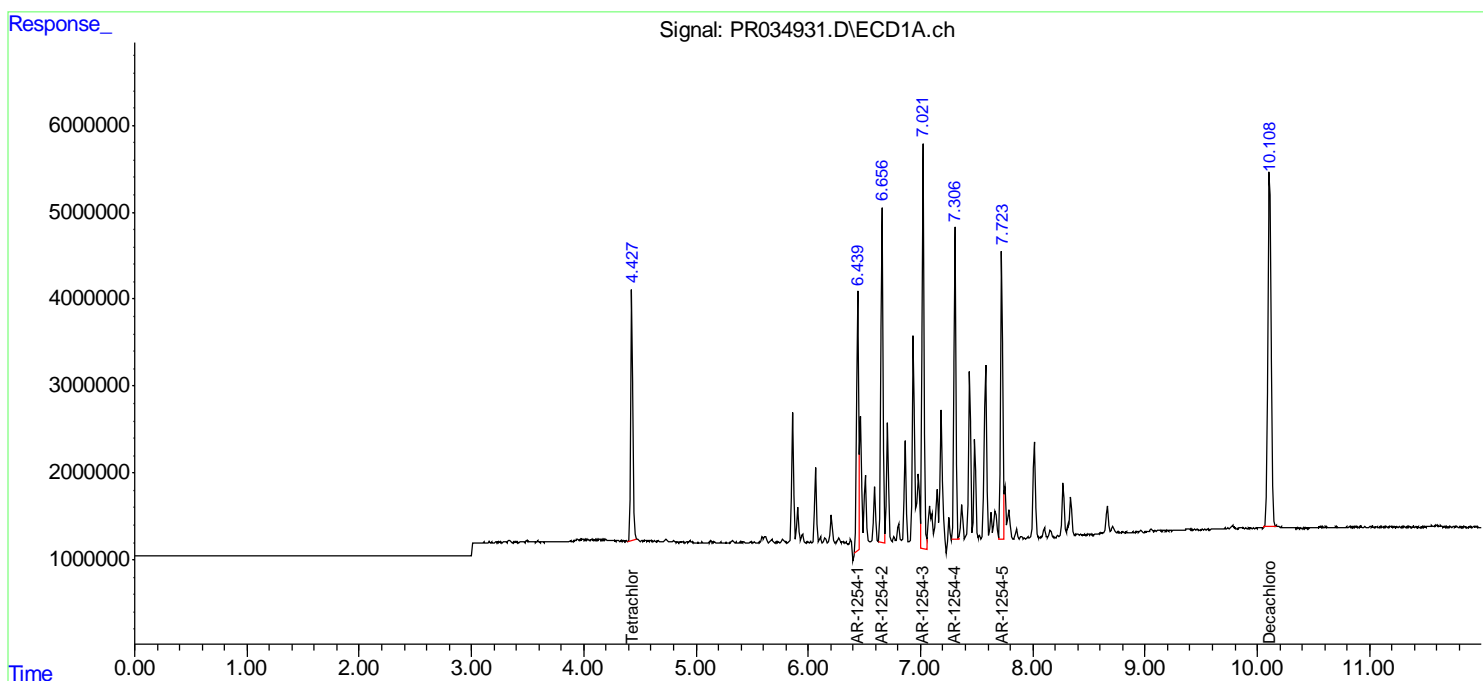
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034931.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:04
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254326

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:43:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034931.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 16:04
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254326

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:43:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.428 | 3.513 | 36529375 | 71704657 | 18.781 | 20.569 |
| 2) SA Decachlor... | 10.109 | 8.407 | 81258482 | 191.5E6 | 41.334 | 43.552 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 26) L6 AR-1254-1 | 6.440 | 5.355 | 38666133 | 101.0E6 | 473.241 | 412.780 |
| 27) L6 AR-1254-2 | 6.656 | 5.500 | 51468307 | 85292565 | 402.799 | 401.019 |
| 28) L6 AR-1254-3 | 7.022 | 5.896 | 58942989 | 146.7E6 | 436.705 | 410.497 |
| 29) L6 AR-1254-4 | 7.306 | 6.122 | 44235618 | 99826060 | 417.011 | 422.651 |
| 30) L6 AR-1254-5 | 7.723 | 6.533 | 43930361 | 135.8E6 | 410.015 | 425.666 |

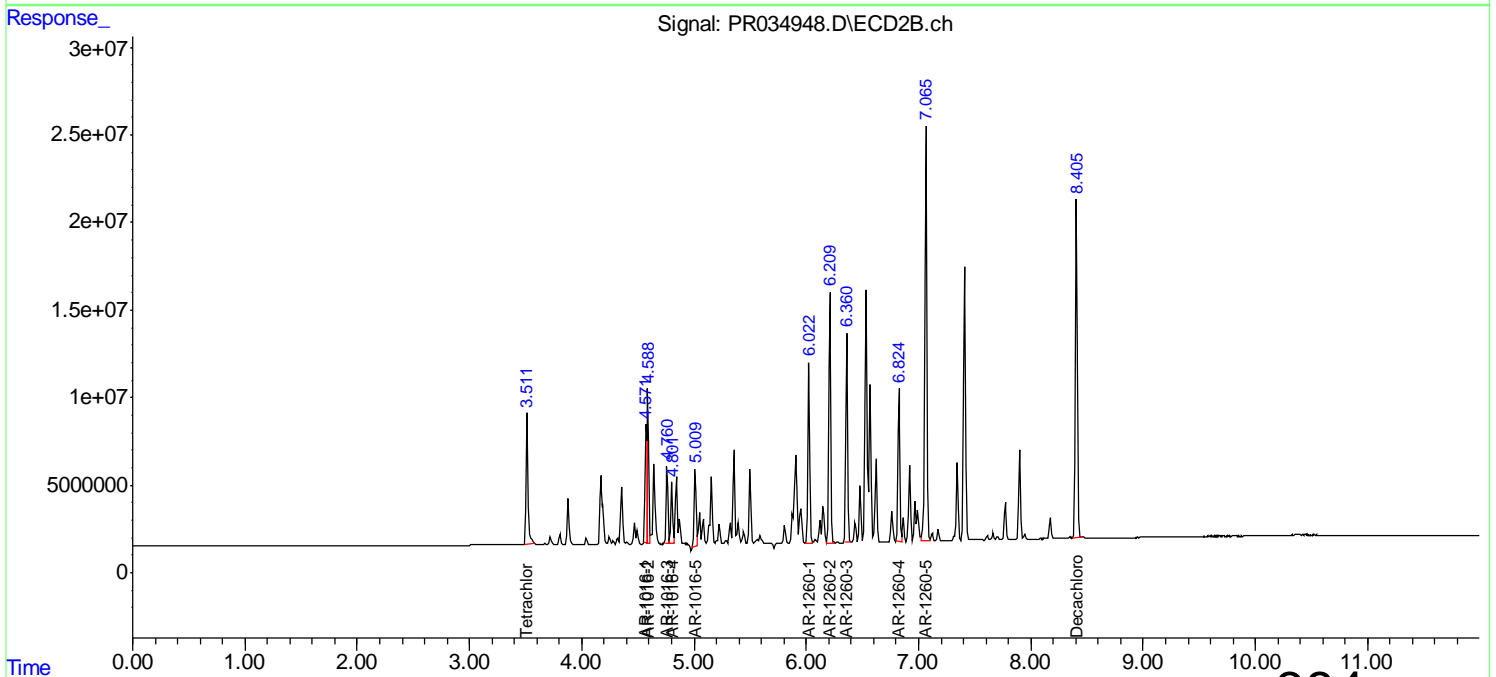
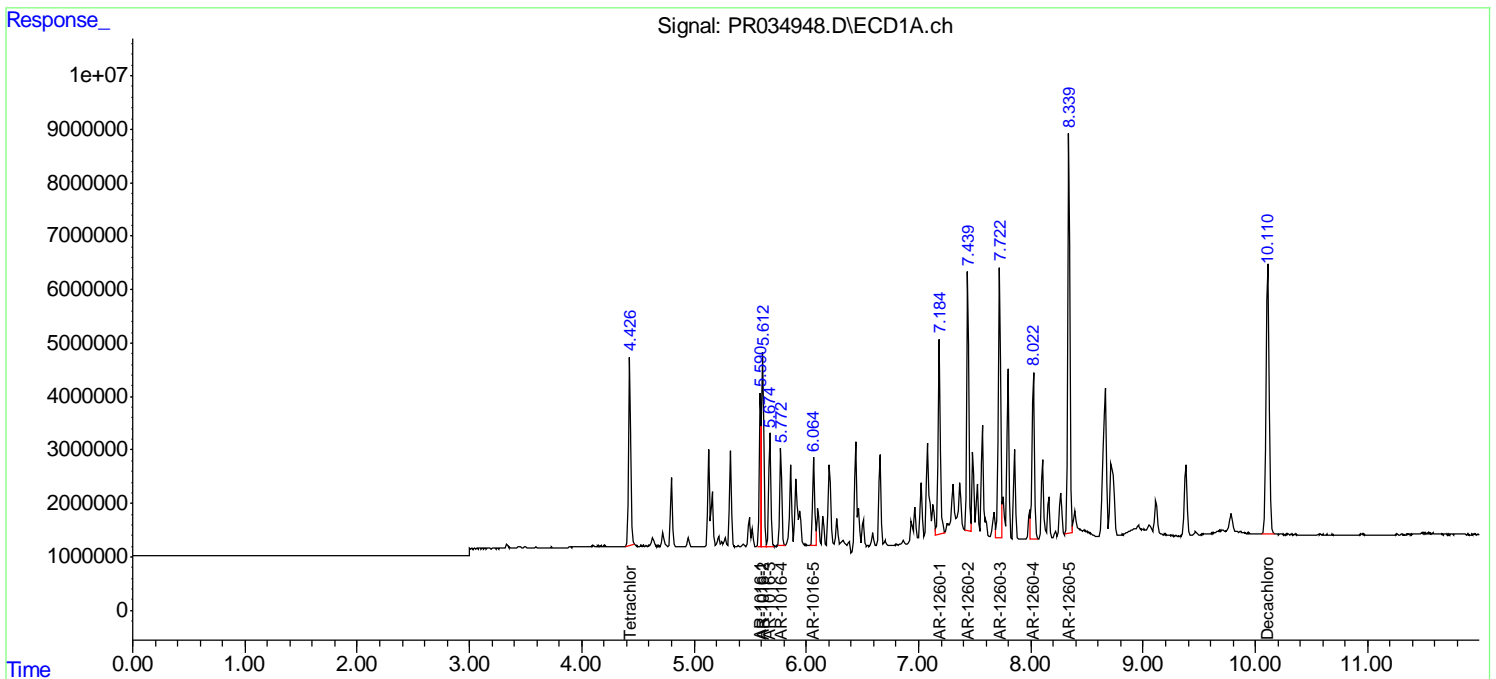
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034948.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:10
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660327

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:49:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034948.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:10
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660327

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:49:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 45444680 | 89226814 | 23.365 | 25.596 |
| 2) SA Decachlor... | 10.110 | 8.406 | 96474667 | 233.8E6 | 49.073 | 53.175 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.591 | 4.571 | 32232259 | 62165102 | 477.492 | 477.736 |
| 4) L1 AR-1016-2 | 5.613 | 4.588 | 46844131 | 95307600 | 473.044 | 482.203 |
| 5) L1 AR-1016-3 | 5.674 | 4.760 | 27653863 | 48667751 | 469.858 | 506.344 |
| 6) L1 AR-1016-4 | 5.773 | 4.801 | 23003255 | 38207469 | 484.923 | 505.731 |
| 7) L1 AR-1016-5 | 6.065 | 5.010 | 21513206 | 53718537 | 451.697 | 522.423 |
| 31) L7 AR-1260-1 | 7.184 | 6.023 | 50153017 | 113.2E6 | 533.497 | 526.466 |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 59589778 | 156.8E6 | 513.257 | 576.236 |
| 33) L7 AR-1260-3 | 7.722 | 6.360 | 73928288 | 134.4E6 | 529.738 | 541.516 |
| 34) L7 AR-1260-4 | 8.022 | 6.825 | 44687501 | 95625322 | 517.435 | 559.244 |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 96252892 | 281.3E6 | 533.098 | 581.677 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034949.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:25
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

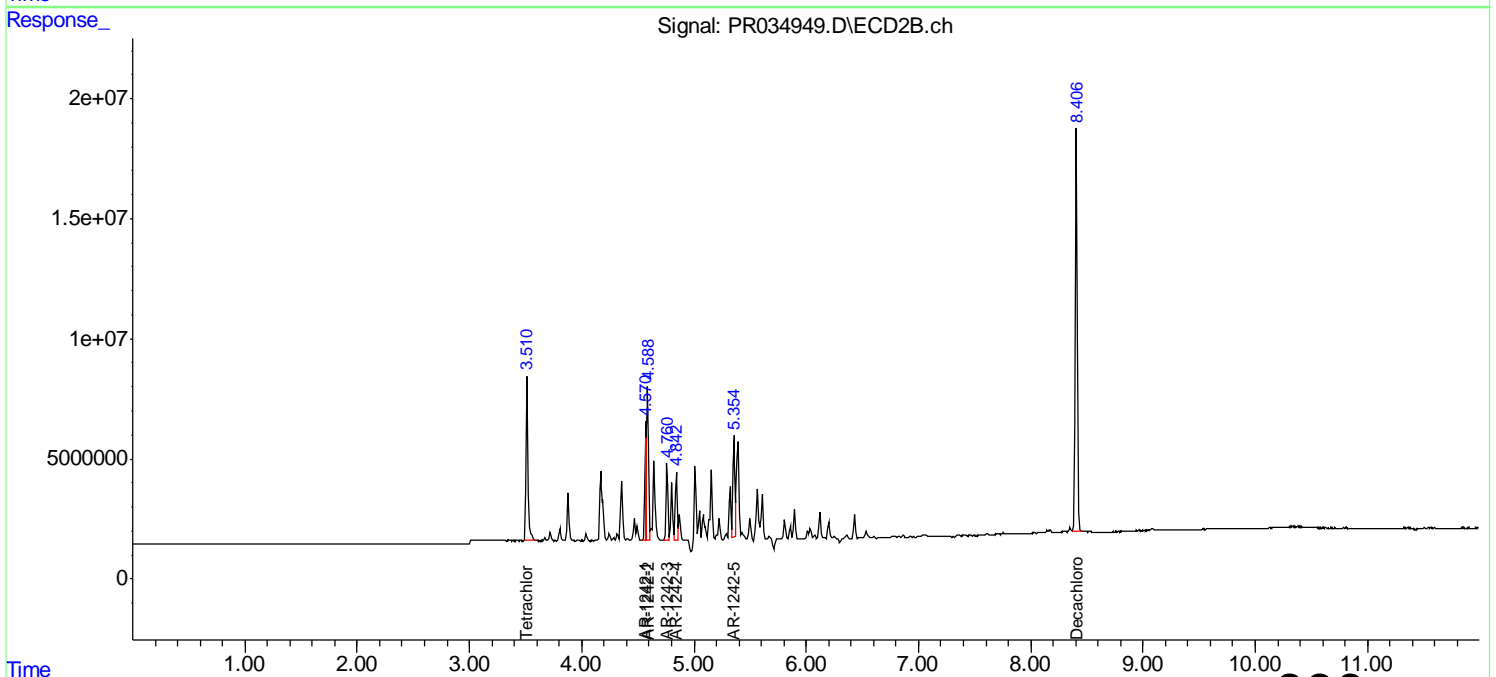
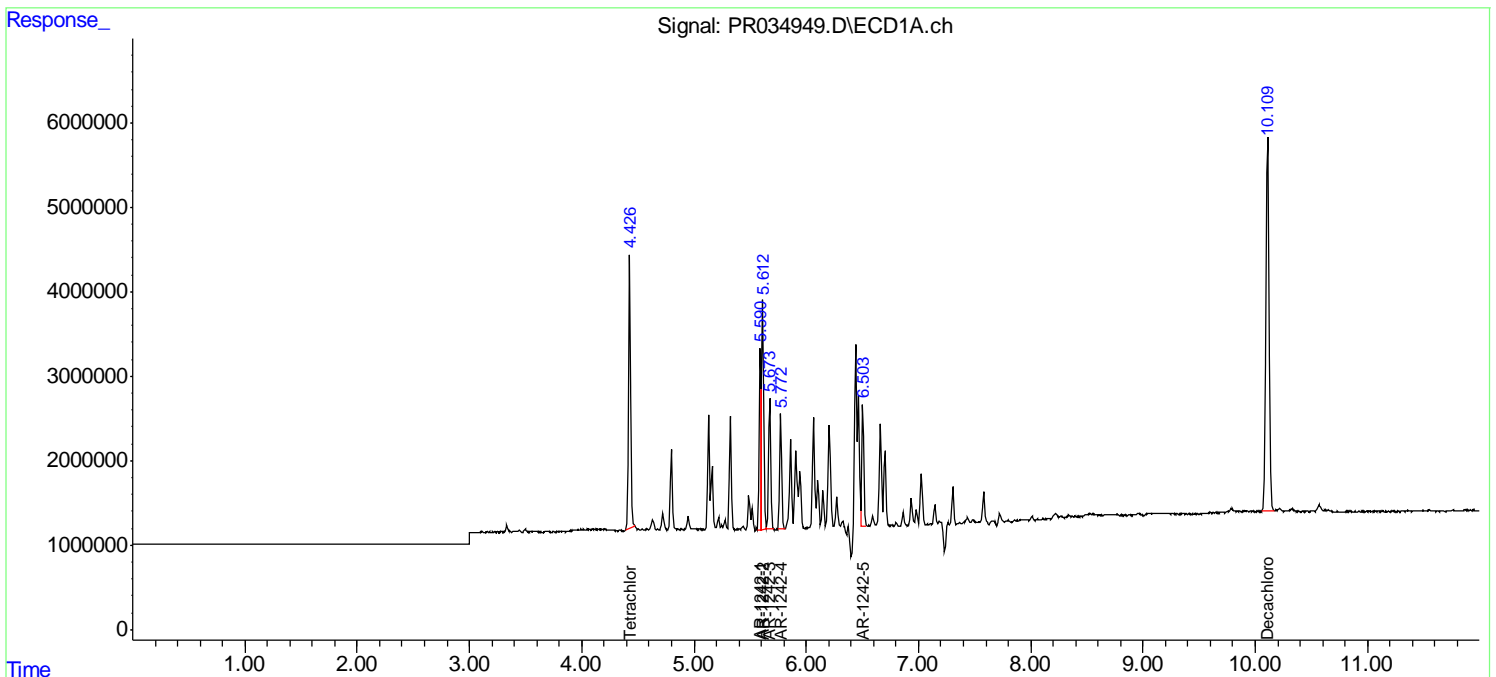
Instrument :
 ECD_R
 Client Sampled :
 AR1242327

Manual Integrations
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 12/21/2018 6:12:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 03:15:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034949.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:25
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1242327

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:12:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 03:15:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 41083586 | 81765240 | 21.122 | 23.455 |
| 2) SA Decachlor... | 10.109 | 8.406 | 86808128 | 208.3E6 | 44.156 | 47.382 |
| Target Compounds | | | | | | |
| 16) L4 AR-1242-1 | 5.591 | 4.571 | 23860299 | 45802882 | 411.358 | 403.502 |
| 17) L4 AR-1242-2 | 5.612 | 4.588 | 35072859 | 69956343 | 414.361 | 409.753 |
| 18) L4 AR-1242-3 | 5.674 | 4.760 | 20517167 | 34800719 | 409.437 | 410.719 |
| 19) L4 AR-1242-4 | 5.773 | 4.842 | 17053018 | 33718808 | 417.308 | 407.837 |
| 20) L4 AR-1242-5 | 6.503 | 5.354 | 18323448 | 44413826 | 397.826m | 399.314 |
| ----- | | | | | | |

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

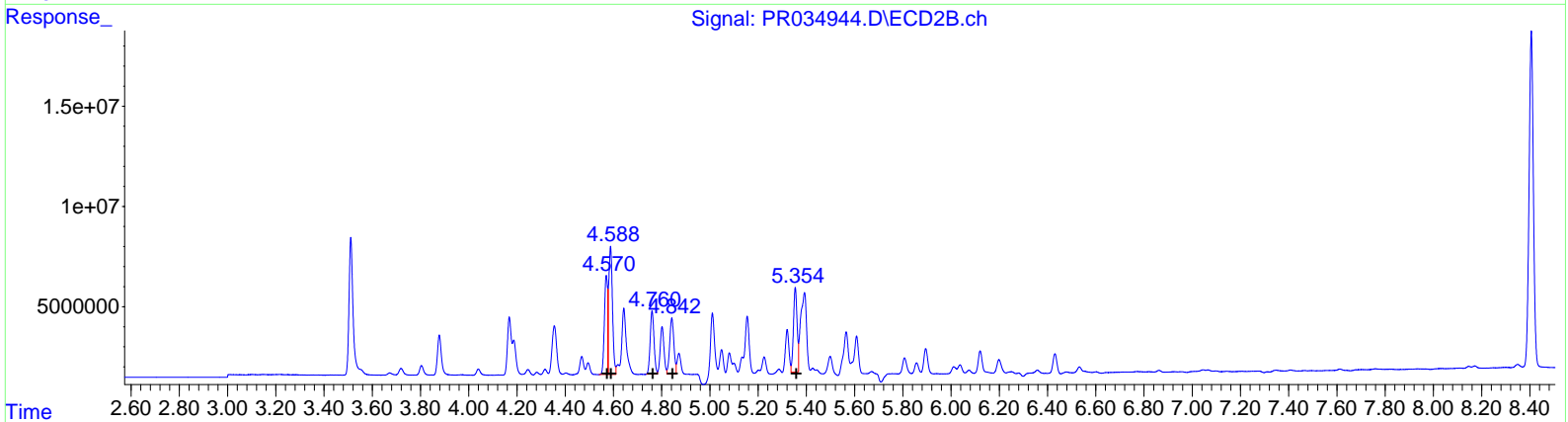
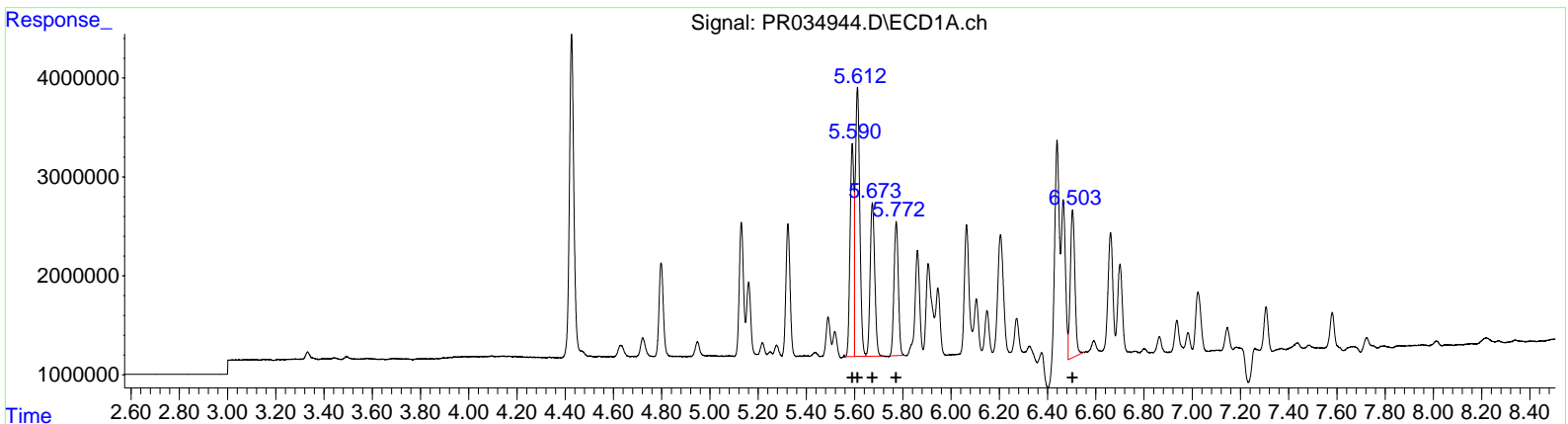
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034949.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:25
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1242327

Manual Integrations
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 12/21/2018 6:12:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 03:15:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (16) AR-1242-1 (L4) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 5.59 | 23860299 | 411.36 |
| 5.61 | 35072859 | 414.36 |
| 5.67 | 20517167 | 409.44 |
| 5.77 | 17053018 | 417.31 |
| 6.50 | 19813053 | 430.17 |
| (16) AR-1242-1 #2 (L4) | | |
| R.T. | Response | Conc |
| 4.57 | 45802882 | 403.50 |
| 4.59 | 69956343 | 409.75 |
| 4.76 | 34800719 | 410.72 |
| 4.84 | 33718808 | 407.84 |
| 5.35 | 44413826 | 399.31 |

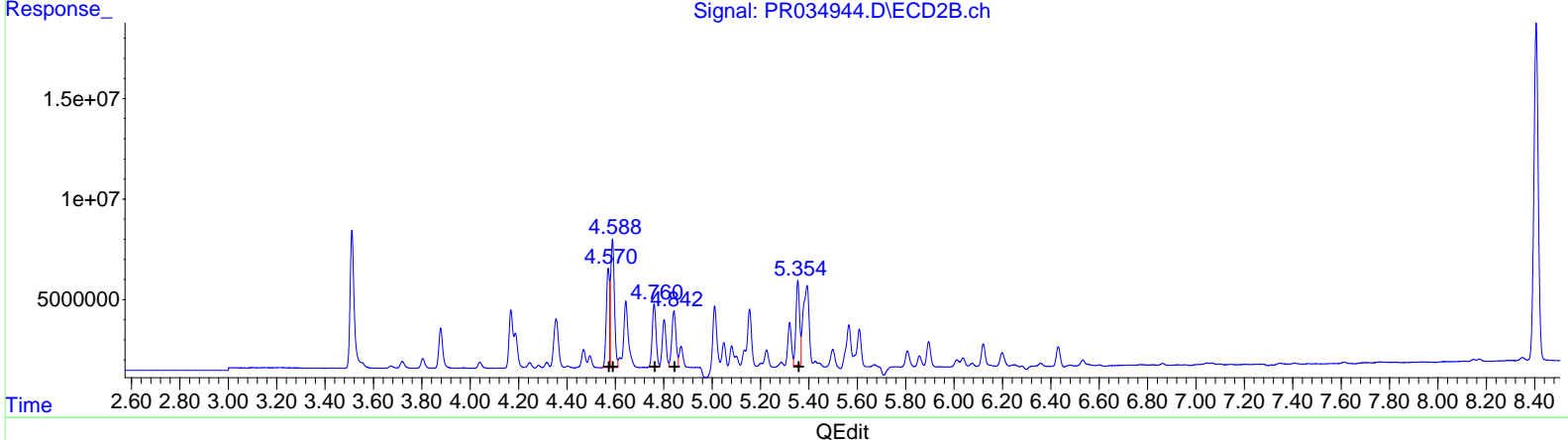
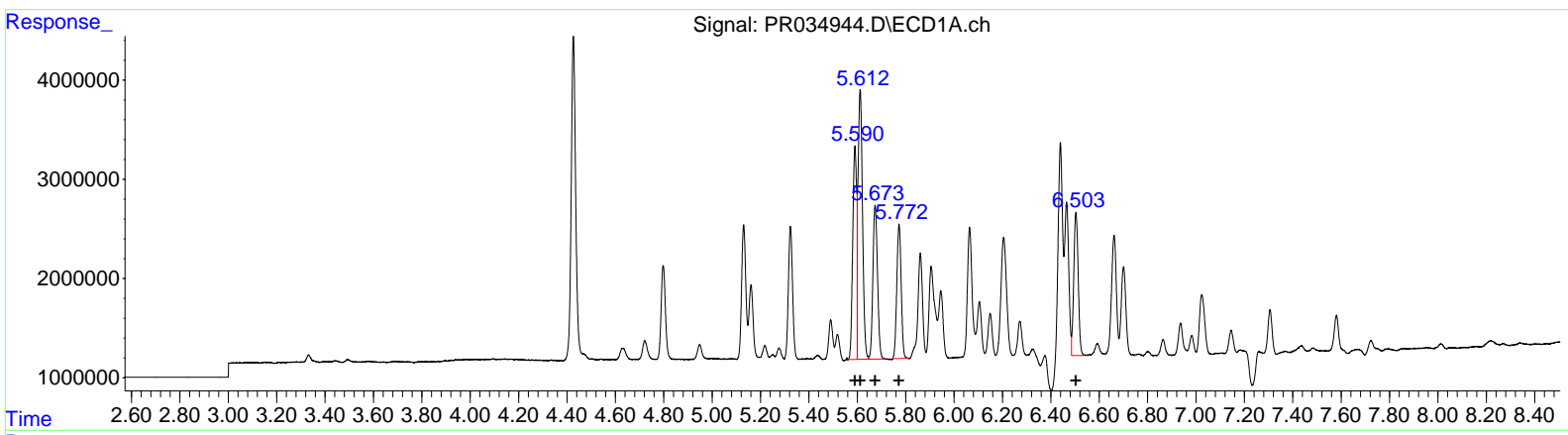
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034949.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:25
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1242327

Manual Integrations
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 Sohil
 12/21/2018 6:12:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 03:15:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (16) AR-1242-1 (L4) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 5.59 | 23860299 | 411.36 |
| 5.61 | 35072859 | 414.36 |
| 5.67 | 20517167 | 409.44 |
| 5.77 | 17053018 | 417.31 |
| 6.50 | 18323448 | 397.83 |
| (16) AR-1242-1 #2 (L4) | | |
| R.T. | Response | Conc |
| 4.57 | 45802882 | 403.50 |
| 4.59 | 69956343 | 409.75 |
| 4.76 | 34800719 | 410.72 |
| 4.84 | 33718808 | 407.84 |
| 5.35 | 44413826 | 399.31 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034949.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:25
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1242327

Manual Integrations
APPROVED

Sohil
 12/21/2018 6:12:01 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 03:15:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.427 | 3.511 | 41083586 | 81765240 | 21.122 | 23.455 |
| 2) SA Decachlor... | 10.109 | 8.406 | 86808128 | 208.3E6 | 44.156 | 47.382 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|----------|---------|
| 16) L4 AR-1242-1 | 5.591 | 4.571 | 23860299 | 45802882 | 411.358 | 403.502 |
| 17) L4 AR-1242-2 | 5.612 | 4.588 | 35072859 | 69956343 | 414.361 | 409.753 |
| 18) L4 AR-1242-3 | 5.674 | 4.760 | 20517167 | 34800719 | 409.437 | 410.719 |
| 19) L4 AR-1242-4 | 5.773 | 4.842 | 17053018 | 33718808 | 417.308 | 407.837 |
| 20) L4 AR-1242-5 | 6.503 | 5.354 | 18323448 | 44413826 | 397.826m | 399.314 |

> SJ
 12/28/18

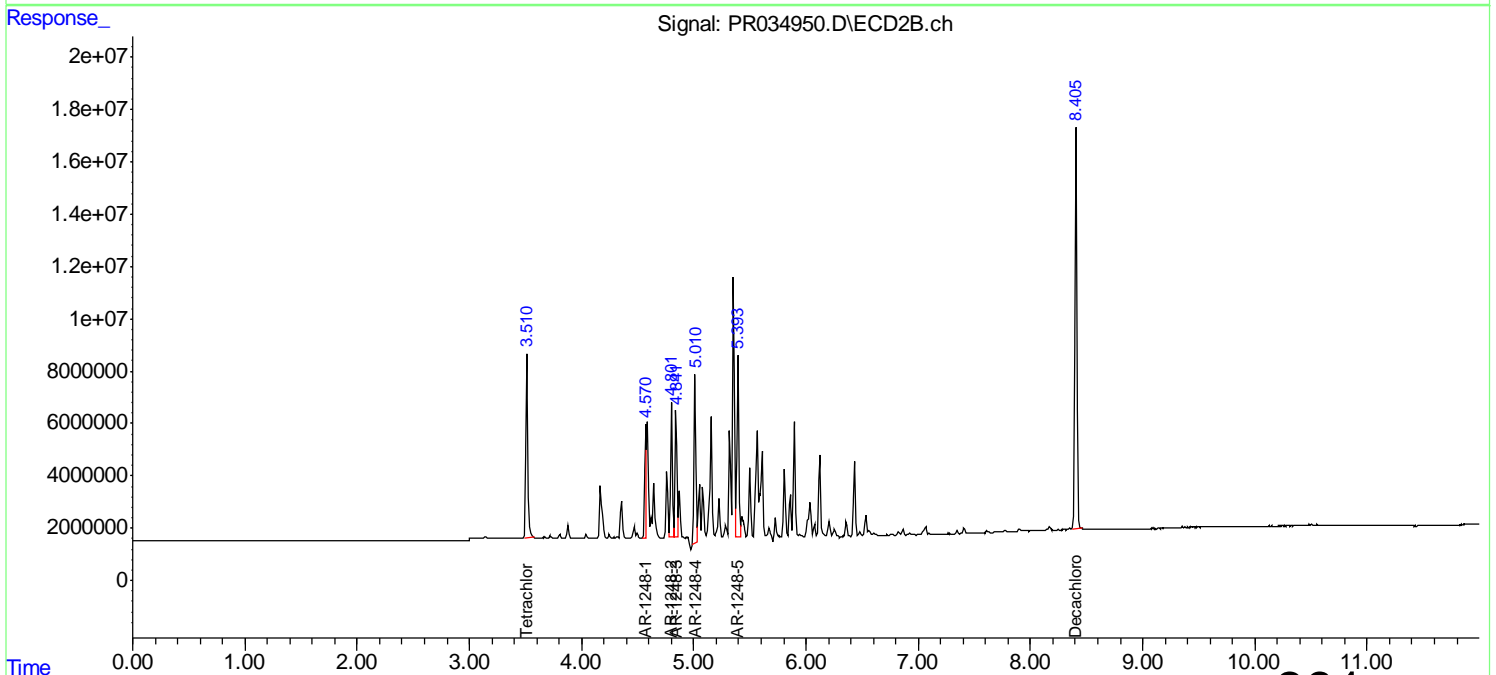
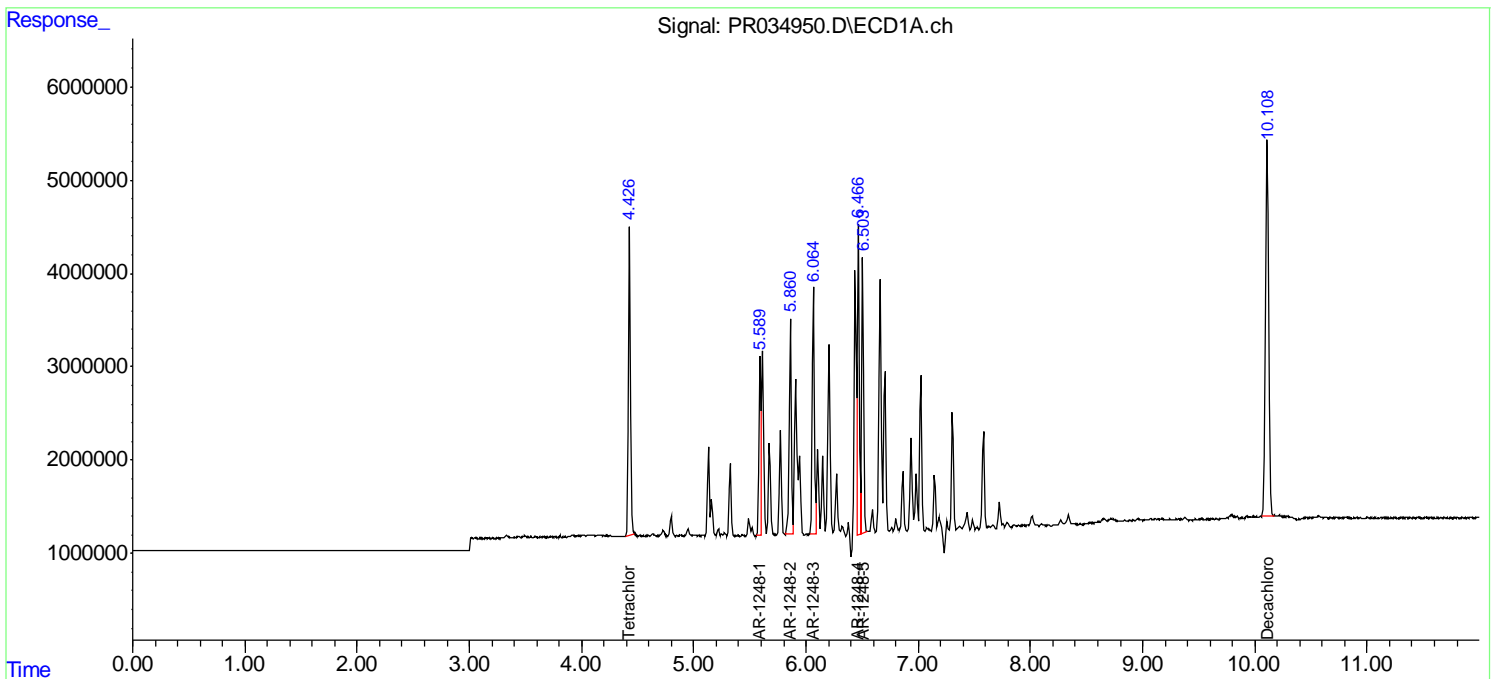
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034950.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:39
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248327

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 03:26:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034950.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:39
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248327

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 03:26:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.510 | 42335814 | 82606191 | 21.766 | 23.696 |
| 2) SA Decachlor... | 10.109 | 8.406 | 80159743 | 191.4E6 | 40.775 | 43.532 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.570 | 22107601 | 42450882 | 455.614 | 435.386 |
| 22) L5 AR-1248-2 | 5.860 | 4.802 | 29461021 | 55330437 | 445.883 | 431.923 |
| 23) L5 AR-1248-3 | 6.064 | 4.842 | 33621048 | 57052417 | 449.991 | 432.290 |
| 24) L5 AR-1248-4 | 6.466 | 5.010 | 40718158 | 74981390 | 455.736 | 455.730 |
| 25) L5 AR-1248-5 | 6.505 | 5.394 | 37464042 | 80900523 | 447.769 | 483.405 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034951.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:53
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

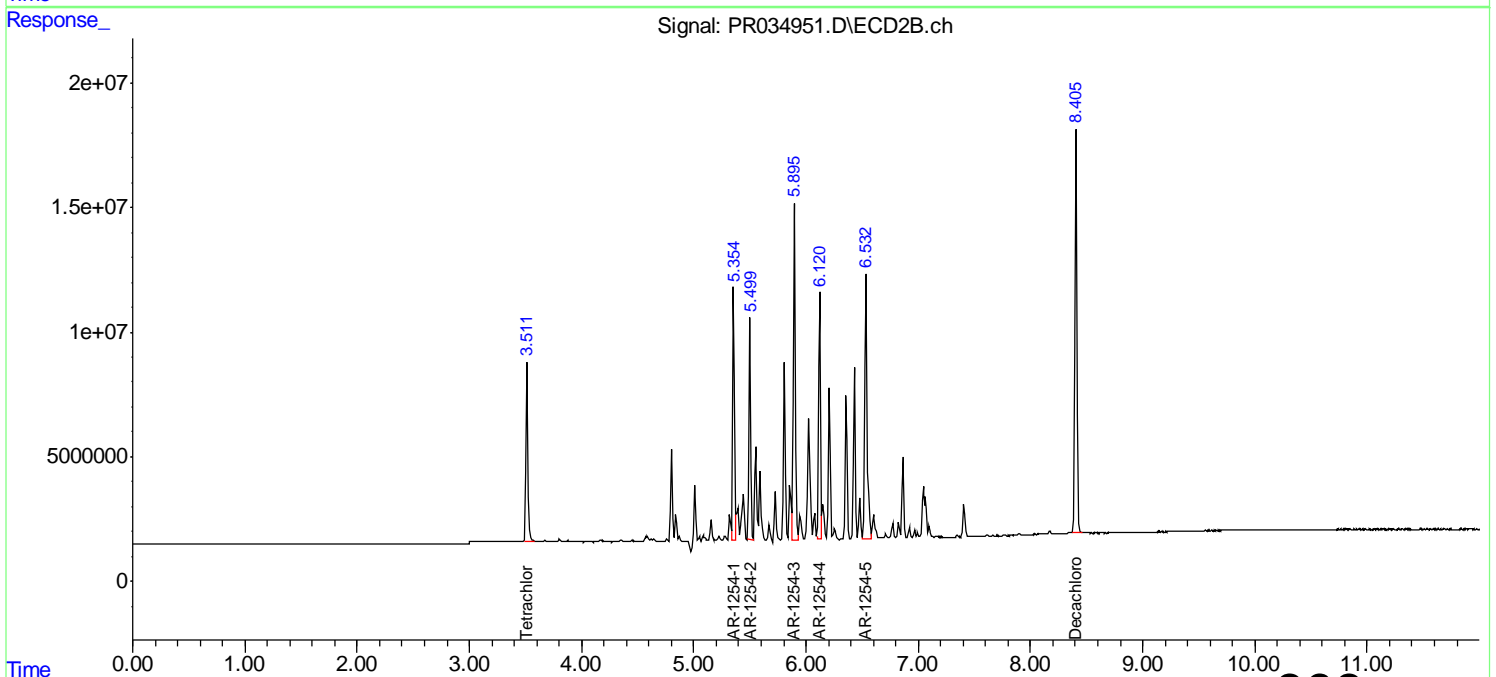
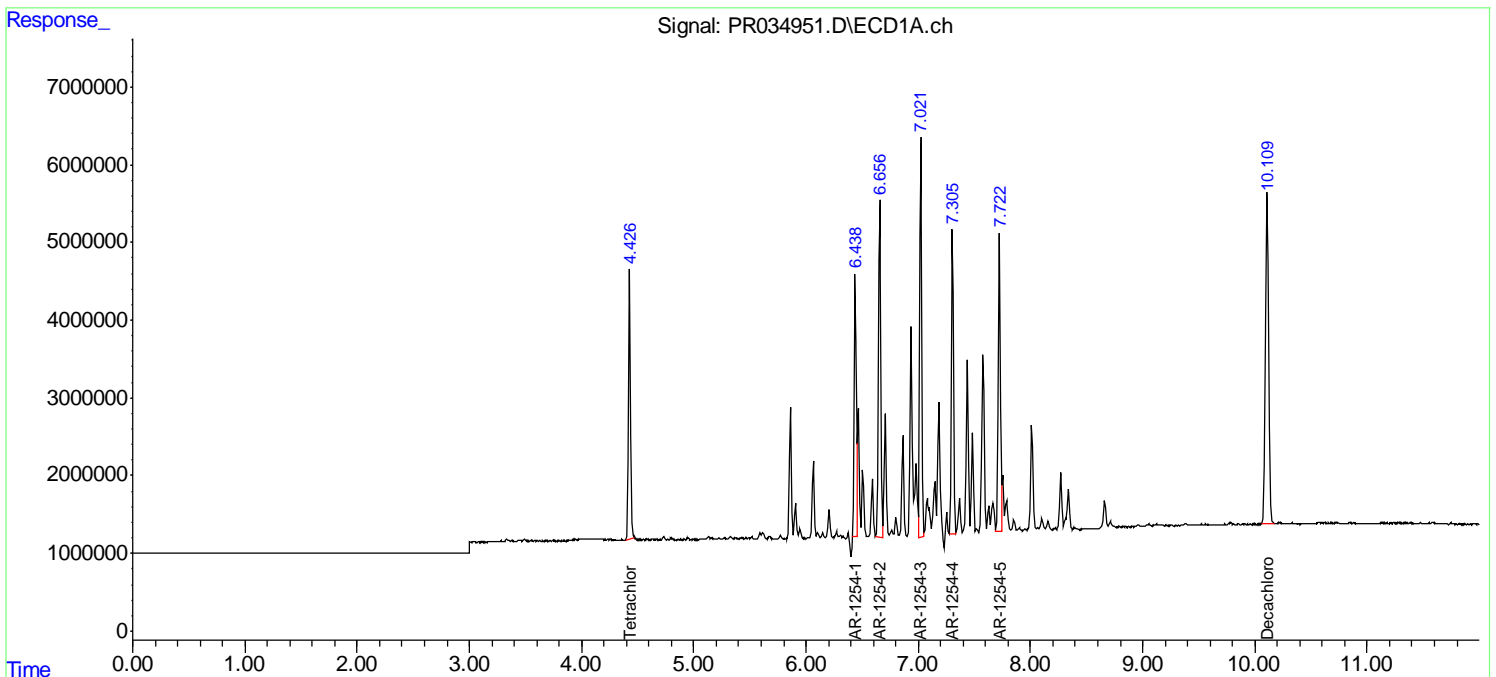
Instrument :
 ECD_R
 ClientSampled :
 AR1254327

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:12:02 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:50:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034951.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:53
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1254327

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:12:02 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:50:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 42640446 | 83843932 | 21.923 | 24.051 |
| 2) SA Decachlor... | 10.109 | 8.405 | 84505052 | 203.8E6 | 42.985 | 46.342 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.438 | 5.354 | 42396088 | 112.4E6 | 518.892m | 459.428 |
| 27) L6 AR-1254-2 | 6.656 | 5.499 | 59481344 | 94383514 | 465.510 | 443.762 |
| 28) L6 AR-1254-3 | 7.021 | 5.896 | 64906285 | 163.6E6 | 480.887m | 457.792 |
| 29) L6 AR-1254-4 | 7.306 | 6.121 | 49771287 | 111.3E6 | 469.196 | 471.320 |
| 30) L6 AR-1254-5 | 7.723 | 6.533 | 51027840 | 151.5E6 | 476.258 | 474.864 |
| ----- | | | | | | |

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

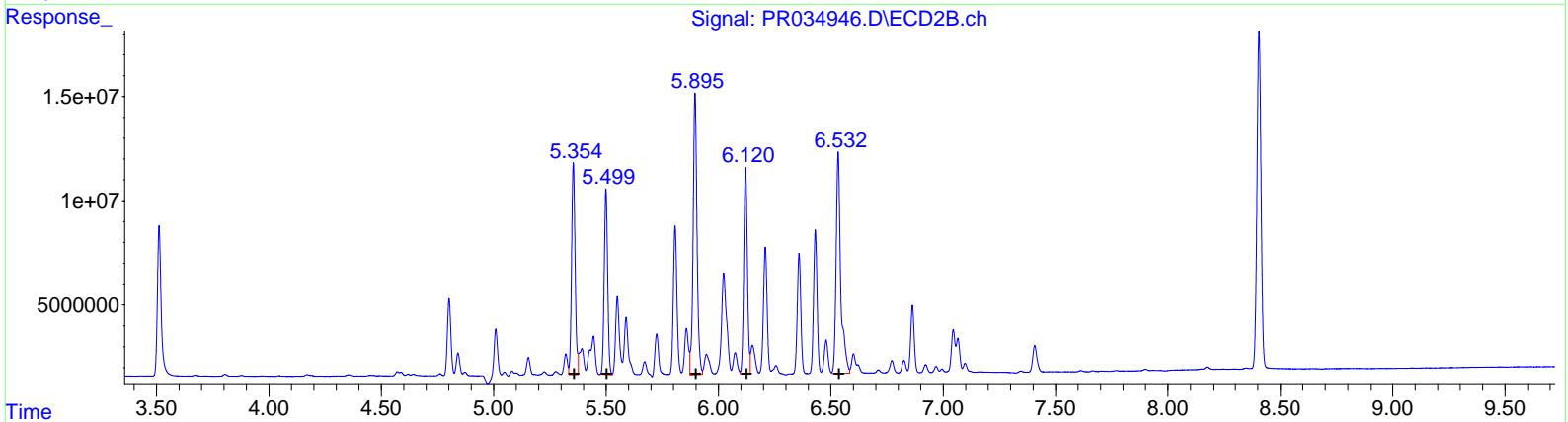
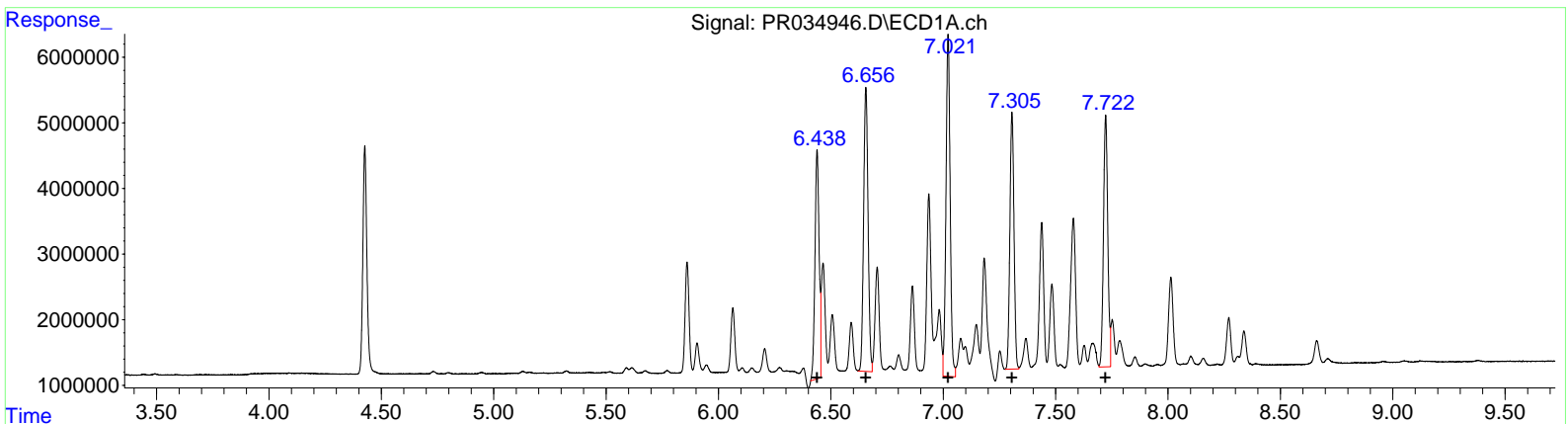
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034951.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:53
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1254327

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:12:02 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:50:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.44 | 44793772 | 548.24 |
| 6.66 | 59481344 | 465.51 |
| 7.02 | 67364604 | 499.10 |
| 7.31 | 49771287 | 469.20 |
| 7.72 | 51027840 | 476.26 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|--------|
| 5.35 | 112419226 | 459.43 |
| 5.50 | 94383514 | 443.76 |
| 5.90 | 163577435 | 457.79 |
| 6.12 | 111321242 | 471.32 |
| 6.53 | 151454016 | 474.86 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034951.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:53
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

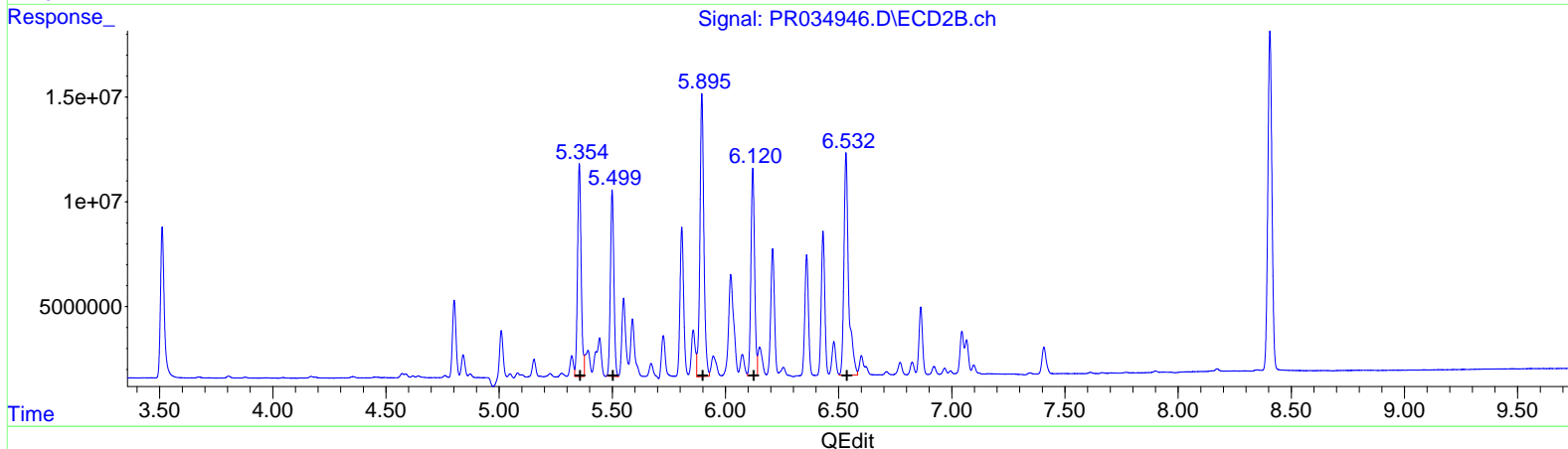
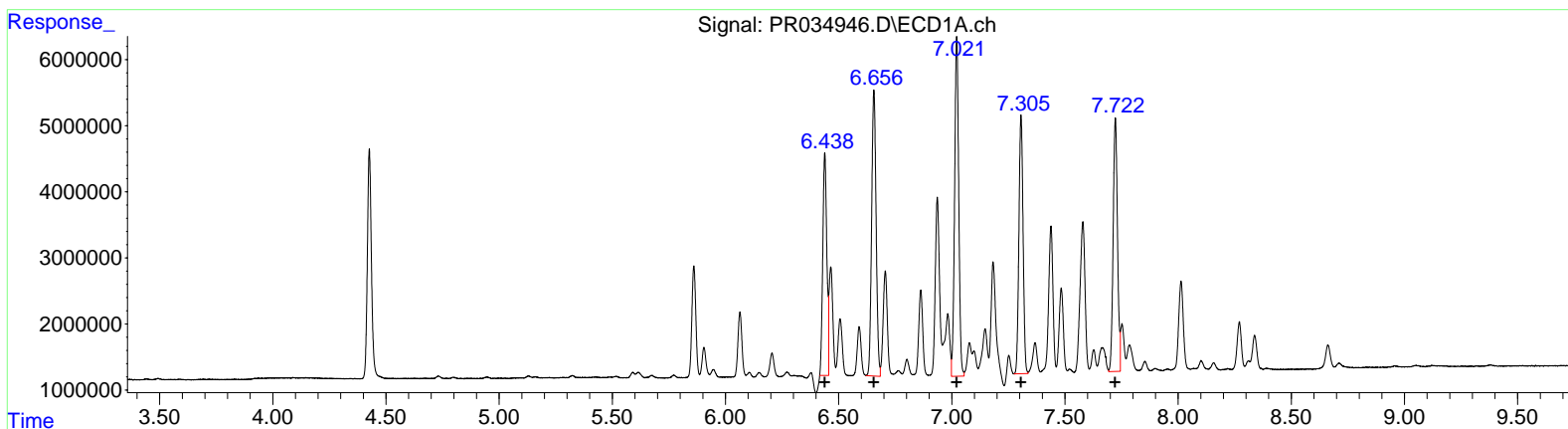
Instrument :
 ECD_R
 ClientSampled :
 AR1254327

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:12:02 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:50:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 6.44 | 42396088 | 518.89 |
| 6.66 | 59481344 | 465.51 |
| 7.02 | 64906285 | 480.89 |
| 7.31 | 49771287 | 469.20 |
| 7.72 | 51027840 | 476.26 |
| (26) AR-1254-1 #2 (L6) | | |
| R.T. | Response | Conc |
| 5.35 | 112419226 | 459.43 |
| 5.50 | 94383514 | 443.76 |
| 5.90 | 163577435 | 457.79 |
| 6.12 | 111321242 | 471.32 |
| 6.53 | 151454016 | 474.86 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034951.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 20:53
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1254327

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:50:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:12:02 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 42640446 | 83843932 | 21.923 | 24.051 |
| 2) SA Decachlor... | 10.109 | 8.405 | 84505052 | 203.8E6 | 42.985 | 46.342 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.438 | 5.354 | 42396088 | 112.4E6 | 518.892m | 459.428 |
| 27) L6 AR-1254-2 | 6.656 | 5.499 | 59481344 | 94383514 | 465.510 | 443.762 |
| 28) L6 AR-1254-3 | 7.021 | 5.896 | 64906285 | 163.6E6 | 480.887m | 457.792 |
| 29) L6 AR-1254-4 | 7.306 | 6.121 | 49771287 | 111.3E6 | 469.196 | 471.320 |
| 30) L6 AR-1254-5 | 7.723 | 6.533 | 51027840 | 151.5E6 | 476.258 | 474.864 |

} SJ
 12/26/18

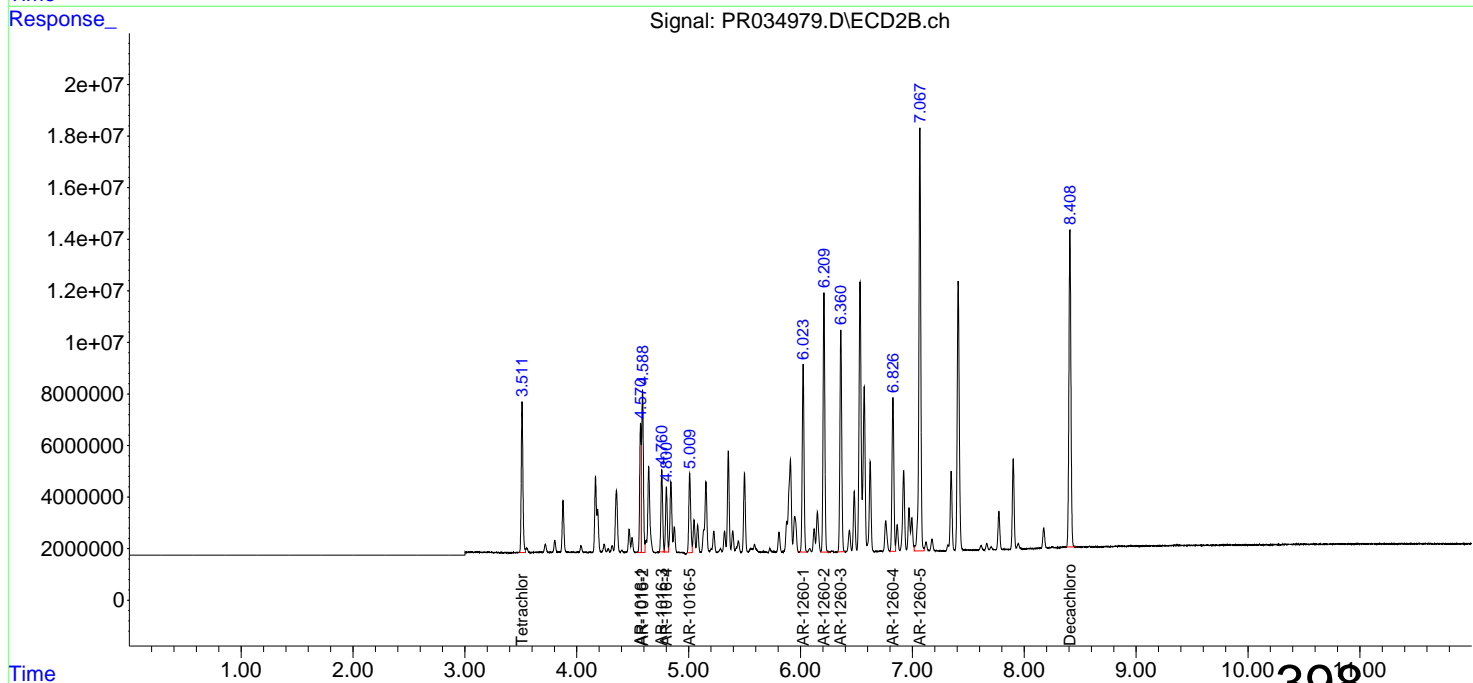
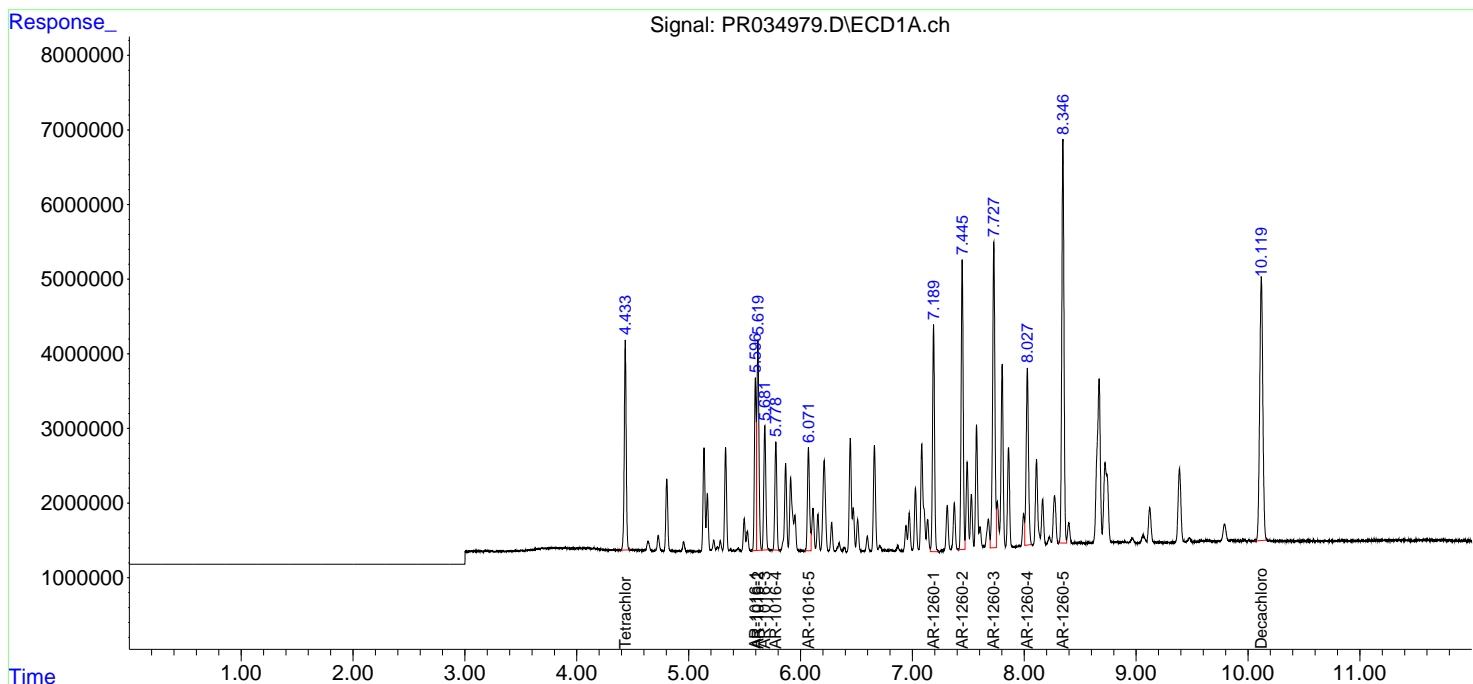
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034979.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660329

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:49:53 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034979.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660329

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:49:53 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.433 | 3.511 | 33900985 | 60931608 | 17.430 | 17.479 |
| 2) SA Decachlor... | 10.119 | 8.408 | 68917692 | 153.4E6 | 35.056 | 34.894 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.596 | 4.570 | 25454480 | 46090850 | 377.086 | 354.206 |
| 4) L1 AR-1016-2 | 5.619 | 4.588 | 36007882 | 67816443 | 363.617 | 343.113 |
| 5) L1 AR-1016-3 | 5.681 | 4.760 | 21432502 | 34561126 | 364.153 | 359.577 |
| 6) L1 AR-1016-4 | 5.780 | 4.801 | 18056857 | 26798837 | 380.650 | 354.721 |
| 7) L1 AR-1016-5 | 6.071 | 5.009 | 18373283 | 36207639 | 385.770 | 352.126 |
| 31) L7 AR-1260-1 | 7.190 | 6.024 | 37890460 | 81349442 | 403.056 | 378.418 |
| 32) L7 AR-1260-2 | 7.445 | 6.210 | 48949221 | 110.5E6 | 421.608 | 405.968 |
| 33) L7 AR-1260-3 | 7.728 | 6.360 | 58718841 | 97575726 | 420.753 | 393.077 |
| 34) L7 AR-1260-4 | 8.028 | 6.827 | 34665091 | 69570621 | 401.386 | 406.869 |
| 35) L7 AR-1260-5 | 8.346 | 7.067 | 74273867 | 196.3E6 | 411.367 | 405.847 |

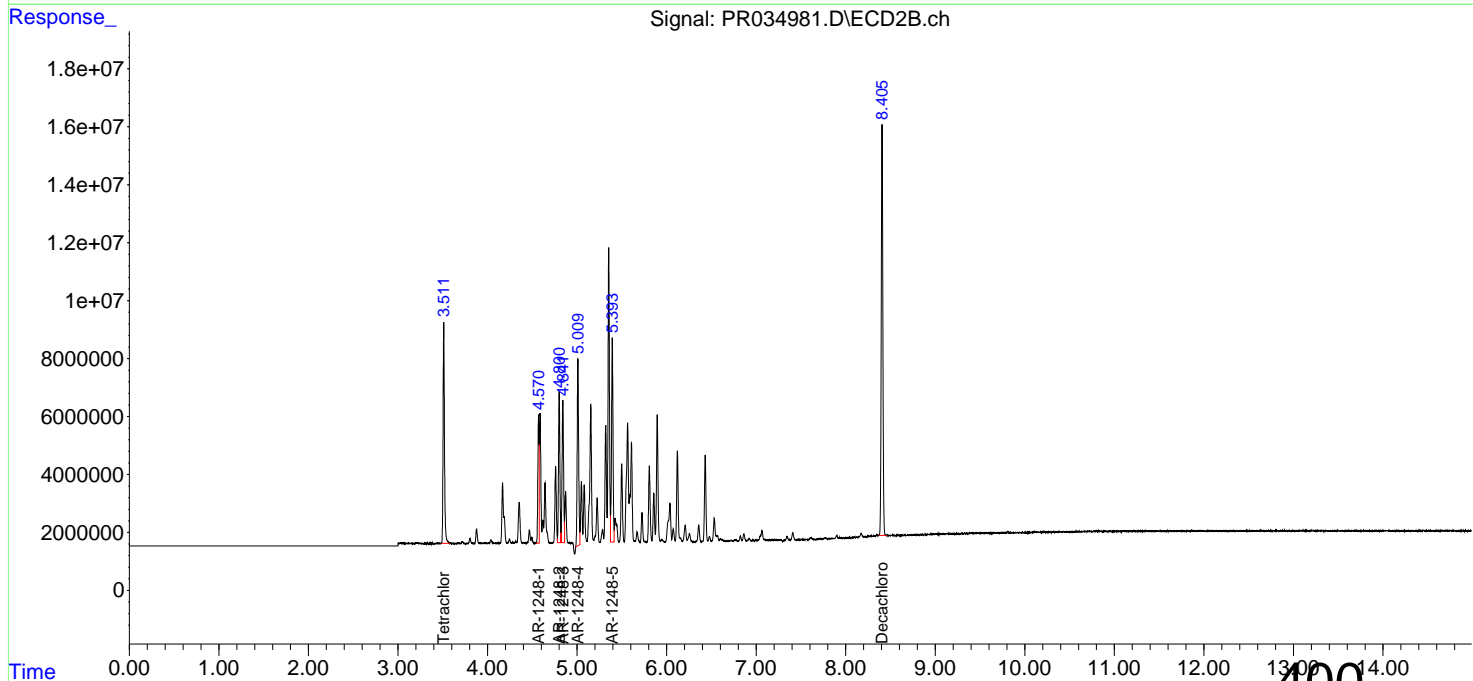
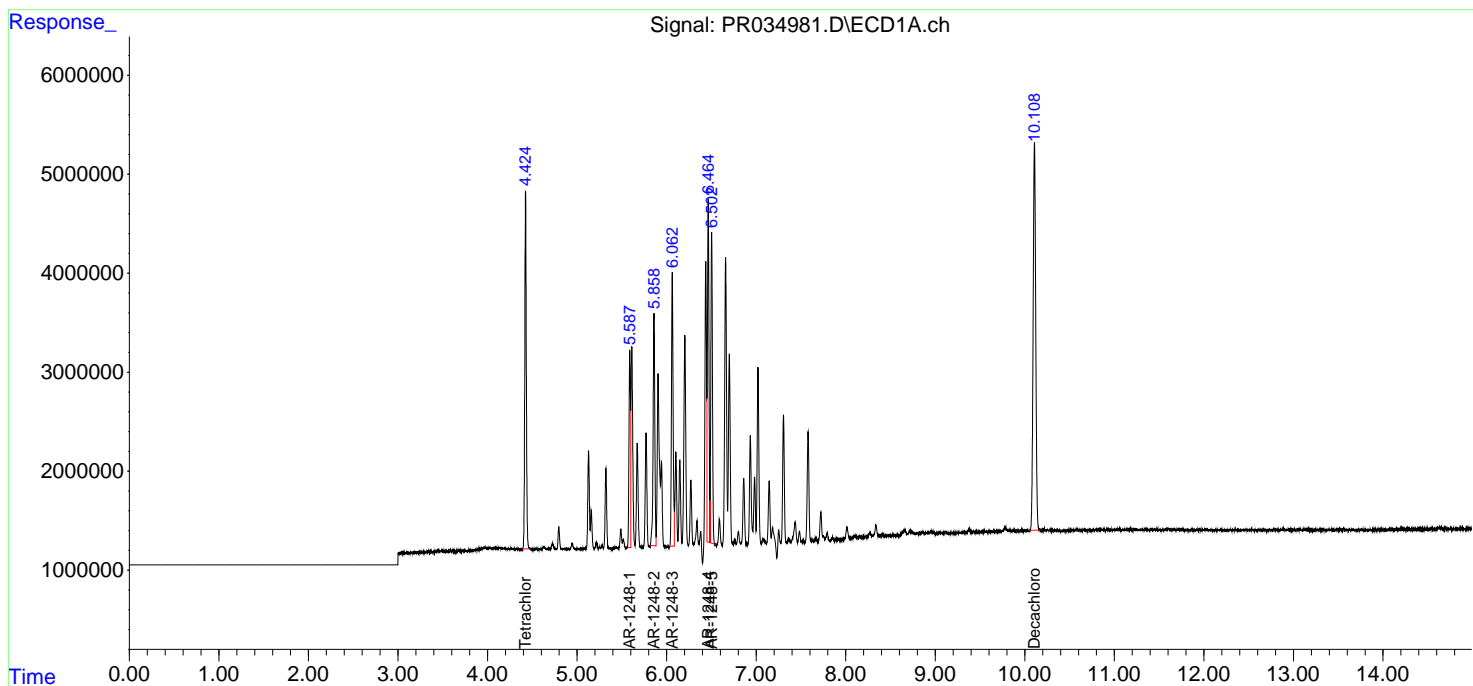
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034981.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 17:02
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AR1248329

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



400

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034981.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 17:02
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248329

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 43643761 | 84113860 | 22.439 | 24.129 |
| 2) SA Decachlor... | 10.108 | 8.406 | 78439716 | 176.6E6 | 39.900 | 40.174 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.588 | 4.570 | 23219067 | 43369728 | 478.520 | 444.810 |
| 22) L5 AR-1248-2 | 5.859 | 4.801 | 30672531 | 55516499 | 464.218 | 433.376 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 35295893 | 57104702 | 472.408 | 432.686 |
| 24) L5 AR-1248-4 | 6.464 | 5.009 | 42244018 | 72889032 | 472.814 | 443.013 |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 39257431 | 79974535 | 469.204 | 477.872 |
| ----- | | | | | | |

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

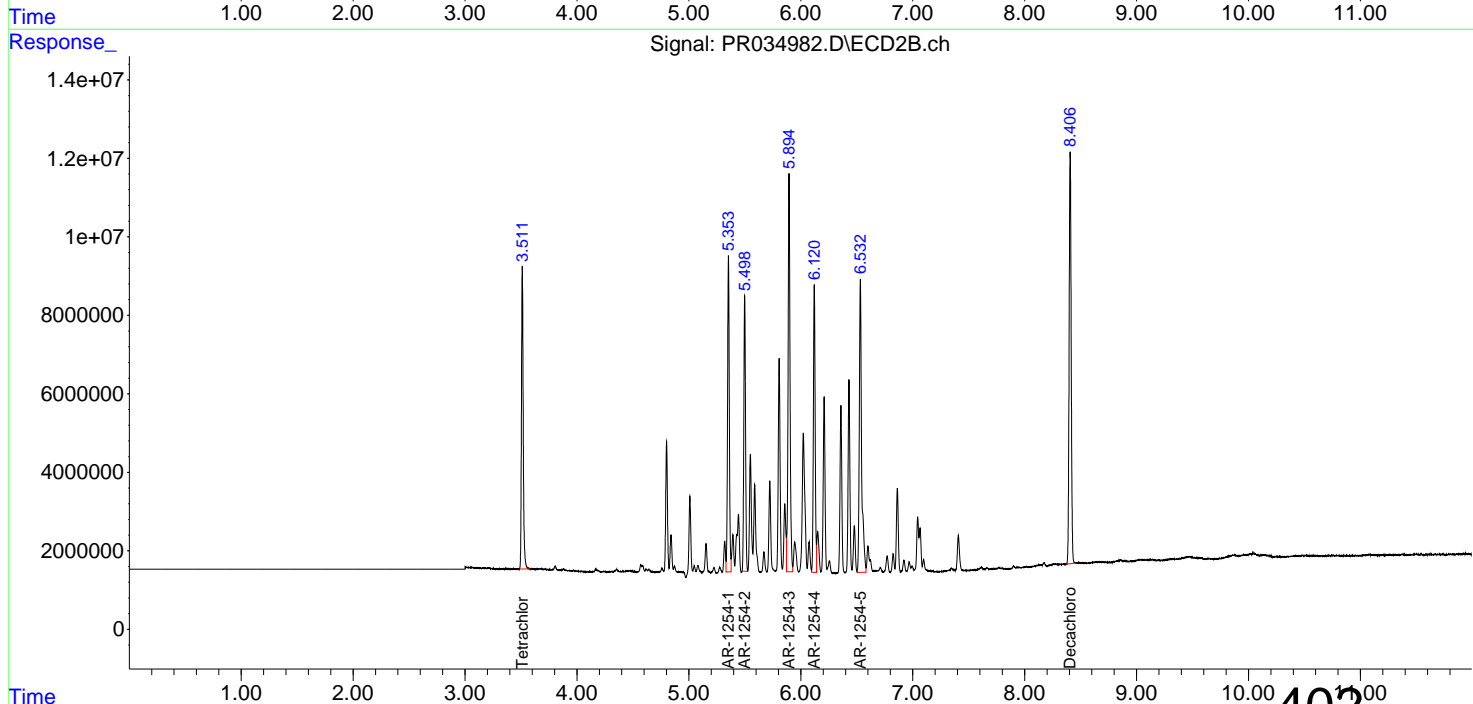
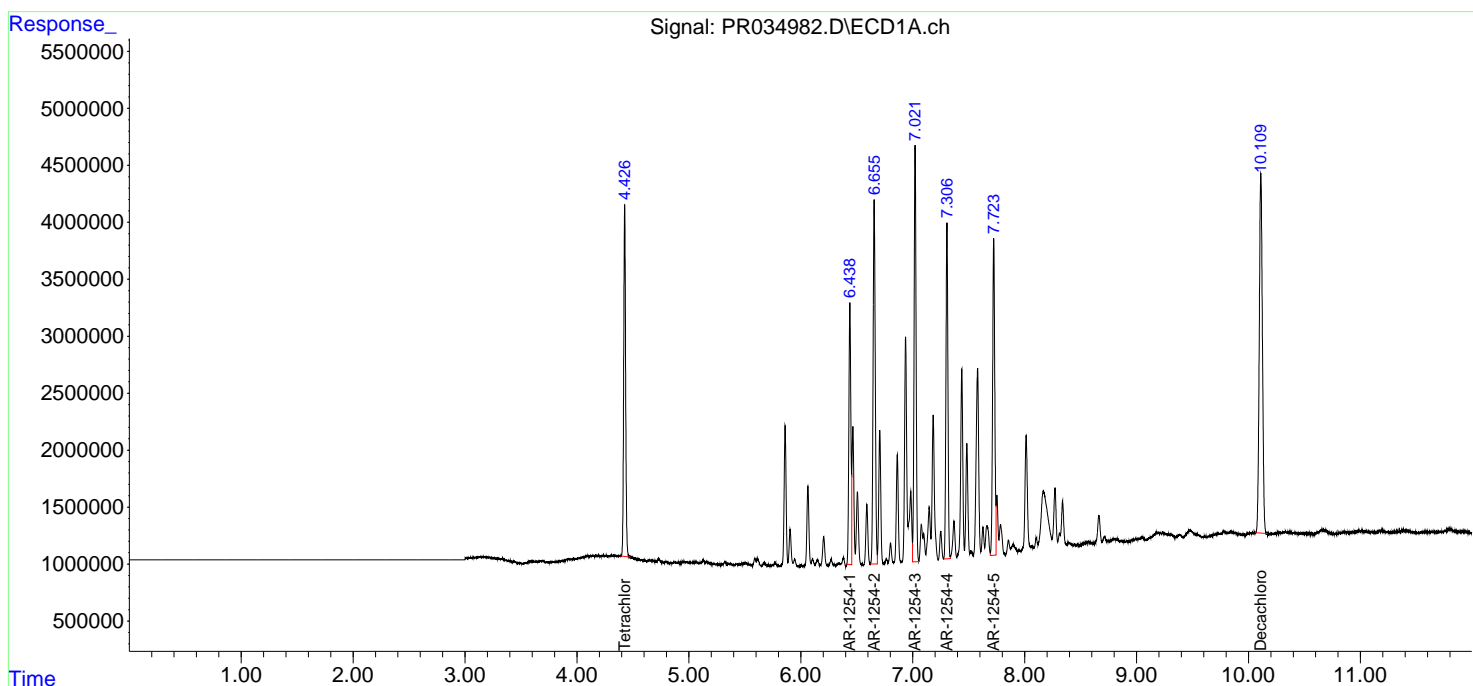
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034982.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 17:51
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254329

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:01 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034982.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 17:51
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1254329

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:01 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 37002722 | 83234132 | 19.024 | 23.876 # |
| 2) SA Decachlor... | 10.110 | 8.407 | 61580551 | 134.3E6 | 31.324 | 30.537 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.438 | 5.353 | 28413216 | 87185922 | 347.754m | 356.306 |
| 27) L6 AR-1254-2 | 6.655 | 5.498 | 43207269 | 75014225 | 338.147 | 352.694 |
| 28) L6 AR-1254-3 | 7.021 | 5.895 | 45529530 | 122.6E6 | 337.326 | 343.211 |
| 29) L6 AR-1254-4 | 7.306 | 6.120 | 36446170 | 81403995 | 343.579 | 344.654 |
| 30) L6 AR-1254-5 | 7.724 | 6.532 | 37304983 | 106.9E6 | 348.178 | 335.141 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034982.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 17:51
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

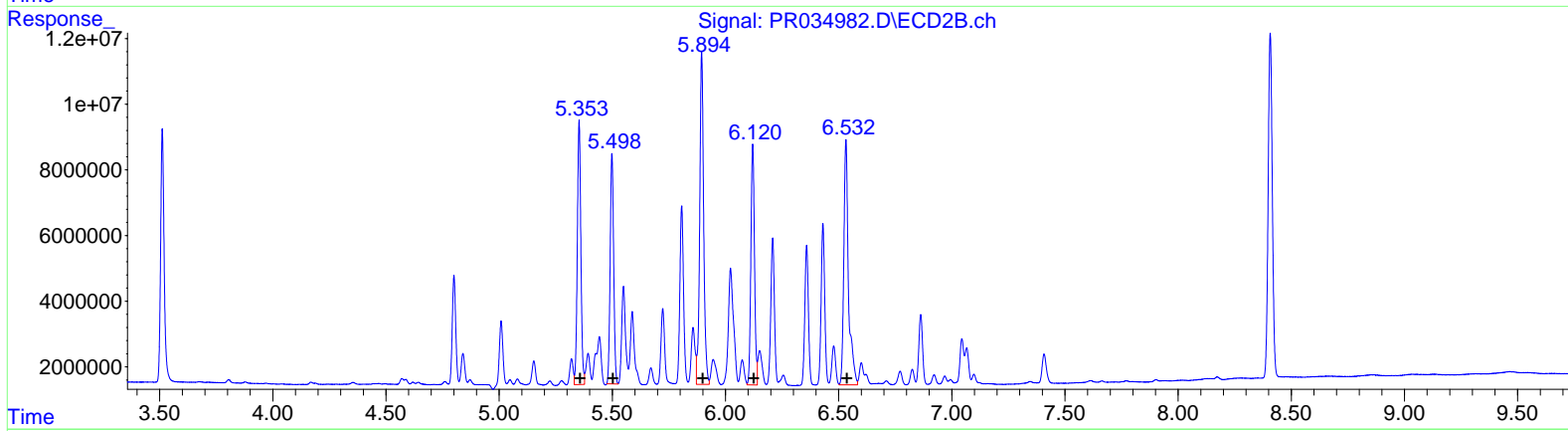
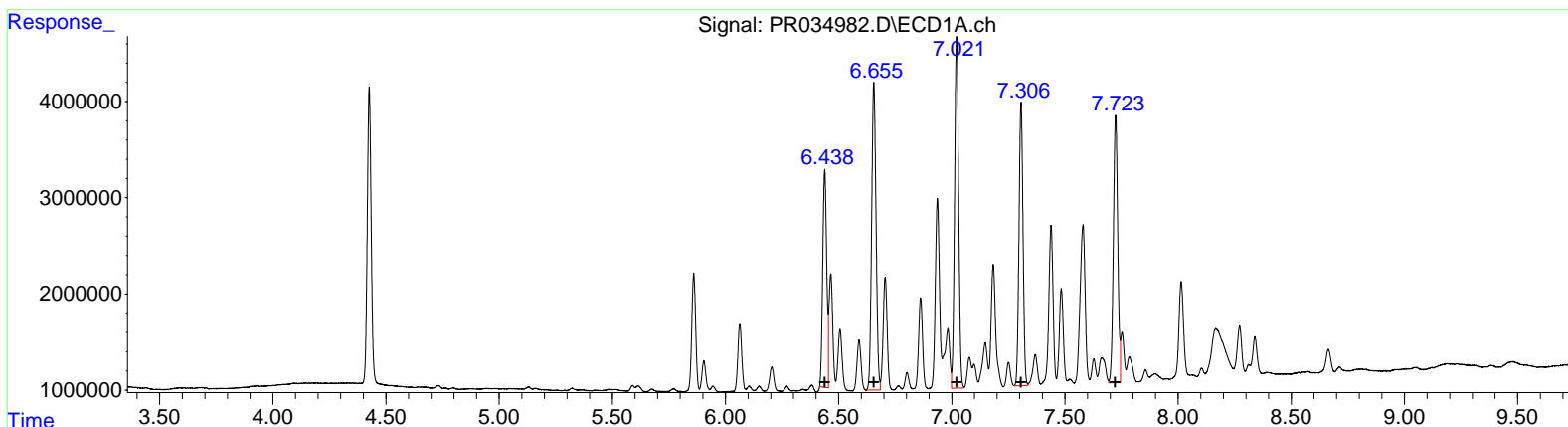
Instrument :
 ECD_R
 ClientSampleId :
 AR1254329

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:14:01 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (26) AR-1254-1 (L6) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 6.44 | 27605332 | 337.87 |
| 6.66 | 43207269 | 338.15 |
| 7.02 | 45529530 | 337.33 |
| 7.31 | 36446170 | 343.58 |
| 7.72 | 37304983 | 348.18 |
| (26) AR-1254-1 #2 (L6) | | |
| R.T. | Response | Conc |
| 5.35 | 87185922 | 356.31 |
| 5.50 | 75014225 | 352.69 |
| 5.89 | 122635641 | 343.21 |
| 6.12 | 81403995 | 344.65 |
| 6.53 | 106890407 | 335.14 |

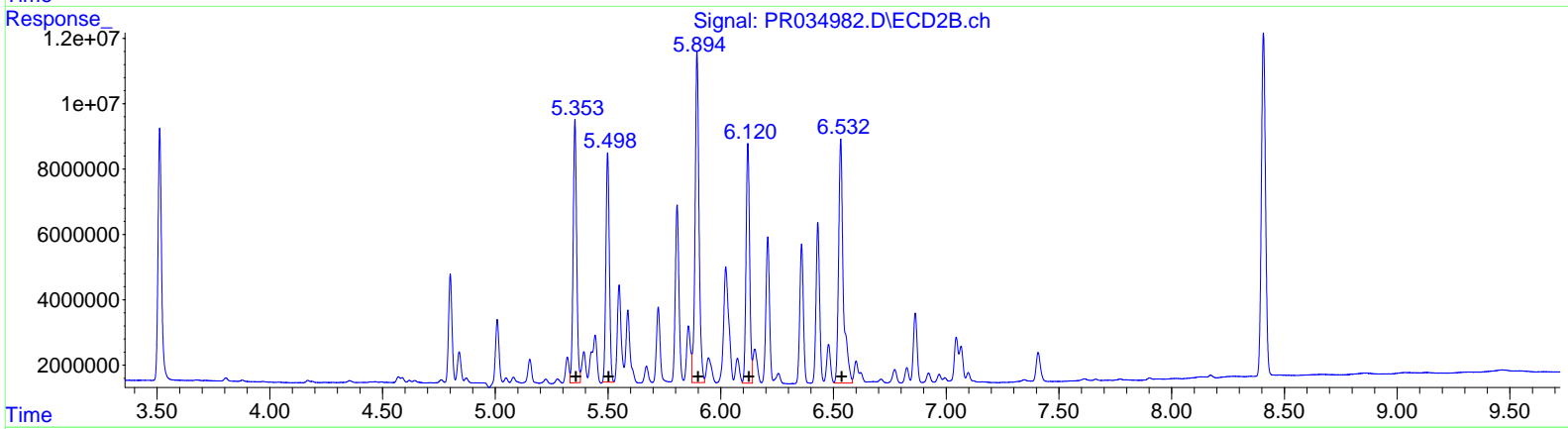
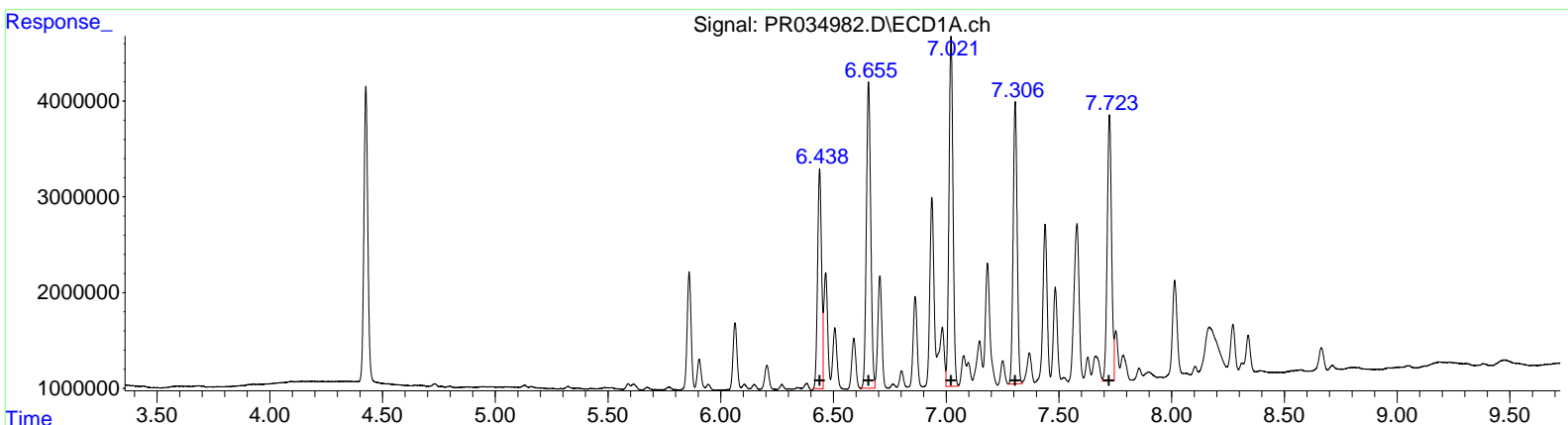
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034982.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 17:51
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1254329

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:14:01 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (26) AR-1254-1 #2 (L6) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 6.44 | 28413216 | 347.75 |
| 6.66 | 43207269 | 338.15 |
| 7.02 | 45529530 | 337.33 |
| 7.31 | 36446170 | 343.58 |
| 7.72 | 37304983 | 348.18 |
| (26) AR-1254-1 #2 (L6) | | |
| R.T. | Response | Conc |
| 5.35 | 87185922 | 356.31 |
| 5.50 | 75014225 | 352.69 |
| 5.89 | 122635641 | 343.21 |
| 6.12 | 81403995 | 344.65 |
| 6.53 | 106890407 | 335.14 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034982.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 17:51
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1254329

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

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 12/26/2018 8:14:01 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 37002722 | 83234132 | 19.024 | 23.876 # |
| 2) SA Decachlor... | 10.110 | 8.407 | 61580551 | 134.3E6 | 31.324 | 30.537 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.438 | 5.353 | 28413216 | 87185922 | 347.754m | 356.306 |
| 27) L6 AR-1254-2 | 6.655 | 5.498 | 43207269 | 75014225 | 338.147 | 352.694 |
| 28) L6 AR-1254-3 | 7.021 | 5.895 | 45529530 | 122.6E6 | 337.326 | 343.211 |
| 29) L6 AR-1254-4 | 7.306 | 6.120 | 36446170 | 81403995 | 343.579 | 344.654 |
| 30) L6 AR-1254-5 | 7.724 | 6.532 | 37304983 | 106.9E6 | 348.178 | 335.141 |
| ----- | | | | | | |

>SS
 12/28/18

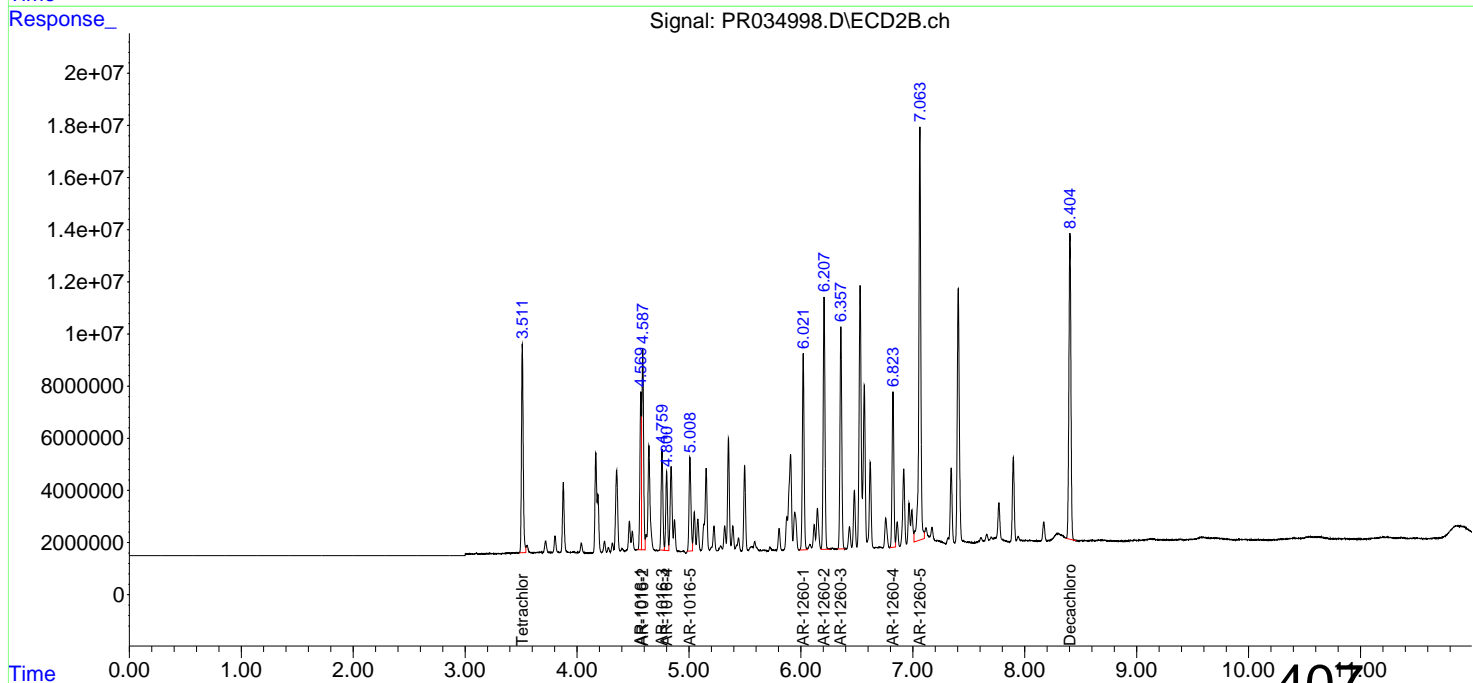
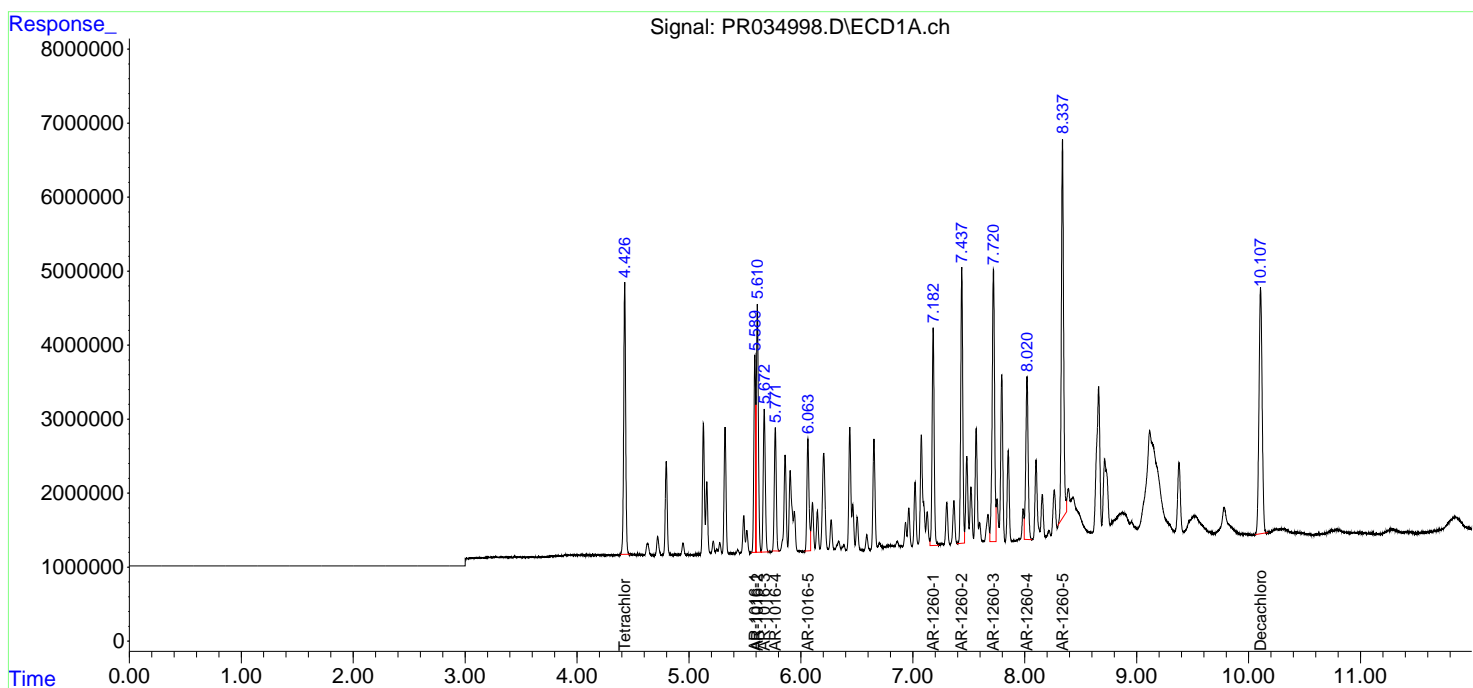
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034998.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 21:42
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660330

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:29:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034998.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 21:42
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660330

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:29:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 44750905 | 85266801 | 23.008 | 24.460 |
| 2) SA Decachlor... | 10.107 | 8.404 | 65302118 | 147.2E6 | 33.217 | 33.478 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.589 | 4.570 | 29842031 | 56020404 | 442.083 | 430.514 |
| 4) L1 AR-1016-2 | 5.611 | 4.587 | 41936955 | 82060903 | 423.490 | 415.182 |
| 5) L1 AR-1016-3 | 5.673 | 4.759 | 24975966 | 41762552 | 424.359 | 434.502 |
| 6) L1 AR-1016-4 | 5.772 | 4.801 | 20673114 | 32331352 | 435.802 | 427.952 |
| 7) L1 AR-1016-5 | 6.063 | 5.009 | 20272015 | 42639938 | 425.636 | 414.681 |
| 31) L7 AR-1260-1 | 7.182 | 6.021 | 37500617 | 82293992 | 398.909 | 382.812 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 47246088 | 107.9E6 | 406.939 | 396.344 |
| 33) L7 AR-1260-3 | 7.721 | 6.358 | 55418532 | 95758712 | 397.105 | 385.757 |
| 34) L7 AR-1260-4 | 8.021 | 6.823 | 32488341 | 65879991 | 376.181 | 385.285 |
| 35) L7 AR-1260-5 | 8.337 | 7.063 | 71356912 | 197.0E6 | 395.212 | 407.400 |

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

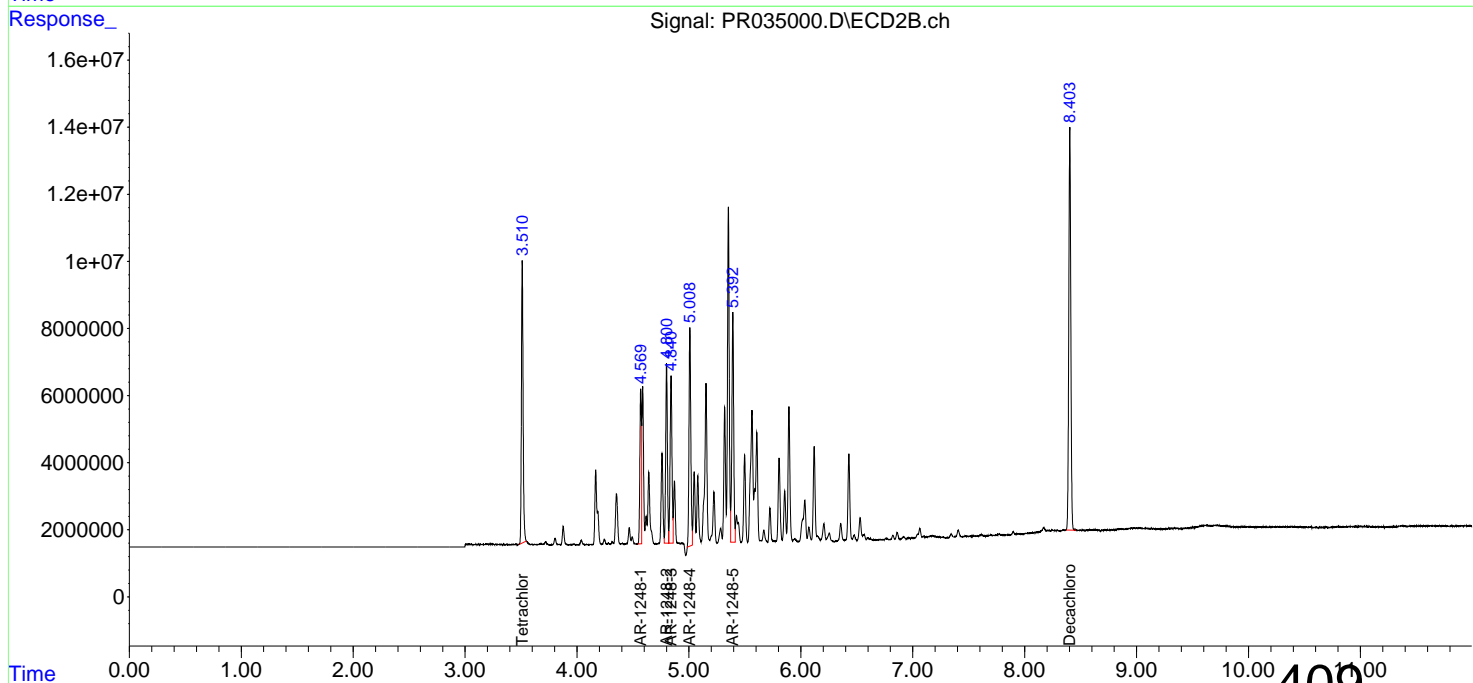
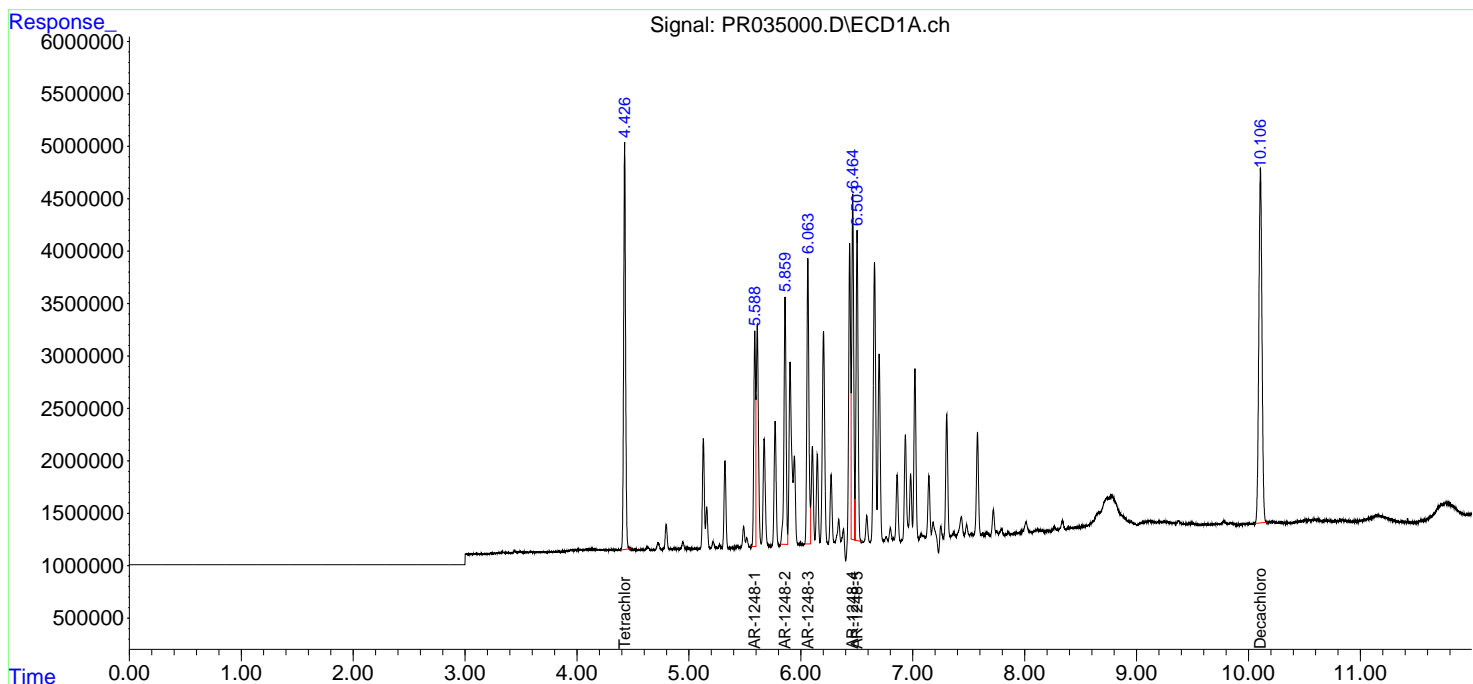
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1248330

Manual Integrations
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 Sohil
 12/26/2018 8:20:23 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1248330

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:23 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.510 | 46370836 | 88225627 | 23.841 | 25.308m |
| 2) SA Decachlor... | 10.107 | 8.404 | 66323784 | 150.7E6 | 33.737 | 34.269 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.570 | 23259967 | 45172158 | 479.363 | 463.296 |
| 22) L5 AR-1248-2 | 5.859 | 4.800 | 30944919 | 57078552 | 468.341 | 445.570 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 34786476 | 58727708 | 465.589 | 444.984 |
| 24) L5 AR-1248-4 | 6.464 | 5.009 | 40057314 | 73600932 | 448.340 | 447.340 |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 37007806 | 78389004 | 442.316 | 468.398 |
| ----- | | | | | | |

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

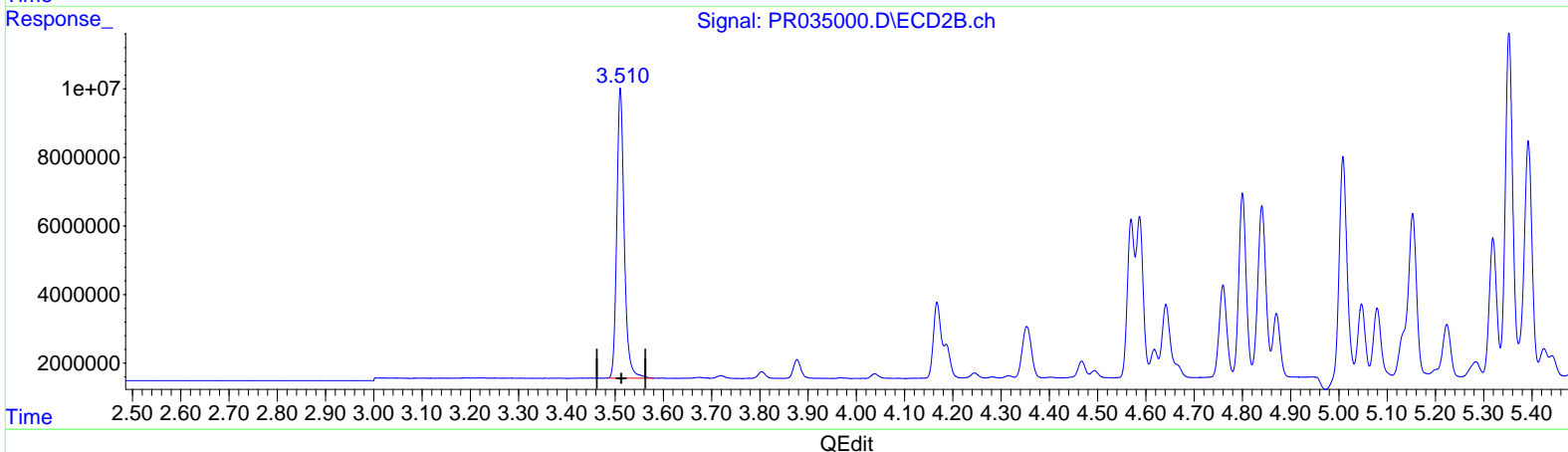
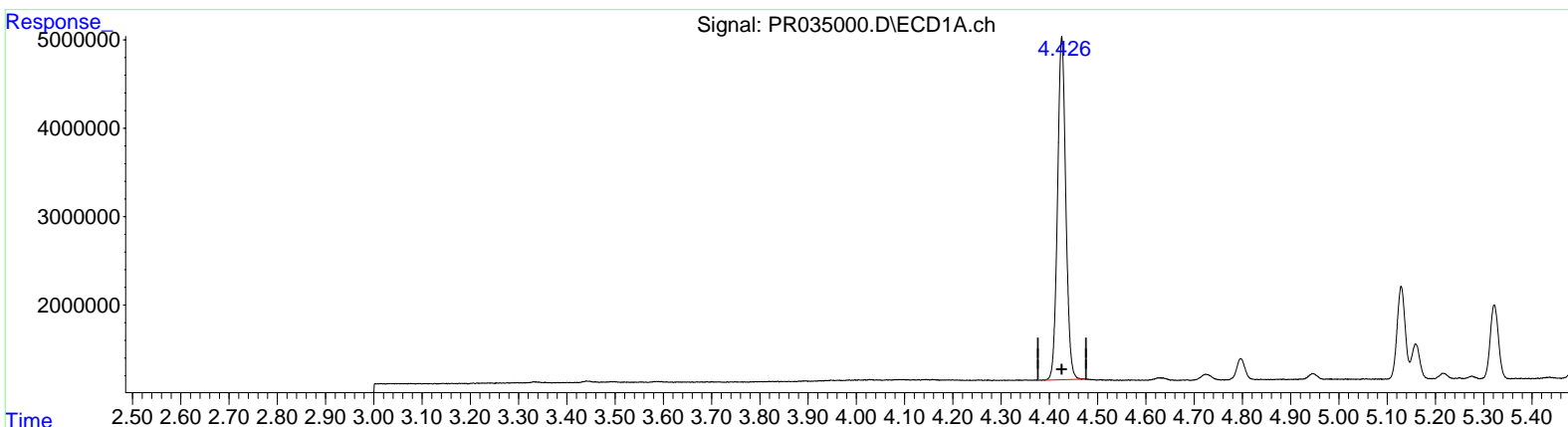
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1248330

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:23 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.426min 23.841 ng/ml

response 46370836

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 26.067 ng/ml

response 90871561

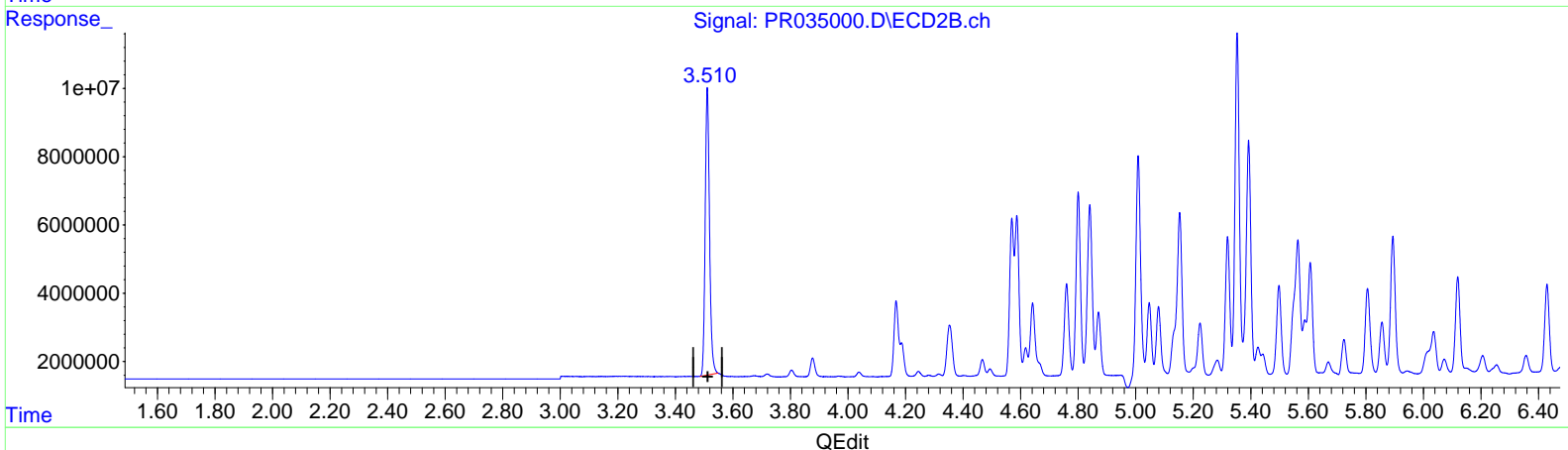
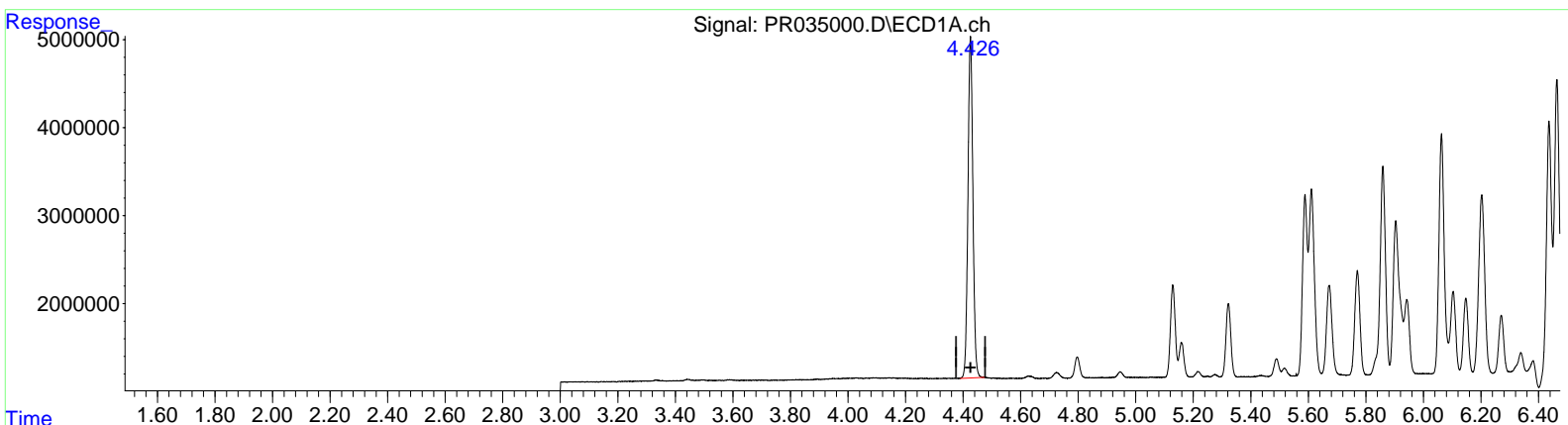
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1248330

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:23 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 23.841 ng/ml
 response 46370836

(1) Tetrachloro-m-xylene #2 (SA)
 3.510min 25.308 ng/ml m
 response 88225627

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1248330

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:23 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.510 | 46370836 | 88225627 | 23.841 | 25.308m |
| 2) SA Decachlor... | 10.107 | 8.404 | 66323784 | 150.7E6 | 33.737 | 34.269 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.570 | 23259967 | 45172158 | 479.363 | 463.296 |
| 22) L5 AR-1248-2 | 5.859 | 4.800 | 30944919 | 57078552 | 468.341 | 445.570 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 34786476 | 58727708 | 465.589 | 444.984 |
| 24) L5 AR-1248-4 | 6.464 | 5.009 | 40057314 | 73600932 | 448.340 | 447.340 |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 37007806 | 78389004 | 442.316 | 468.398 |
| ----- | | | | | | |

) SJ
 12/28/18

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035001.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:25
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

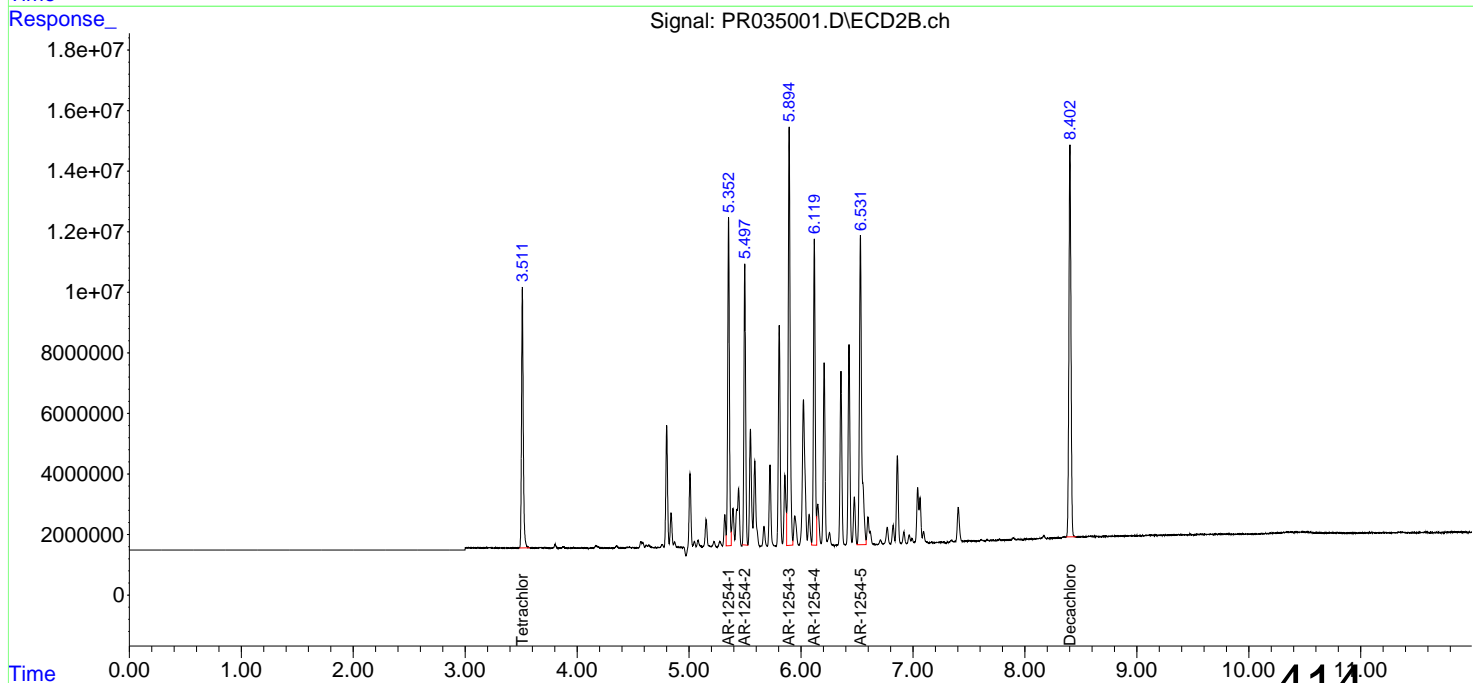
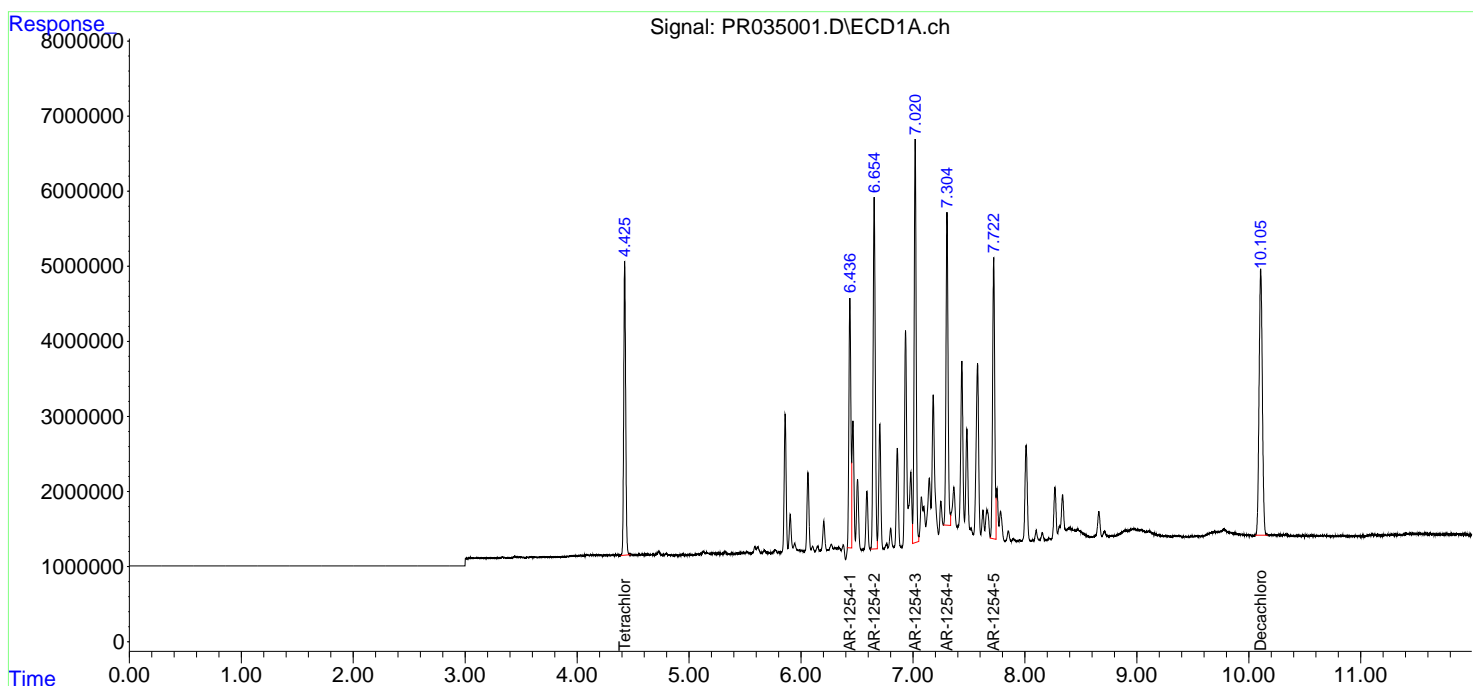
Instrument :
 ECD_R
 Client Sampled :
 AR1254330

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:20:25 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 04:24:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035001.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:25
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1254330

Manual Integrations
APPROVED

Sohil
 12/26/2018 8:20:25 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 04:24:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 47840303 | 93174506 | 24.596 | 26.728 |
| 2) SA Decachlor... | 10.106 | 8.403 | 71697938 | 163.3E6 | 36.470 | 37.137 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.436 | 5.353 | 41808618 | 115.9E6 | 511.702m | 473.841 |
| 27) L6 AR-1254-2 | 6.654 | 5.498 | 62807066 | 97699733 | 491.538 | 459.354 |
| 28) L6 AR-1254-3 | 7.020 | 5.894 | 66966895 | 165.7E6 | 496.154 | 463.749 |
| 29) L6 AR-1254-4 | 7.304 | 6.119 | 53203036 | 110.1E6 | 501.547m | 466.352 |
| 30) L6 AR-1254-5 | 7.722 | 6.531 | 49912666 | 144.5E6 | 465.849 | 453.144 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035001.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:25
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

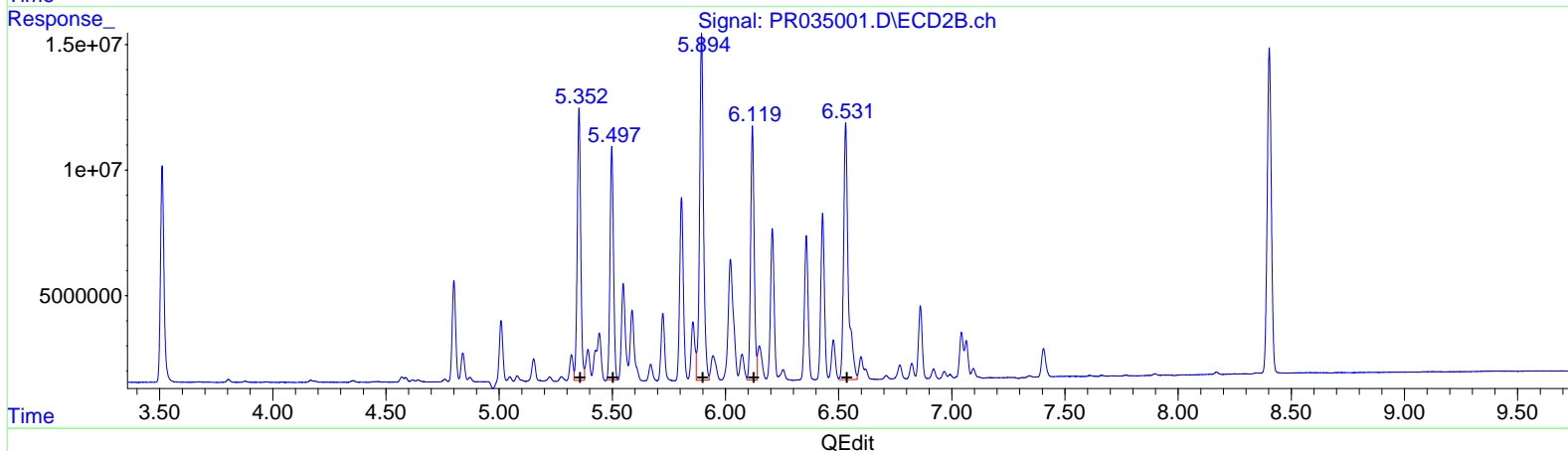
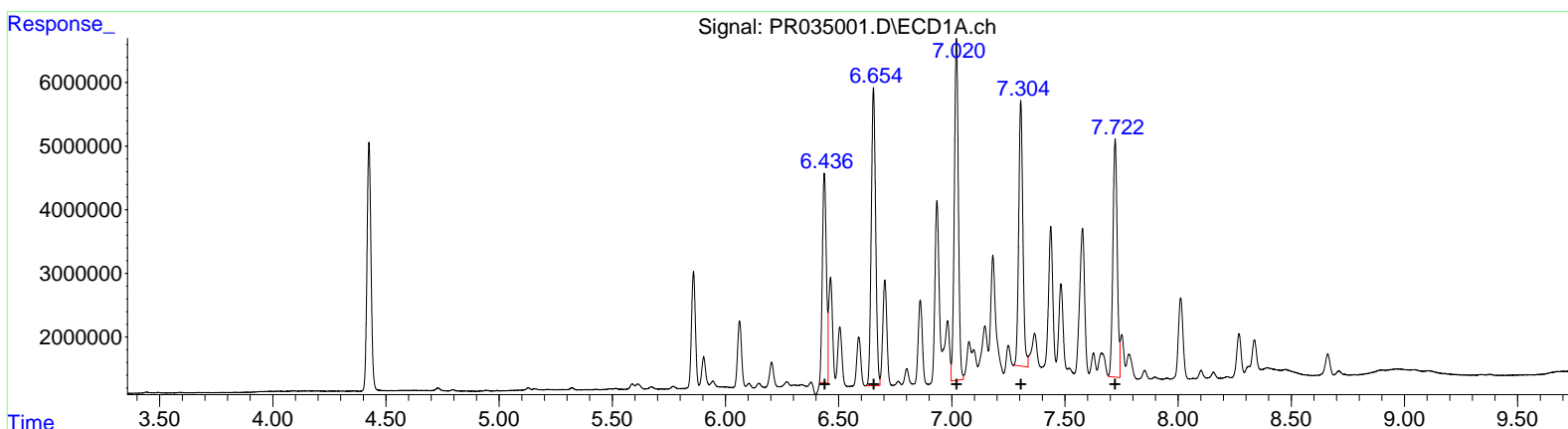
Instrument :
 ECD_R
 ClientSampleID :
 AR1254330

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:20:25 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 04:24:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (26) AR-1254-1 (L6) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 6.44 | 40563497 | 496.46 |
| 6.65 | 62807066 | 491.54 |
| 7.02 | 66966895 | 496.15 |
| 7.30 | 53475334 | 504.11 |
| 7.72 | 49912666 | 465.85 |
| (26) AR-1254-1 #2 (L6) | | |
| R.T. | Response | Conc |
| 5.35 | 115945820 | 473.84 |
| 5.50 | 97699733 | 459.35 |
| 5.89 | 165705836 | 463.75 |
| 6.12 | 110147741 | 466.35 |
| 6.53 | 144526434 | 453.14 |

(+) = Expected Retention Time

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035001.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:25
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

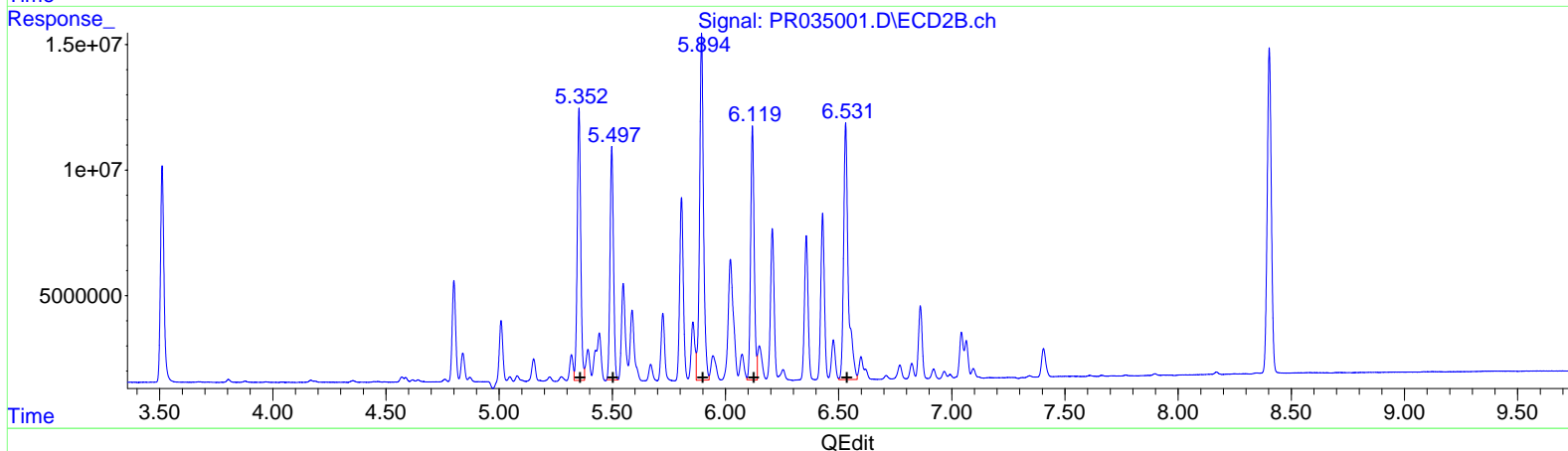
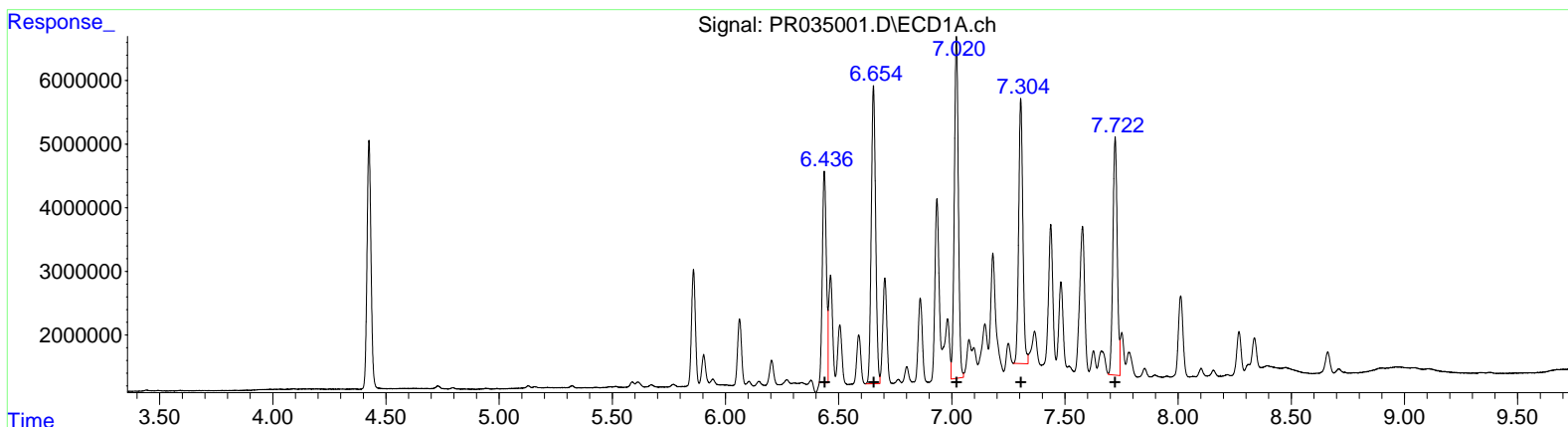
Instrument :
 ECD_R
 ClientSampleID :
 AR1254330

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:20:25 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 04:24:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (26) AR-1254-1 #2 (L6) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 6.44 | 41808618 | 511.70 |
| 6.65 | 62807066 | 491.54 |
| 7.02 | 66966895 | 496.15 |
| 7.30 | 53203036 | 501.55 |
| 7.72 | 49912666 | 465.85 |
| (26) AR-1254-1 #2 (L6) | | |
| R.T. | Response | Conc |
| 5.35 | 115945820 | 473.84 |
| 5.50 | 97699733 | 459.35 |
| 5.89 | 165705836 | 463.75 |
| 6.12 | 110147741 | 466.35 |
| 6.53 | 144526434 | 453.14 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035001.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:25
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1254330

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 04:24:08 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:25 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 47840303 | 93174506 | 24.596 | 26.728 |
| 2) SA Decachlor... | 10.106 | 8.403 | 71697938 | 163.3E6 | 36.470 | 37.137 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.436 | 5.353 | 41808618 | 115.9E6 | 511.702m | 473.841 |
| 27) L6 AR-1254-2 | 6.654 | 5.498 | 62807066 | 97699733 | 491.538 | 459.354 |
| 28) L6 AR-1254-3 | 7.020 | 5.894 | 66966895 | 165.7E6 | 496.154 | 463.749 |
| 29) L6 AR-1254-4 | 7.304 | 6.119 | 53203036 | 110.1E6 | 501.547m | 466.352 |
| 30) L6 AR-1254-5 | 7.722 | 6.531 | 49912666 | 144.5E6 | 465.849 | 453.144 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ABLK54

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115754BL
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034922.D
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

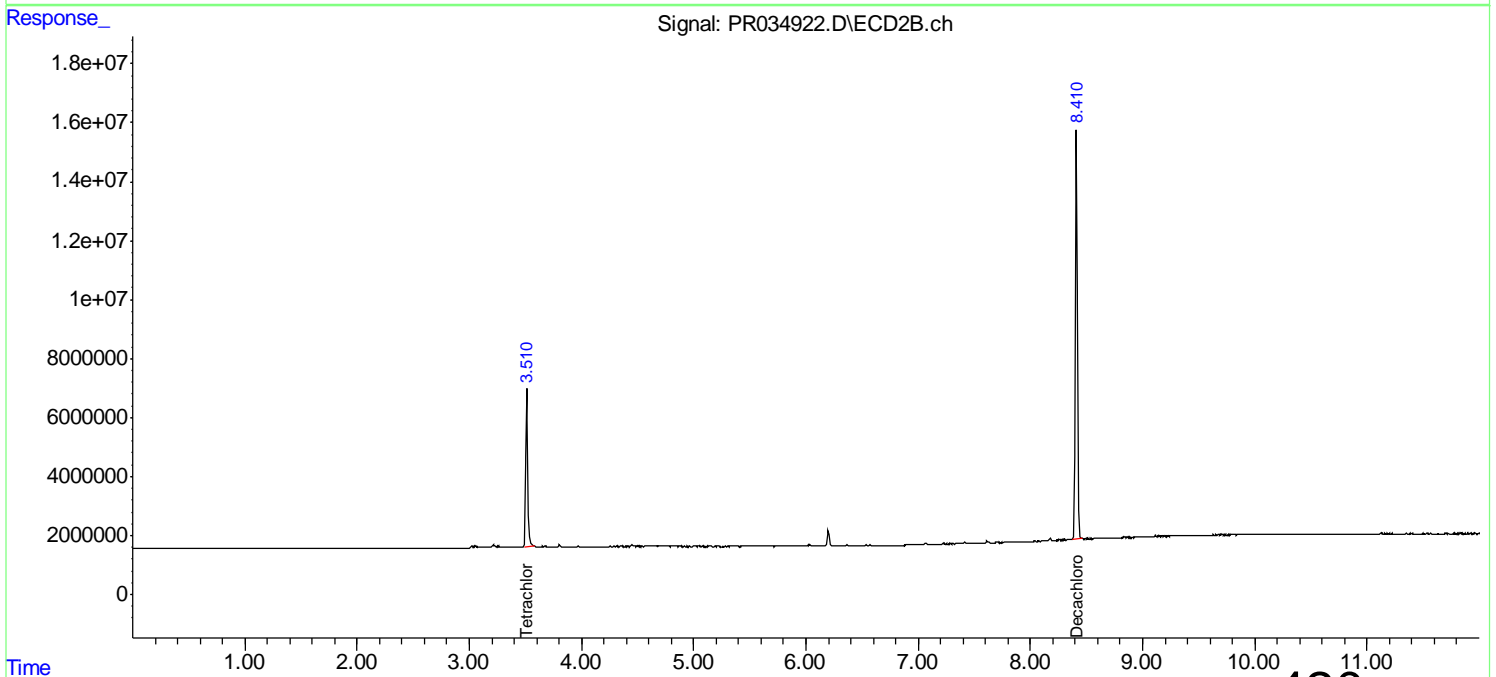
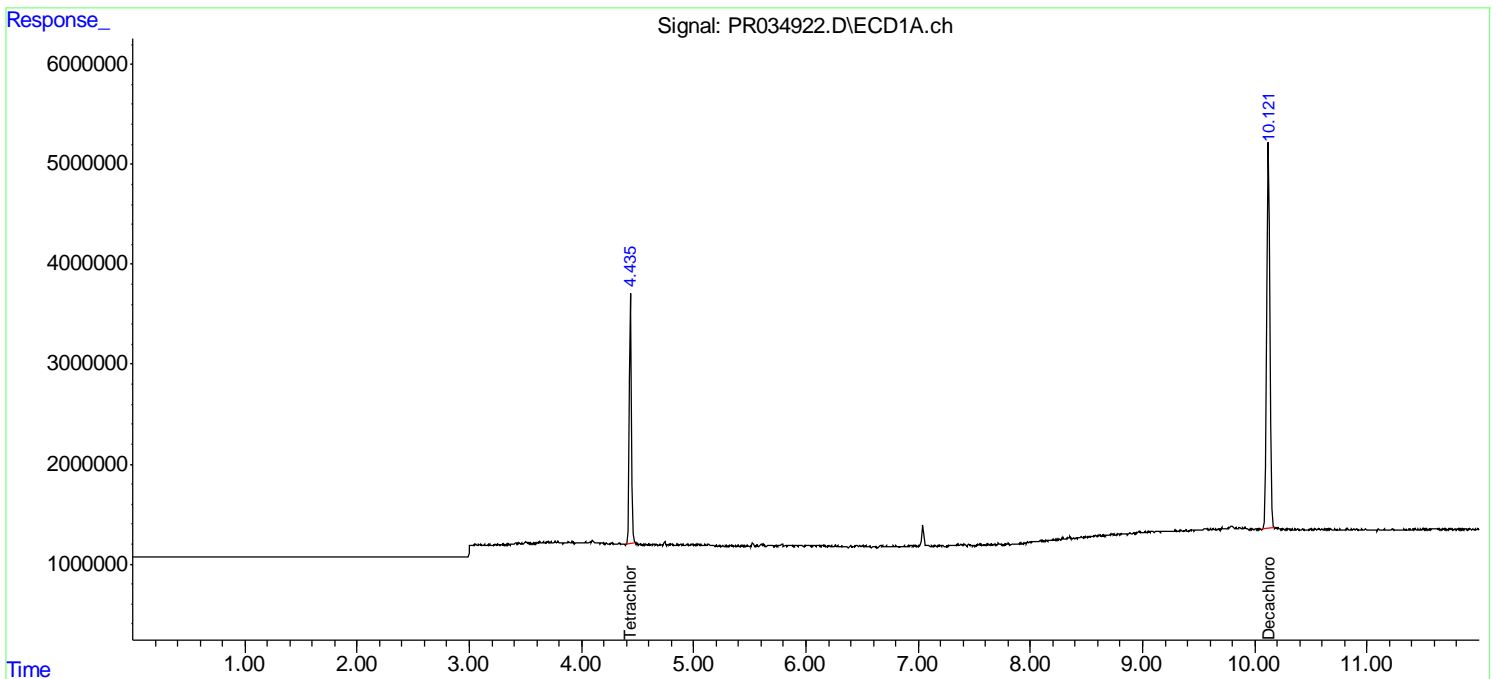
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
Data File : PR034922.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Dec 2018 13:54
Operator : SM\SJ
Sample : PB115754BL
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
ABLK54

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 21 00:41:07 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034922.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 13:54
 Operator : SM\SJ
 Sample : PB115754BL
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 ABLK54

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:07 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.435 | 3.510 | 32133186 | 62494388 | 16.521 | 17.927 |
| 2) SA Decachlor... | 10.121 | 8.410 | 75732193 | 174.5E6 | 38.522 | 39.693 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK83(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK83
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034731.D
 % Solids : _____ Date Received : 12/17/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/17/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK83(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK83
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034731.D-2
 % Solids : _____ Date Received : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/17/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

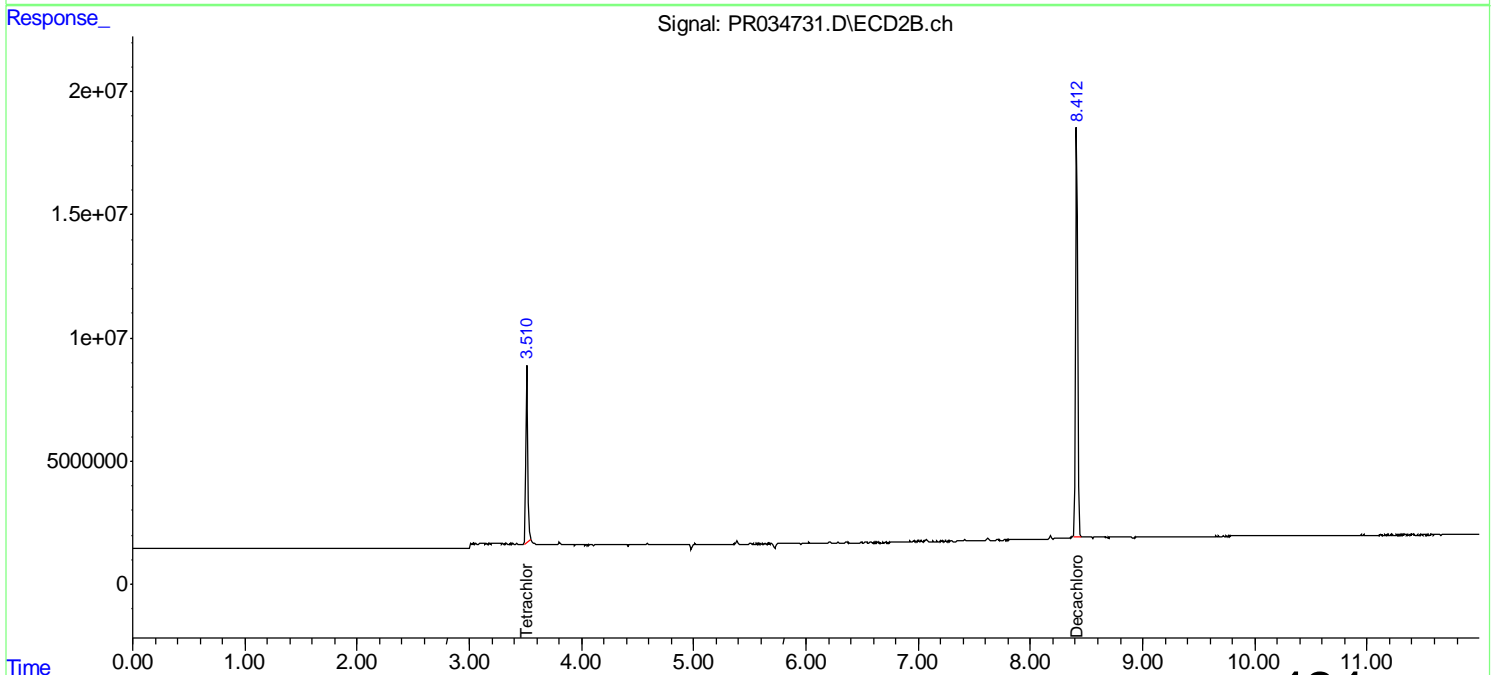
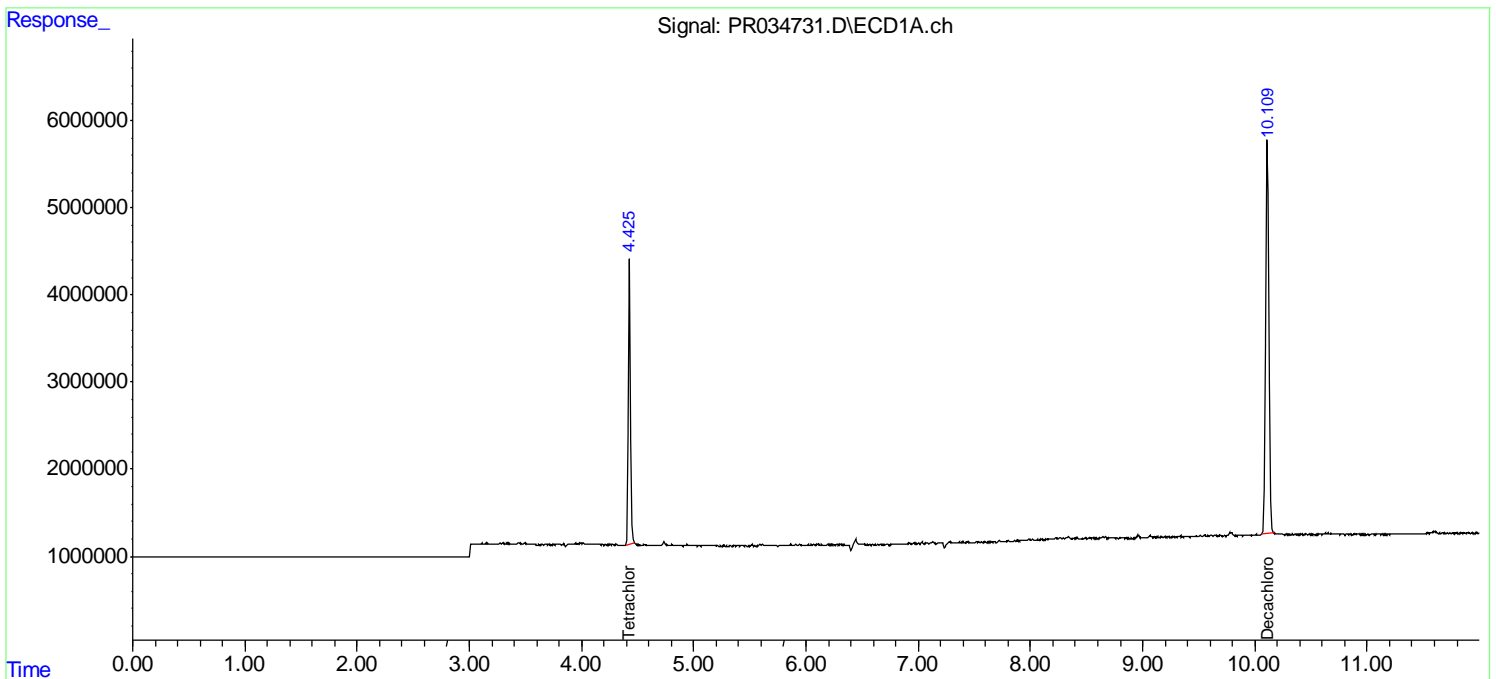
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034731.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 20:58
Operator : SM\SJ
Sample : AIBLK83
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AIBLK83

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:58:19 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034731.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:58
 Operator : SM\SJ
 Sample : AIBLK83
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK83

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:58:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 42385691 | 82319143 | 21.792 | 23.614 |
| 2) SA Decachlor... | 10.110 | 8.413 | 90054463 | 209.8E6 | 45.808 | 47.708 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK92(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK92
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034907.D
 % Solids : _____ Date Received : 12/20/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK92 (2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK92
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034907.D-2
 % Solids : _____ Date Received : 12/20/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

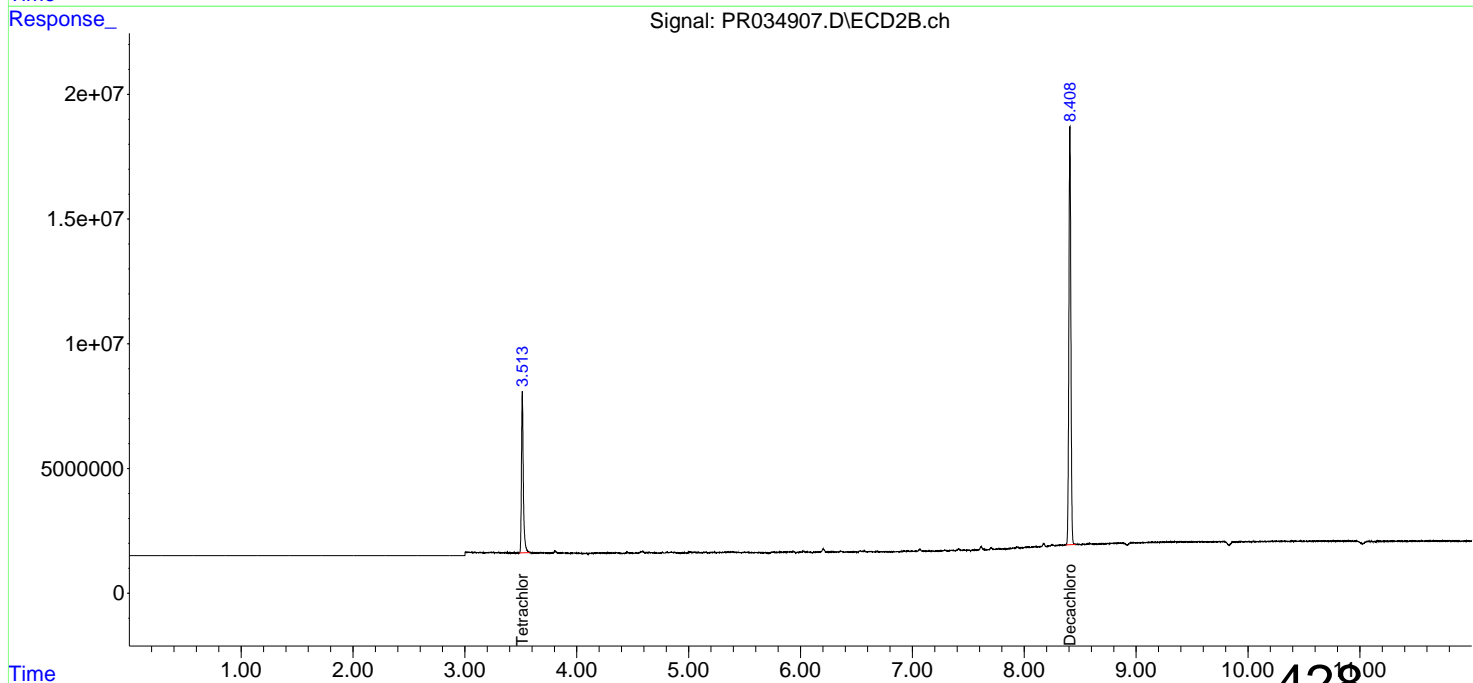
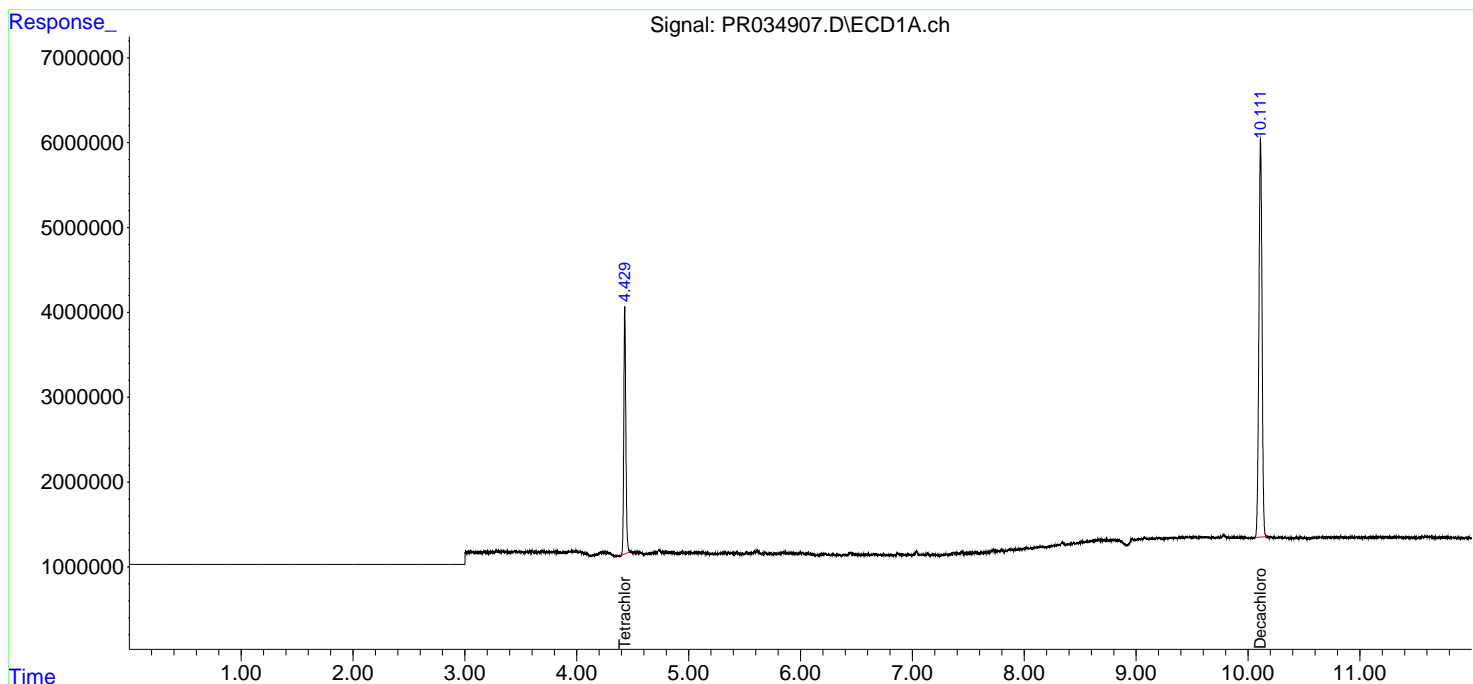
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
Data File : PR034907.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Dec 2018 08:11
Operator : SM\SJ
Sample : AIBLK92
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AIBLK92

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 21 00:36:05 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034907.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 08:11
 Operator : SM\SJ
 Sample : AIBLK92
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK92

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:36:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.429 | 3.513 | 36976479 | 75032727 | 19.011 | 21.524 |
| 2) SA Decachlor... | 10.111 | 8.408 | 91450358 | 209.4E6 | 46.518 | 47.617 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK93(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK93
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034927.D
 % Solids : _____ Date Received : 12/20/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK93(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK93
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034927.D-2
 % Solids : _____ Date Received : 12/20/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

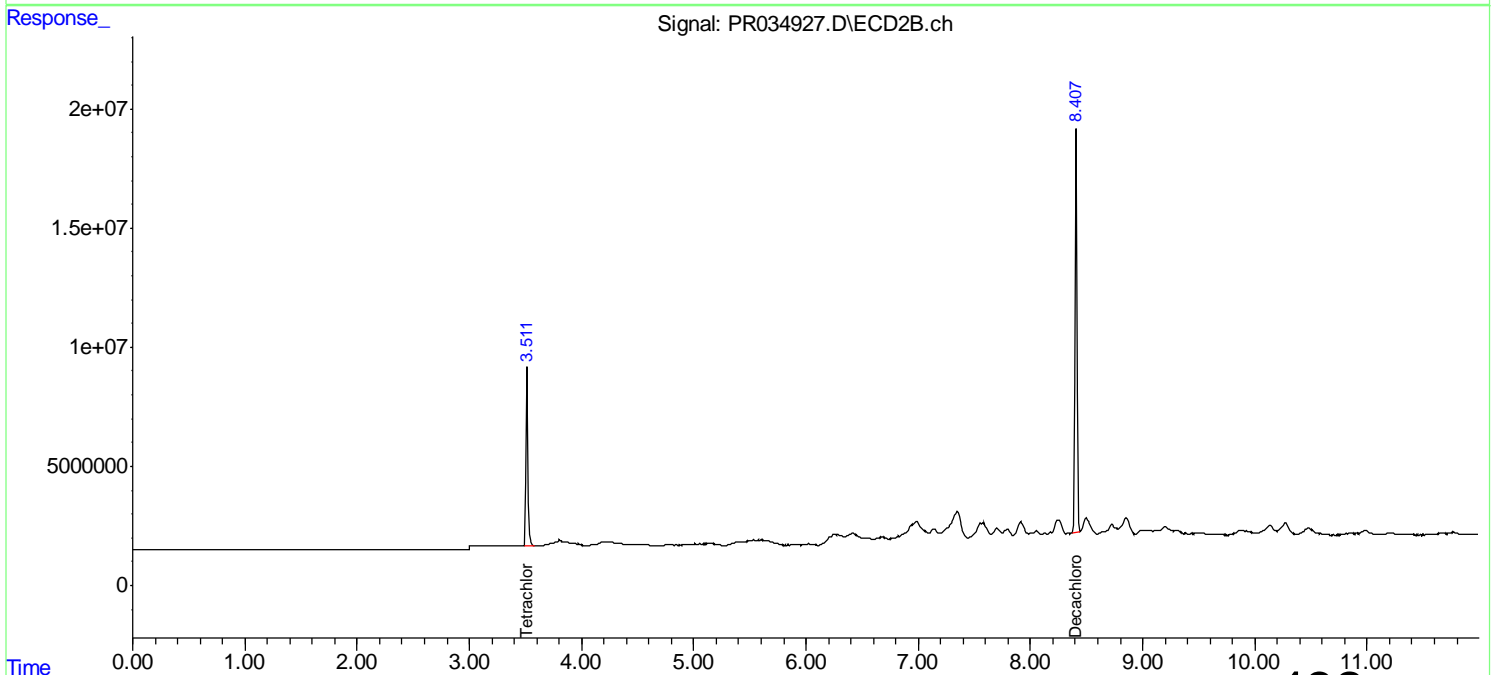
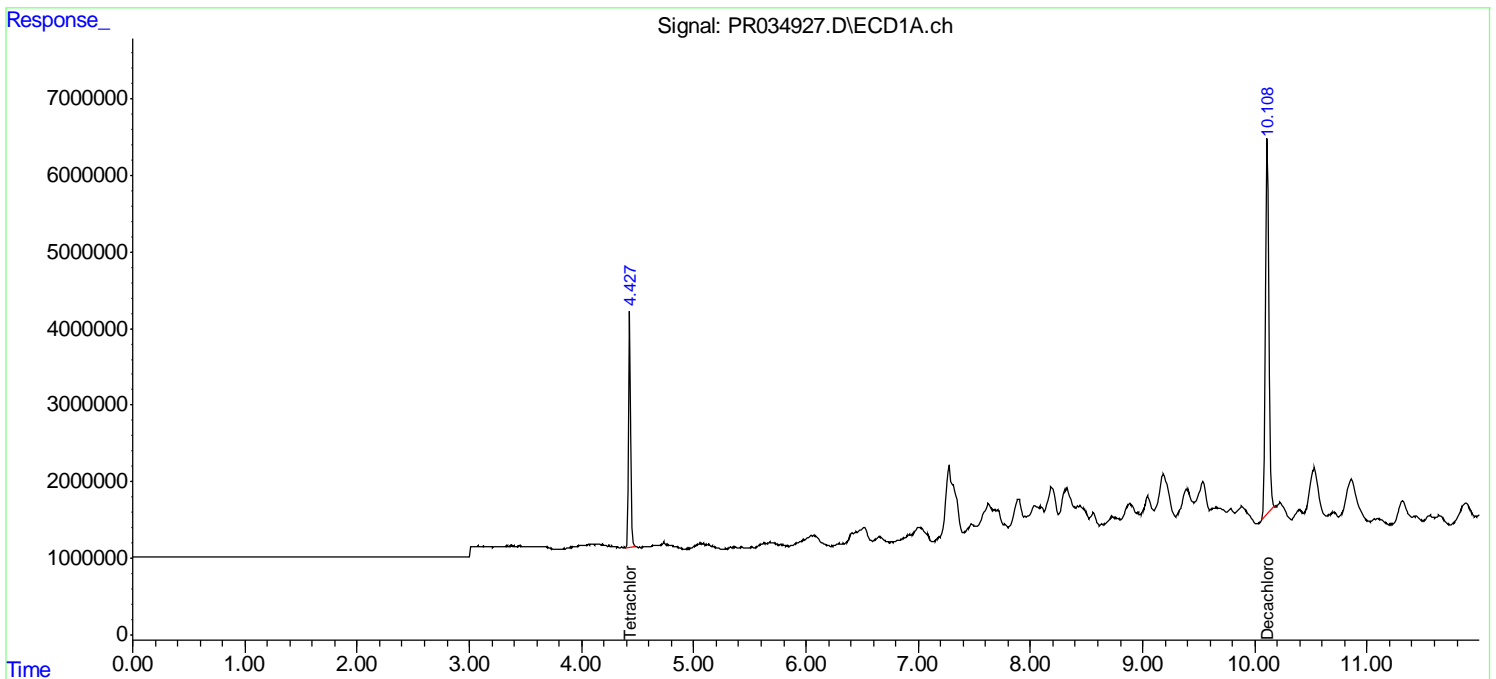
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034927.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:07
 Operator : SM\SJ
 Sample : AIBLK93
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AIBLK93

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034927.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 15:07
 Operator : SM\SJ
 Sample : AIBLK93
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK93

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.428 | 3.512 | 38839893 | 86494249 | 19.969 | 24.812 |
| 2) SA Decachlor... | 10.109 | 8.407 | 103.8E6 | 209.5E6 | 52.800 | 47.647 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK94(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK94
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034947.D
 % Solids : _____ Date Received : 12/20/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK94 (2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK94
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034947.D-2
 % Solids : _____ Date Received : 12/20/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

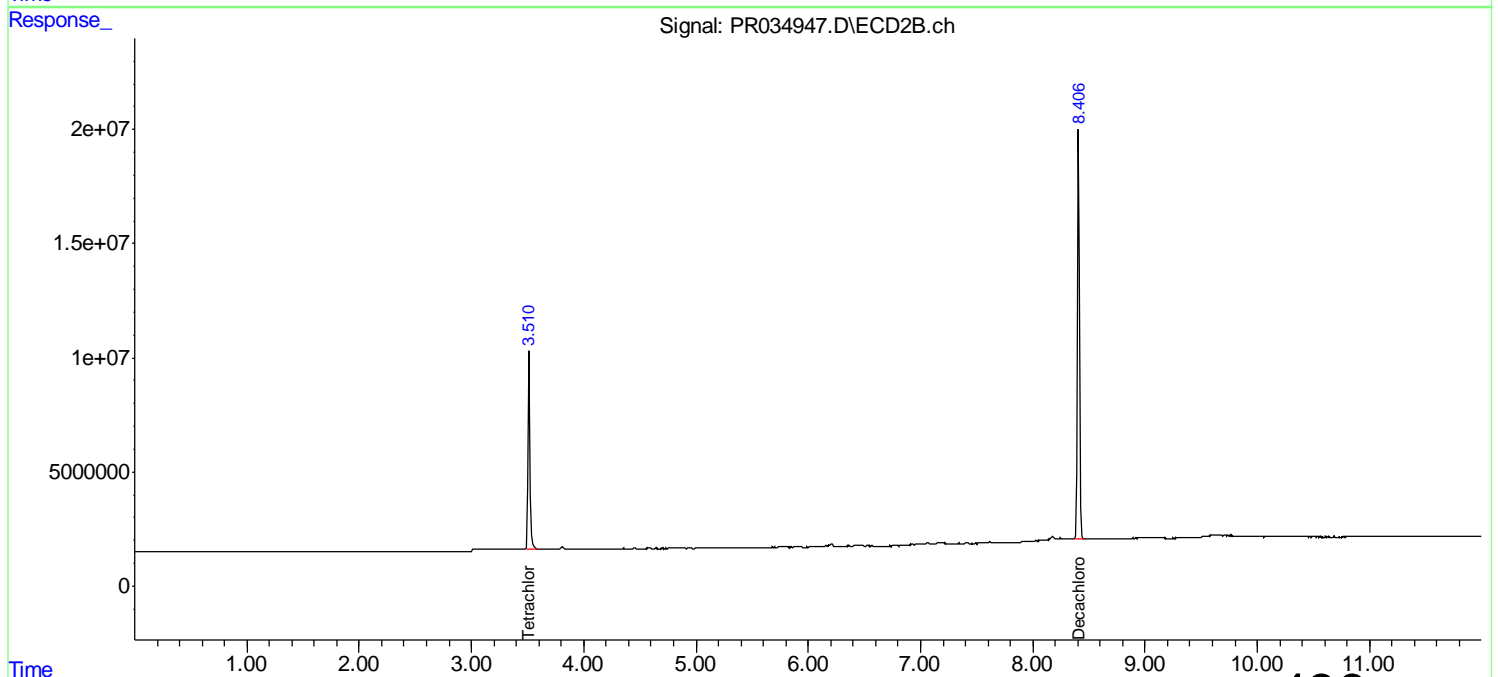
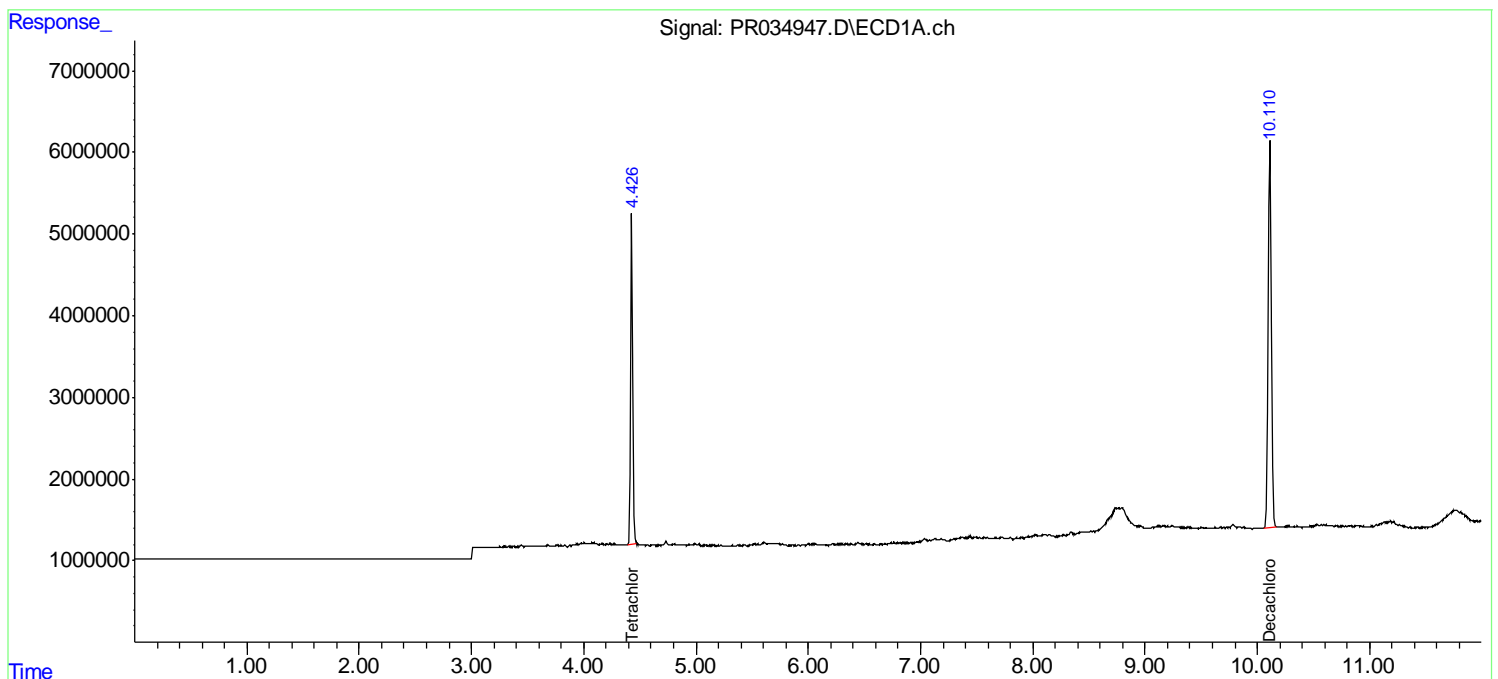
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
Data File : PR034947.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Dec 2018 19:56
Operator : SM\SJ
Sample : AIBLK94
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AIBLK94

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 21 00:48:56 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034947.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 19:56
 Operator : SM\SJ
 Sample : AIBLK94
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK94

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:48:56 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.511 | 50733263 | 99902133 | 26.084 | 28.658 |
| 2) SA Decachlor... | 10.110 | 8.406 | 93017245 | 222.7E6 | 47.315 | 50.644 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK96(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK96
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034978.D
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK96(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK96
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034978.D-2
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

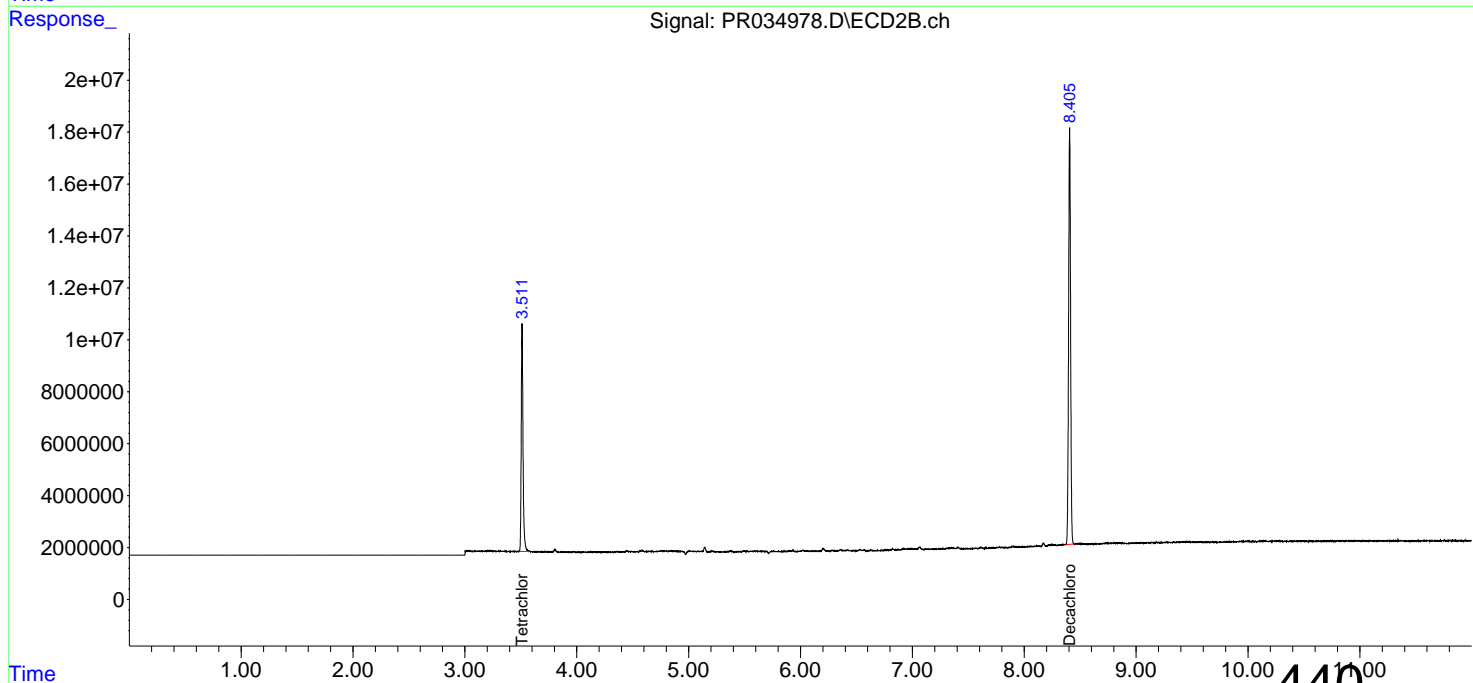
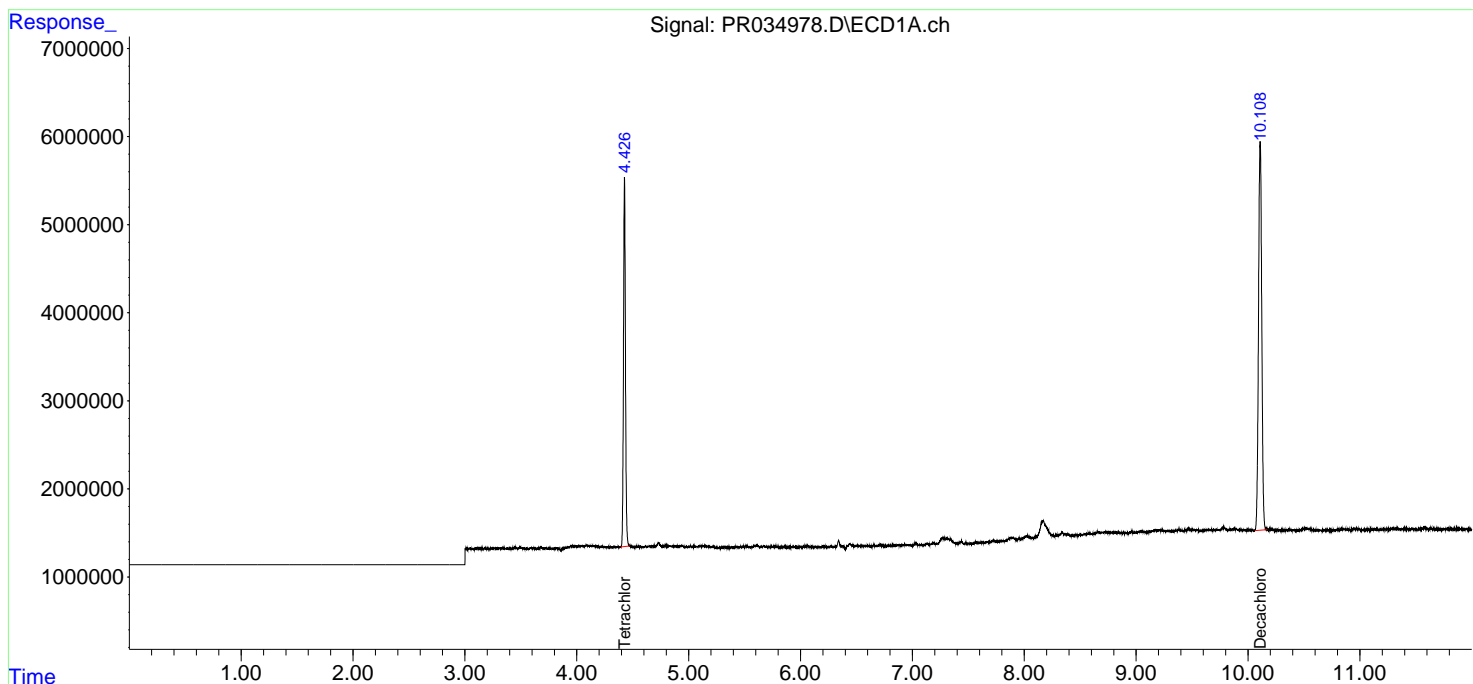
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034978.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 15:23
 Operator : SM\SJ
 Sample : AIBLK96
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AIBLK96

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034978.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 15:23
 Operator : SM\SJ
 Sample : AIBLK96
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK96

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 50911171 | 96754583 | 26.175 | 27.755 |
| 2) SA Decachlor... | 10.109 | 8.406 | 88855269 | 199.2E6 | 45.198 | 45.301 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK97(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK97
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034997.D
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK97(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK97
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034997.D-2
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

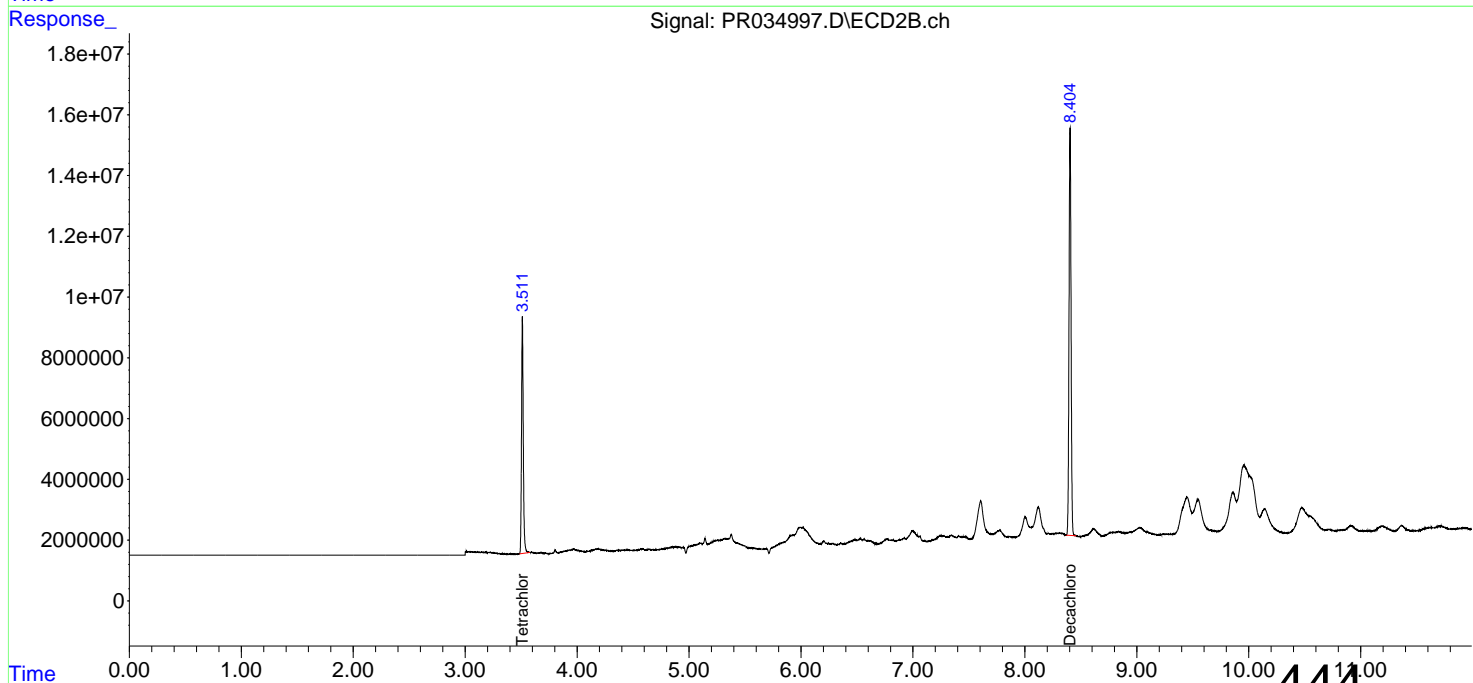
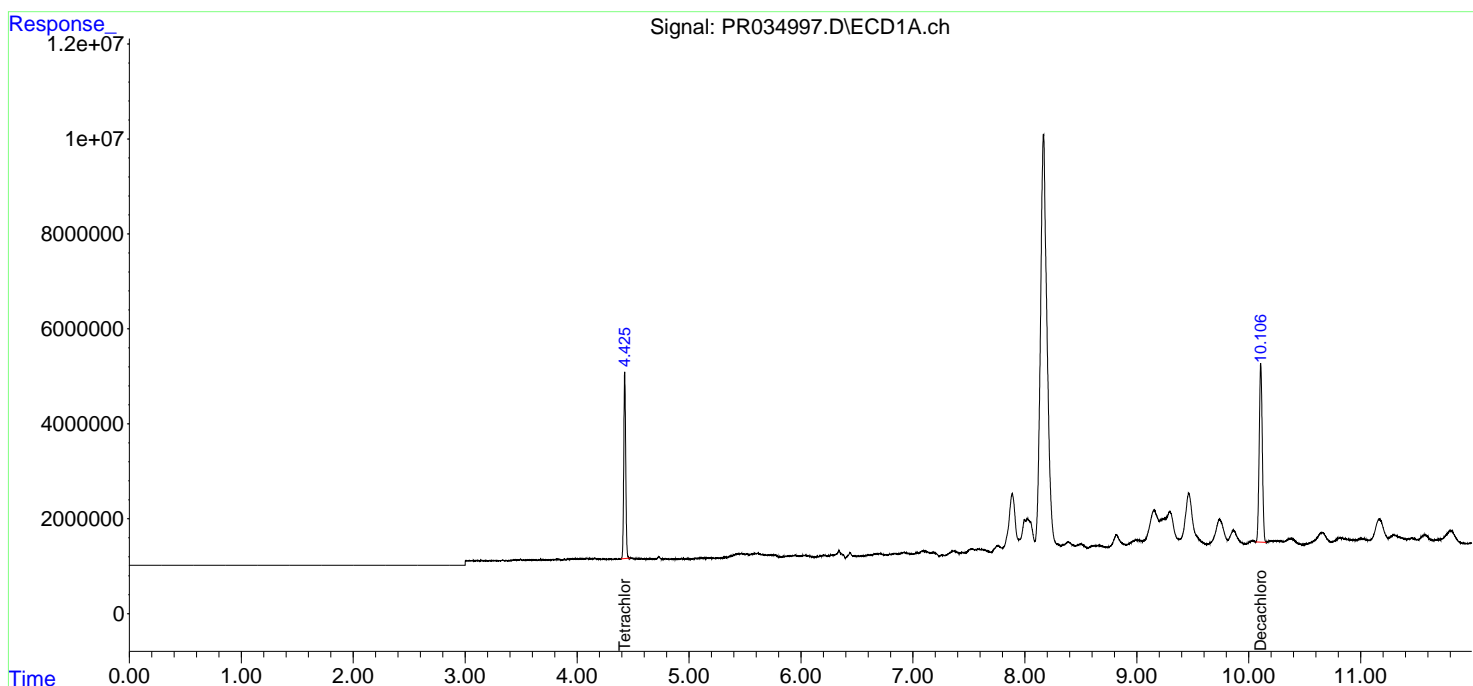
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034997.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 21:27
 Operator : SM\SJ
 Sample : AIBLK97
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AIBLK97

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034997.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 21:27
 Operator : SM\SJ
 Sample : AIBLK97
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK97

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 47707414 | 85043662 | 24.528 | 24.396 |
| 2) SA Decachlor... | 10.107 | 8.404 | 72300706 | 167.1E6 | 36.777 | 38.010 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T6MS(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-02MS
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034925.D
 % Solids : 78.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 5100 | EP |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 5700 | E |
| 11097-69-1 | Aroclor-1254 | 5100 | E |
| 11096-82-5 | Aroclor-1260 | 5300 | E |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T6MS (2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-02MS
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034925.D-2
 % Solids : 78.6 Date Received : 12/14/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 8000 | EP |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 6700 | E |
| 11097-69-1 | Aroclor-1254 | 5200 | E |
| 11096-82-5 | Aroclor-1260 | 5600 | E |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

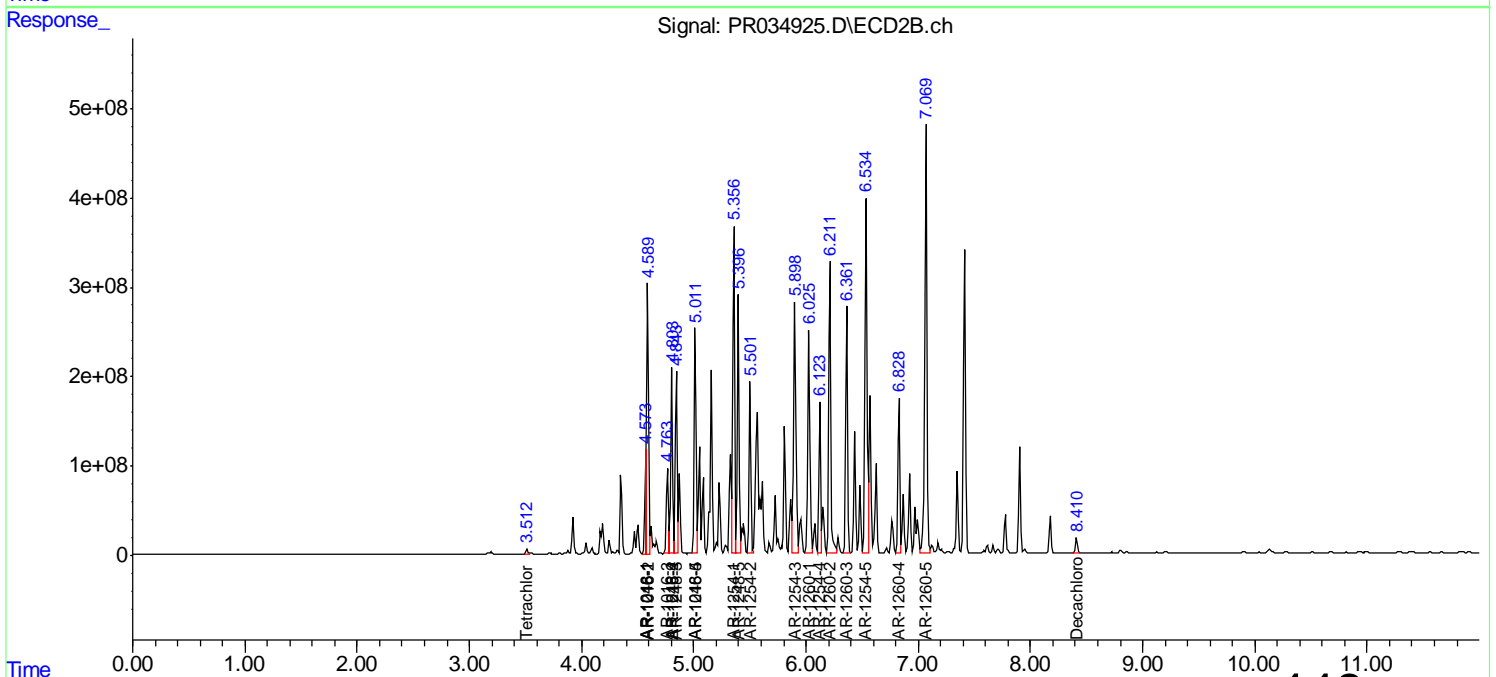
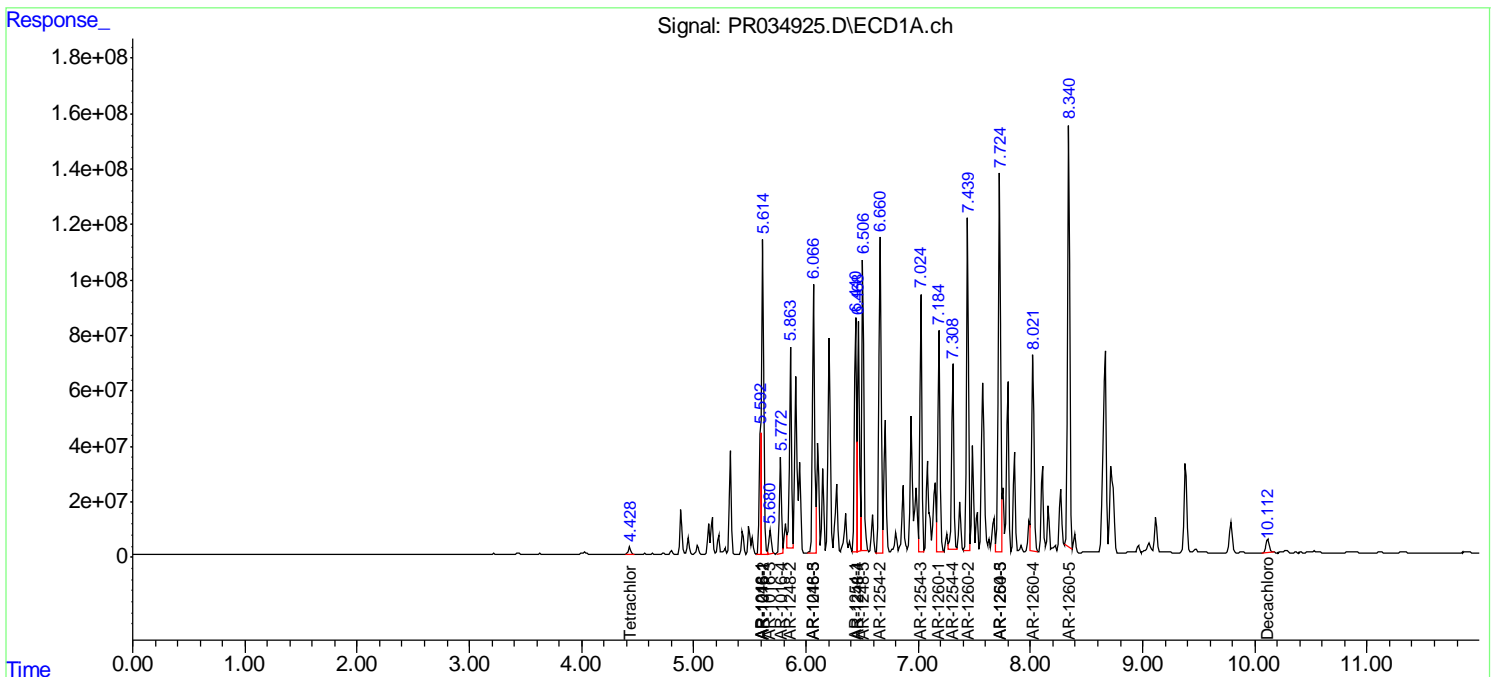
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 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T6MS

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T6MS

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.512 | 31745222 | 61704536 | 16.321 | 17.701 |
| 2) SA Decachlor... | 10.113 | 8.410 | 101.1E6 | 203.5E6 | 51.439 | 46.290 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.593 | 4.574 | 396.1E6 | 834.8E6 | 5867.259 | 6415.174m |
| 4) L1 AR-1016-2 | 5.615 | 4.589 | 1582.7E6 | 3364.1E6 | 15982.733 | 17020.447m |
| 5) L1 AR-1016-3 | 5.681 | 4.764 | 129.2E6 | 1235.2E6 | 2194.716 | 12850.966 # |
| 6) L1 AR-1016-4 | 5.772 | 4.803 | 448.0E6 | 2245.8E6 | 9443.414m | 29726.017 # |
| 7) L1 AR-1016-5 | 6.066 | 5.012 | 1305.9E6 | 2914.6E6 | 27419.730m | 28345.485 |
| 21) L5 AR-1248-1 | 5.593 | 4.573 | 396.1E6 | 790.2E6 | 8162.351 | 8104.986m |
| 22) L5 AR-1248-2 | 5.863 | 4.803 | 920.5E6 | 2245.8E6 | 13931.054m | 17531.061 # |
| 23) L5 AR-1248-3 | 6.066 | 4.844 | 1283.7E6 | 2358.8E6 | 17181.211m | 17872.842 |
| 24) L5 AR-1248-4 | 6.468 | 5.011 | 1033.6E6 | 2950.4E6 | 11568.268 | 17932.523m# |
| 25) L5 AR-1248-5 | 6.506 | 5.396 | 1397.3E6 | 3050.6E6 | 16700.042 | 18228.193 |
| 26) L6 AR-1254-1 | 6.440 | 5.357 | 1035.6E6 | 4108.7E6 | 12674.656 | 16791.060 # |
| 27) L6 AR-1254-2 | 6.660 | 5.501 | 1673.9E6 | 2050.5E6 | 13100.177 | 9640.920 # |
| 28) L6 AR-1254-3 | 7.024 | 5.898 | 1157.3E6 | 4126.1E6 | 8574.083 | 11547.533 # |
| 29) L6 AR-1254-4 | 7.308 | 6.123 | 858.5E6 | 1829.5E6 | 8093.470m | 7745.682 |
| 30) L6 AR-1254-5 | 7.725 | 6.535 | 1964.3E6 | 5099.7E6 | 18333.476 | 15989.578 |
| 31) L7 AR-1260-1 | 7.185 | 6.025 | 1056.4E6 | 3339.6E6 | 11237.751 | 15534.988 # |
| 32) L7 AR-1260-2 | 7.440 | 6.211 | 1470.2E6 | 3827.6E6 | 12662.933 | 14065.873 |
| 33) L7 AR-1260-3 | 7.725 | 6.362 | 1964.3E6 | 3110.3E6 | 14075.385 | 12529.530 |
| 34) L7 AR-1260-4 | 8.022 | 6.828 | 1098.0E6 | 1923.1E6 | 12713.651 | 11246.729 |
| 35) L7 AR-1260-5 | 8.341 | 7.069 | 2097.9E6 | 6160.8E6 | 11619.076 | 12738.204 |

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

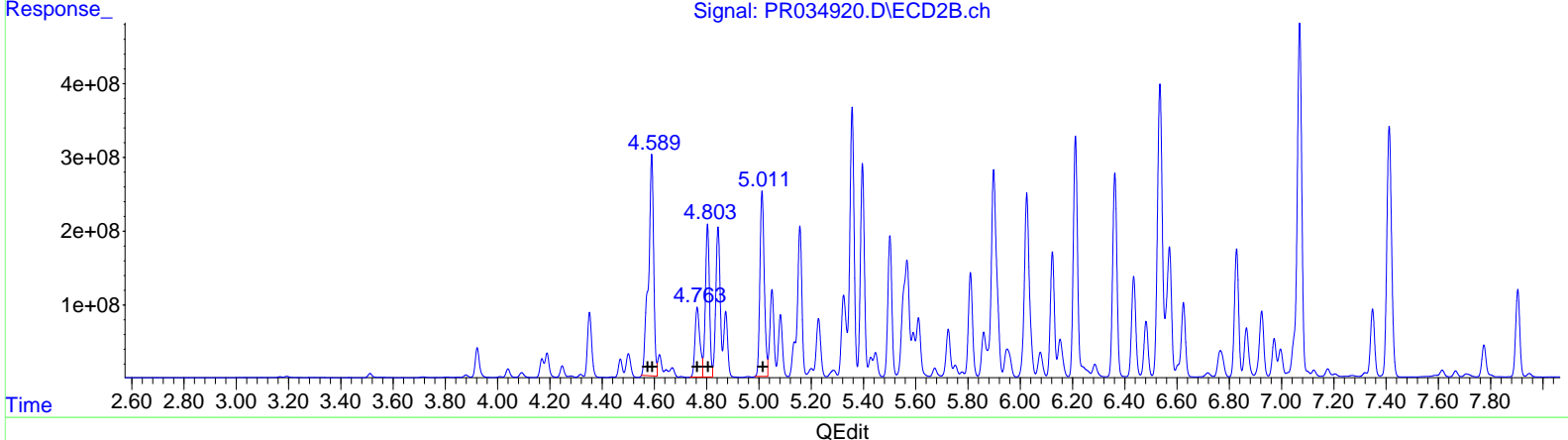
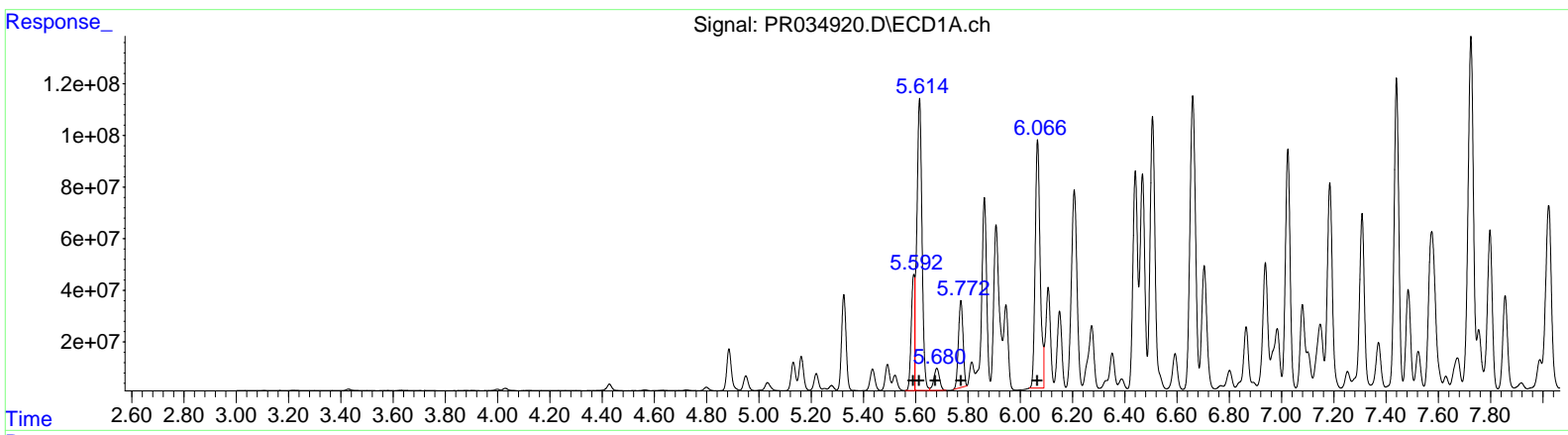
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 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MS

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (3) AR-1016-1 (L1) | | |
|--------------------|------------|----------|
| R.T. | Response | Conc |
| 5.59 | 396058739 | 5867.26 |
| 5.61 | 1582720880 | 15982.73 |
| 5.68 | 129171607 | 2194.72 |
| 5.77 | 412470457 | 8695.14 |
| 6.07 | 1270332023 | 26672.21 |

| (3) AR-1016-1 #2 (L1) | | |
|-----------------------|------------|----------|
| R.T. | Response | Conc |
| 4.59 | 4172722950 | 32067.16 |
| 4.59 | 4172722950 | 21111.65 |
| 4.76 | 1235183021 | 12850.97 |
| 4.80 | 2245771138 | 29726.02 |
| 5.01 | 2914647766 | 28345.49 |

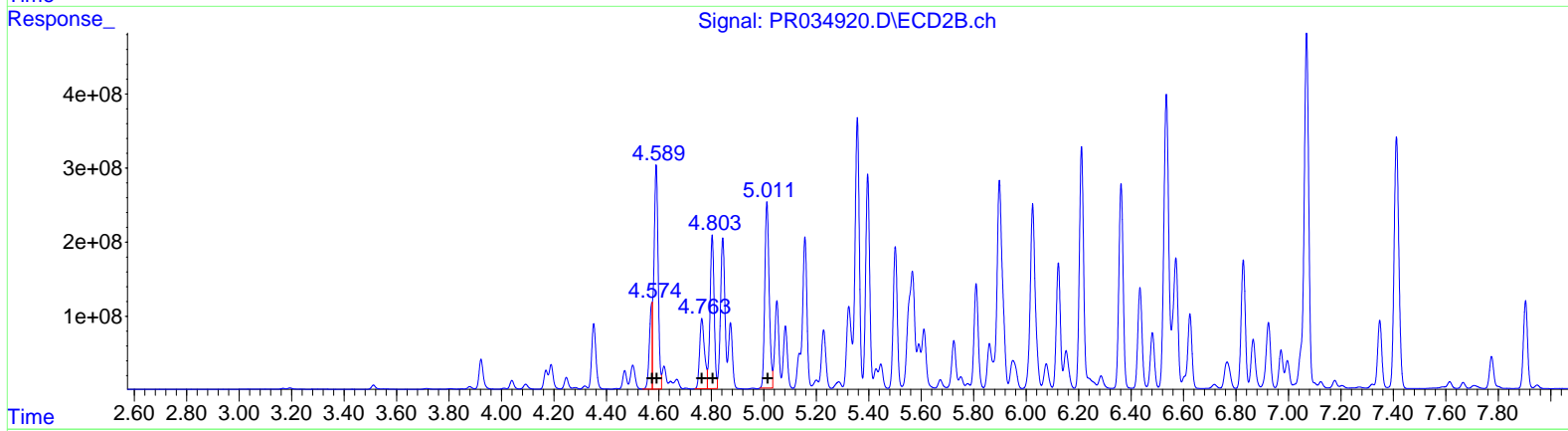
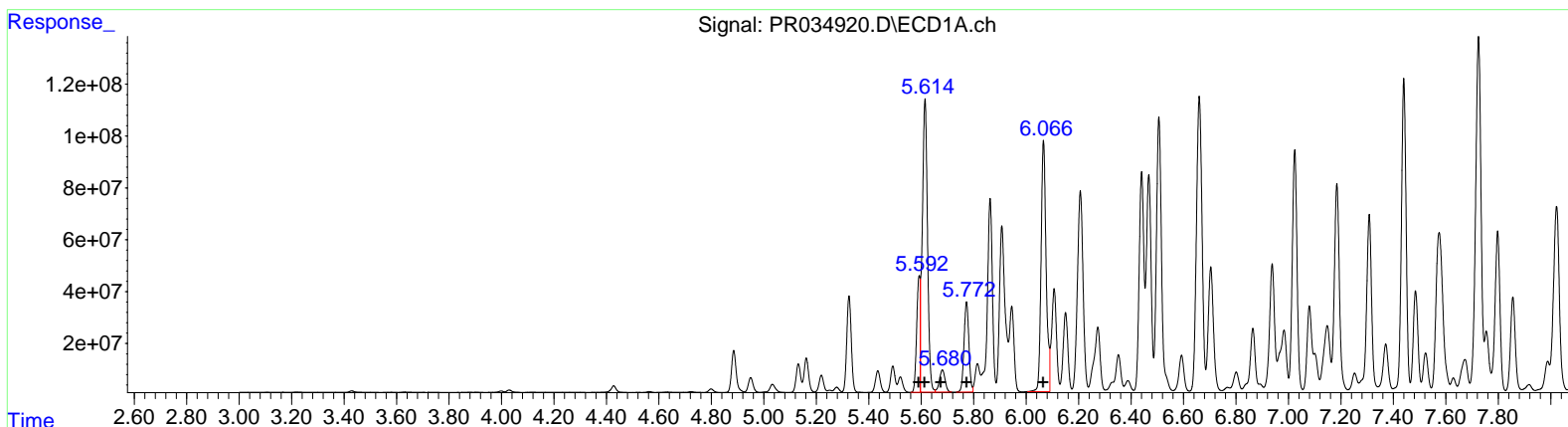
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 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MS

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (3) AR-1016-1 (L1) | | |
|-----------------------|------------|----------|
| R.T. | Response | Conc |
| 5.59 | 396058739 | 5867.26 |
| 5.61 | 1582720880 | 15982.73 |
| 5.68 | 129171607 | 2194.72 |
| 5.77 | 447966306 | 9443.41 |
| 6.07 | 1305934737 | 27419.73 |
| (3) AR-1016-1 #2 (L1) | | |
| R.T. | Response | Conc |
| 4.57 | 834771172 | 6415.17 |
| 4.59 | 3364095646 | 17020.45 |
| 4.76 | 1235183021 | 12850.97 |
| 4.80 | 2245771138 | 29726.02 |
| 5.01 | 2914647766 | 28345.49 |

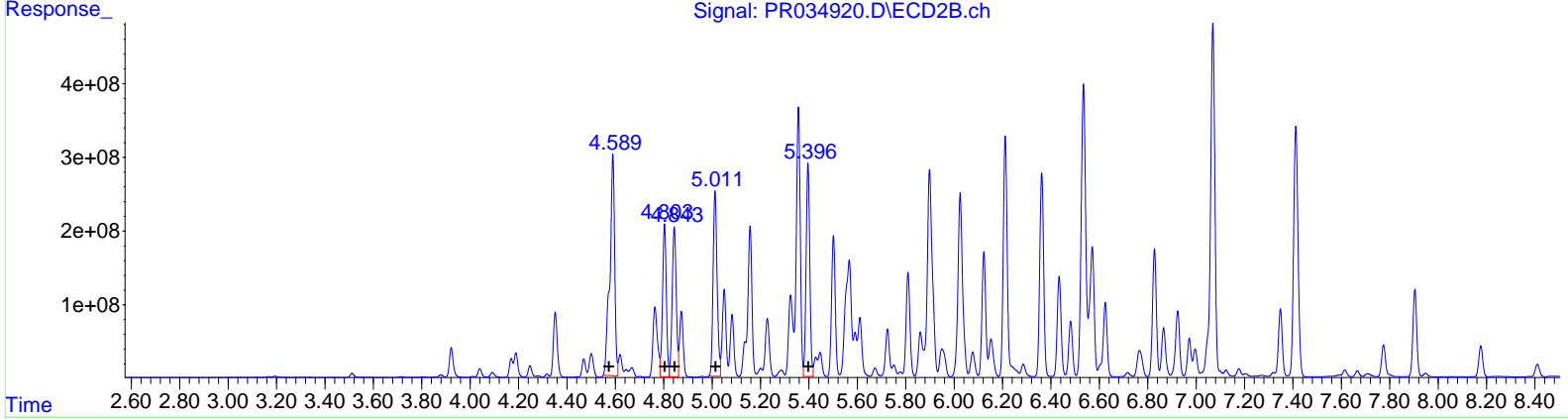
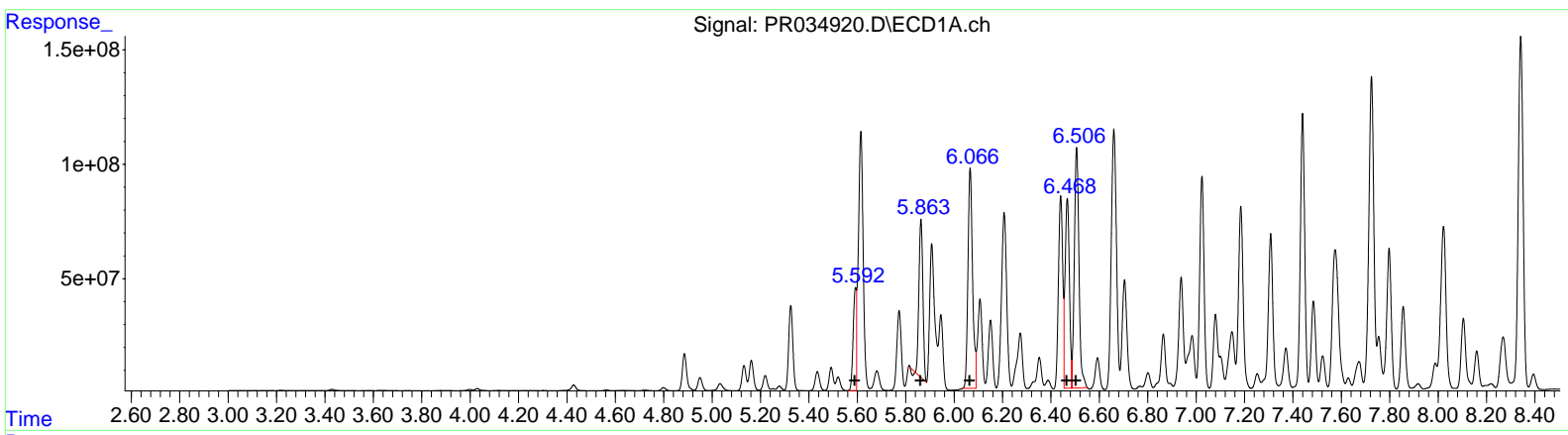
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MS

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 5.59 | 396058739 | 8162.35 |
| 5.86 | 769669795 | 11648.69 |
| 6.07 | 1270332023 | 17002.39 |
| 6.47 | 1033577713 | 11568.27 |
| 6.51 | 1397263080 | 16700.04 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 4.59 | 4172722950 | 42796.42 |
| 4.80 | 2245771138 | 17531.06 |
| 4.84 | 2358807378 | 17872.84 |
| 5.01 | 2914647766 | 17714.96 |
| 5.40 | 3050591808 | 18228.19 |

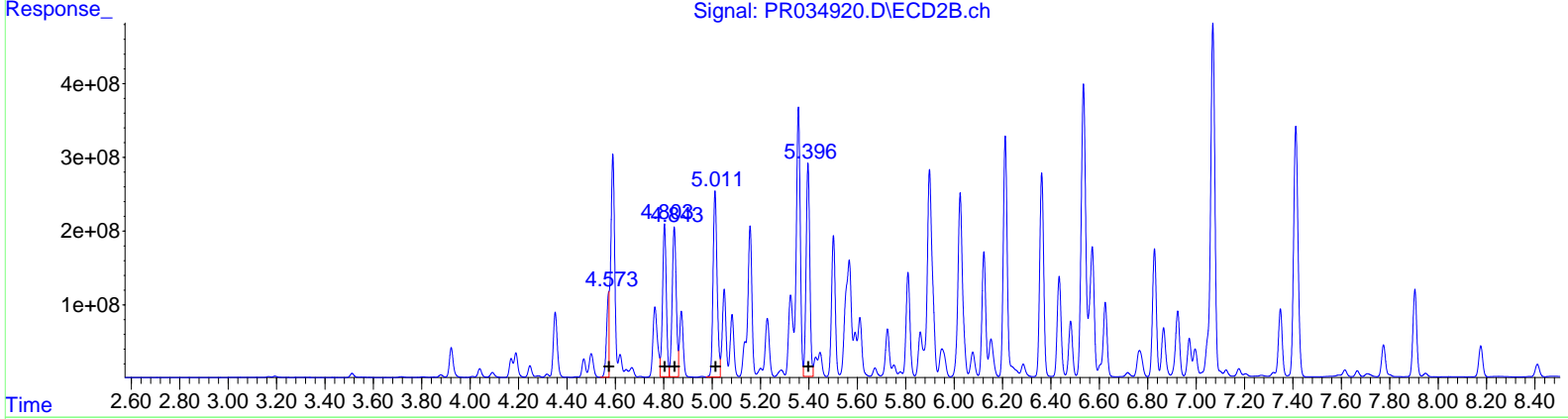
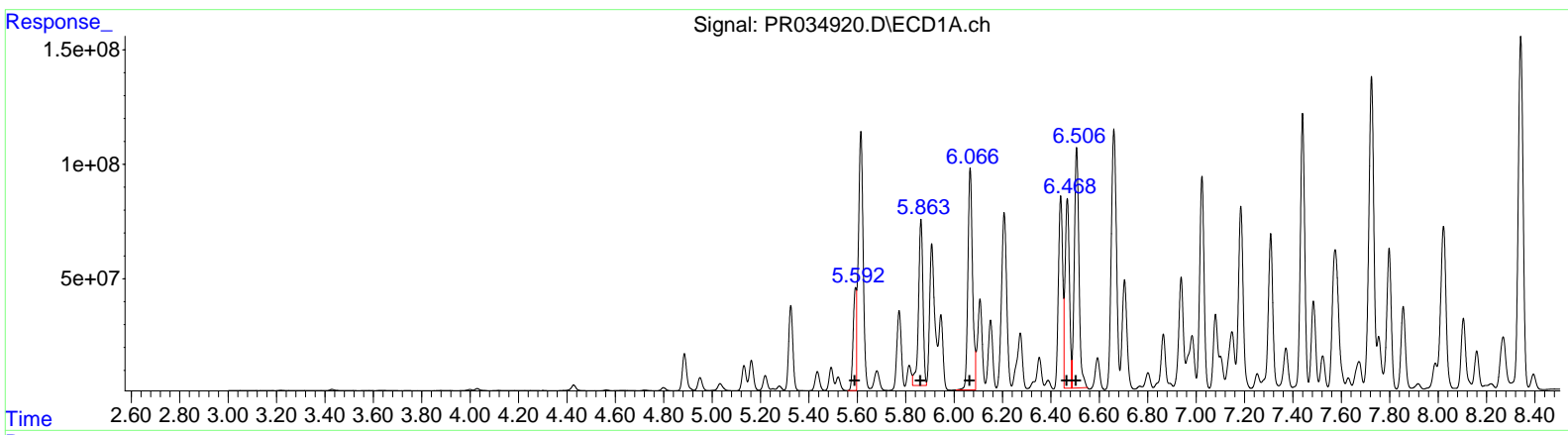
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 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MS

Manual Integrations
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 12/21/2018 6:11:48 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 5.59 | 396058739 | 8162.35 |
| 5.86 | 920473534 | 13931.05 |
| 6.07 | 1283692759 | 17181.21 |
| 6.47 | 1033577713 | 11568.27 |
| 6.51 | 1397263080 | 16700.04 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 4.57 | 790249865 | 8104.99 |
| 4.80 | 2245771138 | 17531.06 |
| 4.84 | 2358807378 | 17872.84 |
| 5.01 | 2950443406 | 17932.52 |
| 5.40 | 3050591808 | 18228.19 |

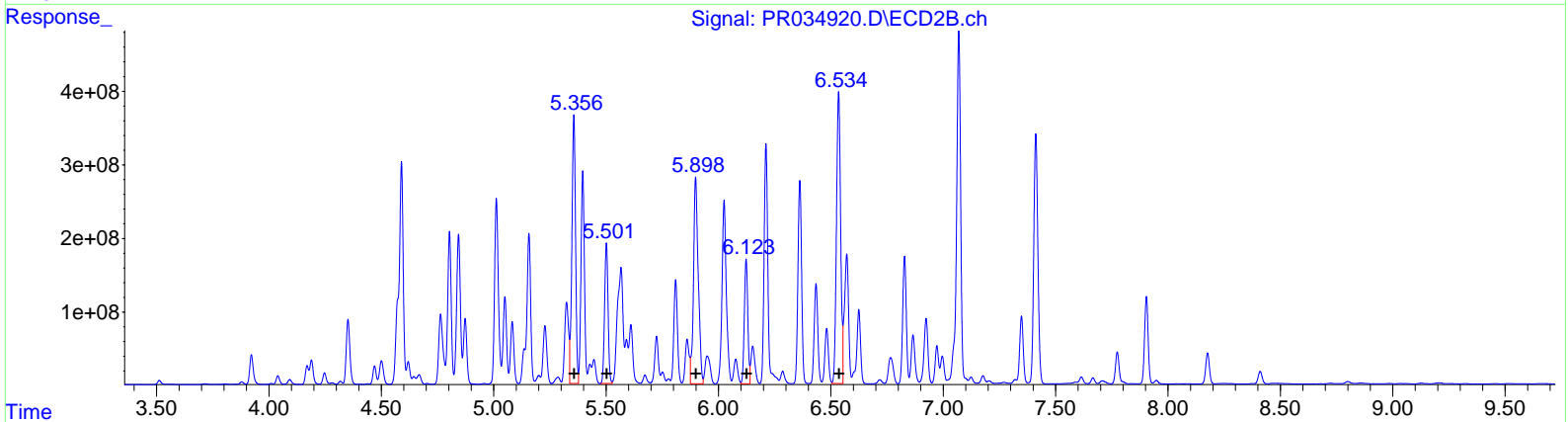
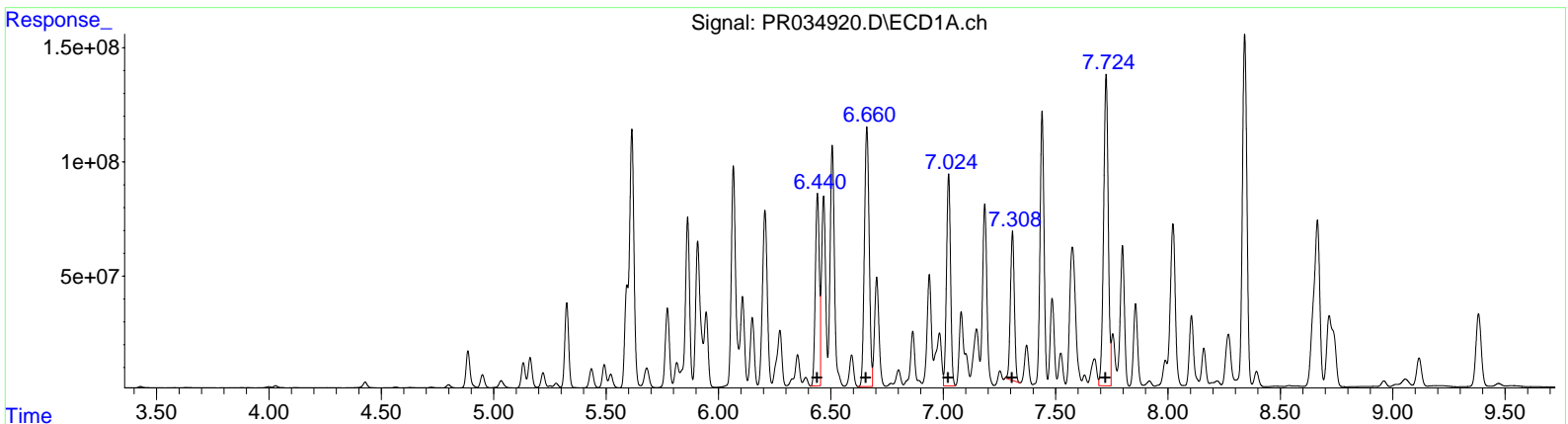
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 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MS

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:48 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 6.44 | 1035583081 | 12674.66 |
| 6.66 | 1673896406 | 13100.18 |
| 7.02 | 1157261544 | 8574.08 |
| 7.31 | 795316420 | 7497.48 |
| 7.72 | 1964310086 | 18333.48 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.36 | 4108666055 | 16791.06 |
| 5.50 | 2050522603 | 9640.92 |
| 5.90 | 4126144892 | 11547.53 |
| 6.12 | 1829455335 | 7745.68 |
| 6.53 | 5099744710 | 15989.58 |

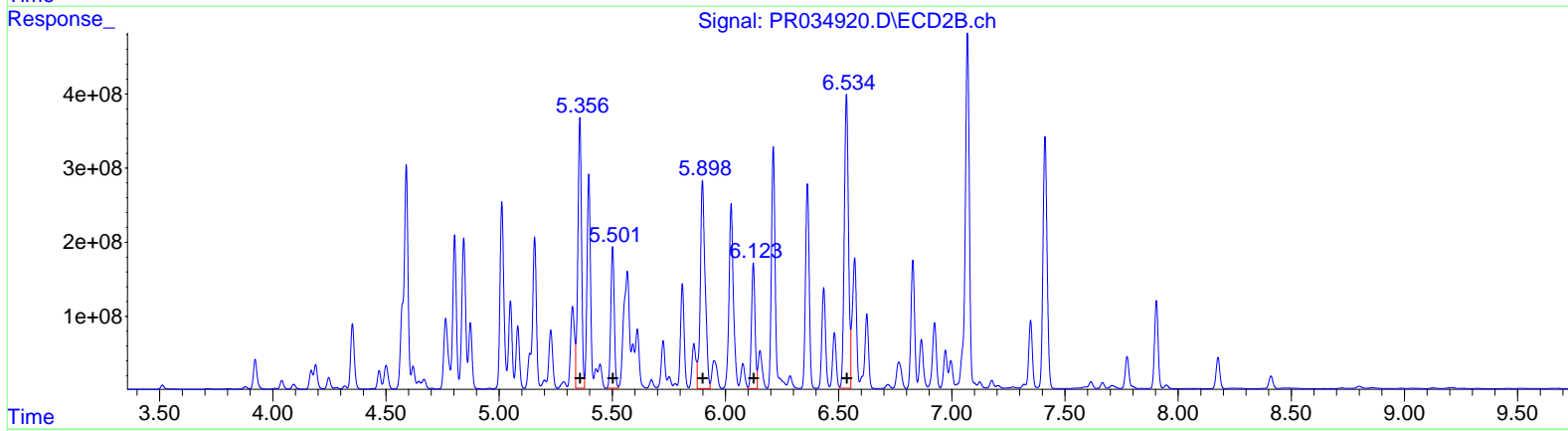
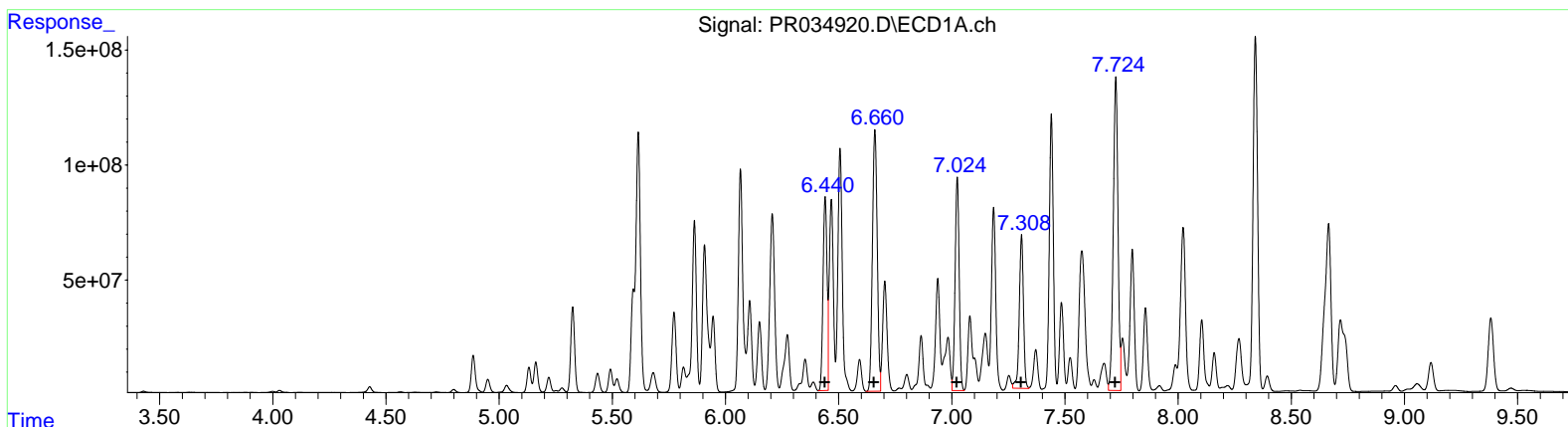
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MS

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:48 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 6.44 | 1035583081 | 12674.66 |
| 6.66 | 1673896406 | 13100.18 |
| 7.02 | 1157261544 | 8574.08 |
| 7.31 | 858538063 | 8093.47 |
| 7.72 | 1964310086 | 18333.48 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 5.36 | 4108666055 | 16791.06 |
| 5.50 | 2050522603 | 9640.92 |
| 5.90 | 4126144892 | 11547.53 |
| 6.12 | 1829455335 | 7745.68 |
| 6.53 | 5099744710 | 15989.58 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034925.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:38
 Operator : SM\SJ
 Sample : J6431-02MS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|------------|-------------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.512 | 31745222 | 61704536 | 16.321 | 17.701 |
| 2) SA Decachlor... | 10.113 | 8.410 | 101.1E6 | 203.5E6 | 51.439 | 46.290 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.593 | 4.574 | 396.1E6 | 834.8E6 | 5867.259 | 6415.174m |
| 4) L1 AR-1016-2 | 5.615 | 4.589 | 1582.7E6 | 3364.1E6 | 15982.733 | 17020.447m |
| 5) L1 AR-1016-3 | 5.681 | 4.764 | 129.2E6 | 1235.2E6 | 2194.716 | 12850.966 # |
| 6) L1 AR-1016-4 | 5.772 | 4.803 | 448.0E6 | 2245.8E6 | 9443.414m | 29726.017 # |
| 7) L1 AR-1016-5 | 6.066 | 5.012 | 1305.9E6 | 2914.6E6 | 27419.730m | 28345.485 |
| 21) L5 AR-1248-1 | 5.593 | 4.573 | 396.1E6 | 790.2E6 | 8162.351 | 8104.986m |
| 22) L5 AR-1248-2 | 5.863 | 4.803 | 920.5E6 | 2245.8E6 | 13931.054m | 17531.061 # |
| 23) L5 AR-1248-3 | 6.066 | 4.844 | 1283.7E6 | 2358.8E6 | 17181.211m | 17872.842 |
| 24) L5 AR-1248-4 | 6.468 | 5.011 | 1033.6E6 | 2950.4E6 | 11568.268 | 17932.523m# |
| 25) L5 AR-1248-5 | 6.506 | 5.396 | 1397.3E6 | 3050.6E6 | 16700.042 | 18228.193 |
| 26) L6 AR-1254-1 | 6.440 | 5.357 | 1035.6E6 | 4108.7E6 | 12674.656 | 16791.060 # |
| 27) L6 AR-1254-2 | 6.660 | 5.501 | 1673.9E6 | 2050.5E6 | 13100.177 | 9640.920 # |
| 28) L6 AR-1254-3 | 7.024 | 5.898 | 1157.3E6 | 4126.1E6 | 8574.083 | 11547.533 # |
| 29) L6 AR-1254-4 | 7.308 | 6.123 | 858.5E6 | 1829.5E6 | 8093.470m | 7745.682 |
| 30) L6 AR-1254-5 | 7.725 | 6.535 | 1964.3E6 | 5099.7E6 | 18333.476 | 15989.578 |
| 31) L7 AR-1260-1 | 7.185 | 6.025 | 1056.4E6 | 3339.6E6 | 11237.751 | 15534.988 # |
| 32) L7 AR-1260-2 | 7.440 | 6.211 | 1470.2E6 | 3827.6E6 | 12662.933 | 14065.873 |
| 33) L7 AR-1260-3 | 7.725 | 6.362 | 1964.3E6 | 3110.3E6 | 14075.385 | 12529.530 |
| 34) L7 AR-1260-4 | 8.022 | 6.828 | 1098.0E6 | 1923.1E6 | 12713.651 | 11246.729 |
| 35) L7 AR-1260-5 | 8.341 | 7.069 | 2097.9E6 | 6160.8E6 | 11619.076 | 12738.204 |

SS
12/26/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T6MSD(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-03MSD
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034926.D
 % Solids : 78.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 4600 | EP |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 5200 | E |
| 11097-69-1 | Aroclor-1254 | 4800 | E |
| 11096-82-5 | Aroclor-1260 | 4900 | E |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T6MSD(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6431-03MSD
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034926.D-2
 % Solids : 78.6 Date Received : 12/14/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 7200 | EP |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 6000 | E |
| 11097-69-1 | Aroclor-1254 | 4800 | E |
| 11096-82-5 | Aroclor-1260 | 5200 | E |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

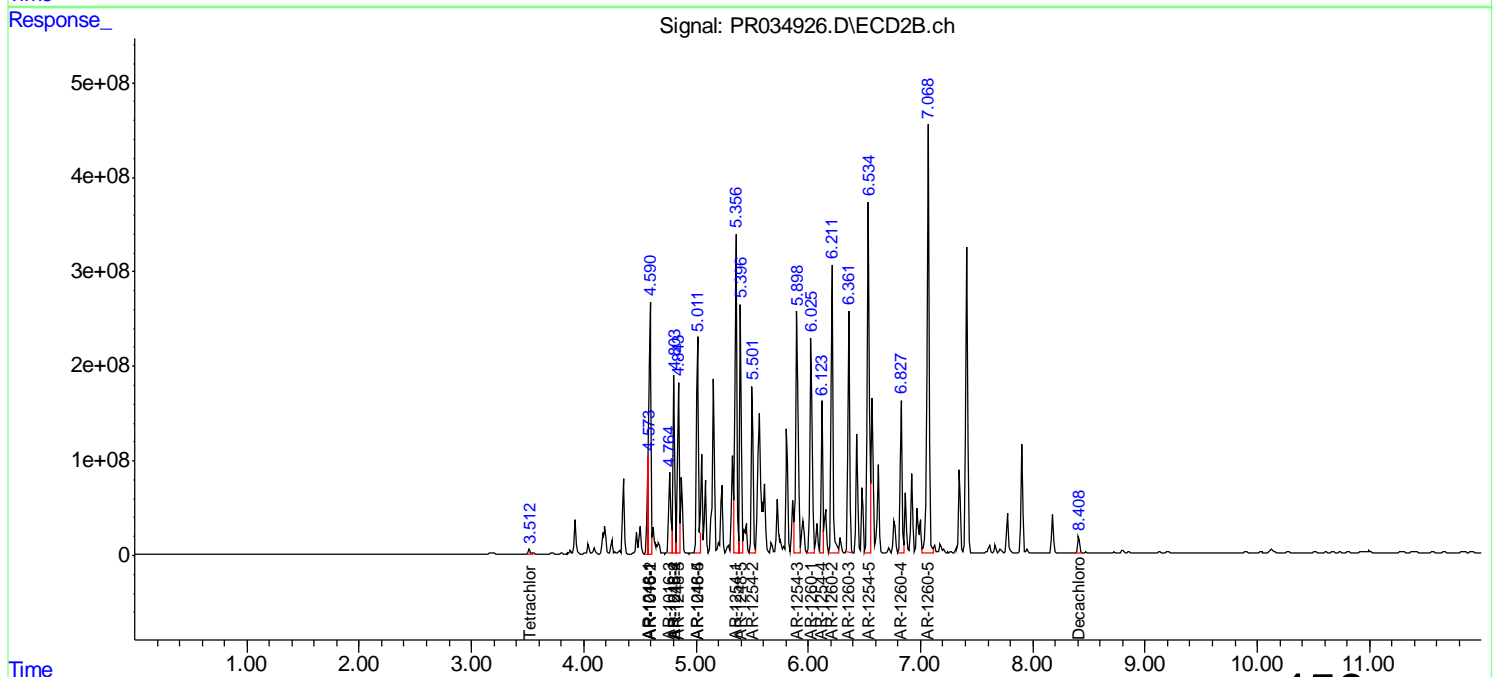
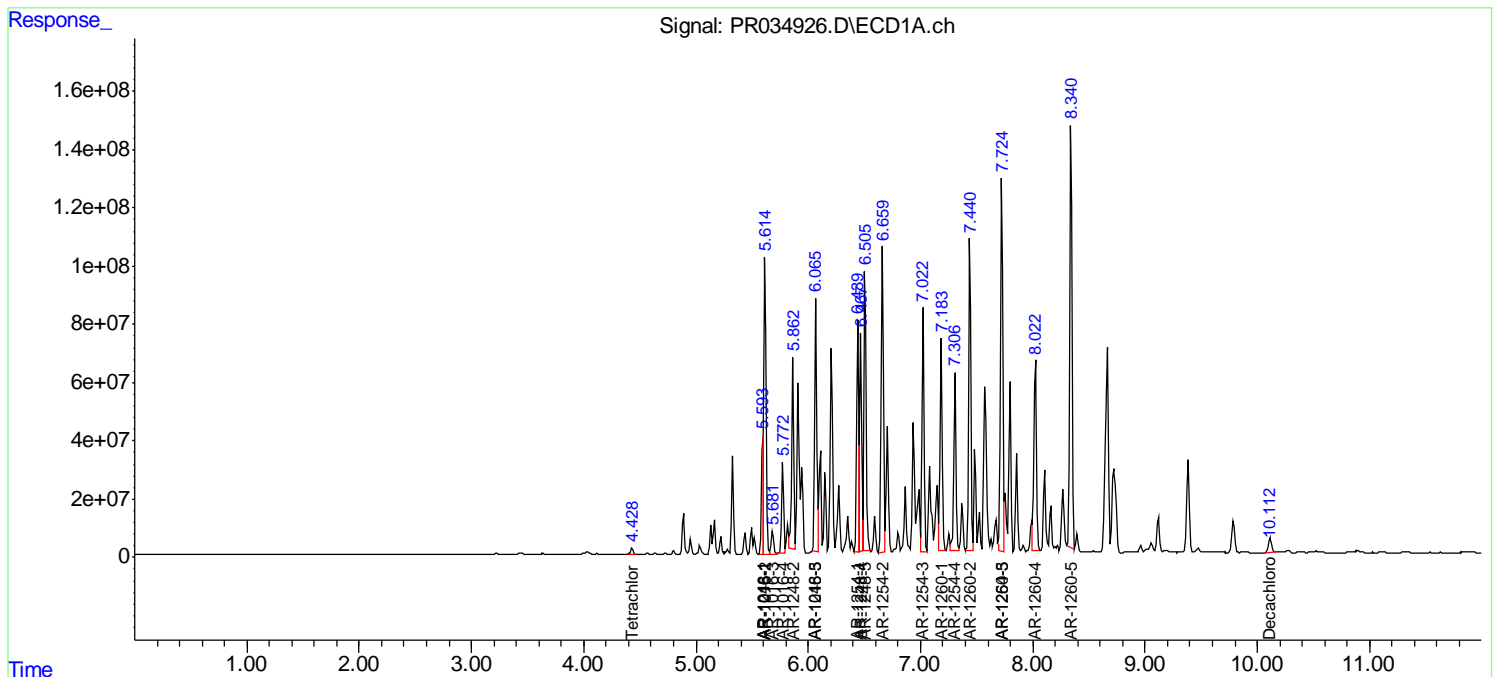
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 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MSD

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MSD

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|------------|-------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.429 | 3.513 | 27548821 | 54465842 | 14.164 | 15.624 |
| 2) SA Decachlor... | 10.113 | 8.409 | 98993395 | 204.8E6 | 50.355 | 46.588 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.593 | 4.574 | 396.4E6 | 764.2E6 | 5871.816m | 5873.054m |
| 4) L1 AR-1016-2 | 5.614 | 4.590 | 1387.0E6 | 3068.4E6 | 14005.841m | 15524.226m |
| 5) L1 AR-1016-3 | 5.681 | 4.765 | 119.5E6 | 1105.1E6 | 2030.267m | 11497.141 # |
| 6) L1 AR-1016-4 | 5.772 | 4.803 | 403.1E6 | 2033.9E6 | 8496.809m | 26921.969 # |
| 7) L1 AR-1016-5 | 6.065 | 5.012 | 1170.1E6 | 2630.4E6 | 24567.934m | 25580.829 |
| 21) L5 AR-1248-1 | 5.593 | 4.573 | 381.0E6 | 652.3E6 | 7851.806m | 6690.320m |
| 22) L5 AR-1248-2 | 5.862 | 4.803 | 842.4E6 | 2033.9E6 | 12749.250m | 15877.360 |
| 23) L5 AR-1248-3 | 6.066 | 4.844 | 1137.8E6 | 2129.2E6 | 15228.914 | 16133.395 |
| 24) L5 AR-1248-4 | 6.467 | 5.012 | 941.8E6 | 2630.4E6 | 10540.531 | 15987.145 # |
| 25) L5 AR-1248-5 | 6.506 | 5.396 | 1275.0E6 | 2787.2E6 | 15238.504 | 16654.556 |
| 26) L6 AR-1254-1 | 6.440 | 5.356 | 953.1E6 | 3776.3E6 | 11665.524 | 15432.784 # |
| 27) L6 AR-1254-2 | 6.660 | 5.501 | 1527.9E6 | 1871.0E6 | 11957.976 | 8796.702 # |
| 28) L6 AR-1254-3 | 7.023 | 5.898 | 1065.4E6 | 3781.6E6 | 7893.490 | 10583.269 # |
| 29) L6 AR-1254-4 | 7.306 | 6.123 | 811.0E6 | 1686.3E6 | 7645.356m | 7139.521 |
| 30) L6 AR-1254-5 | 7.724 | 6.535 | 1834.8E6 | 4750.9E6 | 17124.918 | 14895.978 |
| 31) L7 AR-1260-1 | 7.184 | 6.025 | 970.5E6 | 3070.8E6 | 10323.258 | 14284.431 # |
| 32) L7 AR-1260-2 | 7.440 | 6.211 | 1368.7E6 | 3544.7E6 | 11788.527 | 13026.200 |
| 33) L7 AR-1260-3 | 7.724 | 6.361 | 1834.8E6 | 2870.2E6 | 13147.524 | 11562.383 |
| 34) L7 AR-1260-4 | 8.022 | 6.827 | 1026.4E6 | 1787.7E6 | 11884.516 | 10455.045 |
| 35) L7 AR-1260-5 | 8.340 | 7.068 | 1990.4E6 | 5840.5E6 | 11024.124 | 12075.929 |

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

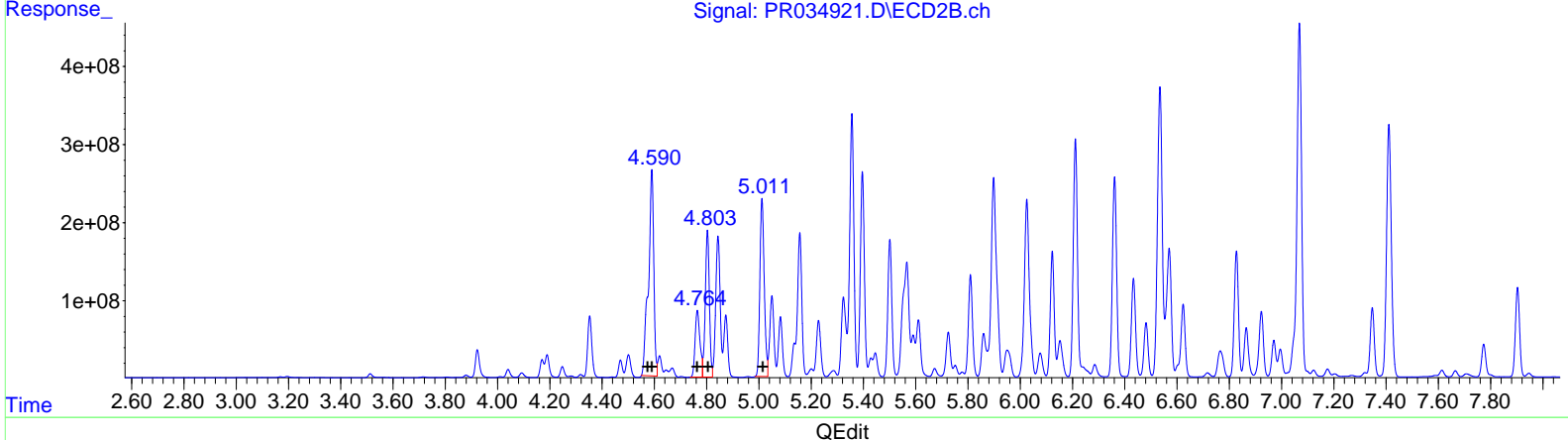
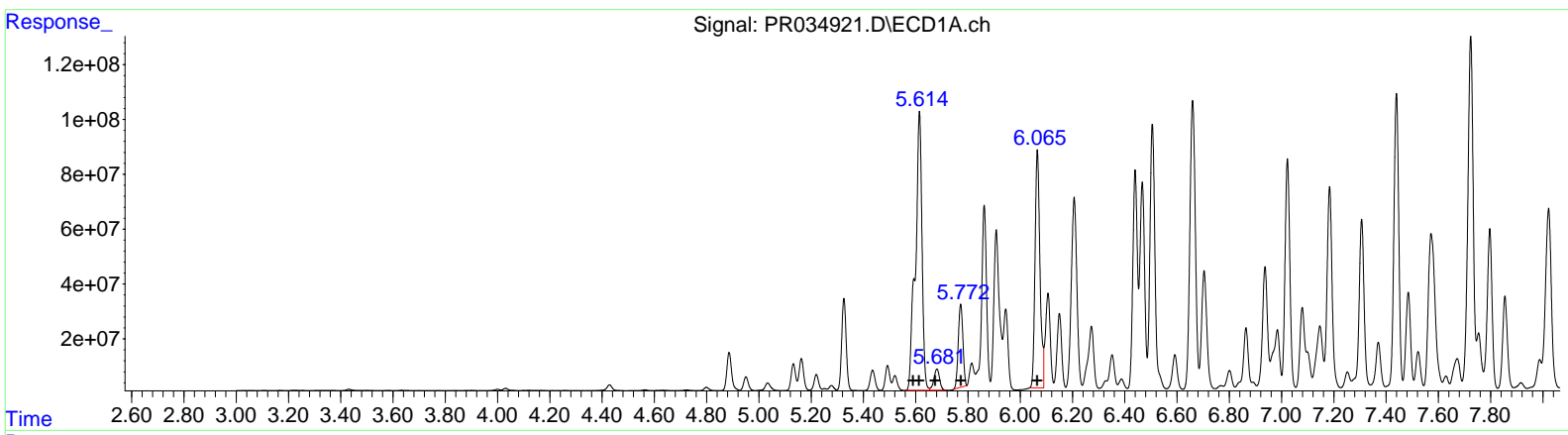
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MSD

Manual Integrations
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 12/21/2018 6:11:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (3) AR-1016-1 (L1) | | | |
|-----------------------|------------|----------|--|
| R.T. | Response | Conc | |
| 5.61 | 1792748744 | 26557.98 | |
| 5.61 | 1792748744 | 18103.65 | |
| 5.68 | 116917044 | 1986.50 | |
| 5.77 | 371024624 | 7821.43 | |
| 6.07 | 1137827021 | 23890.10 | |
| (3) AR-1016-1 #2 (L1) | | | |
| R.T. | Response | Conc | |
| 4.59 | 3761282420 | 28905.26 | |
| 4.59 | 3761282420 | 19029.99 | |
| 4.76 | 1105058808 | 11497.14 | |
| 4.80 | 2033928137 | 26921.97 | |
| 5.01 | 2630369747 | 25580.83 | |

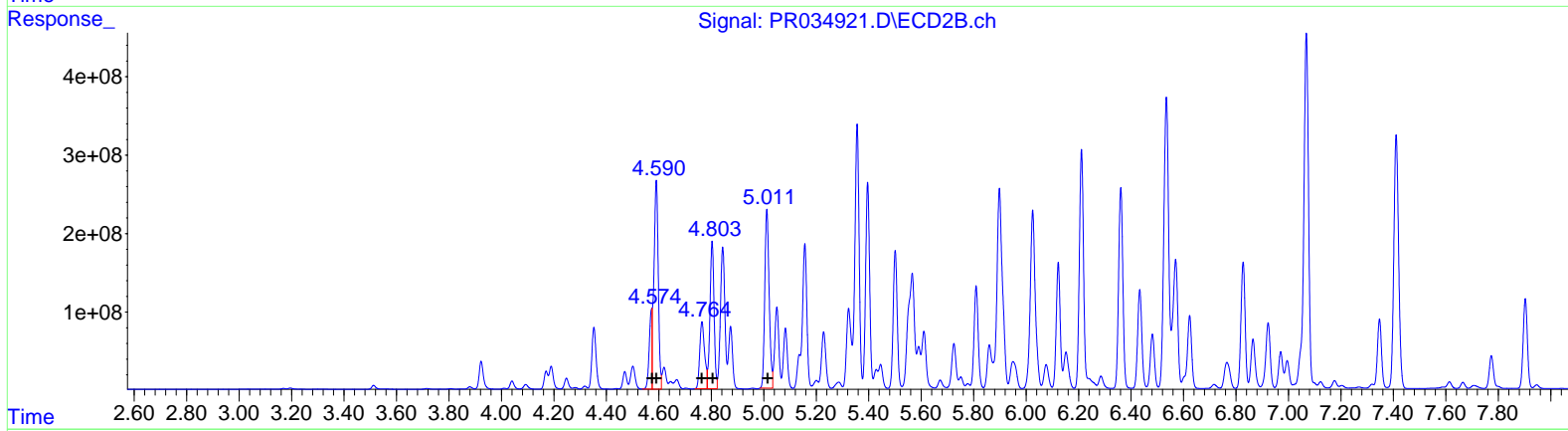
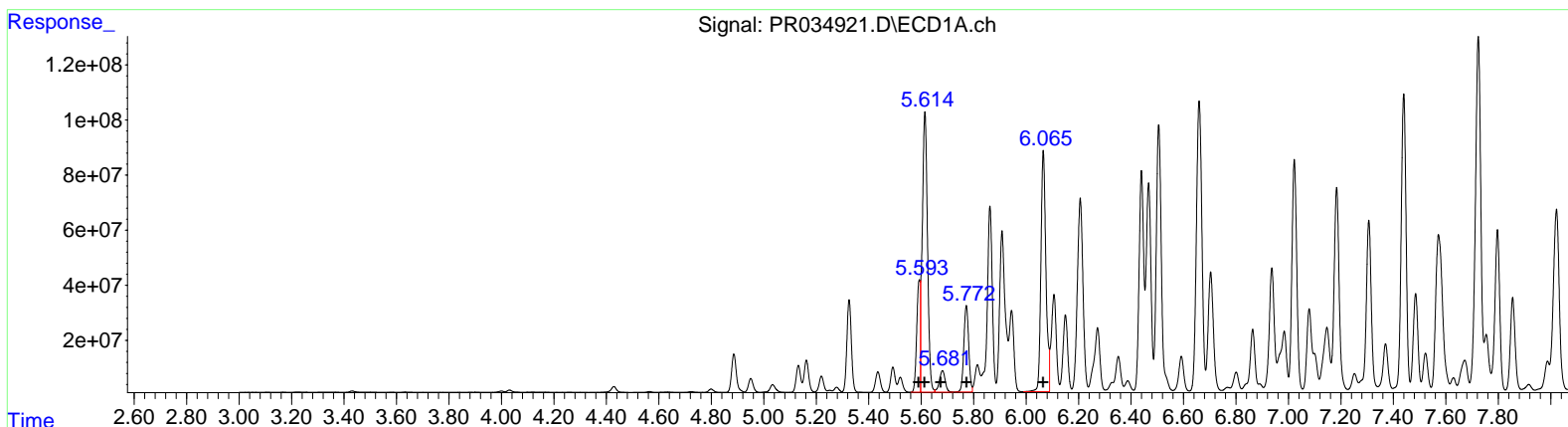
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 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MSD

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (3) AR-1016-1 (L1) | | | |
|-----------------------|------------|----------|--|
| R.T. | Response | Conc | |
| 5.59 | 396366355 | 5871.82 | |
| 5.61 | 1386955334 | 14005.84 | |
| 5.68 | 119492857 | 2030.27 | |
| 5.77 | 403062327 | 8496.81 | |
| 6.06 | 1170110662 | 24567.93 | |
| (3) AR-1016-1 #2 (L1) | | | |
| R.T. | Response | Conc | |
| 4.57 | 764228139 | 5873.05 | |
| 4.59 | 3068367155 | 15524.23 | |
| 4.76 | 1105058808 | 11497.14 | |
| 4.80 | 2033928137 | 26921.97 | |
| 5.01 | 2630369747 | 25580.83 | |

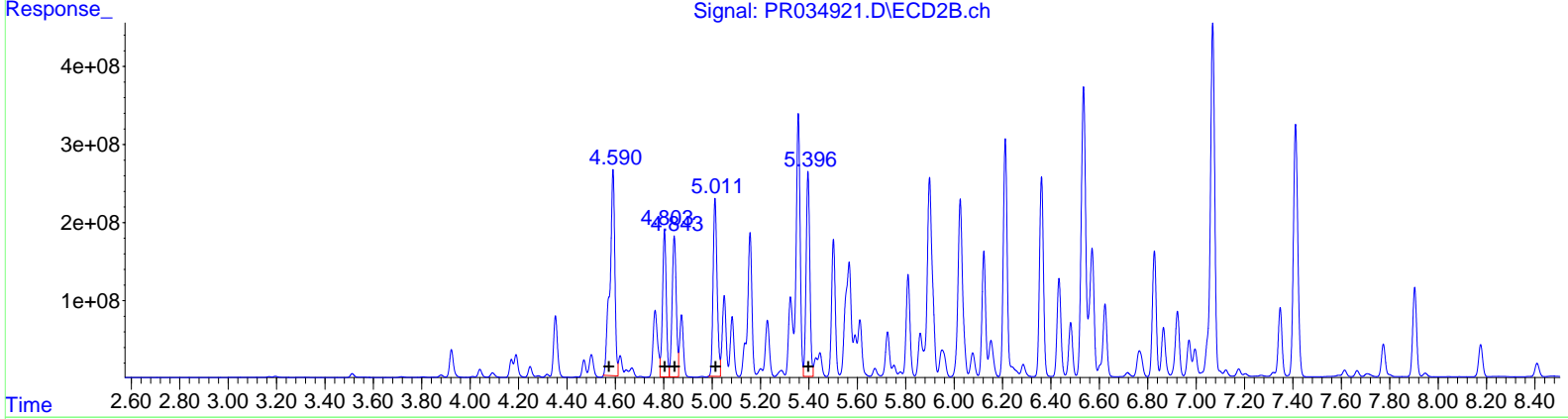
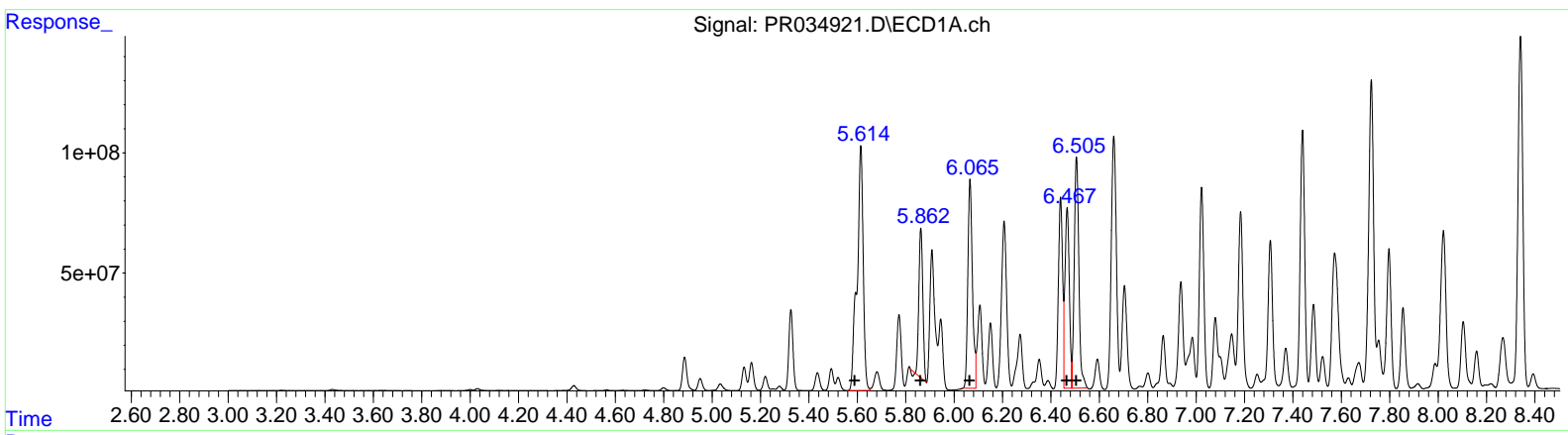
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 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MSD

Manual Integrations
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 12/21/2018 6:11:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 5.61 | 1792748744 | 36946.65 |
| 5.86 | 700197093 | 10597.24 |
| 6.07 | 1137827021 | 15228.91 |
| 6.47 | 941753635 | 10540.53 |
| 6.51 | 1274978784 | 15238.50 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.59 | 3761282420 | 38576.59 |
| 4.80 | 2033928137 | 15877.36 |
| 4.84 | 2129240026 | 16133.39 |
| 5.01 | 2630369747 | 15987.15 |
| 5.40 | 2787234652 | 16654.56 |

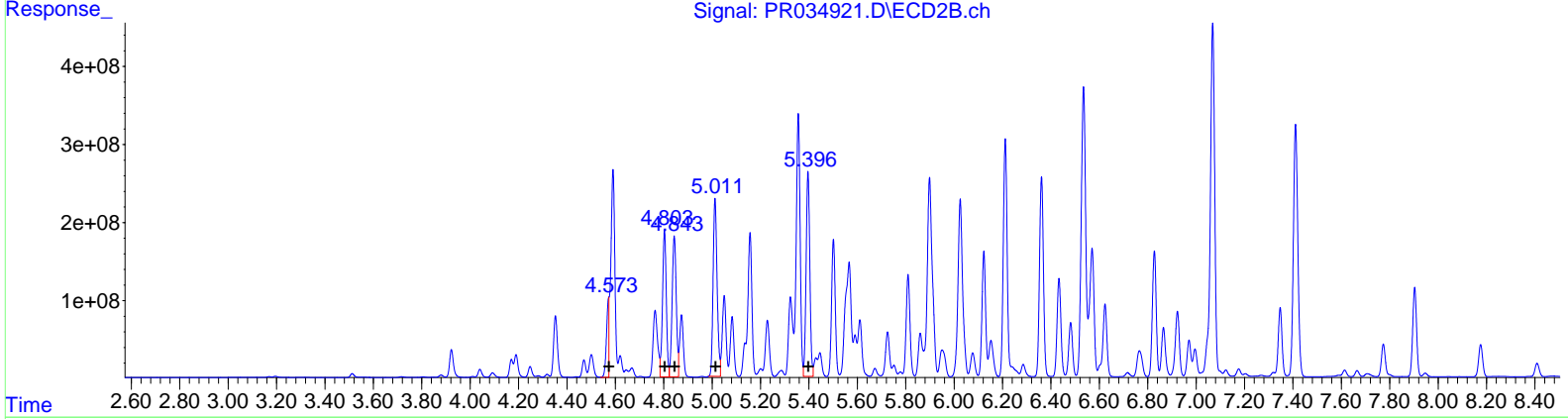
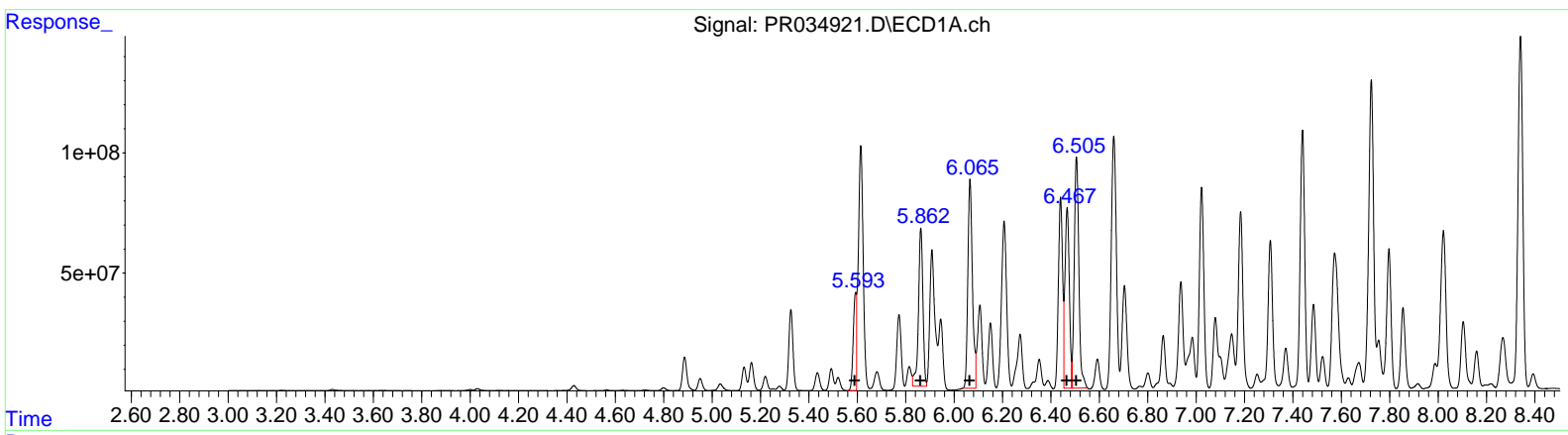
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 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T6MSD

Manual Integrations
APPROVED
 Sohil
 12/21/2018 6:11:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (21) AR-1248-1 (L5) | | |
|---------------------|------------|----------|
| R.T. | Response | Conc |
| 5.59 | 380990260 | 7851.81 |
| 5.86 | 842387630 | 12749.25 |
| 6.07 | 1137827021 | 15228.91 |
| 6.47 | 941753635 | 10540.53 |
| 6.51 | 1274978784 | 15238.50 |

| (21) AR-1248-1 #2 (L5) | | |
|------------------------|------------|----------|
| R.T. | Response | Conc |
| 4.57 | 652317537 | 6690.32 |
| 4.80 | 2033928137 | 15877.36 |
| 4.84 | 2129240026 | 16133.39 |
| 5.01 | 2630369747 | 15987.15 |
| 5.40 | 2787234652 | 16654.56 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

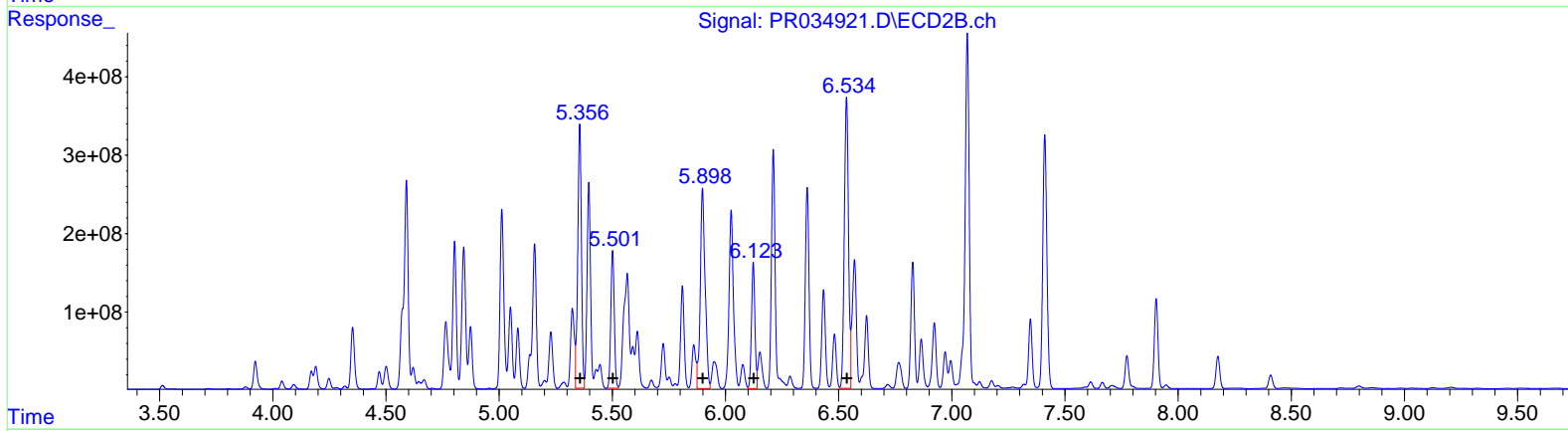
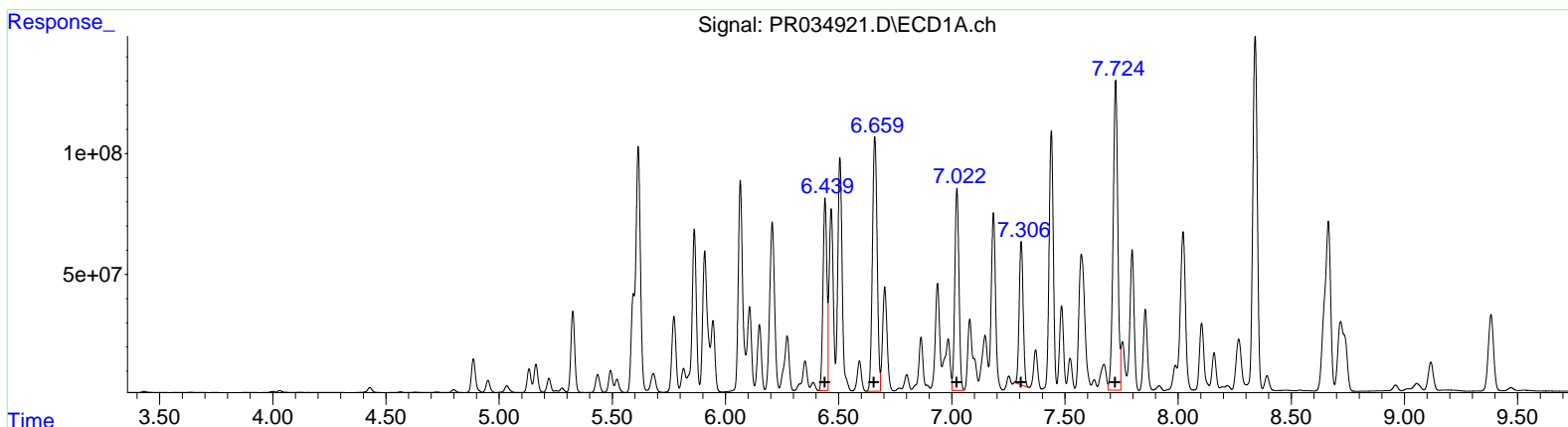
Instrument :
 ECD_R
 ClientSampled :
 A41T6MSD

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | | |
|------------------------|------------|----------|--|
| R.T. | Response | Conc | |
| 6.44 | 953131922 | 11665.52 | |
| 6.66 | 1527949891 | 11957.98 | |
| 7.02 | 1065400537 | 7893.49 | |
| 7.31 | 726598869 | 6849.67 | |
| 7.72 | 1834821218 | 17124.92 | |
| (26) AR-1254-1 #2 (L6) | | | |
| R.T. | Response | Conc | |
| 5.36 | 3776304546 | 15432.78 | |
| 5.50 | 1870966171 | 8796.70 | |
| 5.90 | 3781595724 | 10583.27 | |
| 6.12 | 1686285983 | 7139.52 | |
| 6.53 | 4750949697 | 14895.98 | |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

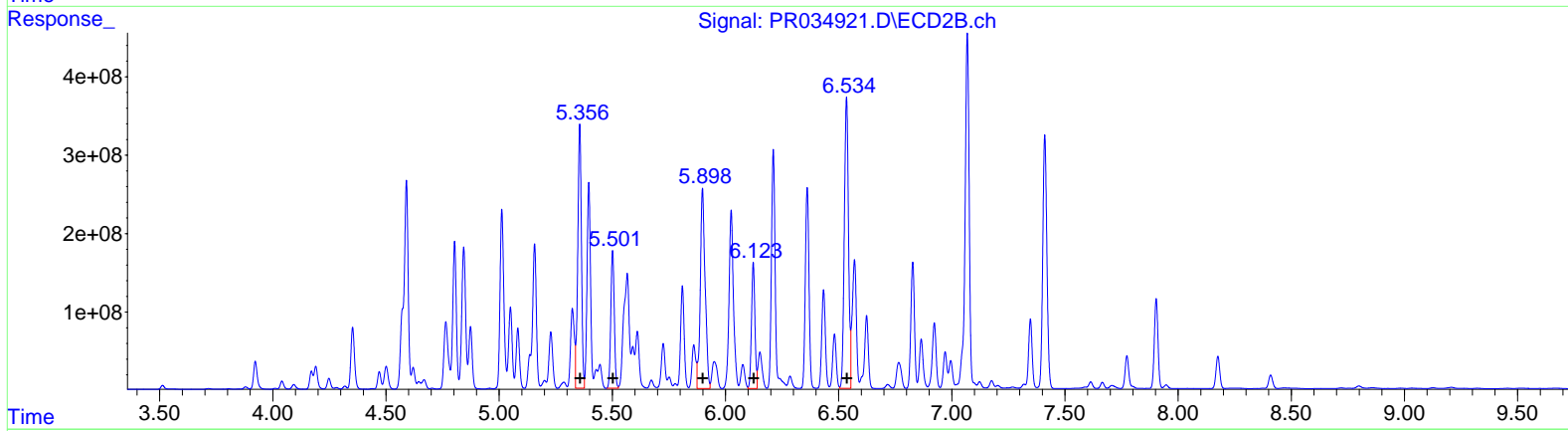
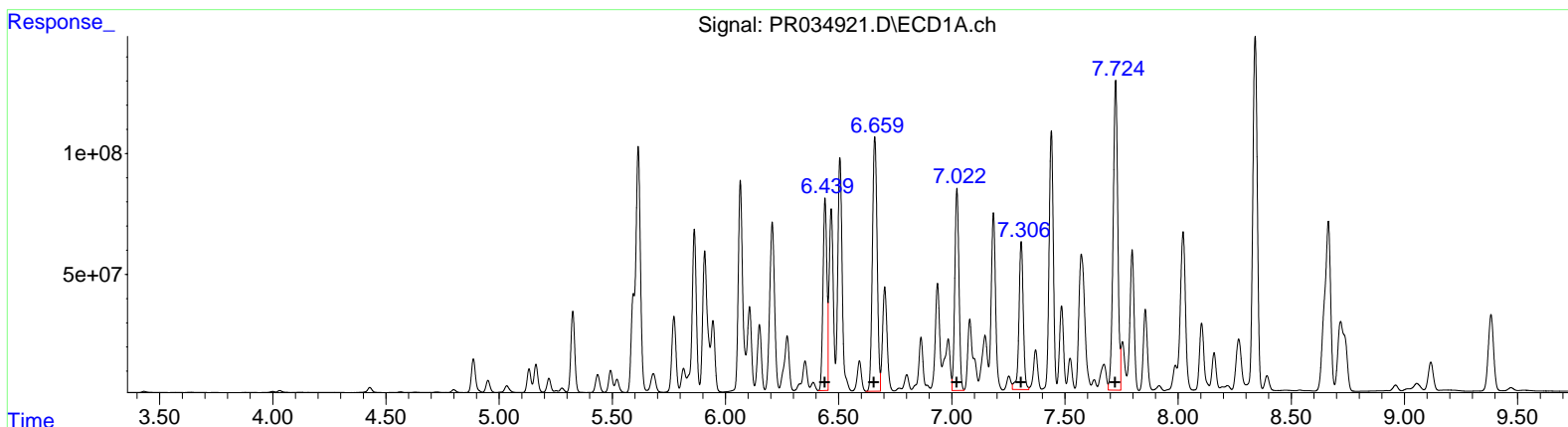
Instrument :
 ECD_R
 ClientSampled :
 A41T6MSD

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:50 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | | |
|------------------------|------------|----------|--|
| R.T. | Response | Conc | |
| 6.44 | 953131922 | 11665.52 | |
| 6.66 | 1527949891 | 11957.98 | |
| 7.02 | 1065400537 | 7893.49 | |
| 7.31 | 811003042 | 7645.36 | |
| 7.72 | 1834821218 | 17124.92 | |
| (26) AR-1254-1 #2 (L6) | | | |
| R.T. | Response | Conc | |
| 5.36 | 3776304546 | 15432.78 | |
| 5.50 | 1870966171 | 8796.70 | |
| 5.90 | 3781595724 | 10583.27 | |
| 6.12 | 1686285983 | 7139.52 | |
| 6.53 | 4750949697 | 14895.98 | |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034926.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:52
 Operator : SM\SJ
 Sample : J6431-03MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T6MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:42:22 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED

Sohil
 12/21/2018 6:11:50 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|------------|-------------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.429 | 3.513 | 27548821 | 54465842 | 14.164 | 15.624 |
| 2) SA Decachlor... | 10.113 | 8.409 | 98993395 | 204.8E6 | 50.355 | 46.588 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.593 | 4.574 | 396.4E6 | 764.2E6 | 5871.816m | 5873.054m |
| 4) L1 AR-1016-2 | 5.614 | 4.590 | 1387.0E6 | 3068.4E6 | 14005.841m | 15524.226m |
| 5) L1 AR-1016-3 | 5.681 | 4.765 | 119.5E6 | 1105.1E6 | 2030.267m | 11497.141 # |
| 6) L1 AR-1016-4 | 5.772 | 4.803 | 403.1E6 | 2033.9E6 | 8496.809m | 26921.969 # |
| 7) L1 AR-1016-5 | 6.065 | 5.012 | 1170.1E6 | 2630.4E6 | 24567.934m | 25580.829 |
| 21) L5 AR-1248-1 | 5.593 | 4.573 | 381.0E6 | 652.3E6 | 7851.806m | 6690.320m |
| 22) L5 AR-1248-2 | 5.862 | 4.803 | 842.4E6 | 2033.9E6 | 12749.250m | 15877.360 |
| 23) L5 AR-1248-3 | 6.066 | 4.844 | 1137.8E6 | 2129.2E6 | 15228.914 | 16133.395 |
| 24) L5 AR-1248-4 | 6.467 | 5.012 | 941.8E6 | 2630.4E6 | 10540.531 | 15987.145 # |
| 25) L5 AR-1248-5 | 6.506 | 5.396 | 1275.0E6 | 2787.2E6 | 15238.504 | 16654.556 |
| 26) L6 AR-1254-1 | 6.440 | 5.356 | 953.1E6 | 3776.3E6 | 11665.524 | 15432.784 # |
| 27) L6 AR-1254-2 | 6.660 | 5.501 | 1527.9E6 | 1871.0E6 | 11957.976 | 8796.702 # |
| 28) L6 AR-1254-3 | 7.023 | 5.898 | 1065.4E6 | 3781.6E6 | 7893.490 | 10583.269 # |
| 29) L6 AR-1254-4 | 7.306 | 6.123 | 811.0E6 | 1686.3E6 | 7645.356m | 7139.521 |
| 30) L6 AR-1254-5 | 7.724 | 6.535 | 1834.8E6 | 4750.9E6 | 17124.918 | 14895.978 |
| 31) L7 AR-1260-1 | 7.184 | 6.025 | 970.5E6 | 3070.8E6 | 10323.258 | 14284.431 # |
| 32) L7 AR-1260-2 | 7.440 | 6.211 | 1368.7E6 | 3544.7E6 | 11788.527 | 13026.200 |
| 33) L7 AR-1260-3 | 7.724 | 6.361 | 1834.8E6 | 2870.2E6 | 13147.524 | 11562.383 |
| 34) L7 AR-1260-4 | 8.022 | 6.827 | 1026.4E6 | 1787.7E6 | 11884.516 | 10455.045 |
| 35) L7 AR-1260-5 | 8.340 | 7.068 | 1990.4E6 | 5840.5E6 | 11024.124 | 12075.929 |

SS
 12/26/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ALCS54(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115754BS
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034923.D
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 34 | |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 35 | |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ALCS54 (2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T6
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115754BS
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034923.D-2
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/20/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

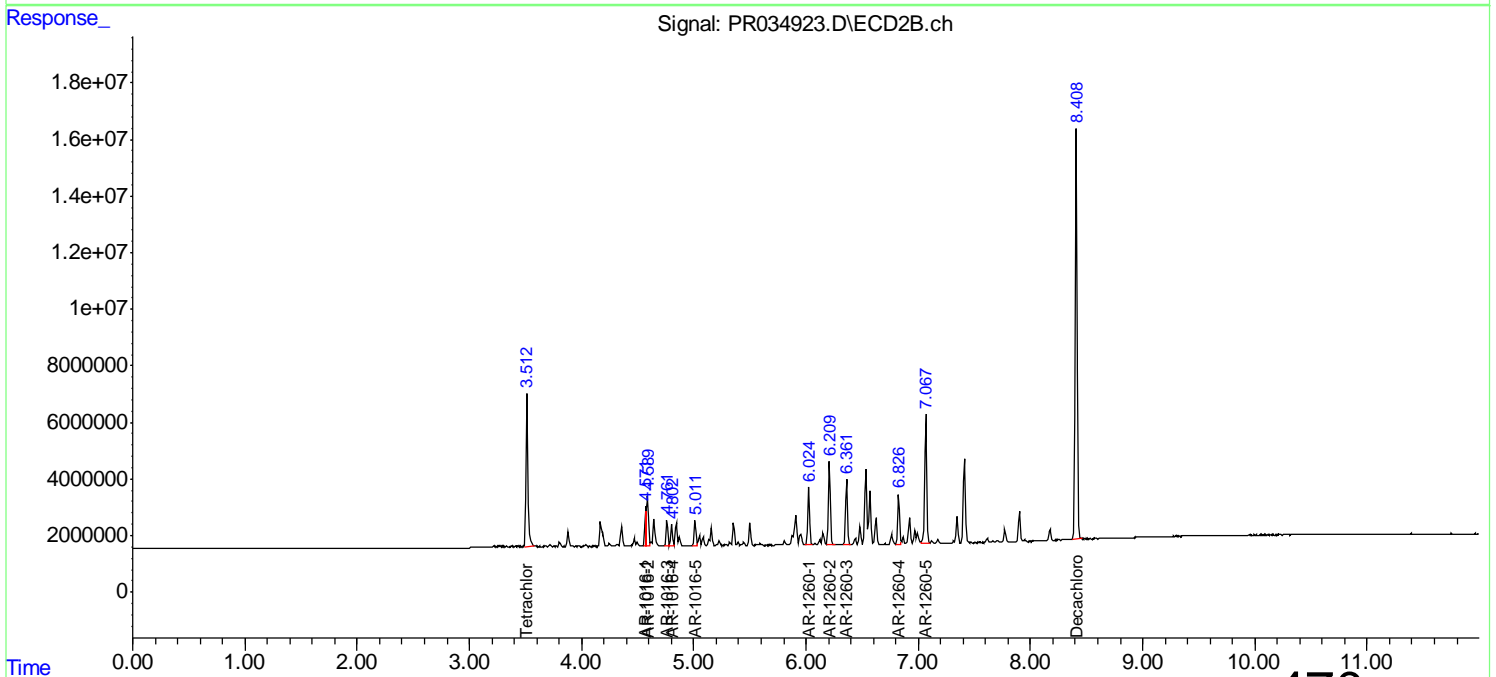
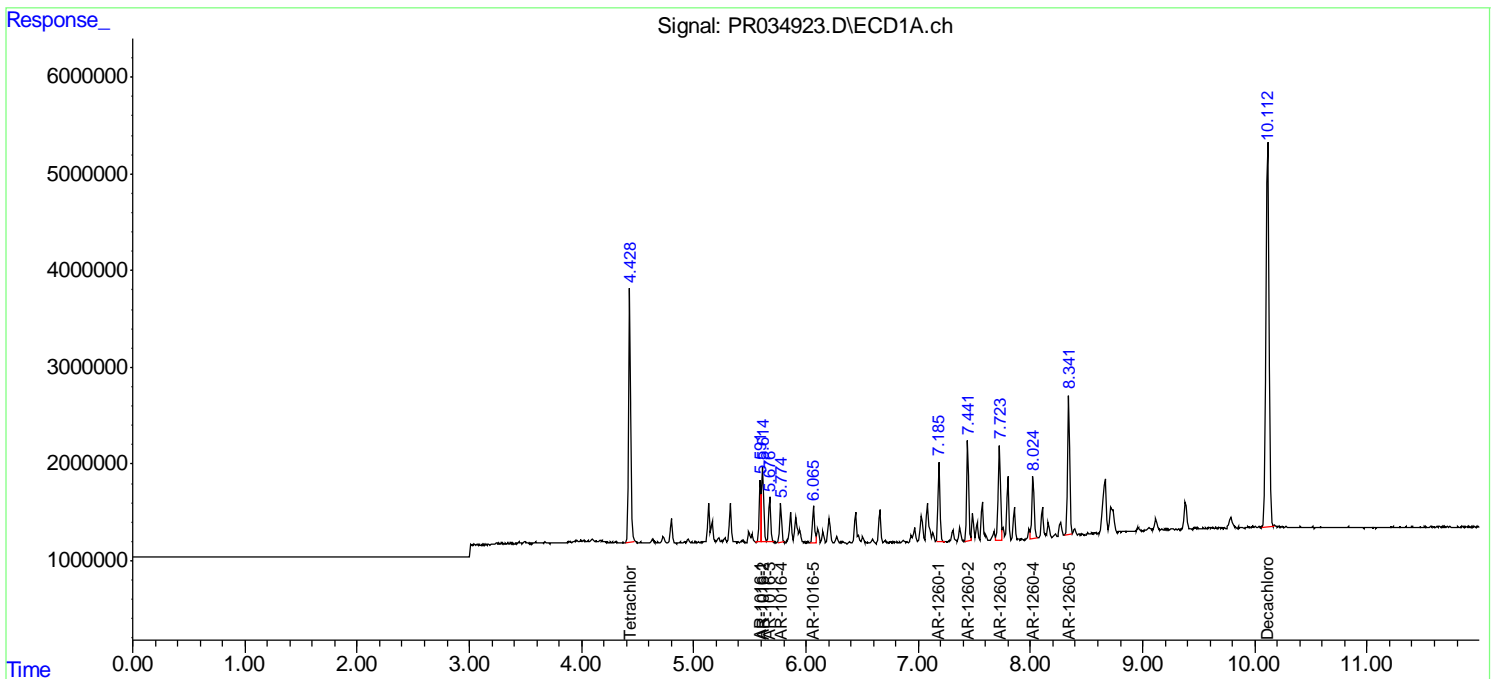
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 34 | |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 38 | |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034923.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:09
 Operator : SM\SJ
 Sample : PB115754BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 ALCS54

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122118\
 Data File : PR034923.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 20 Dec 2018 14:09
 Operator : SM\SJ
 Sample : PB115754BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 ALCS54

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 00:41:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.512 | 33109940 | 63812346 | 17.023 | 18.305 |
| 2) SA Decachlor... | 10.113 | 8.408 | 76749883 | 178.1E6 | 39.040 | 40.500 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.592 | 4.572 | 7204695 | 13089281 | 106.731 | 100.590 |
| 4) L1 AR-1016-2 | 5.614 | 4.589 | 10120225 | 19571207 | 102.197 | 99.019 |
| 5) L1 AR-1016-3 | 5.676 | 4.762 | 5885771 | 10053074 | 100.003 | 104.593 |
| 6) L1 AR-1016-4 | 5.775 | 4.802 | 4801244 | 8087856 | 101.213 | 107.054 |
| 7) L1 AR-1016-5 | 6.066 | 5.011 | 4946222 | 10755099 | 103.852 | 104.595 |
| 31) L7 AR-1260-1 | 7.185 | 6.024 | 10430704 | 23336471 | 110.955 | 108.556 |
| 32) L7 AR-1260-2 | 7.441 | 6.209 | 12625503 | 34647541 | 108.746 | 127.324 |
| 33) L7 AR-1260-3 | 7.724 | 6.361 | 14472821 | 26438934 | 103.706 | 106.507 |
| 34) L7 AR-1260-4 | 8.023 | 6.827 | 8856814 | 19821496 | 102.553 | 115.922 |
| 35) L7 AR-1260-5 | 8.341 | 7.067 | 18993199 | 54335142 | 105.194 | 112.345 |
| ----- | | | | | | |

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

SOP ID: MSOM02.4-PCB-1
Clean Up SOP #: Acid Cleanup **Extraction Start Date :** 12/17/2018
Matrix : Solid **Extraction Start Time :** 09:52
Weigh By: RJ **Extraction By:** RJ **Extraction End Date :** 12/17/2018
Balance check: HP **Filter By:** RJ **Extraction End Time :** 15:00
Balance ID: EX-SC-1 **pH Meter ID:** N/A **Concentration By:** HP
pH Strip Lot#: N/A **Hood ID:** 3,7 **Supervisor By :** rajesh
Extraction Method: Seperatory Funne Continious Liquid/Liquid Sonication Waste Dilution Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1 | 1.0ML | 1000 PPB | PP14582 |
| Matrix Spike | 1.0ML | N/A | PP14442 |
| Surrogate | 1.0ML | 200/400 PPB | PP14678 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| Hexane/Acetone/1:1 | N/A | EP1911 |
| Baked Na2SO4 | N/A | EP1909 |
| Hexane | N/A | E2559 |
| H2SO4 1:1 | N/A | EP1896 |
| 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:

GPC PROJECT J6439 & J6332

KD Bath ID: N/A **Envap ID:** NE.VAP-2
KD Bath Temperature: N/A **Envap Temperature:** 40 °C
Received Date/Time: 12/17/18 **Received By:** SC
Delivered Date/Time: 12/17/18 15:05 **Delivered By:** RP

Analytical Method: MSOM02.4-PCB-1

Concentration Date: 12/17/2018

| Sample ID | Client Sample ID | Test | g/ mL | PH | Surr/Spike By: | | Final Vol.(mL) | JarID | Comments | Prep Pos |
|------------|------------------|------|-------|----|----------------|------------|----------------|-------|-----------|----------|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB115754BL | ABLK54 | PCB | 30.01 | | ritesh | Hiral | 10 | | | U6-1 |
| PB115754BS | ALCS54 | PCB | 30.02 | | ritesh | Hiral | 10 | | | 2 |
| J6431-01 | A41T6 | PCB | 30.11 | | ritesh | Hiral | 10 | | BLACK | U3-1 |
| J6431-02 | A41T6MS | PCB | 30.10 | | ritesh | Hiral | 10 | | BLACK | 2 |
| J6431-03 | A41T6MSD | PCB | 30.08 | | ritesh | Hiral | 10 | | BLACK | 3 |
| J6431-04 | A41W4 | PCB | 30.07 | | ritesh | Hiral | 10 | A | BLACK | 4 |
| J6431-05 | A41X1 | PCB | 30.03 | | ritesh | Hiral | 10 | | L YELLOW | 5 |
| J6431-06 | A41X2 | PCB | 30.11 | | ritesh | Hiral | 10 | | D BROWN | 6 |
| J6431-07 | A41X3 | PCB | 30.00 | | ritesh | Hiral | 10 | | L. YELLOW | U4-1 |
| J6431-08 | A41X4 | PCB | 30.02 | | ritesh | Hiral | 10 | | L YELLOW | 2 |
| J6431-09 | A41X5 | PCB | 30.08 | | ritesh | Hiral | 10 | | D BROWN | 3 |
| J6431-10 | A41X6 | PCB | 30.04 | | ritesh | Hiral | 10 | | BLACK | 4 |
| J6431-11 | A41X7 | PCB | 30.09 | | ritesh | Hiral | 10 | | BROWN | 5 |
| J6431-12 | A41X8 | PCB | 30.07 | | ritesh | Hiral | 10 | | | 6 |
| J6431-13 | A41X9 | PCB | 30.12 | | ritesh | Hiral | 10 | | YELLOW | U5-1 |
| J6431-14 | A41Y0 | PCB | 30.02 | | ritesh | Hiral | 10 | | D. BROWN | 2 |
| J6431-15 | A41Y1 | PCB | 30.09 | | ritesh | Hiral | 10 | | D. BROWN | 3 |
| J6431-16 | A41Y2 | PCB | 30.10 | | ritesh | Hiral | 10 | | | 4 |
| J6431-17 | A41Y3 | PCB | 30.09 | | ritesh | Hiral | 10 | | BROWN | 5 |
| J6431-18 | A41Z4 | PCB | 30.03 | | ritesh | Hiral | 10 | | | 6 |

* Extracts relinquished on the same date as received.

Handwritten signature
12/17

PERCENT SOLID

Supervisor: apatel
 Analyst: jignesh
 Date: 12/17/2018

OVENTEMP IN Celsius(°C): 108
 Time IN: 15:30
 In Date: 12/15/2018
 Weight Check 1.0g: 1.00
 Weight Check 10g: 10.00
 OvenID: M Oven-1

OVENTEMP OUT Celsius(°C): 103
 Time OUT: 07:35
 Out Date: 12/16/2018
 Weight Check 1.0g: 1.00
 Weight Check 10g: 10.00
 BalanceID: M Sc-1

QC:LB99837

| Lab ID | Client Sample ID | Dish# | Dish Wt(g) (A) | Dish + Sample Wt(g) (B) | Dish + Dry Sample Wt(g) (C) | % Solid |
|----------|------------------|-------|-------------------|-------------------------------|-----------------------------------|---------|
| J6431-01 | A41T6 | 1 | 1.13 | 9.59 | 7.78 | 78.6 |
| J6431-02 | A41T6MS | 2 | 1.13 | 9.59 | 7.78 | 78.6 |
| J6431-03 | A41T6MSD | 3 | 1.13 | 9.59 | 7.78 | 78.6 |
| J6431-04 | A41W4 | 4 | 1.17 | 9.97 | 8.93 | 88.2 |
| J6431-05 | A41X1 | 5 | 1.1 | 9.58 | 7.3 | 73.1 |
| J6431-06 | A41X2 | 6 | 1.16 | 9.77 | 7.57 | 74.4 |
| J6431-07 | A41X3 | 7 | 1.12 | 9.82 | 6.75 | 64.7 |
| J6431-08 | A41X4 | 8 | 1.16 | 9.55 | 6.72 | 66.3 |
| J6431-09 | A41X5 | 9 | 1.14 | 9.83 | 6.78 | 64.9 |
| J6431-10 | A41X6 | 10 | 1.16 | 9.85 | 7.78 | 76.2 |
| J6431-11 | A41X7 | 11 | 1.1 | 9.7 | 7.45 | 73.8 |
| J6431-12 | A41X8 | 12 | 1.15 | 9.91 | 7.07 | 67.6 |
| J6431-13 | A41X9 | 13 | 1.18 | 9.56 | 6.71 | 66.0 |
| J6431-14 | A41Y0 | 14 | 1.14 | 9.98 | 6.9 | 65.2 |
| J6431-15 | A41Y1 | 15 | 1.19 | 9.7 | 6.14 | 58.2 |
| J6431-16 | A41Y2 | 16 | 1.18 | 9.94 | 6.11 | 56.3 |
| J6431-17 | A41Y3 | 17 | 1.14 | 9.94 | 6.53 | 61.3 |
| J6431-18 | A41Z4 | 18 | 1.00 | 2.00 | 2.00 | 100.0 |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

474

1899837

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-J6431

WorkList ID : 120410

Date : 12/15/2018 8:12:19 AM

| Due Date | Matrix | Sample | Test | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method |
|------------|--------|----------|----------------|--------------|----------|------------------|-----------------|--------------|--------------|
| 12/22/2018 | Solid | J6431-01 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41T6 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-02 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41T6MS | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-03 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41T6MSD | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-04 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41W4 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-05 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X1 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-06 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X2 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-07 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X3 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-08 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X4 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-09 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X5 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-10 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X6 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-11 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X7 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-12 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X8 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-13 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41X9 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-14 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41Y0 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-15 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41Y1 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-16 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41Y2 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-17 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41Y3 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6431-18 | Percent Solids | Cool 4 deg C | USEP04 | A11 | A41Z4 | 12/12/2018 | Chemtech -SO |

475

Date/Time 12.15.18 2:40 PM
 Received by: 30
 Relinquished by: LO

Date/Time 12.15.18 3:10 PM
 Received by: 69
 Relinquished by: 30

Prep Standard - Chemical Standard Summary**Order ID :** J6431**Test :** PCB**Prepbatch ID :** PB115754,**Sequence ID/Qc Batch ID:** PR122118,PR122218,PR121818**Standard ID :**

EP1896,EP1909,EP1911,PP14049,PP14054,PP14055,PP14056,PP14057,PP14076,PP14077,PP14078,PP14079,PP14080,PP14081,PP14082,PP14083,PP14085,PP14086,PP14087,PP14089,PP14090,PP14091,PP14390,PP14442,PP14582,P14678,

Chemical ID :

E2482,E2519,E2524,E2542,E2550,E2559,E2563,M4177,P3936,P3940,P3945,P5329,P5881,P6715,P7712,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14395,pp14396,pp14397,pp14398,pp14399,pp14400,pp14401,pp14402,V1456,W2363,

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|----------------|------------------------|------------------|---------------------|--------------------|
| 314 | 1.1 H2SO4 SOLN | EP1896 | 10/25/2018 | 04/25/2019 | Rajesh |
| FROM 1000.000ml of M4177 + 1000.000ml of V1456 = Final Quantity: 2000.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|-----------------------|------------------------|------------------|---------------------|--------------------|
| 256 | BAKED SODIUM SULPHATE | EP1909 | 12/06/2018 | 02/19/2019 | rajesh |
| FROM 4000.000gram of E2519 = Final Quantity: 4000.000 gram | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|-------------------|------------------------|------------------|---------------------|--------------------|
| 230 | 1:1ACETONE/HEXANE | EP1911 | 12/06/2018 | 06/04/2019 | rajesh |
| FROM 8000.000ml of E2559 + 8000.000ml of E2563 = Final Quantity: 16000.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|---------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 70 | 10/20 PPM Pest/PCB SOM01.2 Surg Stock | PP14049 | 08/06/2018 | 01/10/2019 | somina |
| FROM 1.000ml of E2482 + 9.000ml of P5881 = Final Quantity: 10.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 699 | Aroclor 1248 CS5 (1600\80\160 ng/ml) | PP14054 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P6715 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 700 | Aroclor 1254 CS5 (1600\80\160 ng/ml) | PP14055 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P3936 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 701 | Aroclor 1262 CS5 (1600\80\160 ng/ml) | PP14056 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P3945 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 702 | Aroclor 1268 CS5 (1600\80\160 ng/ml) | PP14057 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P3940 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1255 | Aroclor 1248 CS4 (800 ng/ml) | PP14076 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14054 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 692 | Aroclor 1248 CS3 (400 ng/ml) | PP14077 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14054 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1256 | Aroclor 1248 CS2 (200 ng/ml) | PP14078 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14077 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1257 | Aroclor 1248 CS1 (100 ng/ml) | PP14079 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14078 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1863 | Aroclor 1254 CS4 (800 ng/ml) | PP14080 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14055 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 693 | Aroclor 1254 CS3 (400 ng/ml) | PP14081 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14055 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1864 | Aroclor 1254 CS2 (200 ng/ml) | PP14082 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14081 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1865 | Aroclor 1254 CS1 (100 ng/ml) | PP14083 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14082 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 694 | Aroclor 1262 CS3 (400 ng/ml) | PP14085 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14056 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1867 | Aroclor 1262 CS2 (200 ng/ml) | PP14086 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14085 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1868 | Aroclor 1262 CS1 (100 ng/ml) | PP14087 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14086 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 703 | Aroclor 1268 CS3 (400 ng/ml) | PP14089 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14057 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1870 | Aroclor 1268 CS2 (200 ng/ml) | PP14090 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14089 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1871 | Aroclor 1268 CS1 (100 ng/ml) | PP14091 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14090 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|---------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 41 | 100 PPM PCB Stock Solution 2nd Source | PP14390 | 10/08/2018 | 04/02/2019 | SOMINA |
| FROM 1.000ml of P5329 + 9.000ml of E2524 = Final Quantity: 10.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1679 | 4000 PPB PCB MS-MSD Spike Solution | PP14442 | 10/16/2018 | 04/02/2019 | somina |
| FROM 0.400ml of P5329 + 99.600ml of E2524 = Final Quantity: 100.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|----------------------------|-------------------------|------------------|---------------------|--------------------|
| 923 | 1000 PPB PCB SPIKE SOMO1.2 | PP14582 | 11/07/2018 | 04/02/2019 | somina |
| FROM 99.000ml of E2542 + 1.000ml of PP14390 = Final Quantity: 100.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|--|-------------------------|------------------|---------------------|--------------------|
| 69 | 200/400 PPB Pest/PCB SOM01.2 Surg Spike | PP14678 | 11/21/2018 | 05/19/2019 | eghosa |
| FROM 1.000ml of P7712 + 499.000ml of E2550 = Final Quantity: 500.000 ml | | | | | |

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) | 0000179319 | 01/10/2019 | 07/11/2018 / Rajesh | 07/11/2018 / Rajesh | E2482 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | / Sodium sulfate (anhydrous) | 743502 | 02/19/2019 | 08/20/2018 / Rajesh | 08/13/2018 / Rajesh | E2519 |

| 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) | 0000179319 | 04/02/2019 | 10/03/2018 / Rajesh | 10/03/2018 / Rajesh | E2524 |

| 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) | 0000196203 | 04/30/2019 | 10/31/2018 / Rajesh | 10/31/2018 / Rajesh | E2542 |

| 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) | 0000196203 | 05/19/2019 | 11/19/2018 / rajesh | 11/14/2018 / RUPESH | E2550 |

| 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) | 0000209662 | 11/27/2019 | 12/05/2018 / rajesh | 11/28/2018 / rajesh | E2559 |

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) | 0000196203 | 06/04/2019 | 12/05/2018 / rajesh | 12/05/2018 / rajesh | E2563 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 0000177544 | 06/14/2022 | 09/06/2018 / mohan | 06/06/2018 / mohan | M4177 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul | A092005 | 02/28/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3936 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane | A091468 | 01/31/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3940 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane | A092660 | 03/31/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3945 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 20064 / Aroclor 1016/1260 | 102711 | 10/27/2021 | 08/31/2016 / SOMINA | 09/03/2015 / Nevilkumar | P5329 |

CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32453 / Pesticide Stock Standard, Pesticide Surrogate Mix, 1mL, 100-200ug/mL, acetone | A0117515 | 05/31/2022 | 04/06/2018 / Ankita | 10/13/2016 / Ankita | P5881 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul | A0125373 | 05/31/2023 | 03/19/2018 / somina | 09/14/2017 / somina | P6715 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32453 / SOM01.1 Pesticide Surrogate Standard | A0131432 | 01/31/2024 | 10/16/2018 / Ankita | 08/16/2018 / eghosa | P7712 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------|---------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| Res-Kem General water | DIW / DI Water | DAILY | 12/31/2019 | 03/01/2010 / apatel | 03/02/2010 / apatel | V1456 |

| 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) | 0000190529 | 03/15/2019 | 05/04/2018 / JIGNESH | 05/02/2018 / JIGNESH | W2363 |

Sulfuric Acid
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis
 Low Selenium

*M 4177
 AS
 Received on
 6/6/18*



Material No.: 9673-33
 Batch No.: 0000177544
 Manufactured Date: 2017/06/15
 Retest Date: 2022/06/14

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|--------|
| ACS – Assay (H ₂ SO ₄) | 95.0 – 98.0 % | 96.0 |
| Appearance | Passes Test | PT |
| ACS – Color (APHA) | <= 10 | 5 |
| ACS – Residue after Ignition | <= 3 ppm | < 1 |
| ACS – Substances Reducing Permanganate (as SO ₂) | <= 2 ppm | < 2 |
| Ammonium (NH ₄) | <= 1 ppm | < 1 |
| Chloride (Cl) | <= 0.1 ppm | < 0.1 |
| Nitrate (NO ₃) | <= 0.2 ppm | < 0.1 |
| Phosphate (PO ₄) | <= 0.5 ppm | < 0.1 |
| Trace Impurities – Aluminum (Al) | <= 30.0 ppb | 4.1 |
| Arsenic and Antimony (as As) | <= 4 ppb | < 2 |
| Trace Impurities – Barium (Ba) | <= 10.0 ppb | < 0.2 |
| Trace Impurities – Beryllium (Be) | <= 10.0 ppb | < 0.2 |
| Trace Impurities – Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities – Boron (B) | <= 10.0 ppb | 1.2 |
| Trace Impurities – Cadmium (Cd) | <= 2.0 ppb | < 0.3 |
| Trace Impurities – Calcium (Ca) | <= 50.0 ppb | 35.2 |
| Trace Impurities – Chromium (Cr) | <= 6.0 ppb | < 0.4 |
| Trace Impurities – Cobalt (Co) | <= 0.5 ppb | < 0.3 |
| Trace Impurities – Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities – Gallium (Ga) | <= 10.0 ppb | < 0.2 |
| Trace Impurities – Germanium (Ge) | <= 10.0 ppb | < 2.0 |
| Trace Impurities – Gold (Au) | <= 10.0 ppb | 0.8 |
| Heavy Metals (as Pb) | <= 500 ppb | < 100 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
 Avantor Performance Materials, LLC.
 3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610


| Test | Specification | Result |
|------------------------------------|---------------|--------|
| Trace Impurities - Iron (Fe) | <= 50.0 ppb | 2.3 |
| Trace Impurities - Lead (Pb) | <= 0.5 ppb | < 0.5 |
| Trace Impurities - Lithium (Li) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Magnesium (Mg) | <= 7.0 ppb | 0.8 |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities - Molybdenum (Mo) | <= 10.0 ppb | < 3.0 |
| Trace Impurities - Nickel (Ni) | <= 2.0 ppb | < 0.3 |
| Trace Impurities - Niobium (Nb) | <= 10.0 ppb | 0.3 |
| Trace Impurities - Potassium (K) | <= 500.0 ppb | < 2.0 |
| Trace Impurities - Selenium (Se) | <= 50.0 ppb | < 10.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | 5.0 |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Sodium (Na) | <= 500.0 ppb | 1.2 |
| Trace Impurities - Strontium (Sr) | <= 5.0 ppb | < 0.2 |
| Trace Impurities - Tantalum (Ta) | <= 10.0 ppb | < 0.9 |
| Trace Impurities - Thallium (Tl) | <= 20.0 ppb | < 2.0 |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities - Titanium (Ti) | <= 10.0 ppb | < 0.5 |
| Trace Impurities - Vanadium (V) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | 1.3 |
| Trace Impurities - Zirconium (Zr) | <= 10.0 ppb | 0.1 |

For Laboratory, Research or Manufacturing Use

Country of Origin: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panoli, India 9001:2008


 Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600

Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



*W2362
 O.PURP. 05/04/2018
 EXP PURP. 03-15-2019
 Certificate of Analysis JP*

Material No.: 9262-03
 Batch No.: 0000182619
 Manufactured Date: 2017/09/01
 Expiration Date: 2018/12/01

| 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 | 10 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water) | >= 99.5 % | 100.0 |
| Assay (as n-Hexane) (by GC, corrected for water) | >= 95 % | 98 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 |
| Substances Darkened by H ₂ SO ₄ | Passes Test | PT |
| Water (by KF, coulometric) | <= 0.05 % | 0.01 |

For Laboratory, Research or Manufacturing Use
 MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panaji, India 9001:2008

Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
 Avantor Performance Materials, LLC.

3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610



CERTIFIED WEIGHT REPORT

Part Number: 20064
Lot Number: 102711
Description: CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260
Expiration Date: 102721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000

Solvent(s): Hexane
Lot# J32E22

| | | |
|------------------------|-----------------|--------|
| <i>Pat Scaturchio</i> | | 102711 |
| Formulated By: | Pat Scaturchio | DATE |
| <i>Pedro L. Rentas</i> | | 102711 |
| Reviewed By: | Pedro L. Rentas | DATE |

Weight(s) shown below were combined and diluted to (mL): 200.0
5E-05 Balance Uncertainty
0.007 Flask Uncertainty

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | MSDS Information (Solvent Safety Info. On Attached pg.) | | |
|-----------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|---|----------------|-------------------|
| | | | | | | | | | | CAS# | OSHA PEL (TWA) | LD50 |
| 1. Aroclor 1016 | 15 | 020491JC | 1000 | 100 | 0.2 | 0.19999 | 0.20028 | 1001.5 | 4.0 | 12674-11-2 | N/A | N/A |
| 2. Aroclor 1260 | 21 | 020491JC | 1000 | 100 | 0.2 | 0.19999 | 0.20019 | 1001.0 | 4.0 | 11096-82-5 | 0.5mg/m3 | ori-rat 1315mg/kg |

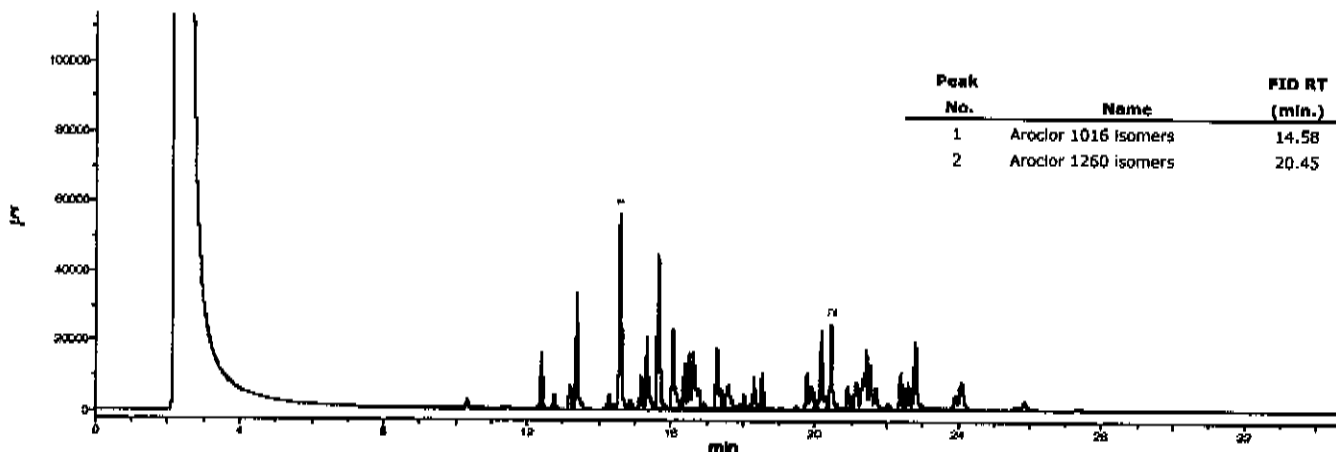
Run 43, "P20064 L102711 [1000µg/mL in hexane]"

Run Length: 35.00 min, 20000 points at 10 points/second.
Created: Fri, Oct 28, 2011 at 6:45:55 PM.
Sampled: Sequence "102711-GC3-M1", Method "GC3-M1".
Analyzed using Method "GC3-M1".

Comments
GC3-M1 Analyze by Melissa Stoner
Column ID SPB-808 3 meter X 0.53mm X 5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150 °C (Time 1 = 4 min), Temp 2 = 290 °C (Time 2 = 13.5 min)
Rate = 8 °C/min, Total run time = 35 min
Injector temp. = 200 °C, FID Temp. = 300 °C, FID Signal = Edaq Channel 1
Standard Injection = 1.0µL, Range=3

P5743
↓ NP
P7 P5747

06/30/2016





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. : 32453 **Lot No.:** A0117515

Description : SOM01.1 Pesticide Surrogate Standard
Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2022 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

P5877
↓
P5881

AJ
10/13/16

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | | |
|---------------|-----------------------------------|-----------------------------|--------------------------------------|--------|-------|-------------|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 100.0 µg/mL | +/- | 0.7088 | µg/mL | Gravimetric |
| | CAS # 877-09-8 (Lot 0052481) | | +/- | 3.1930 | µg/mL | Unstressed |
| | Purity 98% | | +/- | 4.1577 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 200.0 µg/mL | +/- | 1.4182 | µg/mL | Gravimetric |
| | CAS # 2051-24-3 (Lot ER071509-01) | | +/- | 6.3886 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 8.3187 | µg/mL | Stressed |

Solvent: Acetone
CAS # 67-64-1
Purity 99%



1. IDENTIFICATION

Catalog Number / Product Name: 32453 / SOMO1.1 Pesticide Surrogate Standard
Company: Restek Corporation
Address: 110 Benner Circle
Bellefonte, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 1-800-424-9300 (CHEMTREC)
+1 703-741-5970 (Outside the US)
Email: sds@restek.com
Revision Number: 5
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Flammable Liquid Category 2
Serious Eye Damage/Eye Irritation Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure
Category 3

GHS Signal Word:

Danger

GHS Hazard:

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

GHS Precautions:

Safety Precautions:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/container according to section 13 of the SDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
|---------------|---------|----------------------------|--|---|---------------------------------|
| Acetone | 67-64-1 | 2500 ppm IDLH (10% LEL) | 750 ppm STEL 750 ppm STEL; 1782 mg/m3 STEL | 500 ppm TWA 500 ppm TWA; 1188 mg/m3 TWA | 1000 ppm TWA; 2400 mg/m3 TWA |

Personal Protection:

Engineering Measures:

Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection:

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.

Eye Protection:

Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Medical Conditions Aggravated By Exposure: Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------------------|
| Appearance, color: | Depends upon product selection |
| Odor: | Strong |
| Physical State: | No data available. |
| pH: | No data available |
| Vapor Density: | 2.0 (air = 1) |
| Melting Point: | -95.4 °C Melting Point |
| Flash Point: | 39 |
| Flammability: | Highly Flammable |
| Upper Flammable/Explosive Limit, % in air: | No data available. |
| Lower Flammable/Explosive Limit, % in air: | No data available. |
| Autoignition Temperature: | 465 deg C |
| Decomposition Temperature: | No data available. |
| Specific Gravity: | 0.7845 g/cm3 at 25 °C |
| Evaporation Rate: | No data available. |
| Odor Threshold: | ND |
| Solubility: | Complete; 100% |
| Partition Coefficient: n-octanol in water: | No data available. |
| VOC % by weight: | 0.00 |
| Molecular Weight: | 58.08 |

10. STABILITY AND REACTIVITY

| | |
|--|--------------------------------------|
| Stability: | Stable under normal conditions. |
| Conditions to Avoid: | No data available. |
| Materials to Avoid / Chemical Incompatibility: | Strong oxidizing agents Strong acids |
| Hazardous Decomposition Products: | Carbon dioxide Carbon monoxide |

11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Routes of Entry: | Inhalation, Skin Contact, Eye Contact, Ingestion |
| Target Organs Potentially Affected By Exposure: | Eyes, Central nervous system stimulation, Respiratory Tract, Skin |
| Chemical Interactions That Change Toxicity: | None Known |

Immediate (Acute) Health Effects by Route of Exposure:

| | |
|------------------------|---|
| Inhalation Irritation: | Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. |
| Skin Contact: | Can cause minor skin irritation, defatting, and dermatitis. |
| Eye Contact: | Can cause minor irritation, tearing and reddening. |
| Ingestion Irritation: | May be harmful if swallowed. |
| Ingestion Toxicity: | Harmful if swallowed. May cause systemic poisoning. |

Long-Term (Chronic) Health Effects:

| | |
|--|---|
| Carcinogenicity: | No data. |
| Reproductive and Developmental Toxicity: | No data available to indicate product or any components present at greater than 0.1% may cause birth defects. |

| | | | |
|--------------------|--|--|--|
| No data available. | | | |
|--------------------|--|--|--|

15. REGULATORY INFORMATION

United States:

| Chemical Name | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
|---------------|---------|--------|----------|--------------|------|
| Acetone | 67-64-1 | X | - | - | X |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|---------|------------|---------------|--------------|------------|
| Acetone | 67-64-1 | X | X | X | X |

16. OTHER INFORMATION

Prior Version Date: 10/23/14

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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/ μ 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Bonner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com



Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS 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.

atalog No. : 32011 Lot No.: A092005
 Description : Aroclor® 1254 Standard
Aroclor 1254 1000µg/mL, Hexane, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Expiration Date : February 2019 Storage: 25°C nominal
 Handling: This product contains PCB's

CERTIFIED VALUES

| Material Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.: K=2) | | | |
|----------------|------------|--------------------------------|---|---------|-------|-------------|
| Aroclor 1254 | | 1,000.0 µg/mL | +/- | 5.8686 | µg/mL | Gravimetric |
| CAS # | 11097-69-1 | | +/- | 20.8758 | µg/mL | Unstressed |
| Purity | 99% | | +/- | 34.3670 | µg/mL | Stressed |

Solvent: Hexane
 CAS # 110-54-3
 Purity 99%

P 3936 - P 3937
 5/13/13

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

1. IDENTIFICATION

Catalog Number / Product Name: 32409, 32409-5XX, & 32509 / Aroclor 1262 Standard
Company: Restek Corporation
Address: 110 Benner Circle
Belleville, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 800-356-1688
Revision Number: 6
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Aspiration Hazard Category 1
Flammable Liquid Category 2
Skin Corrosion/Irritation Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Hazardous to the aquatic environment - Chronic Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Flame
Health Hazard
Environment
Danger

GHS Signal Word:

GHS Hazard:

H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precautions:

Safety Precautions:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands and skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Carbon dioxide, Carbon monoxide

Hazardous Combustion Products:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
|---------------|------------|-------------------------|------------|---------------|---|
| hexane | 110-54-3 | 1100 ppm IDLH (10% LEL) | 1000 ppm | 50 ppm TWA | 500 ppm TWA; 1800 mg/m ³ TWA |
| arochlor 1262 | 37324-23-5 | ND | | No TLV | No data available. |

United Kingdom:

| Chemical Name | CAS No. | EINEC No. | WEL-STEL | WEL-TWA |
|---------------|------------|-----------|---|--------------------------------------|
| hexane | 110-54-3 | 203-777-6 | 60 ppm STEL (calculated); 216 mg/m ³ STEL (calculated) | 20 ppm TWA; 72 mg/m ³ TWA |
| arochlor 1262 | 37324-23-5 | | No data available. | No data available. |

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.
Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------|----------------------------------|
| Odor: | Mild |
| pH: | No data available. |
| Vapor Density: | 2.97 (air = 1) |
| Melting Point: | -95 °C Melting Point |
| Flash Point: | -8 |
| Flammability: | Highly Flammable |
| Specific Gravity: | 0.672 g/cm ³ at 15 °C |
| Evaporation Rate: | No data available. |
| Odor Threshold: | No data available. |
| Solubility: | Negligible; 0-1% |

No data.
No data.
No data.

Group 1
Group 2A
Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

Marine Pollutant: No

15. REGULATORY INFORMATION

| United States: | Chemical Name | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
|----------------|---------------|------------|--------|----------|--------------|------|
| | hexane | 110-54-3 | X | X | - | X |
| | arochlor 1262 | 37324-23-5 | - | - | - | - |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|------------|------------|---------------|--------------|------------|
| hexane | 110-54-3 | X | X | X | - |
| arochlor 1262 | 37324-23-5 | - | - | - | - |

EU Directives Classification:

Hazard Symbols:



Risk Phrases: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
R11 - Highly flammable

Safety Phrases: S2:Keep out of reach of children



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 MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32410 **Lot No.:** A091468
Description : Aroclor® 1268 Standard
Aroclor 1268 Std 1000µg/mL, 1mL/ampul, Hexane
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 2019 **Storage:** 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|-----------------|---|--------------------------------|---|-------|-------------|
| 1 | Aroclor 1268 CAS # 11100-14-4 Purity ---% | 1,000.0 µg/mL | +/- 5.9397 | µg/mL | Gravimetric |
| | | | +/- 20.8959 | µg/mL | Unstressed |
| | | | +/- 34.3792 | µg/mL | Stressed |
| Solvent: | Hexane CAS # 110-54-3 Purity 99% | | | | |

P3940-3941

I Certified Reference Material Notes

Expiration Notes:

Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.

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.

General Notes:

Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ 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.

Uncertainty Value Notes:

The uncertainties are determined in accordance with ISO Guides 34 and 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:

$$U_{\text{combined stressed}} = k \sqrt{U_{\text{gravimetric}}^2 + U_{\text{homogeneity}}^2 + U_{\text{storage stability}}^2 + U_{\text{shipping stability}}^2}$$

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 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) | < 25°C | ≥ 25°C up to 7 days |

Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.

The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Preparation 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.

Storage Notes:

Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.

If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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 MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 32409 **Lot No.:** A092660
Description: Aroclor® 1262 Standard
Aroclor 1262 Std 1000µg/mL, 1mL/ampul, Hexane
Container Size: 2 mL **Pkg Amt:** > 1 mL
Expiration Date: March 2019 **Storage:** 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.: K=2) | | |
|---------------|------------------|-----------------------------|--------------------------------------|-------|-------------|
| 1 | Aroclor 1262 | 1,000.0 µg/mL | +/- 5.9397 | µg/mL | Gravimetric |
| | CAS # 37324-23-5 | | +/- 20.8959 | µg/mL | Unstressed |
| | Purity ----% | | +/- 34.3792 | µg/mL | Stressed |

Solvent: Hexane
CAS # 110-54-3
Purity 99%

p 3945 - p 3946
~~p 3938 - p 3939~~ in 5/10/13
5/13/13

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31640, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

1. IDENTIFICATION

Catalog Number / Product Name: 32410, 32410-5XX, & 32510 / Aroclor 1268 Standard
Company: Restek Corporation
Address: 110 Benner Circle
Bellefonte, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 800-356-1688
Revision Number: 7
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Aspiration Hazard Category 1
Flammable Liquid Category 2
Skin Corrosion/Irritation Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Hazardous to the aquatic environment - Chronic Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Flame
Health Hazard
Environment
Danger

GHS Signal Word:

GHS Hazard:

H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precautions:

Safety Precautions:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands and skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Carbon dioxide, Carbon monoxide

Hazardous Combustion Products:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| United States: | | | | | |
|------------------------|------------|-------------------------|---|--------------------------------------|---|
| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
| hexane | 110-54-3 | 1100 ppm IDLH (10% LEL) | 1000 ppm | 50 ppm TWA | 500 ppm TWA; 1800 mg/m ³ TWA |
| aroclor® 1268 | 11100-14-4 | ND | | No TLV | No data available. |
| United Kingdom: | | | | | |
| Chemical Name | CAS No. | EINEC No. | WEL-STEL | WEL-TWA | |
| hexane | 110-54-3 | 203-777-6 | 60 ppm STEL (calculated); 216 mg/m ³ STEL (calculated) | 20 ppm TWA; 72 mg/m ³ TWA | |
| aroclor® 1268 | 11100-14-4 | | No data available. | No data available. | |

Personal Protection:
Engineering Measures:

Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Eye Protection:

Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------|----------------------------------|
| Odor: | Mild |
| pH: | No data available. |
| Vapor Density: | 2.97 (air = 1) |
| Melting Point: | -95 °C Melting Point |
| Flash Point: | -8 |
| Flammability: | Highly Flammable |
| Specific Gravity: | 0.672 g/cm ³ at 15 °C |
| Evaporation Rate: | No data available. |
| Odor Threshold: | No data available. |
| Solubility: | Negligible; 0-1% |

No data.
No data.
No data.

Group 1
Group 2A
Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

Marine Pollutant: No

15. REGULATORY INFORMATION

| United States: | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
|----------------|------------|--------|----------|--------------|------|
| Chemical Name | | | | | |
| hexane | 110-54-3 | X | X | - | X |
| aroclor® 1268 | 11100-14-4 | - | - | - | - |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|------------|------------|---------------|--------------|------------|
| hexane | 110-54-3 | X | X | X | - |
| aroclor® 1268 | 11100-14-4 | - | - | - | - |

EU Directives Classification:

Hazard Symbols:



Risk Phrases: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
R11 - Highly flammable

Safety Phrases: S2: Keep out of reach of children



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. : 32010 **Lot No.:** A0125373

Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L. : K=2) | | | |
|---------------|---|-----------------------------|---------------------------------------|-------|-------------|--|
| 1 | Aroclor 1248 CAS # 12672-29-6 Purity —% (Lot 07) | 1,000.5 µg/mL | +/- 5.8715 | µg/mL | Gravimetric | |
| | | | +/- 31.7098 | µg/mL | Unstressed | |
| | | | +/- 41.4236 | µg/mL | Stressed | |

Solvent: Hexane
CAS # 110-54-3
Purity 99%

26715
6
26717 Sm
9/18/17

PCI SCIENTIFIC SUPPLY, INC.

41 PLYMOUTH STREET

FAIRFIELD, NJ 07004

P# (973) 244-9002

F# (973) 244-9448

E 2519

CERTIFICATE OF ANALYSIS

| | | | |
|-------------------------------|--|----------------------|-------------------------------------|
| PRODUCT : | SODIUM SULFATE CRYSTALS ANHYDROUS | | |
| QUALITY : | ACS (CODE RMB3375) | FORMULA : | Na₂SO₄ |
| SPECIFICATION NUMBER : | 6399 | RELEASE DATE: | NOV/30/2017 |
| LOT NUMBER : | 743502 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|--|----------------|-------------|
| Assay (Na ₂ SO ₄) | Min. 99.0 % | 99.4 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 5.8 |
| Insoluble matter | Max. 0.01 % | 0.007 % |
| Loss on ignition | Max. 0.5 % | 0.1 % |
| Chloride (Cl) | Max. 0.001 % | <0.001 % |
| Nitrogen compounds (as N) | Max. 5 ppm | <5 ppm |
| Phosphate (PO ₄) | Max. 0.001 % | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001 % | <0.001 % |
| Calcium (Ca) | Max. 0.01 % | 0.001 % |
| Magnesium (Mg) | Max. 0.005 % | 0.0002 % |
| Potassium (K) | Max. 0.008 % | 0.002 % |
| 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 % | 0.0 % |
| Retained on US Standard No. 60 sieve | Min. 94 % | 98.1 % |
| Through US Standard No. 60 sieve | Max. 5 % | 1.8 % |
| Through US Standard No. 100 sieve | Max. 10 % | 0.0 % |



QC: PhC Irma Belmares

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 0000179319
Manufactured Date: 2017/06/14
Expiration Date: 2020/06/13

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.1 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ 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 | 5 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2482

ISO Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Pune, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 0000179319
Manufactured Date: 2017/06/14
Expiration Date: 2020/06/13

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.1 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ 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 | 5 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2524

ISO Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panaji, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

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Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 0000196203
Manufactured Date: 2018/02/06
Expiration Date: 2021/02/05
Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.3 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ O) | <= 0.5 % | 0.3 |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | 2 |
| 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: US
Packaging Site: Phillipsburg Mfg Ctr & DC

E 2542

ISO Phillipsburg, NJ 9001:2008, 14001:2004, F55C 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2003
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panaji, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600

Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 Fax: 610.573.2610

Hexanes (95% n-hexane)
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



Material No.: 9262-03
 Batch No.: 0000209662
 Manufactured Date: 2018/08/28
 Expiration Date: 2019/11/27
 Revision No: 1

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 | 2 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water) | >= 99.5 % | 99.8 |
| Assay (as n-Hexane) (by GC, corrected for water) | >= 95 % | 98 |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.2 |
| Substances Darkened by H ₂ SO ₄ | Passes Test | PT |
| Water (by KF, coulometric) | <= 0.05 % | < 0.01 |

For Laboratory, Research or Manufacturing Use
 MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

E 2559



Phillipsburg, NJ 9001:2015, FS5C22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Gliwice, Poland 9001:2015, 13485:2012
 Selangor, Malaysia 9001:2009
 Dehradun, India, 9001:2008, 14001:2004, 13486:2003
 Mumbai, India, 9001:2015, 17026:2005
 Panoli, India 9001:2015

James Ethier
 Jamie Ethier
 Vice President Global Quality

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

520

Acetone
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



Material No.: 9254-03
 Batch No.: 0000196203
 Manufactured Date: 2018/02/06
 Expiration Date: 2021/02/05
 Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.3 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ O) | <= 0.5 % | 0.3 |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | 2 |
| 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: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

E 2563

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FS5C 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panoli, India 9001:2008

Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
 Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32453 Lot No.: A0131432

Description : SOM01.1 Pesticide Surrogate Standard
Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : January 31, 2024 Storage: 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | | |
|---------------|-----------------------------------|-----------------------------|--------------------------------------|--------|-------|-------------|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 100.0 µg/mL | +/- | 0.7088 | µg/mL | Gravimetric |
| | CAS # 877-09-8 (Lot 0052481) | | +/- | 3.1930 | µg/mL | Unstressed |
| | Purity 98% | | +/- | 4.1577 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 201.0 µg/mL | +/- | 1.4253 | µg/mL | Gravimetric |
| | CAS # 2051-24-3 (Lot ER071509-01) | | +/- | 6.4205 | µg/mL | Unstressed |
| | Purity 99% | | +/- | 8.3603 | µg/mL | Stressed |

Solvent: Acetone
CAS # 67-64-1
Purity 99%

P7712



P7716

08/16/18

E-1

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

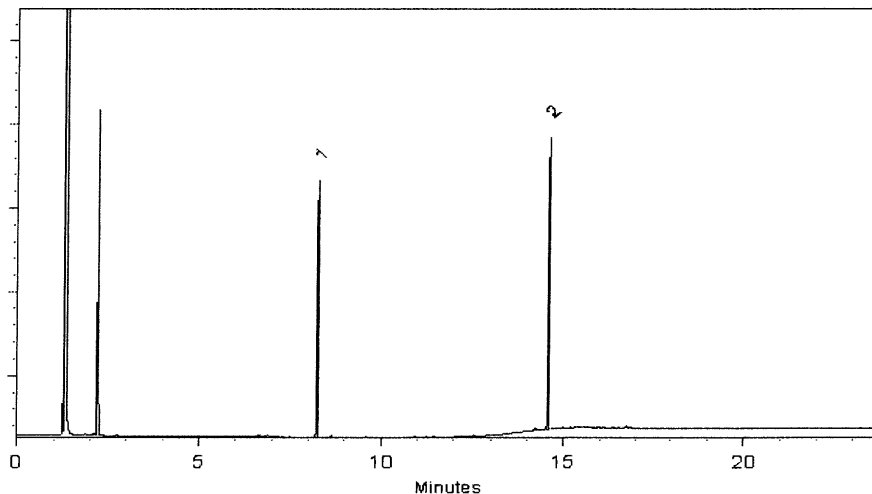
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

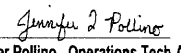
Det. Type:
FID



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.


Larry J. Moore - Mix Technician

Date Mixed: 06-Oct-2017 Balance: B707717271


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Oct-2017

Manufactured under Restek's ISO 9001:2008
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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|---------------|----------------|-------------------|----------|--------|
| 1 | AIBLK82 | PR034706.D | 17 Dec 2018 14:52 | SM\SJ | Ok |
| 2 | AR1660ICC100 | PR034707.D | 17 Dec 2018 15:11 | SM\SJ | Ok |
| 3 | AR1660ICC200 | PR034708.D | 17 Dec 2018 15:25 | SM\SJ | Ok |
| 4 | AR1660ICC400 | PR034709.D | 17 Dec 2018 15:40 | SM\SJ | Ok |
| 5 | AR1660ICC800 | PR034710.D | 17 Dec 2018 15:54 | SM\SJ | Ok |
| 6 | AR1660ICC1600 | PR034711.D | 17 Dec 2018 16:09 | SM\SJ | Ok |
| 7 | AR1221ICC100 | PR034712.D | 17 Dec 2018 16:23 | SM\SJ | Ok |
| 8 | AR1232ICC100 | PR034713.D | 17 Dec 2018 16:37 | SM\SJ | Ok |
| 9 | AR1242ICC100 | PR034714.D | 17 Dec 2018 16:52 | SM\SJ | Ok |
| 10 | AR1242ICC200 | PR034715.D | 17 Dec 2018 17:06 | SM\SJ | Ok |
| 11 | AR1242ICC400 | PR034716.D | 17 Dec 2018 17:21 | SM\SJ | Ok |
| 12 | AR1242ICC800 | PR034717.D | 17 Dec 2018 17:35 | SM\SJ | Ok |
| 13 | AR1242ICC1600 | PR034718.D | 17 Dec 2018 17:50 | SM\SJ | Ok |
| 14 | AR1248ICC100 | PR034719.D | 17 Dec 2018 18:04 | SM\SJ | Ok |
| 15 | AR1248ICC200 | PR034720.D | 17 Dec 2018 18:19 | SM\SJ | Ok |
| 16 | AR1248ICC400 | PR034721.D | 17 Dec 2018 18:33 | SM\SJ | Ok |
| 17 | AR1248ICC800 | PR034722.D | 17 Dec 2018 18:48 | SM\SJ | Ok |
| 18 | AR1248ICC1600 | PR034723.D | 17 Dec 2018 19:02 | SM\SJ | Ok |
| 19 | AR1254ICC100 | PR034724.D | 17 Dec 2018 19:16 | SM\SJ | Ok |
| 20 | AR1254ICC200 | PR034725.D | 17 Dec 2018 19:31 | SM\SJ | Ok |
| 21 | AR1254ICC400 | PR034726.D | 17 Dec 2018 19:45 | SM\SJ | Ok |
| 22 | AR1254ICC800 | PR034727.D | 17 Dec 2018 20:00 | SM\SJ | Ok |
| 23 | AR1254ICC1600 | PR034728.D | 17 Dec 2018 20:14 | SM\SJ | Ok |
| 24 | AR1262ICC100 | PR034729.D | 17 Dec 2018 20:29 | SM\SJ | Ok |
| 25 | AR1268ICC100 | PR034730.D | 17 Dec 2018 20:43 | SM\SJ | Ok |
| 26 | AIBLK83 | PR034731.D | 17 Dec 2018 20:58 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|--------|
| 27 | AR1660CCC400 | PR034732.D | 17 Dec 2018 21:12 | SM\SJ | Ok |
| 28 | AR1242CCC400 | PR034733.D | 17 Dec 2018 21:27 | SM\SJ | Ok |
| 29 | AR1248CCC400 | PR034734.D | 17 Dec 2018 21:41 | SM\SJ | Ok |
| 30 | AR1254CCC400 | PR034735.D | 17 Dec 2018 21:56 | SM\SJ | Ok |
| 31 | PB115739BL | PR034736.D | 17 Dec 2018 22:10 | SM\SJ | Ok |
| 32 | PB115739BS | PR034737.D | 17 Dec 2018 22:25 | SM\SJ | Ok |
| 33 | J6415-01 | PR034738.D | 17 Dec 2018 22:39 | SM\SJ | Not Ok |
| 34 | J6415-02 | PR034739.D | 17 Dec 2018 22:53 | SM\SJ | Not Ok |
| 35 | J6415-03 | PR034740.D | 17 Dec 2018 23:08 | SM\SJ | Not Ok |
| 36 | J6415-04 | PR034741.D | 17 Dec 2018 23:22 | SM\SJ | Not Ok |
| 37 | J6415-05 | PR034742.D | 17 Dec 2018 23:37 | SM\SJ | Not Ok |
| 38 | J6415-06 | PR034743.D | 17 Dec 2018 23:51 | SM\SJ | Not Ok |
| 39 | J6415-07MS | PR034744.D | 18 Dec 2018 00:06 | SM\SJ | Not Ok |
| 40 | J6415-08MSD | PR034745.D | 18 Dec 2018 00:20 | SM\SJ | Not Ok |
| 41 | J6415-09 | PR034746.D | 18 Dec 2018 00:35 | SM\SJ | Not Ok |
| 42 | J6415-10 | PR034747.D | 18 Dec 2018 00:49 | SM\SJ | Not Ok |
| 43 | J6415-11 | PR034748.D | 18 Dec 2018 01:04 | SM\SJ | Not Ok |
| 44 | J6415-12 | PR034749.D | 18 Dec 2018 01:18 | SM\SJ | Not Ok |
| 45 | J6415-13 | PR034750.D | 18 Dec 2018 01:33 | SM\SJ | Not Ok |
| 46 | J6415-14 | PR034751.D | 18 Dec 2018 01:47 | SM\SJ | Not Ok |
| 47 | J6415-15 | PR034752.D | 18 Dec 2018 02:01 | SM\SJ | Not Ok |
| 48 | J6415-16 | PR034753.D | 18 Dec 2018 02:16 | SM\SJ | Not Ok |
| 49 | J6415-17 | PR034754.D | 18 Dec 2018 02:30 | SM\SJ | Not Ok |
| 50 | J6415-18 | PR034755.D | 18 Dec 2018 02:45 | SM\SJ | Not Ok |
| 51 | J6415-19 | PR034756.D | 18 Dec 2018 02:59 | SM\SJ | Not Ok |
| 52 | J6415-20 | PR034757.D | 18 Dec 2018 03:14 | SM\SJ | Not Ok |
| 53 | J6415-21 | PR034758.D | 18 Dec 2018 03:28 | SM\SJ | Not Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|--------|
| 54 | J6415-22 | PR034759.D | 18 Dec 2018 03:43 | SM\SJ | Not Ok |
| 55 | AIBLK84 | PR034760.D | 18 Dec 2018 03:57 | SM\SJ | Ok |
| 56 | AR1660CCC400 | PR034761.D | 18 Dec 2018 04:11 | SM\SJ | Ok |
| 57 | AR1242CCC400 | PR034762.D | 18 Dec 2018 04:26 | SM\SJ | Ok |
| 58 | AR1248CCC400 | PR034763.D | 18 Dec 2018 04:40 | SM\SJ | Ok |
| 59 | AR1254CCC400 | PR034764.D | 18 Dec 2018 04:55 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122118

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | Ankita | Review On | 12/21/2018 6:08:46 PM |
| Supervise By | Sohil | Supervise On | 12/21/2018 6:12:14 PM |
| SubDirectory | PR122118 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|--------------|----------------|--------------------|----------|----------|
| 1 | HEXANE | PR034906.D | 20 Dec 2018 07:56 | SM\SJ | Ok |
| 2 | AIBLK92 | PR034907.D | 20 Dec 2018 08:11 | SM\SJ | Ok |
| 3 | AR1660CCC400 | PR034908.D | 20 Dec 2018 08:25 | SM\SJ | Ok |
| 4 | AR1242CCC400 | PR034909.D | 20 Dec 2018 08:40 | SM\SJ | Ok,M |
| 5 | AR1248CCC400 | PR034910.D | 20 Dec 2018 08:54 | SM\SJ | Ok |
| 6 | AR1254CCC400 | PR034911.D | 20 Dec 2018 09:11 | SM\SJ | Ok |
| 7 | PB115737BL | PR034912.D | 20 Dec 2018 09:25 | SM\SJ | Ok |
| 8 | J6412-14 | PR034913.D | 20 Dec 2018 09:41 | SM\SJ | Ok,M |
| 9 | J6412-05DL | PR034914.D | 20 Dec 2018 09:55 | SM\SJ | Dilution |
| 10 | J6412-05DL2 | PR034915.D | 20 Dec 2018 10:10 | SM\SJ | Ok |
| 11 | J6412-06DL | PR034916.D | 20 Dec 2018 10:24 | SM\SJ | Not Ok |
| 12 | J6412-06DL | PR034917.D | 20 Dec 2018 10:39 | SM\SJ | Not Ok |
| 13 | J6412-08DL | PR034918.D | 20 Dec 2018 10:53 | SM\SJ | Ok |
| 14 | J6412-16DL | PR034919.D | 20 Dec 2018 11:07 | SM\SJ | Ok |
| 15 | J6412-20DL | PR034920.D | 20 Dec 2018 13:23 | SM\SJ | Dilution |
| 16 | J6412-20DL2 | PR034921.D | 20 Dec 18 01:37 pm | SM\SJ | Ok |
| 17 | PB115754BL | PR034922.D | 20 Dec 2018 13:54 | SM\SJ | Ok |
| 18 | PB115754BS | PR034923.D | 20 Dec 2018 14:09 | SM\SJ | Ok |
| 19 | J6431-01 | PR034924.D | 20 Dec 2018 14:23 | SM\SJ | Dilution |
| 20 | J6431-02MS | PR034925.D | 20 Dec 2018 14:38 | SM\SJ | Ok,M |
| 21 | J6431-03MSD | PR034926.D | 20 Dec 2018 14:52 | SM\SJ | Ok,M |
| 22 | AIBLK93 | PR034927.D | 20 Dec 2018 15:07 | SM\SJ | Ok |
| 23 | AR1660CCC400 | PR034928.D | 20 Dec 2018 15:21 | SM\SJ | Ok |
| 24 | AR1242CCC400 | PR034929.D | 20 Dec 2018 15:36 | SM\SJ | Ok,M |
| 25 | AR1248CCC400 | PR034930.D | 20 Dec 2018 15:50 | SM\SJ | Ok |
| 26 | AR1254CCC400 | PR034931.D | 20 Dec 2018 16:04 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122118

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | Ankita | Review On | 12/21/2018 6:08:46 PM |
| Supervise By | Sohil | Supervise On | 12/21/2018 6:12:14 PM |
| SubDirectory | PR122118 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample ID | File Name | Time | Operator | Result |
|-------|--------------|------------|-------------------|----------|----------|
| 27 | J6431-04 | PR034932.D | 20 Dec 2018 16:19 | SM\SJ | Dilution |
| 28 | J6431-05 | PR034933.D | 20 Dec 2018 16:33 | SM\SJ | Ok,M |
| 29 | J6431-06 | PR034934.D | 20 Dec 2018 16:48 | SM\SJ | Dilution |
| 30 | J6431-07 | PR034935.D | 20 Dec 2018 17:02 | SM\SJ | Ok,M |
| 31 | J6431-08 | PR034936.D | 20 Dec 2018 17:17 | SM\SJ | Ok,M |
| 32 | J6431-09 | PR034937.D | 20 Dec 2018 17:31 | SM\SJ | Dilution |
| 33 | J6431-10 | PR034938.D | 20 Dec 2018 17:46 | SM\SJ | Dilution |
| 34 | J6431-11 | PR034939.D | 20 Dec 2018 18:00 | SM\SJ | Dilution |
| 35 | J6431-12 | PR034940.D | 20 Dec 2018 18:15 | SM\SJ | Ok |
| 36 | J6431-13 | PR034941.D | 20 Dec 2018 18:29 | SM\SJ | Ok,M |
| 37 | J6431-14 | PR034942.D | 20 Dec 2018 18:44 | SM\SJ | Ok |
| 38 | J6431-15 | PR034943.D | 20 Dec 2018 18:58 | SM\SJ | Ok,M |
| 39 | J6431-16 | PR034944.D | 20 Dec 2018 19:12 | SM\SJ | Not Ok |
| 40 | J6431-17 | PR034945.D | 20 Dec 2018 19:27 | SM\SJ | Dilution |
| 41 | J6431-18 | PR034946.D | 20 Dec 2018 19:41 | SM\SJ | Ok |
| 42 | AIBLK94 | PR034947.D | 20 Dec 2018 19:56 | SM\SJ | Ok |
| 43 | AR1660CCC400 | PR034948.D | 20 Dec 2018 20:10 | SM\SJ | Ok |
| 44 | AR1242CCC400 | PR034949.D | 20 Dec 2018 20:25 | SM\SJ | Ok,M |
| 45 | AR1248CCC400 | PR034950.D | 20 Dec 2018 20:39 | SM\SJ | Ok |
| 46 | AR1254CCC400 | PR034951.D | 20 Dec 2018 20:53 | SM\SJ | Ok,M |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|--------------|----------------|-------------------|----------|----------|
| 1 | AIBLK95 | PR034952.D | 21 Dec 2018 08:41 | SM\SJ | Ok,M |
| 2 | AR1660CCC400 | PR034953.D | 21 Dec 2018 09:14 | SM\SJ | Ok |
| 3 | AR1242CCC400 | PR034954.D | 21 Dec 2018 09:28 | SM\SJ | Ok |
| 4 | AR1248CCC400 | PR034955.D | 21 Dec 2018 09:43 | SM\SJ | Ok |
| 5 | AR1254CCC400 | PR034956.D | 21 Dec 2018 09:57 | SM\SJ | Ok,M |
| 6 | PB115757BL | PR034957.D | 21 Dec 2018 10:12 | SM\SJ | Ok |
| 7 | PB115757BS | PR034958.D | 21 Dec 2018 10:26 | SM\SJ | Ok,M |
| 8 | J6432-01 | PR034959.D | 21 Dec 2018 10:41 | SM\SJ | Dilution |
| 9 | J6412-21 | PR034960.D | 21 Dec 2018 10:55 | SM\SJ | Not Ok |
| 10 | J6412-06DL | PR034961.D | 21 Dec 2018 11:10 | SM\SJ | Not Ok |
| 11 | J6412-06DL2 | PR034962.D | 21 Dec 2018 11:31 | SM\SJ | Ok,M |
| 12 | PB115873BL | PR034963.D | 21 Dec 2018 11:45 | SM\SJ | Ok |
| 13 | PB115873BS | PR034964.D | 21 Dec 2018 12:00 | SM\SJ | Ok |
| 14 | J6416-01 | PR034965.D | 21 Dec 2018 12:14 | SM\SJ | Ok,M |
| 15 | J6416-02 | PR034966.D | 21 Dec 2018 12:29 | SM\SJ | Ok |
| 16 | J6416-03 | PR034967.D | 21 Dec 2018 12:43 | SM\SJ | Ok,M |
| 17 | J6416-04MS | PR034968.D | 21 Dec 2018 12:58 | SM\SJ | Ok,M |
| 18 | J6416-05MSD | PR034969.D | 21 Dec 2018 13:12 | SM\SJ | Ok,M |
| 19 | J6432-02 | PR034970.D | 21 Dec 2018 13:27 | SM\SJ | Dilution |
| 20 | J6432-03MS | PR034971.D | 21 Dec 2018 13:41 | SM\SJ | Ok,M |
| 21 | J6432-04MSD | PR034972.D | 21 Dec 2018 13:56 | SM\SJ | Ok,M |
| 22 | J6432-05 | PR034973.D | 21 Dec 2018 14:10 | SM\SJ | Ok,M |
| 23 | PB115921BL | PR034974.D | 21 Dec 2018 14:25 | SM\SJ | Ok |
| 24 | PB115921BS | PR034975.D | 21 Dec 2018 14:39 | SM\SJ | Ok |
| 25 | J6510-04 | PR034976.D | 21 Dec 2018 14:54 | SM\SJ | Ok |
| 26 | J6416-03DL | PR034977.D | 21 Dec 2018 15:08 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|----------|
| 27 | AIBLK96 | PR034978.D | 21 Dec 2018 15:23 | SM\SJ | Ok |
| 28 | AR1660CCC400 | PR034979.D | 21 Dec 2018 15:54 | SM\SJ | Ok |
| 29 | AR1242CCC400 | PR034980.D | 21 Dec 2018 16:10 | SM\SJ | Ok |
| 30 | AR1248CCC400 | PR034981.D | 21 Dec 2018 17:02 | SM\SJ | Ok |
| 31 | AR1254CCC400 | PR034982.D | 21 Dec 2018 17:51 | SM\SJ | Ok,M |
| 32 | J6431-13 | PR034983.D | 21 Dec 2018 18:05 | SM\SJ | Not Ok |
| 33 | J6431-11DL | PR034984.D | 21 Dec 2018 18:20 | SM\SJ | Ok |
| 34 | J6431-10DL | PR034985.D | 21 Dec 2018 18:34 | SM\SJ | Dilution |
| 35 | J6431-10DL2 | PR034986.D | 21 Dec 2018 18:48 | SM\SJ | Ok,M |
| 36 | J6431-09DL | PR034987.D | 21 Dec 2018 19:03 | SM\SJ | Ok,M |
| 37 | J6431-06DL | PR034988.D | 21 Dec 2018 19:17 | SM\SJ | Dilution |
| 38 | J6431-06DL2 | PR034989.D | 21 Dec 2018 19:32 | SM\SJ | Ok |
| 39 | J6431-04DL | PR034990.D | 21 Dec 2018 19:46 | SM\SJ | Ok,M |
| 40 | J6431-01DL | PR034991.D | 21 Dec 2018 20:01 | SM\SJ | Dilution |
| 41 | J6431-01DL2 | PR034992.D | 21 Dec 2018 20:15 | SM\SJ | Ok,M |
| 42 | J6412-06DL | PR034993.D | 21 Dec 2018 20:30 | SM\SJ | Dilution |
| 43 | J6431-16 | PR034994.D | 21 Dec 2018 20:44 | SM\SJ | Ok |
| 44 | J6431-17DL | PR034995.D | 21 Dec 2018 20:59 | SM\SJ | Ok |
| 45 | J6431-15 | PR034996.D | 21 Dec 2018 21:13 | SM\SJ | Not Ok |
| 46 | AIBLK97 | PR034997.D | 21 Dec 2018 21:27 | SM\SJ | Ok |
| 47 | AR1660CCC400 | PR034998.D | 21 Dec 2018 21:42 | SM\SJ | Ok |
| 48 | AR1242CCC400 | PR034999.D | 21 Dec 2018 21:56 | SM\SJ | Ok |
| 49 | AR1248CCC400 | PR035000.D | 21 Dec 2018 22:11 | SM\SJ | Ok,M |
| 50 | AR1254CCC400 | PR035001.D | 21 Dec 2018 22:25 | SM\SJ | Ok,M |
| 51 | J6432-06 | PR035002.D | 21 Dec 2018 22:40 | SM\SJ | Ok,M |
| 52 | J6432-07 | PR035003.D | 21 Dec 2018 22:54 | SM\SJ | Dilution |
| 53 | J6432-08 | PR035004.D | 21 Dec 2018 23:09 | SM\SJ | Dilution |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|----------|
| 54 | J6432-09 | PR035005.D | 21 Dec 2018 23:23 | SM\SJ | Dilution |
| 55 | J6432-10 | PR035006.D | 21 Dec 2018 23:37 | SM\SJ | Ok |
| 56 | J6432-11 | PR035007.D | 21 Dec 2018 23:52 | SM\SJ | Ok,M |
| 57 | J6432-12 | PR035008.D | 22 Dec 2018 00:06 | SM\SJ | Ok |
| 58 | J6432-13 | PR035009.D | 22 Dec 2018 00:21 | SM\SJ | Not Ok |
| 59 | J6432-14 | PR035010.D | 22 Dec 2018 00:35 | SM\SJ | Ok |
| 60 | J6432-15 | PR035011.D | 22 Dec 2018 00:50 | SM\SJ | Ok,M |
| 61 | J6432-16 | PR035012.D | 22 Dec 2018 01:04 | SM\SJ | Dilution |
| 62 | J6432-17 | PR035013.D | 22 Dec 2018 01:19 | SM\SJ | Ok,M |
| 63 | J6432-18 | PR035014.D | 22 Dec 2018 01:33 | SM\SJ | Ok |
| 64 | J6432-19 | PR035015.D | 22 Dec 2018 01:47 | SM\SJ | Dilution |
| 65 | AIBLK98 | PR035016.D | 22 Dec 2018 02:02 | SM\SJ | Ok |
| 66 | AR1660CCC400 | PR035017.D | 22 Dec 2018 02:16 | SM\SJ | Ok,M |
| 67 | AR1242CCC400 | PR035018.D | 22 Dec 2018 02:31 | SM\SJ | Ok |
| 68 | AR1248CCC400 | PR035019.D | 22 Dec 2018 02:45 | SM\SJ | Ok |
| 69 | AR1254CCC400 | PR035020.D | 22 Dec 2018 03:00 | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------|----------|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/IL.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|---------------|-----------|----------------|-------------------|---------|----------|--------|
| 1 | AIBLK82 | AIBLK82 | PR034706.D | 17 Dec 2018 14:52 | | SM\SJ | Ok |
| 2 | AR1660ICC100 | AR1660101 | PR034707.D | 17 Dec 2018 15:11 | | SM\SJ | Ok |
| 3 | AR1660ICC200 | AR1660201 | PR034708.D | 17 Dec 2018 15:25 | | SM\SJ | Ok |
| 4 | AR1660ICC400 | AR1660301 | PR034709.D | 17 Dec 2018 15:40 | | SM\SJ | Ok |
| 5 | AR1660ICC800 | AR1660401 | PR034710.D | 17 Dec 2018 15:54 | | SM\SJ | Ok |
| 6 | AR1660ICC1600 | AR1660501 | PR034711.D | 17 Dec 2018 16:09 | | SM\SJ | Ok |
| 7 | AR1221ICC100 | AR1221101 | PR034712.D | 17 Dec 2018 16:23 | | SM\SJ | Ok |
| 8 | AR1232ICC100 | AR1232201 | PR034713.D | 17 Dec 2018 16:37 | | SM\SJ | Ok |
| 9 | AR1242ICC100 | AR1242101 | PR034714.D | 17 Dec 2018 16:52 | | SM\SJ | Ok |
| 10 | AR1242ICC200 | AR1242201 | PR034715.D | 17 Dec 2018 17:06 | | SM\SJ | Ok |
| 11 | AR1242ICC400 | AR1242301 | PR034716.D | 17 Dec 2018 17:21 | | SM\SJ | Ok |
| 12 | AR1242ICC800 | AR1242401 | PR034717.D | 17 Dec 2018 17:35 | | SM\SJ | Ok |
| 13 | AR1242ICC1600 | AR1242501 | PR034718.D | 17 Dec 2018 17:50 | | SM\SJ | Ok |
| 14 | AR1248ICC100 | AR1248101 | PR034719.D | 17 Dec 2018 18:04 | | SM\SJ | Ok |
| 15 | AR1248ICC200 | AR1248201 | PR034720.D | 17 Dec 2018 18:19 | | SM\SJ | Ok |
| 16 | AR1248ICC400 | AR1248301 | PR034721.D | 17 Dec 2018 18:33 | | SM\SJ | Ok |
| 17 | AR1248ICC800 | AR1248401 | PR034722.D | 17 Dec 2018 18:48 | | SM\SJ | Ok |
| 18 | AR1248ICC1600 | AR1248501 | PR034723.D | 17 Dec 2018 19:02 | | SM\SJ | Ok |
| 19 | AR1254ICC100 | AR1254101 | PR034724.D | 17 Dec 2018 19:16 | | SM\SJ | Ok |
| 20 | AR1254ICC200 | AR1254201 | PR034725.D | 17 Dec 2018 19:31 | | SM\SJ | Ok |
| 21 | AR1254ICC400 | AR1254301 | PR034726.D | 17 Dec 2018 19:45 | | SM\SJ | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | Std Ref # | File Name | Time | Result | Status |
|-------|---------------|-----------|------------|-------------------|--------|--------|
| 22 | AR1254ICC800 | AR1254401 | PR034727.D | 17 Dec 2018 20:00 | | Ok |
| 23 | AR1254ICC1600 | AR1254501 | PR034728.D | 17 Dec 2018 20:14 | | Ok |
| 24 | AR1262ICC100 | AR1262101 | PR034729.D | 17 Dec 2018 20:29 | | Ok |
| 25 | AR1268ICC100 | AR1268101 | PR034730.D | 17 Dec 2018 20:43 | | Ok |
| 26 | AIBLK83 | AIBLK83 | PR034731.D | 17 Dec 2018 20:58 | | Ok |
| 27 | AR1660CCC400 | AR1660316 | PR034732.D | 17 Dec 2018 21:12 | | Ok |
| 28 | AR1242CCC400 | AR1242316 | PR034733.D | 17 Dec 2018 21:27 | | Ok |
| 29 | AR1248CCC400 | AR1248316 | PR034734.D | 17 Dec 2018 21:41 | | Ok |
| 30 | AR1254CCC400 | AR1254316 | PR034735.D | 17 Dec 2018 21:56 | | Ok |
| 31 | PB115739BL | ABLK39 | PR034736.D | 17 Dec 2018 22:10 | | Ok |
| 32 | PB115739BS | ALCS39 | PR034737.D | 17 Dec 2018 22:25 | | Ok |
| 33 | J6415-01 | CB546 | PR034738.D | 17 Dec 2018 22:39 | | Not Ok |
| 34 | J6415-02 | CB547 | PR034739.D | 17 Dec 2018 22:53 | | Not Ok |
| 35 | J6415-03 | CB548 | PR034740.D | 17 Dec 2018 23:08 | | Not Ok |
| 36 | J6415-04 | CB549 | PR034741.D | 17 Dec 2018 23:22 | | Not Ok |
| 37 | J6415-05 | CB550 | PR034742.D | 17 Dec 2018 23:37 | | Not Ok |
| 38 | J6415-06 | CB551 | PR034743.D | 17 Dec 2018 23:51 | | Not Ok |
| 39 | J6415-07MS | CB551MS | PR034744.D | 18 Dec 2018 00:06 | | Not Ok |
| 40 | J6415-08MSD | CB551MSD | PR034745.D | 18 Dec 2018 00:20 | | Not Ok |
| 41 | J6415-09 | CB552 | PR034746.D | 18 Dec 2018 00:35 | | Not Ok |
| 42 | J6415-10 | CB553 | PR034747.D | 18 Dec 2018 00:49 | | Not Ok |
| 43 | J6415-11 | CB554 | PR034748.D | 18 Dec 2018 01:04 | | Not Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | Batch | File Name | Time | Result | Status |
|-------|--------------|-----------|------------|-------------------|--------|--------|
| 44 | J6415-12 | CB555 | PR034749.D | 18 Dec 2018 01:18 | | Not Ok |
| 45 | J6415-13 | CB556 | PR034750.D | 18 Dec 2018 01:33 | | Not Ok |
| 46 | J6415-14 | CB557 | PR034751.D | 18 Dec 2018 01:47 | | Not Ok |
| 47 | J6415-15 | CB558 | PR034752.D | 18 Dec 2018 02:01 | | Not Ok |
| 48 | J6415-16 | CB559 | PR034753.D | 18 Dec 2018 02:16 | | Not Ok |
| 49 | J6415-17 | CB560 | PR034754.D | 18 Dec 2018 02:30 | | Not Ok |
| 50 | J6415-18 | CB561 | PR034755.D | 18 Dec 2018 02:45 | | Not Ok |
| 51 | J6415-19 | CB562 | PR034756.D | 18 Dec 2018 02:59 | | Not Ok |
| 52 | J6415-20 | CB563 | PR034757.D | 18 Dec 2018 03:14 | | Not Ok |
| 53 | J6415-21 | CB564 | PR034758.D | 18 Dec 2018 03:28 | | Not Ok |
| 54 | J6415-22 | CB568 | PR034759.D | 18 Dec 2018 03:43 | | Not Ok |
| 55 | AIBLK84 | AIBLK84 | PR034760.D | 18 Dec 2018 03:57 | | Ok |
| 56 | AR1660CCC400 | AR1660317 | PR034761.D | 18 Dec 2018 04:11 | | Ok |
| 57 | AR1242CCC400 | AR1242317 | PR034762.D | 18 Dec 2018 04:26 | | Ok |
| 58 | AR1248CCC400 | AR1248317 | PR034763.D | 18 Dec 2018 04:40 | | Ok |
| 59 | AR1254CCC400 | AR1254317 | PR034764.D | 18 Dec 2018 04:55 | | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122118

| | | | |
|--------------|----------|-------------------|-----------------------|
| Review By | Ankita | Review On | 12/21/2018 6:08:46 PM |
| Supervise By | Sohil | Supervise On | 12/21/2018 6:12:14 PM |
| SubDirectory | PR122118 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/IL.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|--------------|-----------|----------------|--------------------|--|----------|----------|
| 1 | HEXANE | HEXANE | PR034906.D | 20 Dec 2018 07:56 | | SM\SJ | Ok |
| 2 | AIBLK92 | AIBLK92 | PR034907.D | 20 Dec 2018 08:11 | | SM\SJ | Ok |
| 3 | AR1660CCC400 | AR1660325 | PR034908.D | 20 Dec 2018 08:25 | | SM\SJ | Ok |
| 4 | AR1242CCC400 | AR1242325 | PR034909.D | 20 Dec 2018 08:40 | | SM\SJ | Ok,M |
| 5 | AR1248CCC400 | AR1248325 | PR034910.D | 20 Dec 2018 08:54 | | SM\SJ | Ok |
| 6 | AR1254CCC400 | AR1254325 | PR034911.D | 20 Dec 2018 09:11 | | SM\SJ | Ok |
| 7 | PB115737BL | ABLK37 | PR034912.D | 20 Dec 2018 09:25 | | SM\SJ | Ok |
| 8 | J6412-14 | CB519 | PR034913.D | 20 Dec 2018 09:41 | AR1260 hits | SM\SJ | Ok,M |
| 9 | J6412-05DL | CB512DL | PR034914.D | 20 Dec 2018 09:55 | AR1260 hits, need further dilution | SM\SJ | Dilution |
| 10 | J6412-05DL2 | CB512DL2 | PR034915.D | 20 Dec 2018 10:10 | AR1260 hits | SM\SJ | Ok |
| 11 | J6412-06DL | CB513DL | PR034916.D | 20 Dec 2018 10:24 | AR1260 hits, need further dilution | SM\SJ | Not Ok |
| 12 | J6412-06DL | CB513DL | PR034917.D | 20 Dec 2018 10:39 | AR1260 hits, need further 500x | SM\SJ | Not Ok |
| 13 | J6412-08DL | CB515DL | PR034918.D | 20 Dec 2018 10:53 | AR1260 hits | SM\SJ | Ok |
| 14 | J6412-16DL | CB521DL | PR034919.D | 20 Dec 2018 11:07 | AR1260 hits | SM\SJ | Ok |
| 15 | J6412-20DL | CB525DL | PR034920.D | 20 Dec 2018 13:23 | AR 1260 hit | SM\SJ | Dilution |
| 16 | J6412-20DL2 | CB525DL2 | PR034921.D | 20 Dec 18 01:37 pm | AR1260 hit | SM\SJ | Ok |
| 17 | PB115754BL | ABLK54 | PR034922.D | 20 Dec 2018 13:54 | | SM\SJ | Ok |
| 18 | PB115754BS | ALCS54 | PR034923.D | 20 Dec 2018 14:09 | | SM\SJ | Ok |
| 19 | J6431-01 | A41T6 | PR034924.D | 20 Dec 2018 14:23 | AR1248, AR1254 & AR1260 hits, need 20X | SM\SJ | Dilution |
| 20 | J6431-02MS | A41T6MS | PR034925.D | 20 Dec 2018 14:38 | | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122118

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | Ankita | Review On | 12/21/2018 6:08:46 PM |
| Supervise By | Sohil | Supervise On | 12/21/2018 6:12:14 PM |
| SubDirectory | PR122118 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | Reference | File Name | Time | Notes | Status | Result |
|-------|--------------|-----------|------------|-------------------|--|--------|----------|
| 21 | J6431-03MSD | A41T6MSD | PR034926.D | 20 Dec 2018 14:52 | | SMSJ | Ok,M |
| 22 | AIBLK93 | AIBLK93 | PR034927.D | 20 Dec 2018 15:07 | | SMSJ | Ok |
| 23 | AR1660CCC400 | AR1660326 | PR034928.D | 20 Dec 2018 15:21 | | SMSJ | Ok |
| 24 | AR1242CCC400 | AR1242326 | PR034929.D | 20 Dec 2018 15:36 | | SMSJ | Ok,M |
| 25 | AR1248CCC400 | AR1248326 | PR034930.D | 20 Dec 2018 15:50 | | SMSJ | Ok |
| 26 | AR1254CCC400 | AR1254326 | PR034931.D | 20 Dec 2018 16:04 | | SMSJ | Ok |
| 27 | J6431-04 | A41W4 | PR034932.D | 20 Dec 2018 16:19 | AR1260 hits, need 5X | SMSJ | Dilution |
| 28 | J6431-05 | A41X1 | PR034933.D | 20 Dec 2018 16:33 | AR1260 hits | SMSJ | Ok,M |
| 29 | J6431-06 | A41X2 | PR034934.D | 20 Dec 2018 16:48 | AR1260 hits, need 20X | SMSJ | Dilution |
| 30 | J6431-07 | A41X3 | PR034935.D | 20 Dec 2018 17:02 | AR1260 hits | SMSJ | Ok,M |
| 31 | J6431-08 | A41X4 | PR034936.D | 20 Dec 2018 17:17 | AR1260 hits | SMSJ | Ok,M |
| 32 | J6431-09 | A41X5 | PR034937.D | 20 Dec 2018 17:31 | AR1248, AR1254 & AR1260 hits, need 2X, | SMSJ | Dilution |
| 33 | J6431-10 | A41X6 | PR034938.D | 20 Dec 2018 17:46 | AR1248, & AR1260 hits, need 10X, | SMSJ | Dilution |
| 34 | J6431-11 | A41X7 | PR034939.D | 20 Dec 2018 18:00 | AR1260 hits, need 5X | SMSJ | Dilution |
| 35 | J6431-12 | A41X8 | PR034940.D | 20 Dec 2018 18:15 | AR1260 hits | SMSJ | Ok |
| 36 | J6431-13 | A41X9 | PR034941.D | 20 Dec 2018 18:29 | AR1242,AR1260 | SMSJ | Ok,M |
| 37 | J6431-14 | A41Y0 | PR034942.D | 20 Dec 2018 18:44 | AR1260 hits | SMSJ | Ok |
| 38 | J6431-15 | A41Y1 | PR034943.D | 20 Dec 2018 18:58 | | SMSJ | Ok,M |
| 39 | J6431-16 | A41Y2 | PR034944.D | 20 Dec 2018 19:12 | bad chromatography re-inject | SMSJ | Not Ok |
| 40 | J6431-17 | A41Y3 | PR034945.D | 20 Dec 2018 19:27 | AR1260 hits, need 2X | SMSJ | Dilution |
| 41 | J6431-18 | A41Z4 | PR034946.D | 20 Dec 2018 19:41 | AR1248 hits | SMSJ | Ok |
| 42 | AIBLK94 | AIBLK94 | PR034947.D | 20 Dec 2018 19:56 | | SMSJ | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122118

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | Ankita | Review On | 12/21/2018 6:08:46 PM |
| Supervise By | Sohil | Supervise On | 12/21/2018 6:12:14 PM |
| SubDirectory | PR122118 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | | | |
|----|--------------|-----------|------------|-------------------|--|-------|------|
| 43 | AR1660CCC400 | AR1660327 | PR034948.D | 20 Dec 2018 20:10 | | SM\SJ | Ok |
| 44 | AR1242CCC400 | AR1242327 | PR034949.D | 20 Dec 2018 20:25 | | SM\SJ | Ok,M |
| 45 | AR1248CCC400 | AR1248327 | PR034950.D | 20 Dec 2018 20:39 | | SM\SJ | Ok |
| 46 | AR1254CCC400 | AR1254327 | PR034951.D | 20 Dec 2018 20:53 | | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------|----------|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/IL.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|--------------|-----------|----------------|-------------------|---|----------|----------|
| 1 | AIBLK95 | AIBLK95 | PR034952.D | 21 Dec 2018 08:41 | | SM\SJ | Ok,M |
| 2 | AR1660CCC400 | AR1660328 | PR034953.D | 21 Dec 2018 09:14 | | SM\SJ | Ok |
| 3 | AR1242CCC400 | AR1242328 | PR034954.D | 21 Dec 2018 09:28 | | SM\SJ | Ok |
| 4 | AR1248CCC400 | AR1248328 | PR034955.D | 21 Dec 2018 09:43 | | SM\SJ | Ok |
| 5 | AR1254CCC400 | AR1254328 | PR034956.D | 21 Dec 2018 09:57 | | SM\SJ | Ok,M |
| 6 | PB115757BL | ABLK57 | PR034957.D | 21 Dec 2018 10:12 | | SM\SJ | Ok |
| 7 | PB115757BS | ALCS57 | PR034958.D | 21 Dec 2018 10:26 | | SM\SJ | Ok,M |
| 8 | J6432-01 | A41T3 | PR034959.D | 21 Dec 2018 10:41 | AR1260 hit & Need 20x | SM\SJ | Dilution |
| 9 | J6412-21 | CB526 | PR034960.D | 21 Dec 2018 10:55 | AR1016+AR1260 hit & Already run | SM\SJ | Not Ok |
| 10 | J6412-06DL | CB513DL | PR034961.D | 21 Dec 2018 11:10 | AR1260 hits, need further dilution | SM\SJ | Not Ok |
| 11 | J6412-06DL2 | CB513DL2 | PR034962.D | 21 Dec 2018 11:31 | AR1260 hits | SM\SJ | Ok,M |
| 12 | PB115873BL | ABLK73 | PR034963.D | 21 Dec 2018 11:45 | | SM\SJ | Ok |
| 13 | PB115873BS | ALCS73 | PR034964.D | 21 Dec 2018 12:00 | | SM\SJ | Ok |
| 14 | J6416-01 | CB566 | PR034965.D | 21 Dec 2018 12:14 | AR1016+AR1260 hits | SM\SJ | Ok,M |
| 15 | J6416-02 | CB570 | PR034966.D | 21 Dec 2018 12:29 | AR1260 hits | SM\SJ | Ok |
| 16 | J6416-03 | CB569 | PR034967.D | 21 Dec 2018 12:43 | AR1260 hits | SM\SJ | Ok,M |
| 17 | J6416-04MS | CB569MS | PR034968.D | 21 Dec 2018 12:58 | Recovery failing high for AR1016 | SM\SJ | Ok,M |
| 18 | J6416-05MSD | CB569MSD | PR034969.D | 21 Dec 2018 13:12 | Recovery failing high for AR1016 and low for AR1260 | SM\SJ | Ok,M |
| 19 | J6432-02 | A41X0 | PR034970.D | 21 Dec 2018 13:27 | AR1260 Hit & Need 5x | SM\SJ | Dilution |
| 20 | J6432-03MS | A41X0MS | PR034971.D | 21 Dec 2018 13:41 | Recovery failing high for AR1016 and AR1260 | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | Std Name | File Name | Time | Notes | Operator | Status |
|-------|--------------|-----------|------------|-------------------|---|----------|----------|
| 21 | J6432-04MSD | A41X0MSD | PR034972.D | 21 Dec 2018 13:56 | Recovery failing high for AR1016 and AR1260 | SM\SJ | Ok,M |
| 22 | J6432-05 | A41Y4 | PR034973.D | 21 Dec 2018 14:10 | AR1260 hits | SM\SJ | Ok,M |
| 23 | PB115921BL | ABLK21 | PR034974.D | 21 Dec 2018 14:25 | | SM\SJ | Ok |
| 24 | PB115921BS | ALCS21 | PR034975.D | 21 Dec 2018 14:39 | | SM\SJ | Ok |
| 25 | J6510-04 | BECF6 | PR034976.D | 21 Dec 2018 14:54 | | SM\SJ | Ok |
| 26 | J6416-03DL | CB569 | PR034977.D | 21 Dec 2018 15:08 | AR1260 hits & Not Requird | SM\SJ | Not Ok |
| 27 | AIBLK96 | AIBLK96 | PR034978.D | 21 Dec 2018 15:23 | | SM\SJ | Ok |
| 28 | AR1660CCC400 | AR1660329 | PR034979.D | 21 Dec 2018 15:54 | | SM\SJ | Ok |
| 29 | AR1242CCC400 | AR1242329 | PR034980.D | 21 Dec 2018 16:10 | | SM\SJ | Ok |
| 30 | AR1248CCC400 | AR1248329 | PR034981.D | 21 Dec 2018 17:02 | | SM\SJ | Ok |
| 31 | AR1254CCC400 | AR1254329 | PR034982.D | 21 Dec 2018 17:51 | | SM\SJ | Ok,M |
| 32 | J6431-13 | A41X9 | PR034983.D | 21 Dec 2018 18:05 | AR1242,AR1260 & Already run | SM\SJ | Not Ok |
| 33 | J6431-11DL | A41X7DL | PR034984.D | 21 Dec 2018 18:20 | AR1260 hits, | SM\SJ | Ok |
| 34 | J6431-10DL | A41X6DL | PR034985.D | 21 Dec 2018 18:34 | AR1248 & AR1260 hits & Need more dilution | SM\SJ | Dilution |
| 35 | J6431-10DL2 | A41X6DL2 | PR034986.D | 21 Dec 2018 18:48 | AR1248+AR1260 hit | SM\SJ | Ok,M |
| 36 | J6431-09DL | A41X5DL | PR034987.D | 21 Dec 2018 19:03 | AR1248,AR1254 & AR1260 hits, | SM\SJ | Ok,M |
| 37 | J6431-06DL | A41X2DL | PR034988.D | 21 Dec 2018 19:17 | AR1260 hits & Need more dilution | SM\SJ | Dilution |
| 38 | J6431-06DL2 | A41X2DL2 | PR034989.D | 21 Dec 2018 19:32 | AR1260 hits | SM\SJ | Ok |
| 39 | J6431-04DL | A41W4DL | PR034990.D | 21 Dec 2018 19:46 | AR1260 hits | SM\SJ | Ok,M |
| 40 | J6431-01DL | A41T6DL | PR034991.D | 21 Dec 2018 20:01 | AR1248, AR1254 & AR1260 hits & Need more dilution | SM\SJ | Dilution |
| | | | | | | | |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | | | | | |
|--------------------------|---|-------------------|-----------------------|-------------------|---|-------|----------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM | | | | |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM | | | | |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method | | | | |
| STD. NAME | STD REF.# | | | | | | |
| Tune/Reschk | na | | | | | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | | | | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | | | | | |
| Internal Standard/PEM | na | | | | | | |
| ICV/I.BLK | | | | | | | |
| 41 | J6431-01DL2 | A41T6DL2 | PR034992.D | 21 Dec 2018 20:15 | AR1248, AR1254 & AR1260 hits & DCB high 1st col and TCMX high 2nd col | SM\SJ | Ok,M |
| 42 | J6412-06DL | CB513DL | PR034993.D | 21 Dec 2018 20:30 | AR1260 hits,need further dilution | SM\SJ | Dilution |
| 43 | J6431-16 | A41Y2 | PR034994.D | 21 Dec 2018 20:44 | AR1260 hits | SM\SJ | Ok |
| 44 | J6431-17DL | A41Y3DL | PR034995.D | 21 Dec 2018 20:59 | AR1260 hits | SM\SJ | Ok |
| 45 | J6431-15 | A41Y1 | PR034996.D | 21 Dec 2018 21:13 | | SM\SJ | Not Ok |
| 46 | AIBLK97 | AIBLK97 | PR034997.D | 21 Dec 2018 21:27 | | SM\SJ | Ok |
| 47 | AR1660CCC400 | AR1660330 | PR034998.D | 21 Dec 2018 21:42 | | SM\SJ | Ok |
| 48 | AR1242CCC400 | AR1242330 | PR034999.D | 21 Dec 2018 21:56 | CCC Passing for closing but failing for Opening | SM\SJ | Ok |
| 49 | AR1248CCC400 | AR1248330 | PR035000.D | 21 Dec 2018 22:11 | | SM\SJ | Ok,M |
| 50 | AR1254CCC400 | AR1254330 | PR035001.D | 21 Dec 2018 22:25 | CCC Passing for closing but failing for Opening | SM\SJ | Ok,M |
| 51 | J6432-06 | A41Y5 | PR035002.D | 21 Dec 2018 22:40 | AR1260 hit | SM\SJ | Ok,M |
| 52 | J6432-07 | A41Y6 | PR035003.D | 21 Dec 2018 22:54 | AR1260 hit & Need 20x | SM\SJ | Dilution |
| 53 | J6432-08 | A41Y7 | PR035004.D | 21 Dec 2018 23:09 | AR1260 hit & Need 40x | SM\SJ | Dilution |
| 54 | J6432-09 | A41Y8 | PR035005.D | 21 Dec 2018 23:23 | AR1260 hit & Need 5x | SM\SJ | Dilution |
| 55 | J6432-10 | A41Y9 | PR035006.D | 21 Dec 2018 23:37 | | SM\SJ | Ok |
| 56 | J6432-11 | A41Z0 | PR035007.D | 21 Dec 2018 23:52 | AR1260 hit | SM\SJ | Ok,M |
| 57 | J6432-12 | A41Z1 | PR035008.D | 22 Dec 2018 00:06 | | SM\SJ | Ok |
| 58 | J6432-13 | A41Z2 | PR035009.D | 22 Dec 2018 00:21 | AR1254+AR1260 hit & Opening CCC fail | SM\SJ | Not Ok |
| 59 | J6432-14 | A41Z5 | PR035010.D | 22 Dec 2018 00:35 | AR1260 hit | SM\SJ | Ok |
| 60 | J6432-15 | A41Z6 | PR035011.D | 22 Dec 2018 00:50 | AR1260 hit | SM\SJ | Ok,M |
| 61 | J6432-16 | A41Z7 | PR035012.D | 22 Dec 2018 01:04 | AR1248+AR1260 hit & Need 5x | SM\SJ | Dilution |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | | | |
|----|--------------|-----------|------------|-------------------|----------------------|-------|----------|
| 62 | J6432-17 | A41Z8 | PR035013.D | 22 Dec 2018 01:19 | AR1260 hit | SM\SJ | Ok,M |
| 63 | J6432-18 | A41Z9 | PR035014.D | 22 Dec 2018 01:33 | AR1260 hit | SM\SJ | Ok |
| 64 | J6432-19 | A4200 | PR035015.D | 22 Dec 2018 01:47 | AR1260 hit & Need 5X | SM\SJ | Dilution |
| 65 | AIBLK98 | AIBLK98 | PR035016.D | 22 Dec 2018 02:02 | | SM\SJ | Ok |
| 66 | AR1660CCC400 | AR1660331 | PR035017.D | 22 Dec 2018 02:16 | | SM\SJ | Ok,M |
| 67 | AR1242CCC400 | AR1242331 | PR035018.D | 22 Dec 2018 02:31 | | SM\SJ | Ok |
| 68 | AR1248CCC400 | AR1248331 | PR035019.D | 22 Dec 2018 02:45 | | SM\SJ | Ok |
| 69 | AR1254CCC400 | AR1254331 | PR035020.D | 22 Dec 2018 03:00 | | SM\SJ | Ok,M |

Login Summary Report

| | | | | | |
|-----------------|-----------------------|----------------|-----------------------|---------------|-----------|
| Order ID : | J6431 | Order Date : | 12/14/2018 1:00:00 PM | Project Mgr : | Deepak |
| Client : | USEPA CLP Organics | Project : | 48033 | Report Type : | USEPA CLP |
| Contact : | Anita Kapadia | Receive Date : | 12/14/2018 1:00:00 PM | EDD Type : | EPA CLP |
| Date Sign Off : | 12/15/2018 8:06:26 AM | | | | |

| Sample ID | Client ID | Matrix | Sampling Date | Test | Test Group | Method | TAT Days | Fax Due Date | HC Due Date |
|-----------|-----------|--------|---------------|----------------|------------|---------------|----------|--------------|-------------|
| J6431-01 | A41T6 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-02 | A41T6MS | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-03 | A41T6MSD | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-04 | A41W4 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-05 | A41X1 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-06 | A41X2 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-07 | A41X3 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-08 | A41X4 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-09 | A41X5 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-10 | A41X6 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |

| | | | | | | | | | |
|----------|-------|-------|------------|----------------|----|---------------|----|------------|------------|
| J6431-11 | A41X7 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-12 | A41X8 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-13 | A41X9 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-14 | A41Y0 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-15 | A41Y1 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-16 | A41Y2 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-17 | A41Y3 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6431-18 | A41Z4 | Solid | 12/12/2018 | | PE | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |

15751
12/17/18 9:20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : J6431 WorkList ID : 120450 Date : 12/17/2018 7:51:55 AM

| Due Date | Matrix | Sample | Test | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method |
|------------|--------|----------|------|--------------|----------|------------------|-----------------|--------------|-------------|
| 12/26/2018 | Solid | J6431-01 | PCB | Cool 4 deg C | USEP04 | A11 | A41T6 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-02 | PCB | Cool 4 deg C | USEP04 | A11 | A41T6MS | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-03 | PCB | Cool 4 deg C | USEP04 | A11 | A41T6MSD | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-04 | PCB | Cool 4 deg C | USEP04 | A11 | A41W4 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-05 | PCB | Cool 4 deg C | USEP04 | A11 | A41X1 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-06 | PCB | Cool 4 deg C | USEP04 | A11 | A41X2 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-07 | PCB | Cool 4 deg C | USEP04 | A11 | A41X3 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-08 | PCB | Cool 4 deg C | USEP04 | A11 | A41X4 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-09 | PCB | Cool 4 deg C | USEP04 | A11 | A41X5 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-10 | PCB | Cool 4 deg C | USEP04 | A11 | A41X6 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-11 | PCB | Cool 4 deg C | USEP04 | A11 | A41X7 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-12 | PCB | Cool 4 deg C | USEP04 | A11 | A41X8 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-13 | PCB | Cool 4 deg C | USEP04 | A11 | A41X9 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-14 | PCB | Cool 4 deg C | USEP04 | A11 | A41Y0 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-15 | PCB | Cool 4 deg C | USEP04 | A11 | A41Y1 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-16 | PCB | Cool 4 deg C | USEP04 | A11 | A41Y2 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-17 | PCB | Cool 4 deg C | USEP04 | A11 | A41Y3 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6431-18 | PCB | Cool 4 deg C | USEP04 | A11 | A41Z4 | 12/12/2018 | SOM02.4_PCB |

545

Date/Time 12/17/18 9:20 Date/Time 12/17/18 10:10
 Received by: RM Received by: CP
 Relinquished by: CP Relinquished by: RM



AS 1963
~~AS 1967~~

Instructions for QATS Catalog Numbers: 04-005 06-001
06-002 06-005
06-006 SR-PES
Aroclors in Soil

QATS LABORATORY INSTRUCTIONS FOR AROCLORS IN SOIL
PERFORMANCE EVALUATION SAMPLES

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions, or other appropriate methods.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Acetone and Dichloromethane
**FLAMMABLE LIQUID
POISON**

Contains Trace Organics
Safety Data Sheets
Available Upon Request

(A) SAMPLE DESCRIPTION

Enclosed is a set of Aroclors in Soil Performance Evaluation Samples (PESs). This set consists of one (1) or more bottles, each containing 40 grams of soil. Check the chain-of-custody record for descriptions and number of bottles of soil provided for Aroclors in soil analysis. The bottle(s) should not be opened until sample preparation or analysis is to occur.

CAUTION: The bottle(s) could contain compounds that are light sensitive and should be protected from light during storage. Store the sample(s) at 4° C ± 2° C for up to ten (10) days.

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120





(C) ANALYSIS REQUIREMENTS

Samples generated from the bottle(s) are to be analyzed in accordance with the SOW, other appropriate method, or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the SOW, other appropriate method, or your contract, disregard these instructions.

(D) GENERATION OF SAMPLES FROM BOTTLE(S) FOR ANALYSIS

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Perform the analysis as per the SOW, other appropriate method, or your contract. The sample container does not contain sufficient material to perform duplicate analyses.

Instructions for Aroclors in Soil Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

The following steps should be performed rapidly after opening the container. Do not perform a pH determination on the sample. When calculating the concentrations of analytes, use 0% as the soil moisture content.

To prepare the Aroclors in soil sample for analysis, weigh out an appropriate aliquot of soil, as specified in the SOW (30 grams), other appropriate method, or your contract, and record the exact weight. Do not weigh out additional soil for moisture determination. Proceed immediately with the extraction and analysis as described in the SOW, other appropriate method, or your contract.

(E) REPORTING

Report the results for the soil sample(s) prepared as directed above.

Report format and other instructions for submission of data packages containing these analysis results are included in the SOW, other appropriate method, or your contract.

SDG COVER PAGE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Cas No.: 48033 MA No. : _____ SDG No.: A41T3
 SOW No. : SOM02.4

| EPA Sample No. | Lab Sample ID | Trace VOA | Low Med VOA | Analysis Method | | | |
|----------------|---------------|--------------|-------------------|-----------------|-------------|------|-----|
| | | | | SVOA | SVOA SIM | PEST | ARO |
| A41T3 | J6432-01 | | | | | | X |
| A41X0 | J6432-02 | | | | | | X |
| A41XOMS | J6432-03 | | | | | | X |
| A41XOMSD | J6432-04 | | | | | | X |
| A41Y4 | J6432-05 | | | | | | X |
| A41Y5 | J6432-06 | | | | | | X |
| A41Y6 | J6432-07 | | | | | | X |
| A41Y7 | J6432-08 | | | | | | X |
| A41Y8 | J6432-09 | | | | | | X |
| A41Y9 | J6432-10 | | | | | | X |
| A41Z0 | J6432-11 | | | | | | X |
| A41Z1 | J6432-12 | | | | | | X |
| A41Z2 | J6432-13 | | | | | | X |
| A41Z5 | J6432-14 | | | | | | X |
| A41Z6 | J6432-15 | | | | | | X |
| A41Z7 | J6432-16 | | | | | | X |
| A41Z8 | J6432-17 | | | | | | X |
| A41Z9 | J6432-18 | | | | | | X |
| A4200 | J6432-19 | | | | | | X |

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:  Name: Nimisha Pandya
 Date: 01/03/19 Title: QA/QC

USEPA CLP COC (LAB COPY)

Date Shipped: 12/14/2018

Carrier Name: Hand Delivered

Airbill No: NA

CHAIN OF CUSTODY RECORD

Case #: 48033

Cooler #: 0001

SDG # A41T3

No: 1-121218-133452-0003

Lab: Chemtech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|-------------------|----------------|-----------------|--------------|----------------------------|--------------------------|----------|----------------------|------------------|
| 0252-0001 | A41T3 | Soil/ START | Grab | ARO(21) | 1000 (4 C) (1) | EW-01 | 12/12/2018 08:45 | |
| 0252-0020 | A41X0 | Soil/ START | Grab | ARO(21) | 1017 (4 C) (2) | FS-08 | 12/12/2018 10:15 | |
| 0252-0035 | A41Y4 | Soil/ START | Grab | ARO(21) | 1031 (4 C) (1) | FS-17 | 12/12/2018 11:15 | |
| 0252-0036 | A41Y5 | Soil/ START | Grab | ARO(21) | 1032 (4 C) (1) | FS-19 | 12/12/2018 11:10 | |
| 0252-0037 | A41Y6 | Soil/ START | Grab | ARO(21) | 1033 (4 C) (1) | FS-20 | 12/12/2018 11:05 | |
| 0252-0038 | A41Y7 | Soil/ START | Grab | ARO(21) | 1034 (4 C) (1) | SHW-01 | 12/12/2018 11:55 | |
| 0252-0039 | A41Y8 | Soil/ START | Grab | ARO(21) | 1035 (4 C) (1) | WHW-01 | 12/12/2018 11:50 | |
| 0252-0040 | A41Y9 | Soil/ START | Grab | ARO(21) | 1036 (4 C) (1) | HF-01 | 12/12/2018 11:45 | |
| 0252-0041 | A41Z0 | Soil/ START | Grab | ARO(21) | 1037 (4 C) (1) | HF-101 | 12/12/2018 11:45 | |
| 0252-0042 | A41Z1 | Soil/ START | Grab | ARO(21) | 1038 (4 C) (1) | NHW-01 | 12/12/2018 11:50 | |
| 0252-0043 | A41Z2 | Soil/ START | Grab | ARO(21) | 1039 (4 C) (1) | EHW-01 | 12/12/2018 11:45 | |
| 0252-0046 | A41Z5 | Lab Sand/ START | Grab | ARO(21) | 1042 (4 C) (1) | AS1867 | 12/12/2018 12:02 | PE |
| 0252-0048 | A41Z6 | Soil/ START | Grab | ARO(21) | 1043 (4 C) (1) | FS-01 | 12/12/2018 10:20 | |
| 0252-0049 | A41Z7 | Soil/ START | Grab | ARO(21) | 1044 (4 C) (1) | FS-03 | 12/12/2018 10:30 | |
| 0252-0050 | A41Z8 | Soil/ START | Grab | ARO(21) | 1045 (4 C) (1) | FS-07 | 12/12/2018 10:50 | |
| 0252-0051 | A41Z9 | Soil/ START | Grab | ARO(21) | 1046 (4 C) (1) | FS-18 | 12/12/2018 11:15 | |
| 0252-0052 | A4200 | Soil/ START | Grab | ARO(21) | 1047 (4 C) (1) | NW-02 | 12/12/2018 09:55 | |

Sample(s) to be used for Lab QC: 0252-0020 Tag 1017 - Special Instructions: Cooler# 0001 contains all of samples from COC# - 0002 and a portion of samples from COC# -0003

Analysis Key: ARO=CLP Aroclors

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|--------------|--|---------------|--|-------------------|-------------------------------|
| | <i>Tyler Evans</i> | 12/13/18/1500 | <i>OK</i> | 12:00 12-14-18 | 2-8 |
| | | | | | |
| | | | | | |
| | | | | | |

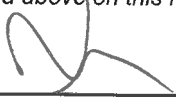
Sample Delivery Group (SDG) Cover Sheet

SDG Number A41T3 Case Number 48033 Contract Number EP-W-14-030
 Lab Code CHM SDG Turnaround 21 days Delivery CLIN(s) 1-9
 First Sample Received in SDG A41T3 Last Sample Received in SDG A4200
 First Sample Receipt Date 12/14/2018 13:00 Last Sample Receipt Date 12/14/2018 13:00

USEPA Sample Numbers in SDG (Listed in Numerical Order)

| CLP Sample ID | Sample Type | Requested Analytical CLIN(s)/SubCLIN(s) | Solicitation Number | MA Number(s) |
|---------------|--------------|---|---------------------|--------------|
| A41T3 | Field Sample | 0020AB | N/A | N/A |
| A41X0 | Field Sample | 0020AB | N/A | N/A |
| A41X0MS | Field Sample | 0020AB | N/A | N/A |
| A41X0MSD | Field Sample | 0020AB | N/A | N/A |
| A41Y4 | Field Sample | 0020AB | N/A | N/A |
| A41Y5 | Field Sample | 0020AB | N/A | N/A |
| A41Y6 | Field Sample | 0020AB | N/A | N/A |
| A41Y7 | Field Sample | 0020AB | N/A | N/A |
| A41Y8 | Field Sample | 0020AB | N/A | N/A |
| A41Y9 | Field Sample | 0020AB | N/A | N/A |
| A41Z0 | Field Sample | 0020AB | N/A | N/A |
| A41Z1 | Field Sample | 0020AB | N/A | N/A |
| A41Z2 | Field Sample | 0020AB | N/A | N/A |
| A41Z5 | PE SAMPLE | 0020AB | N/A | N/A |
| A41Z6 | Field Sample | 0020AB | N/A | N/A |
| A41Z7 | Field Sample | 0020AB | N/A | N/A |
| A41Z8 | Field Sample | 0020AB | N/A | N/A |
| A41Z9 | Field Sample | 0020AB | N/A | N/A |
| A4200 | Field Sample | 0020AB | N/A | N/A |

Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Signature 

Date 12/14/18

FORM DC-1
SAMPLE LOG-IN SHEET

| | | |
|---|----------------------|-------------------------------|
| Lab Name CHEMTECH CONSULTING GROUP | | Page <u>1</u> of <u>1</u> |
| Received By (Print Name) <u>Casanova Pera</u> | | Log-in Date <u>12/14/2018</u> |
| Received By (Signature) <u>[Signature]</u> | | |
| Case Number <u>48033</u> | SDG No. <u>A41T3</u> | MA No. <u>N/A</u> |

| | |
|--|--------------------------|
| Remarks: | |
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | <u>N/A</u> |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. | <u>HAND-DELIVERED</u> |
| 6. Sample Tags | Absent |
| Sample Tag # | Listed on Traffic Report |
| 7. Sample Condition | Intact |
| 8. Shipping Container Temperature Indicator Bottle | Present |
| 9. Shipping Container Temperature | <u>2.8</u> Degree C |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | <u>12/14/2018</u> |
| 12. Time Received | <u>13:00</u> |

| | EPA Sample # | Corresponding | | Remarks: Condition of Sample shipment, etc. |
|----|--------------|---------------|----------------|---|
| | | Sample Tag # | Assigned Lab # | |
| 1 | A41T3 | 1000 | J6432-01 | Intact |
| 2 | A41X0 | 1017 | J6432-02 | Intact |
| 3 | A41X0MS | 1017 | J6432-03 | Intact |
| 4 | A41X0MSD | 1017 | J6432-04 | Intact |
| 5 | A41Y4 | 1031 | J6432-05 | Intact |
| 6 | A41Y5 | 1032 | J6432-06 | Intact |
| 7 | A41Y6 | 1033 | J6432-07 | Intact |
| 8 | A41Y7 | 1034 | J6432-08 | Intact |
| 9 | A41Y8 | 1035 | J6432-09 | Intact |
| 10 | A41Y9 | 1036 | J6432-10 | Intact |
| 11 | A41Z0 | 1037 | J6432-11 | Intact |
| 12 | A41Z1 | 1038 | J6432-12 | Intact |
| 13 | A41Z2 | 1039 | J6432-13 | Intact |
| 14 | A41Z5 | 1042 | J6432-14 | Intact |
| 15 | A41Z6 | 1043 | J6432-15 | Intact |
| 16 | A41Z7 | 1044 | J6432-16 | Intact |
| 17 | A41Z8 | 1045 | J6432-17 | Intact |
| 18 | A41Z9 | 1046 | J6432-18 | Intact |
| 19 | A4200 | 1047 | J6432-19 | Intact |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |

* Contact SMO and attach record of resolution

| | |
|--------------------------------|---------------------------|
| Reviewed By <u>[Signature]</u> | Logbook No. <u>2</u> |
| Date <u>12/14/18</u> | Logbook Page No. <u>2</u> |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | | | |
|--------------|---------------------------|---------|-------|
| LAB NAME | CHEMTECH CONSULTING GROUP | | |
| LAB CODE | CHM | | |
| CONTRACT NO. | EPW14030 | | |
| CASE NO. | 48033 | SDG NO. | A41T3 |
| MA NO. | | | |
| SOW NO. | SOM02.4 | | |

All documents delivered in the complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

| | PAGE NOS. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 1. SDG Cover Page | 1 | 1 | ✓ | |
| 2. Traffic Report/Chain of Custody Record(s) | 2 | 3 | ✓ | |
| 3. Sample Log-In Sheet (DC-1) | 4 | 4 | ✓ | |
| 4. CSF Inventory Sheet (DC-2) | 5 | 11 | ✓ | |
| 5. SDG Narrative | 12 | 22 | ✓ | |

Organic Analysis

Trace Volatiles

Quality Control Summary

| | | | | |
|--|----|----|---|--|
| 6. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 7. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region) | NA | NA | ✓ | |
| 8. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 9. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 10. Internal Standard Area and Retention Summary (Form 8A-OR) | NA | NA | ✓ | |

Sample Data

| | | | | |
|---|----|----|---|--|
| 11. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 12. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 13. Raw Data for each sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | | | | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |
| Standards Data (All Instruments) | | | | |
| 14. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 15. RICs and Quantitation Reports for all Standards | | | | |

FORM DC-2
 FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|---|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 16. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7-OR) | NA | NA | ✓ | |
| 17. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 18. Performance Check | NA | NA | ✓ | |
| 19. Blank Data | NA | NA | ✓ | |
| 20. Matrix Spike/Matrix Spike Duplicate Data (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 21. Original Preparation and analysis forms or copies of preparation and analysis logbook pages (including screening records if applicable) | NA | NA | ✓ | |
| Low-Medium Volatiles | | | | |
| Quality Control Summary | | | | |
| 22. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 23. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 24. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 25. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 26. Internal Standard Area and Retention Time Summary (Form 8A-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 27. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 28. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 29. Raw Data for Each Sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | | | | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |
| Standards Data (All Instruments) | | | | |
| 30. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 31. RICs and Quantitation Reports for all Standards | | | | |
| 32. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7A-OR) | NA | NA | ✓ | |
| 33. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 34. Performance Check | NA | NA | ✓ | |

FORM DC-2
 FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOs. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 35. Blank Data | NA | NA | ✓ | |
| 36. Matrix Spike/Matrix Spike Duplicate Data (if requested by EPA Region) | NA | NA | ✓ | |
| 37. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Semivolatiles | | | | |
| Quality Control Summary | | | | |
| 38. Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR) | NA | NA | ✓ | |
| 39. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by EPA Region) | NA | NA | ✓ | |
| 40. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| 41. GC/MS Instrument Performance Check (Form 5-OR) | NA | NA | ✓ | |
| 42. Internal Standard Area and Retention Time Summary (Form 8A-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 43. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 44. Tentatively Identified Compounds (Form 1B-OR) | | | | |
| 45. Raw Data for Each sample: | | | | |
| Reconstructed total ion chromatograms (RICs) for each sample | NA | NA | ✓ | |
| Raw Spectra and background-subtracted mass spectra of target analytes identified | | | | |
| Quantitation Reports | | | | |
| Mass Spectra of all reported TICs with three best library matches | | | | |
| GPC chromatograms (if GPC is required) | | | | |
| Standards Data (All Instruments) | | | | |
| 46. GC/MS Initial Calibration Data (Form 6A-OR) | NA | NA | ✓ | |
| 47. RICs and Quantitation Reports for all Standards | | | | |
| 48. Initial Calibration Verification and Continuing Calibration Verification for GC/MS (Form 7A-OR) | NA | NA | ✓ | |
| 49. RICs and Quantitation Reports for all Standards | | | | |
| Quality Control Data | | | | |
| 50. Performance Check | NA | NA | ✓ | |
| 51. Blank Data | NA | NA | ✓ | |
| 52. Matrix Spike/Matrix Spike Duplicate Data (if requested by EPA Region) | NA | NA | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|--|-----------|----|-------|--------|
| | FROM | TO | LAB | REGION |
| 53. Raw GPC Data | NA | NA | ✓ | |
| 54. For SIM analysis (if requested), at the same sequence as listed above, except for that Form 1B-OR and TIC spectra data which are not required for SIM method. | NA | NA | ✓ | |
| 55. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Pesticides | | | | |
| Quality Control Summary | | | | |
| 56. Surrogate Recovery (Form 2C-OR) | NA | NA | ✓ | |
| 57. Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR each columns) | NA | NA | ✓ | |
| 58. Laboratory Control Sample Recovery (Form 3B-OR each column) | NA | NA | ✓ | |
| 59. Method Blank Summary (Form 4-OR) | NA | NA | ✓ | |
| Sample Data | | | | |
| 60. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | NA | NA | ✓ | |
| 61. Raw Data for Each Sample: | | | | |
| Chromatograms (Primary Column) | | | | |
| Chromatograms (Secondary Column) | | | | |
| Quantitation Reports | | | | |
| Manual Worksheets | | | | |
| 62. For Pesticides by GC/MS Confirmation: | | | | |
| Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards) | | | | |
| Standards Data | | | | |
| 63. Initial Calibration of Single Component Analytes (Form 6B-OR and 6C-OR) | NA | NA | ✓ | |
| 64. Initial Calibration of Multicomponent Analytes (Form 6D-OR and 6E-OR) | NA | NA | ✓ | |
| 65. Analyte Resolution Summary (Form 6G-OR) | NA | NA | ✓ | |
| 66. Pesticide Performance Evaluation Mixture Calibration Verification Summary (Form 7B-OR) | NA | NA | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET


| | PAGE NOS. | | CHECK | |
|--|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 67. Continuing Calibration Verification Summary (Form 7C-OR) | NA | NA | ✓ | |
| 68. Multicomponent Continuing Calibration Verification Summary (Form 7D-OR) | NA | NA | ✓ | |
| 69. Analytical Sequence (Form 8B-OR) | NA | NA | ✓ | |
| 70. Florisil Cartridge Check (Form 9A-OR) | NA | NA | ✓ | |
| 71. GPC Calibration Verification (Form 9B-OR) | NA | NA | ✓ | |
| 72. Identification Summary for Single Component Analytes (Form 10A-OR) | NA | NA | ✓ | |
| 73. Identification Summary for Multicomponent Analytes (Form 10B-OR) | | | | |
| 74. Chromatograms and Quantitation Reports: A printout of Retention Times and corresponding peak areas or peak heights | NA | NA | ✓ | |
| Quality Control Data | | | | |
| 75. Blank Data | NA | NA | ✓ | |
| 76. Matrix Spike/Matrix Spike Duplicate Data | NA | NA | ✓ | |
| 77. Laboratory Control Sample | NA | NA | ✓ | |
| 78. Raw GPC Data | NA | NA | ✓ | |
| 79. Raw Florisil Data | NA | NA | ✓ | |
| 80. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable) | NA | NA | ✓ | |
| Aroclor Data | | | | |
| Quality Control Summary | | | | |
| 81. Surrogate Recovery (Form 2C-OR) | 23 | 24 | ✓ | |
| 82. Matrix Spike/Matrix Spike Duplicate Summary (Form 3A-OR) | 25 | 26 | ✓ | |
| 83. Laboratory Control Sample Recovery (Form 3B-OR for each column) | 27 | 27 | ✓ | |
| 84. Method Blank Summary (Form 4-OR) | 28 | 29 | ✓ | |
| Sample Data | | | | |
| 85. TAL Results - Organics Analysis Data Sheet (Form 1A-OR) | 30 | 209 | ✓ | |

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOs. | | CHECK | |
|---|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 86. Raw Data for Each Sample: | NA | NA | ✓ | |
| Chromatograms (Primary Column) | NA | NA | ✓ | |
| Chromatograms (Secondary Column) | NA | NA | ✓ | |
| Quantitation Reports | NA | NA | ✓ | |
| Manual Worksheets | NA | NA | ✓ | |
| 87. For Aroclors by GC/MS Confirmation: | NA | NA | ✓ | |
| Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards) | NA | NA | ✓ | |
| Standards Data | | | | |
| 88. Initial Calibration of Multicomponent Analytes (Form 6D-OR, Form 6E-OR, and Form 6F-OR) | 210 | 219 | ✓ | |
| 89. Multicomponent Continuing Calibration Verification Summary (Form 7D-OR) | 220 | 243 | ✓ | |
| 90. Analytical Sequence (Form 8B-OR) | 244 | 261 | ✓ | |
| 91. Identification Summary for Multicomponent Analytes (Form 10B-OR) | 262 | 289 | ✓ | |
| 92. Chromatograms and data system printouts: | 290 | 369 | ✓ | |
| A printout of Retention Times and corresponding peak areas or peak heights | | | | |
| Quality Control Data | | | | |
| 93. Blank Data | 370 | 405 | ✓ | |
| 94. Matrix Spike/Matrix Spike Duplicate Data | 406 | 419 | ✓ | |
| 95. Laboratory Control Sample (LCS) Data | 420 | 428 | ✓ | |
| 96. Raw GPC Data (if performed) | NA | NA | ✓ | |
| 97. Original preparation and analysis forms or copies of preparation and analysis logbook pages (including Percent Solid Determinations logs and screening records if applicable) | 429 | 501 | ✓ | |
| Additional | | | | |
| 98. EPA Shipping/Receiving Documents | NA | NA | ✓ | |
| Airbills (No. of shipments NA) | | | | |
| Sample Tags | NA | NA | ✓ | |
| Sample Log-In Sheet (Lab) | 502 | 503 | ✓ | |

FORM DC-2
 FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | PAGE NOS. | | CHECK | |
|---|-----------|-----|-------|--------|
| | FROM | TO | LAB | REGION |
| 99. Misc. Shipping/Receiving Records (list all individual records) Communication Logs | NA | NA | ✓ | |
| 100. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list) | 504 | 504 | ✓ | |
| 101. PE/PT Instruction Forms | 505 | 506 | ✓ | |
| 102. Other Records (describe or list) Communication Log | NA | NA | ✓ | |
| 103. Comments | | | | |

Completed by:  Nimisha Pandya OALoe 01/03/19
 (CLP Lab) (Signature) (Printed Name/Title) (Date)

Audited by: _____
 (EPA) (Signature) (Printed Name/Title) (Date)

SDG NARRATIVE**LAB NAME: CHEMTECH CONSULTING GROUP****CASE: 48033****SDG: A41T3****CONTRACT: EPW14030****LAB CODE: CHM****CHEMTECH PROJECT: J6432****MODIFICATION REF. NUMBER: NA**

| Sample ID | EPA Sample ID | pH |
|-------------|---------------|----|
| J6432-01 | A41T3 | |
| J6432-01DL | A41T3DL | |
| J6432-01DL2 | A41T3DL2 | |
| J6432-02 | A41X0 | |
| J6432-02DL | A41X0DL | |
| J6432-03MS | A41X0MS | |
| J6432-04MSD | A41X0MSD | |
| J6432-05 | A41Y4 | |
| J6432-06 | A41Y5 | |
| J6432-07 | A41Y6 | |
| J6432-07DL | A41Y6DL | |
| J6432-07DL2 | A41Y6DL2 | |
| J6432-08 | A41Y7 | |
| J6432-08DL | A41Y7DL | |
| J6432-08DL2 | A41Y7DL2 | |
| J6432-09 | A41Y8 | |
| J6432-09DL | A41Y8DL | |
| J6432-10 | A41Y9 | |
| J6432-11 | A41Z0 | |
| J6432-12 | A41Z1 | |
| J6432-13 | A41Z2 | |
| J6432-14 | A41Z5 | |
| J6432-15 | A41Z6 | |
| J6432-16 | A41Z7 | |
| J6432-16DL | A41Z7DL | |
| J6432-17 | A41Z8 | |
| J6432-18 | A41Z9 | |
| J6432-19 | A4200 | |
| J6432-19DL | A4200DL | |

18 Water samples were delivered to the laboratory intact on 12/14/2018.

Test requested on the Chain of Custody was Aroclor by Method SOM02.4.

Sample Tags were not received with the samples.

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.8 degrees Celsius.

Shipping Discrepancies and/or QC issues:

Issue 1: Sample tags were not received with samples at the laboratory. Sample tag numbers may or may not be listed on the TR/COC.

Resolution 1: In accordance with previous direction from Region 1, the laboratory will note the issue in the SDG Narrative, and proceed with the analysis of the sample. The Resolution will be applied to all samples received for this Case.

Aroclors:

The analyses were performed on instrument GCECD_R The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.

Samples were analyzed on a single injection dual column system. To distinguish the second column analysis from the first column a -2 suffix was added to the file id on the form 8 and form 1. This refers to forms where both columns are reported. Form 1s for the IBLK, MS, MSD and ALCS have the -2 on the form as per the method section 3.3.7.1 foot notes.

Aroclor sample were extracted by Method SOM02.4 on 12/17/2018 and analyzed on 12/21,22,28/2018. All the samples were subjected to a Sulfuric acid cleanup. The samples were extracted and analyzed within contractual holding time.

The Surrogate recoveries met the requirements except for;

A41T3DL2 [Decachlorobiphenyl(1) - 535%],

A41Y6DL2 [Decachlorobiphenyl(1) - 457%],

A41Y7DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0% and Tetrachloro-m-xylene(2) - 0%].

The SOW allows one surrogate to fail to meet the criteria per column. (Section 11.3.6 of Exhibit D Aroclor Analysis). No further corrective action was taken. A41Y7DL2 fail due to the dilution for the high concentration.

A41X0MS/MSD did not meet the requirements. No corrective action is required for failure to meet the MS/MSD criteria by the SOW. (Section 12.2.5.5 of Exhibit D Aroclor Analysis).

The RPD met the requirements.

The Retention Times met requirements except for A41Y7DL2 which surrogates were diluted out.

The Laboratory Control Sample met requirements.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuing Calibrations met the requirements.

Samples A41T3, A41T3DL, A41X0, A41Y6, A41Y6DL, A41Y7, A41Y7DL, A41Y8, A41Z7 and A4200 were diluted due to the high concentration of AR1260 and AR1248.

See **Manual Integration report** for the manual integration information at the end of the case narrative.

Calculation for Concentration in Soil samples:

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)}$$

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vt = Volume of the concentrated extract in uL

Vi = Volume of extract injected (uL). (If a single injection is made onto two columns, use ½ the volume in the syringe as the volume injected onto each column).

Ws = Weight of sample extracted (g).

D = % dry weight or $\frac{100 - \% \text{Moisture}}{100}$

GPC = $\frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, GPC=1)

DF = Dilution Factor

Example of AR1260 calculation for Peak 1

Calibration factor Peak 1 100ppb ISTD= $\frac{\text{peak area}}{\text{Mass injected ng}}$
Column 2

$$= \frac{25538159}{0.100}$$

= 255381590 calibration factor for Peak 1 100ppb AR1254

Average of 5 peaks = 214972196

Sample A41Y6DL2

Ax = 236600000
CF = 214972196
Vt = 5000
Vi = 1.0
Ws = 30.1
D = 0.816
GPC = 2.0
DF = 20.0

$$\begin{aligned} \text{Concentration ug/Kg (Dry weight basis)} &= \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)} \\ &= \frac{(236600000)(5000)(20.0)(2.0)}{(214972196)(1.0)(30.1)(0.816)} \end{aligned}$$

Peak 1 = 8962.0175

Average of 5 peaks = 8551.0676

Reported results = 8600 ug/kg

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

Signature  Name: Mildred V. ReyesDate: 01/03/19 Title: Document Control Officer



Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | PR121818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | PR122218 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|--------------------------|---------------|--------------------|---|
| AIBLK95/ AIBLK95 | PR034952.D | Tetrachloro-m-xylene | SOMINA | 12/26/2018 7:59:48 AM | Sohil | 12/26/2018 8:06:21 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254328 | PR034956.D | AR-1254-1 | SOMINA | 12/26/2018 7:59:49 AM | Sohil | 12/26/2018 8:06:23 | Peak Integrated by Software incorrectly |
| PB115757BS/ ALCS57 | PR034958.D | AR-1016-5 #2 | SOMINA | 12/26/2018 7:59:51 AM | Sohil | 12/26/2018 8:06:26 | Peak Integrated by Software incorrectly |
| PB115757BS/ ALCS57 | PR034958.D | AR-1260-1 | SOMINA | 12/26/2018 7:59:51 AM | Sohil | 12/26/2018 8:06:26 | Peak Integrated by Software incorrectly |
| J6432-01/ A41T3 | PR034959.D | Tetrachloro-m-xylene | SOMINA | 12/26/2018 7:59:52 AM | Sohil | 12/26/2018 8:06:43 | Peak Integrated by Software incorrectly |
| J6432-01/ A41T3 | PR034959.D | Tetrachloro-m-xylene #2 | SOMINA | 12/26/2018 7:59:52 AM | Sohil | 12/26/2018 8:06:43 | Peak Integrated by Software incorrectly |
| J6432-03MS/ A41X0MS | PR034971.D | AR-1016-3 | SOMINA | 12/26/2018 8:07:18 AM | Sohil | 12/26/2018 8:08:53 | Peak Integrated by Software incorrectly |
| J6432-03MS/ A41X0MS | PR034971.D | AR-1016-3 #2 | SOMINA | 12/26/2018 8:07:18 AM | Sohil | 12/26/2018 8:08:53 | Peak Integrated by Software incorrectly |
| J6432-03MS/ A41X0MS | PR034971.D | AR-1016-4 | SOMINA | 12/26/2018 8:07:18 AM | Sohil | 12/26/2018 8:08:53 | Peak Integrated by Software incorrectly |
| J6432-03MS/ A41X0MS | PR034971.D | AR-1016-5 #2 | SOMINA | 12/26/2018 8:07:18 AM | Sohil | 12/26/2018 8:08:53 | Peak Integrated by Software incorrectly |
| J6432-04MSD/ A41X0MSD | PR034972.D | AR-1016-3 | SOMINA | 12/26/2018 8:07:20 AM | Sohil | 12/26/2018 8:08:55 | Peak Integrated by Software incorrectly |
| J6432-04MSD/ A41X0MSD | PR034972.D | AR-1016-3 #2 | SOMINA | 12/26/2018 8:07:20 AM | Sohil | 12/26/2018 8:08:55 | Peak Integrated by Software incorrectly |
| J6432-04MSD/ A41X0MSD | PR034972.D | AR-1016-4 | SOMINA | 12/26/2018 8:07:20 AM | Sohil | 12/26/2018 8:08:55 | Peak Integrated by Software incorrectly |

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | PR122218 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|--------------------------|---------------|--------------------|---|
| J6432-04MSD/ A41X0MSD | PR034972.D | AR-1016-5 #2 | SOMINA | 12/26/2018 8:07:20 AM | Sohil | 12/26/2018 8:08:55 | Peak Integrated by Software incorrectly |
| J6432-05/ A41Y4 | PR034973.D | AR-1260-3 | SOMINA | 12/26/2018 8:08:11 AM | Sohil | 12/26/2018 8:08:57 | Peak Integrated by Software incorrectly |
| J6432-05/ A41Y4 | PR034973.D | AR-1260-4 | SOMINA | 12/26/2018 8:08:11 AM | Sohil | 12/26/2018 8:08:57 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254329 | PR034982.D | AR-1254-1 | SOMINA | 12/26/2018 8:08:58 AM | Sohil | 12/26/2018 8:14:01 | Peak Integrated by Software incorrectly |
| AR1248CCC400 / AR1248330 | PR035000.D | Tetrachloro-m-xylene #2 | SOMINA | 12/26/2018 8:17:19 AM | Sohil | 12/26/2018 8:20:23 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254330 | PR035001.D | AR-1254-1 | SOMINA | 12/26/2018 8:17:20 AM | Sohil | 12/26/2018 8:20:25 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254330 | PR035001.D | AR-1254-4 | SOMINA | 12/26/2018 8:17:20 AM | Sohil | 12/26/2018 8:20:25 | Peak Integrated by Software incorrectly |
| J6432-06/ A41Y5 | PR035002.D | AR-1260-1 | SOMINA | 12/26/2018 8:17:59 AM | Sohil | 12/26/2018 8:20:27 | Peak Integrated by Software incorrectly |
| J6432-06/ A41Y5 | PR035002.D | AR-1260-1 #2 | SOMINA | 12/26/2018 8:17:59 AM | Sohil | 12/26/2018 8:20:27 | Peak Integrated by Software incorrectly |
| J6432-06/ A41Y5 | PR035002.D | AR-1260-2 #2 | SOMINA | 12/26/2018 8:17:59 AM | Sohil | 12/26/2018 8:20:27 | Peak Integrated by Software incorrectly |
| J6432-07/ A41Y6 | PR035003.D | Tetrachloro-m-xylene | SOMINA | 12/26/2018 8:18:01 AM | Sohil | 12/26/2018 8:20:29 | Peak Integrated by Software incorrectly |
| J6432-07/ A41Y6 | PR035003.D | Tetrachloro-m-xylene #2 | SOMINA | 12/26/2018 8:18:01 AM | Sohil | 12/26/2018 8:20:29 | Peak Integrated by Software incorrectly |
| J6432-11/ A41Z0 | PR035007.D | AR-1260-1 | SOMINA | 12/26/2018 8:18:44 AM | Sohil | 12/26/2018 8:20:31 | Peak Integrated by Software incorrectly |

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | PR122218 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|--------------------------|------------|-------------------------|-----------|-----------------------|---------------|--------------------|---|
| J6432-11/ A41Z0 | PR035007.D | AR-1260-2 #2 | SOMINA | 12/26/2018 8:18:44 AM | Sohil | 12/26/2018 8:20:31 | Peak Integrated by Software incorrectly |
| J6432-15/ A41Z6 | PR035011.D | AR-1260-4 | SOMINA | 12/26/2018 8:18:41 AM | Sohil | 12/26/2018 8:20:34 | Peak Integrated by Software incorrectly |
| J6432-16/ A41Z7 | PR035012.D | AR-1248-1 #2 | SOMINA | 12/26/2018 8:18:39 AM | Sohil | 12/26/2018 8:20:36 | Peak Integrated by Software incorrectly |
| J6432-17/ A41Z8 | PR035013.D | AR-1260-1 #2 | SOMINA | 12/26/2018 8:19:13 AM | Sohil | 12/26/2018 8:20:38 | Peak Integrated by Software incorrectly |
| J6432-17/ A41Z8 | PR035013.D | AR-1260-2 #2 | SOMINA | 12/26/2018 8:19:13 AM | Sohil | 12/26/2018 8:20:38 | Peak Integrated by Software incorrectly |
| J6432-17/ A41Z8 | PR035013.D | AR-1260-4 | SOMINA | 12/26/2018 8:19:13 AM | Sohil | 12/26/2018 8:20:38 | Peak Integrated by Software incorrectly |
| J6432-19/ A4200 | PR035015.D | Tetrachloro-m-xylene | SOMINA | 12/26/2018 8:19:14 AM | Sohil | 12/26/2018 8:20:40 | Peak Integrated by Software incorrectly |
| J6432-19/ A4200 | PR035015.D | Tetrachloro-m-xylene #2 | SOMINA | 12/26/2018 8:19:14 AM | Sohil | 12/26/2018 8:20:40 | Peak Integrated by Software incorrectly |
| AR1660CCC400 / AR1660331 | PR035017.D | AR-1260-3 | SOMINA | 12/26/2018 8:19:15 AM | Sohil | 12/26/2018 8:20:42 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254331 | PR035020.D | AR-1254-1 | SOMINA | 12/26/2018 8:19:16 AM | Sohil | 12/26/2018 8:20:44 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254331 | PR035020.D | AR-1254-3 | SOMINA | 12/26/2018 8:19:16 AM | Sohil | 12/26/2018 8:20:44 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254331 | PR035020.D | AR-1254-4 | SOMINA | 12/26/2018 8:19:16 AM | Sohil | 12/26/2018 8:20:44 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254331 | PR035020.D | AR-1254-4 #2 | SOMINA | 12/26/2018 8:19:16 AM | Sohil | 12/26/2018 8:20:44 | Peak Integrated by Software incorrectly |



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

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | PR122218 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|

Manual Integration Report

| | | | |
|-----------|----------|------------|-------|
| Sequence: | pr122818 | Instrument | ECD_r |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|--------------------------|---------------|------------------------|---|
| AR1248CCC400 / AR1248334 | PR035052.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:02:29 AM | Sohil | 12/29/2018 12:17:28 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254334 | PR035053.D | AR-1254-1 | somina | 12/29/2018 8:02:32 AM | Sohil | 12/29/2018 12:17:28 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254334 | PR035053.D | AR-1254-2 #2 | somina | 12/29/2018 8:02:32 AM | Sohil | 12/29/2018 12:17:28 | Peak Integrated by Software incorrectly |
| J6432-13/ A41Z2 | PR035082.D | AR-1254-1 #2 | somina | 12/29/2018 8:03:18 AM | Sohil | 12/29/2018 12:17:45 | Peak Integrated by Software incorrectly |
| J6432-13/ A41Z2 | PR035082.D | AR-1254-2 #2 | somina | 12/29/2018 8:03:18 AM | Sohil | 12/29/2018 12:17:45 | Peak Integrated by Software incorrectly |
| J6432-13/ A41Z2 | PR035082.D | AR-1254-3 #2 | somina | 12/29/2018 8:03:18 AM | Sohil | 12/29/2018 12:17:45 | Peak Integrated by Software incorrectly |
| J6432-13/ A41Z2 | PR035082.D | AR-1254-4 | somina | 12/29/2018 8:03:18 AM | Sohil | 12/29/2018 12:17:45 | Peak Integrated by Software incorrectly |
| J6432-13/ A41Z2 | PR035082.D | AR-1260-2 #2 | somina | 12/29/2018 8:03:18 AM | Sohil | 12/29/2018 12:17:45 | Peak Integrated by Software incorrectly |
| J6432-13/ A41Z2 | PR035082.D | AR-1260-4 | somina | 12/29/2018 8:03:18 AM | Sohil | 12/29/2018 12:17:45 | Peak Integrated by Software incorrectly |
| J6432-13/ A41Z2 | PR035082.D | AR-1260-5 | somina | 12/29/2018 8:03:18 AM | Sohil | 12/29/2018 12:17:45 | Peak Integrated by Software incorrectly |
| J6432-13/ A41Z2 | PR035082.D | AR-1260-5 #2 | somina | 12/29/2018 8:03:18 AM | Sohil | 12/29/2018 12:17:45 | Peak Integrated by Software incorrectly |
| J6432-16DL/ A41Z7DL | PR035086.D | AR-1248-1 #2 | somina | 12/29/2018 8:07:00 AM | Sohil | 12/29/2018 12:17:47 | Peak Integrated by Software incorrectly |
| J6432-19DL/ A4200DL | PR035087.D | AR-1260-4 | somina | 12/29/2018 8:07:01 AM | Sohil | 12/29/2018 12:17:48 | Peak Integrated by Software incorrectly |

Manual Integration Report

Sequence:

pr122818

Instrument

ECD_r

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------------------------|------------|-------------------------|-----------|--------------------------|---------------|------------------------|---|
| J6432-01DL/ A41T3DL | PR035088.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:07:02 AM | Sohil | 12/29/2018 12:17:49 | Peak Integrated by Software incorrectly |
| J6432-07DL2/ A41Y6DL2 | PR035091.D | Decachlorobiphenyl #2 | somina | 12/29/2018 8:07:05 AM | Sohil | 12/29/2018 12:18:17 | Peak Integrated by Software incorrectly |
| J6432-07DL2/ A41Y6DL2 | PR035091.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:07:05 AM | Sohil | 12/29/2018 12:18:17 | Peak Integrated by Software incorrectly |
| J6432-07DL2/ A41Y6DL2 | PR035091.D | Tetrachloro-m-xylene #2 | somina | 12/29/2018 8:07:05 AM | Sohil | 12/29/2018 12:18:17 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254336 | PR035097.D | AR-1254-1 | somina | 12/29/2018 8:07:41 AM | Sohil | 12/29/2018 12:18:19 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254336 | PR035097.D | Tetrachloro-m-xylene | somina | 12/29/2018 8:07:41 AM | Sohil | 12/29/2018 12:18:19 | Peak Integrated by Software incorrectly |
| AR1248CCC400 / AR1248337 | PR035126.D | AR-1248-4 #2 | somina | 12/29/2018 8:08:46 AM | Sohil | 12/29/2018 12:19:15 | Peak Integrated by Software incorrectly |
| AR1254CCC400 / AR1254337 | PR035127.D | AR-1254-2 #2 | somina | 12/29/2018 8:08:47 AM | Sohil | 12/29/2018 12:19:17 | Peak Integrated by Software incorrectly |

FORM 2C-OR
SURROGATE RECOVERY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Matrix: Soil
 GC Column (1) : ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

| EPA SAMPLE | SUR (TCX) 1-1 %R | SUR (TCX) 1-2 %R | SUR (DCB) 2-1 %R | SUR (DCB) 2-2 %R | OTHER (1) | OTHER (2) | TOT OUT |
|------------|------------------|------------------|------------------|------------------|-----------|-----------|---------|
| A41T3 | 61 | 64 | 105 | 111 | | | 0 |
| A41T3DL | 67 | 85 | 95 | 93 | | | 0 |
| A41T3DL2 | 91 | 121 | 535 D | 115 | | | 1 |
| A41X0 | 56 | 67 | 60 | 58 | | | 0 |
| A41X0DL | 62 | 80 | 62 | 47 | | | 0 |
| A41X0MS | 67 | 76 | 70 | 67 | | | 0 |
| A41X0MSD | 74 | 84 | 70 | 65 | | | 0 |
| A41Y4 | 97 | 104 | 87 | 82 | | | 0 |
| A41Y5 | 86 | 96 | 58 | 57 | | | 0 |
| A41Y6 | 54 | 70 | 57 | 72 | | | 0 |
| A41Y6DL | 50 | 84 | 56 | 64 | | | 0 |
| A41Y6DL2 | 61 | 83 | 457 D | 69 | | | 1 |
| A41Y7 | 105 | 111 | 115 | 73 | | | 0 |
| A41Y7DL | 106 | 126 | 85 | 71 | | | 0 |
| A41Y7DL2 | 0 D | 0 D | 0 D | 0 D | | | 4 |
| A41Y8 | 108 | 123 | 75 | 74 | | | 0 |
| A41Y8DL | 94 | 112 | 83 | 70 | | | 0 |
| A41Y9 | 103 | 115 | 61 | 56 | | | 0 |
| A41Z0 | 82 | 94 | 52 | 51 | | | 0 |
| A41Z1 | 89 | 96 | 52 | 51 | | | 0 |
| A41Z2 | 78 | 92 | 62 | 55 | | | 0 |
| A41Z5 | 134 | 147 | 110 | 108 | | | 0 |
| A41Z6 | 94 | 104 | 57 | 56 | | | 0 |
| A41Z7 | 106 | 108 | 80 | 79 | | | 0 |
| A41Z7DL | 108 | 97 | 81 | 75 | | | 0 |
| A41Z8 | 50 | 54 | 42 | 33 | | | 0 |
| A41Z9 | 104 | 114 | 72 | 72 | | | 0 |

QC LIMITS

TCX = Tetrachloro-m-xylene

(30-150)

DCB = Decachlorobiphenyl

(30-150)

FORM 2C-OR
SURROGATE RECOVERY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Matrix: Soil
 GC Column (1) : ZB-MR1 ID: 0.32 (mm) GC Column (2) : ZB-MR2 ID: 0.32 (mm)

| EPA SAMPLE | SUR (TCX) 1-1 %R | SUR (TCX) 1-2 %R | SUR (DCB) 2-1 %R | SUR (DCB) 2-2 %R | OTHER (1) | OTHER (2) | TOT OUT |
|---------------|---------------------|---------------------|---------------------|---------------------|--------------|--------------|------------|
| A4200 | 57 | 74 | 65 | 50 | | | 0 |
| A4200DL | 45 | 80 | 73 | 51 | | | 0 |
| ABLK57 | 99 | 103 | 111 | 117 | | | 0 |
| ALCS57 | 119 | 124 | 111 | 117 | | | 0 |

QC LIMITS

TCX = Tetrachloro-m-xylene
 DCB = Decachlorobiphenyl

(30-150)
 (30-150)

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No .: _____ SDG No. : A41T3
 Analytical Method : ARO Level : _____
 Matrix Soil
 EPA Sample No. (Matrix Spike/Matrix Spike Duplicate): A41X0
 Instrument ID : ECD_R GC Column ZB-MR1 ID : 0.32 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/kg

| ANALYTE | SPIKE | SAMPLE | MS | MS %R # | QC |
|---------|-------|---------------|---------------|---------|-----------|
| | ADDED | CONCENTRATION | CONCENTRATION | | Limits %R |
| AR1016 | 180 | 0.0 | 250 | 142 * | 29 - 135 |
| AR1260 | 180 | 1700 | 2200 | 273 * | 29 - 135 |

| ANALYTE | SPIKE AADDDED | MSD CONCENTRATION | MSD %R # | RPD | QC Limits | |
|---------|------------------|----------------------|----------|-----|-----------|----------|
| | | | | | RPD | %R |
| AR1016 | 180 | 280 | 156 * | 9 | 15 | 29 - 135 |
| AR1260 | 180 | 2300 | 321 * | 16 | 20 | 29 - 135 |

FORM 3A-OR
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No .: _____ SDG No. : A41T3
 Analytical Method : ARO Level : _____
 Matrix Soil
 EPA Sample No. (Matrix Spike/Matrix Spike Duplicate): A41X0
 Instrument ID : ECD_R GC Column ZB-MR2 ID : 0.32 (mm)
 Concentration Units (ug/L,mg/L ug/kg): ug/kg

| ANALYTE | SPIKE | SAMPLE | MS | MS %R # | | QC |
|---------|-------|---------------|---------------|---------|---|-----------|
| | ADDED | CONCENTRATION | CONCENTRATION | | | Limits %R |
| AR1016 | 180 | 0.0 | 270 | 154 | * | 29 - 135 |
| AR1260 | 180 | 1600 | 2100 | 271 | * | 29 - 135 |

| ANALYTE | SPIKE AADDDED | MSD CONCENTRATION | MSD %R # | | RPD | QC Limits | |
|---------|------------------|----------------------|----------|---|-----|-----------|----------|
| | | | | | | RPD | %R |
| AR1016 | 180 | 300 | 169 | * | 9 | 15 | 29 - 135 |
| AR1260 | 180 | 2200 | 317 | * | 16 | 20 | 29 - 135 |

FORM 3B-OR
 LABORATORY CONTROL
 SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS57

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code : CHM Case No. : 48033 MA No. : _____ SDG No. : A41T3
 Analytical Method: ARO
 Matrix : Soil Lab Sample ID : PB115757BS
 LCS Lot No. : PP14582 Date Extracted : 12/17/2018
 Concentration Units (ug/L,mg/L,ug/kg) : ug/kg

Instrument ID (1) : ECD_R GC Column (1) : ZB-MR1 ID : 0.32 (mm)
 Date Analyzed (1) : 12/21/2018

| ANALYTE | AMOUNT ADDED | AMOUNT RECOVERED | % R | QC LIMITS |
|---------|--------------|------------------|-----|-----------|
| AR1016 | 33.33 | 48 | 143 | 50-150 |
| AR1260 | 33.33 | 49 | 146 | 50-150 |

Instrument ID (2) : ECD_R GC Column (2) : ZB-MR2 ID : 0.32 (mm)
 Date Analyzed (2) : 12/21/2018

| ANALYTE | AMOUNT ADDED | AMOUNT RECOVERED | % R | QC LIMITS |
|---------|--------------|------------------|-----|-----------|
| AR1016 | 33.33 | 44 | 132 | 50-150 |
| AR1260 | 33.33 | 49 | 146 | 50-150 |

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK57

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115757BL
 Instrument ID: ECD_R Lab File ID : PR034957.D
 Extraction Type: SOXH Date Extracted : 12/17/2018
 GC Column (1) : ZB-MR1 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 GC Column (2) : ZB-MR2 ID : 0.32 (mm) Time Analyzed : 10:12
 Heated Purge : (Y/N) _____ Cleanup(Y/N) : Y Cleanup Types : Acid

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED |
|----------------|---------------|-------------|----------------------|
| ALCS57 | PB115757BS | PR034958.D | 12/21/2018 10:26 |
| A41T3 | J6432-01 | PR034959.D | 12/21/2018 10:41 |
| A41X0 | J6432-02 | PR034970.D | 12/21/2018 13:27 |
| A41X0MS | J6432-03MS | PR034971.D | 12/21/2018 13:41 |
| A41X0MSD | J6432-04MSD | PR034972.D | 12/21/2018 13:56 |
| A41Y4 | J6432-05 | PR034973.D | 12/21/2018 14:10 |
| A41Y5 | J6432-06 | PR035002.D | 12/21/2018 22:40 |
| A41Y6 | J6432-07 | PR035003.D | 12/21/2018 22:54 |
| A41Y7 | J6432-08 | PR035004.D | 12/21/2018 23:09 |
| A41Y8 | J6432-09 | PR035005.D | 12/21/2018 23:23 |
| A41Y9 | J6432-10 | PR035006.D | 12/21/2018 23:37 |
| A41Z0 | J6432-11 | PR035007.D | 12/21/2018 23:52 |
| A41Z1 | J6432-12 | PR035008.D | 12/22/2018 00:06 |
| A41Z5 | J6432-14 | PR035010.D | 12/22/2018 00:35 |
| A41Z6 | J6432-15 | PR035011.D | 12/22/2018 00:50 |
| A41Z7 | J6432-16 | PR035012.D | 12/22/2018 01:04 |
| A41Z8 | J6432-17 | PR035013.D | 12/22/2018 01:19 |
| A41Z9 | J6432-18 | PR035014.D | 12/22/2018 01:33 |
| A4200 | J6432-19 | PR035015.D | 12/22/2018 01:47 |
| A41Z2 | J6432-13 | PR035082.D | 12/28/2018 12:12 |
| A41X0DL | J6432-02DL | PR035083.D | 12/28/2018 12:27 |
| A41Y8DL | J6432-09DL | PR035085.D | 12/28/2018 12:56 |
| A41Z7DL | J6432-16DL | PR035086.D | 12/28/2018 13:10 |
| A4200DL | J6432-19DL | PR035087.D | 12/28/2018 13:24 |
| A41T3DL | J6432-01DL | PR035088.D | 12/28/2018 13:39 |
| A41T3DL2 | J6432-01DL2 | PR035089.D | 12/28/2018 13:53 |
| A41Y6DL | J6432-07DL | PR035090.D | 12/28/2018 14:08 |
| A41Y6DL2 | J6432-07DL2 | PR035091.D | 12/28/2018 14:22 |
| A41Y7DL | J6432-08DL | PR035092.D | 12/28/2018 14:37 |

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK57

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115757BL
 Instrument ID: ECD_R Lab File ID : PR034957.D
 Extraction Type: SOXH Date Extracted : 12/17/2018
 GC Column (1) : ZB-MR1 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 GC Column (2) : ZB-MR2 ID : 0.32 (mm) Time Analyzed : 14:51
 Heated Purge : (Y/N) _____ Cleanup(Y/N) : Y Cleanup Types : Acid

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE / TIME ANALYZED |
|----------------|---------------|-------------|----------------------|
| A41Y7DL2 | J6432-08DL2 | PR035093.D | 12/28/2018 14:51 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T3

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-01
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034959.D
 % Solids : 91.4 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 36 | U |
| 11104-28-2 | Aroclor-1221 | 36 | U |
| 11141-16-5 | Aroclor-1232 | 36 | U |
| 53469-21-9 | Aroclor-1242 | 36 | U |
| 12672-29-6 | Aroclor-1248 | 36 | U |
| 11097-69-1 | Aroclor-1254 | 36 | U |
| 11096-82-5 | Aroclor-1260 | 8800 | EC |
| 37324-23-5 | Aroclor-1262 | 36 | U |
| 11100-14-4 | Aroclor-1268 | 36 | U |

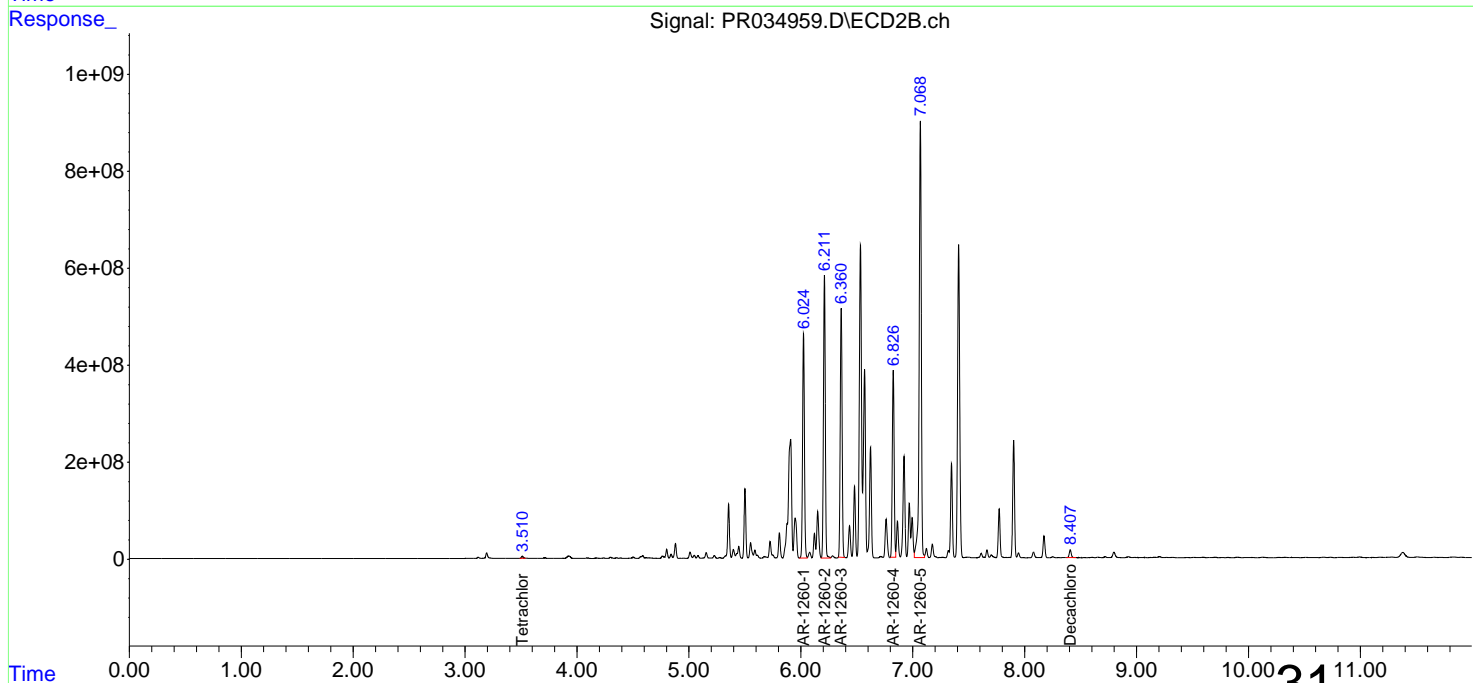
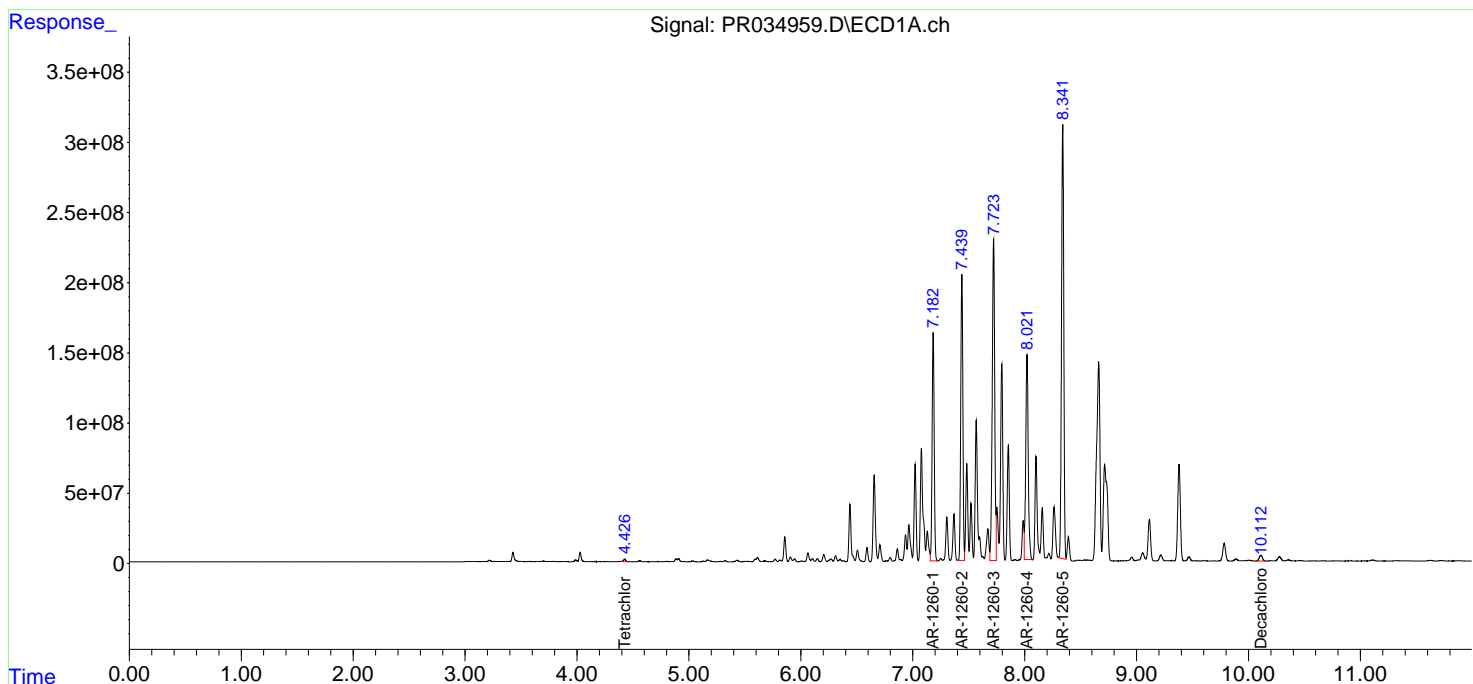
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 Data File : PR034959.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:41
 Operator : SM\SJ
 Sample : J6432-01
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T3

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:43 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034959.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:41
 Operator : SM\SJ
 Sample : J6432-01
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T3

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:43 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.510 | 23556988 | 44662606 | 12.111m | 12.812m |
| 2) SA Decachlor... | 10.112 | 8.408 | 82734845 | 195.9E6 | 42.084 | 44.546 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.024 | 2100.0E6 | 5313.3E6 | 22338.398 | 24716.324 |
| 32) L7 AR-1260-2 | 7.439 | 6.211 | 2669.2E6 | 6649.1E6 | 22990.587 | 24434.119 |
| 33) L7 AR-1260-3 | 7.723 | 6.361 | 3499.6E6 | 5980.1E6 | 25076.652 | 24090.281 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 2251.8E6 | 4432.9E6 | 26073.146 | 25924.746 |
| 35) L7 AR-1260-5 | 8.341 | 7.068 | 4381.6E6 | 11940.5E6 | 24267.761 | 24688.550 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034959.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:41
 Operator : SM\SJ
 Sample : J6432-01
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

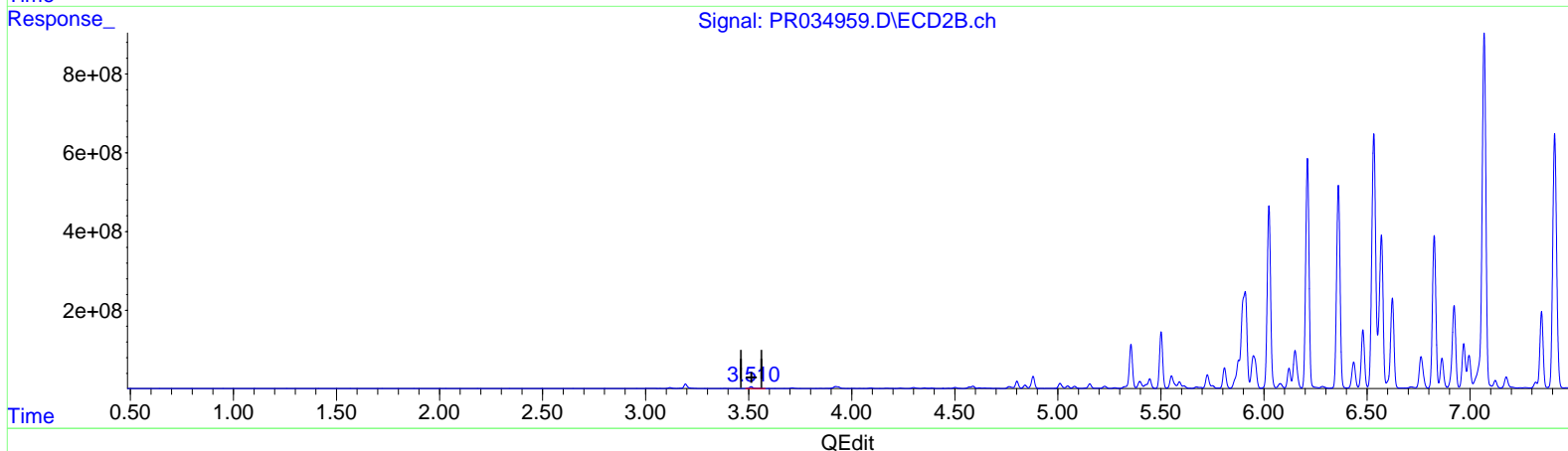
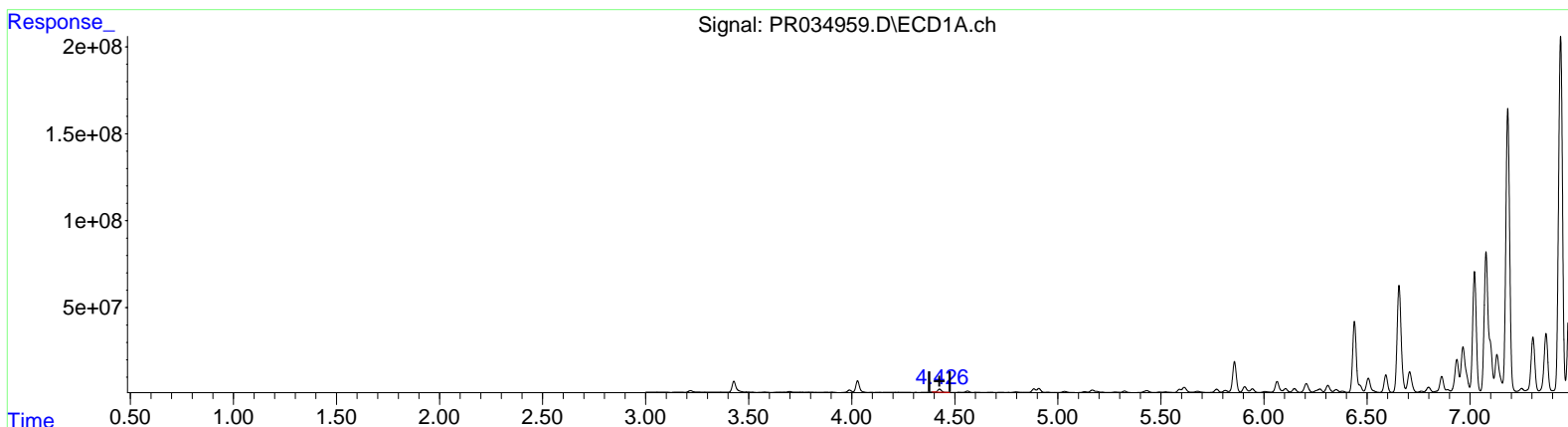
Instrument :
 ECD_R
 ClientSampled :
 A41T3

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:06:43 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.426min 10.555 ng/ml

response 20530287

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 16.013 ng/ml

response 55820058

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034959.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:41
 Operator : SM\SJ
 Sample : J6432-01
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

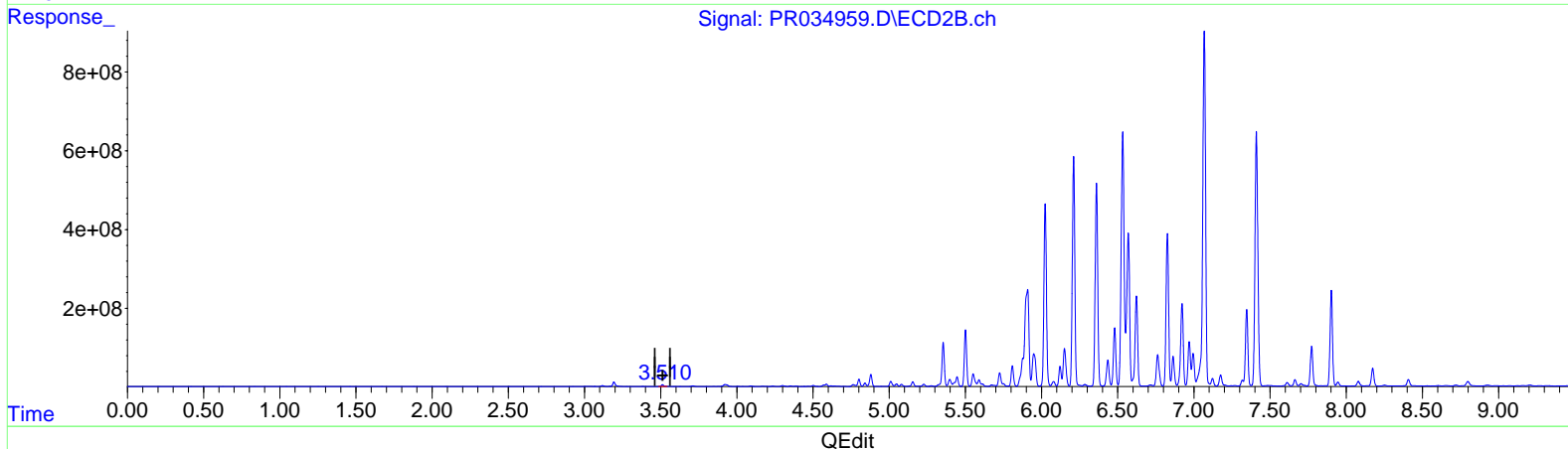
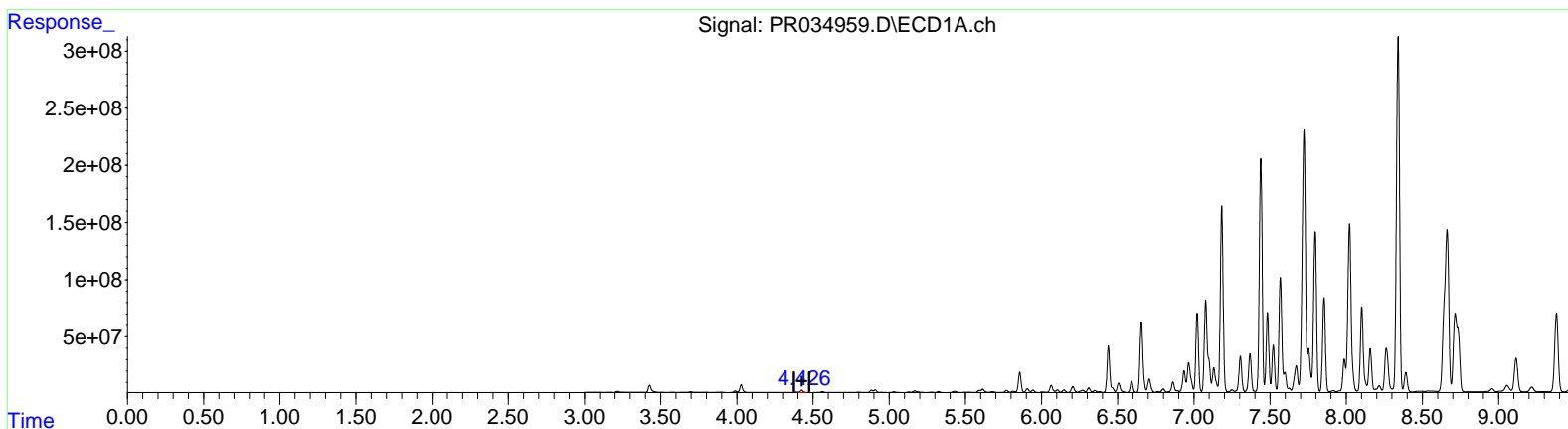
Instrument :
 ECD_R
 ClientSampled :
 A41T3

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:06:43 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.426min 12.111 ng/ml m

response 23556988

(1) Tetrachloro-m-xylene #2 (SA)

3.510min 12.812 ng/ml m

response 44662606

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034959.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:41
 Operator : SM\SJ
 Sample : J6432-01
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41T3

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:43 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.510 | 23556988 | 44662606 | 12.111m | 12.812m |
| 2) SA Decachlor... | 10.112 | 8.408 | 82734845 | 195.9E6 | 42.084 | 44.546 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.183 | 6.024 | 2100.0E6 | 5313.3E6 | 22338.398 | 24716.324 |
| 32) L7 AR-1260-2 | 7.439 | 6.211 | 2669.2E6 | 6649.1E6 | 22990.587 | 24434.119 |
| 33) L7 AR-1260-3 | 7.723 | 6.361 | 3499.6E6 | 5980.1E6 | 25076.652 | 24090.281 |
| 34) L7 AR-1260-4 | 8.022 | 6.826 | 2251.8E6 | 4432.9E6 | 26073.146 | 25924.746 |
| 35) L7 AR-1260-5 | 8.341 | 7.068 | 4381.6E6 | 11940.5E6 | 24267.761 | 24688.550 |
| ----- | | | | | | |

) SJ
 12/28/18

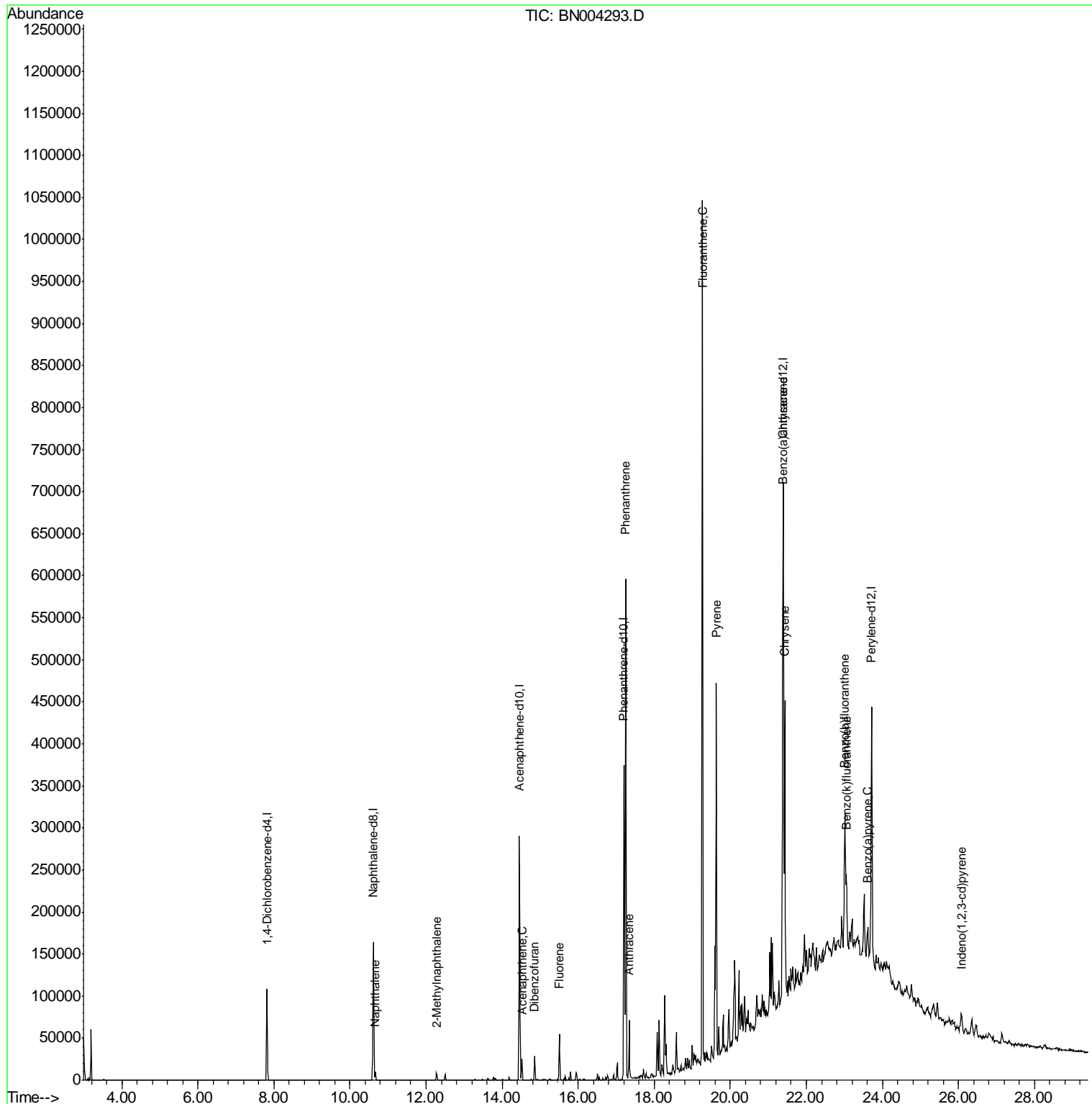
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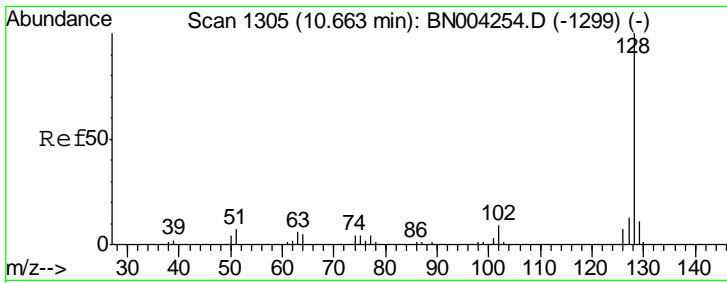
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 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
Client Sampled :
 A41T3

Manual Integrations
APPROVED
 Sohil
 1/2/2019 3:42:04 PM

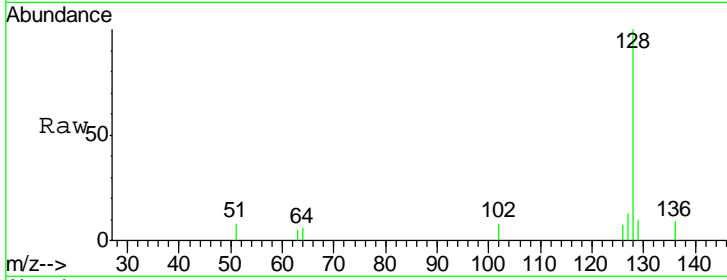
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 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#28
 Naphthalene
 Concen: 1.290 ng/ul
 RT: 10.66 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

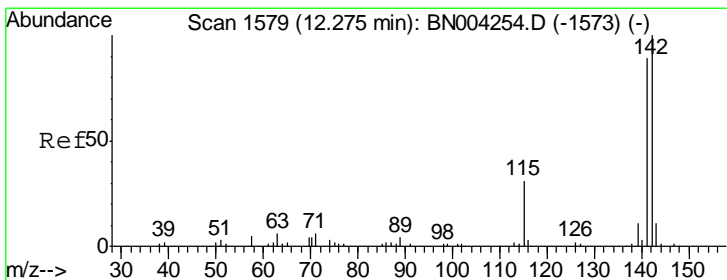
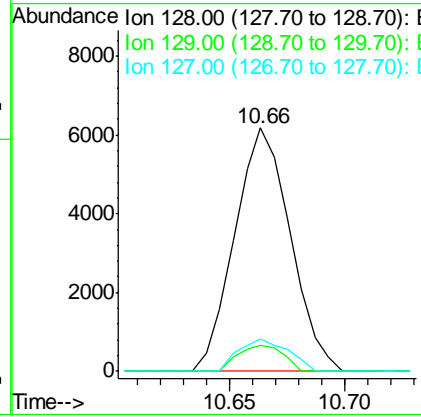
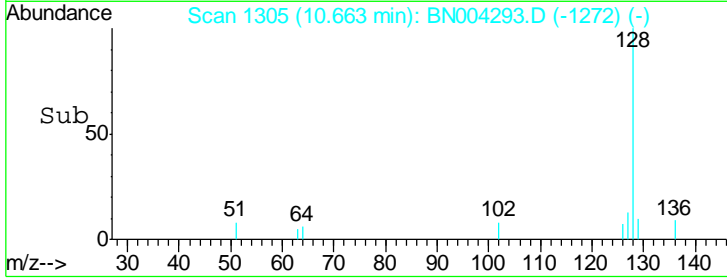
Instrument :
 BNA_N
ClientSampled :
 A41T3



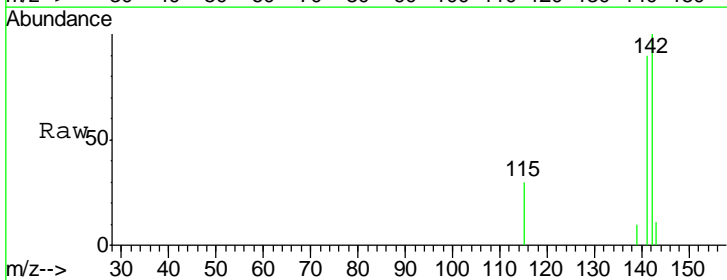
Tgt Ion: 128 Resp: 10363

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100 | | |
| 129 | 10.5 | 8.6 | 12.8 |
| 127 | 13.1 | 10.6 | 16.0 |

Manual Integrations
APPROVED
 Sohil
 1/2/2019 3:42:04 PM

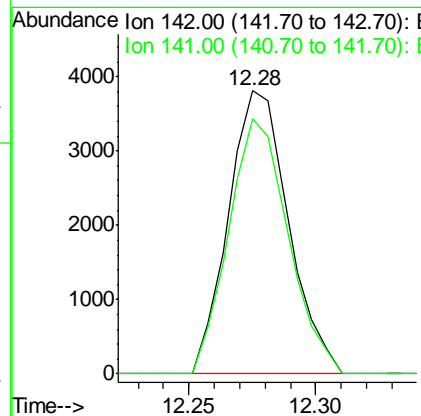
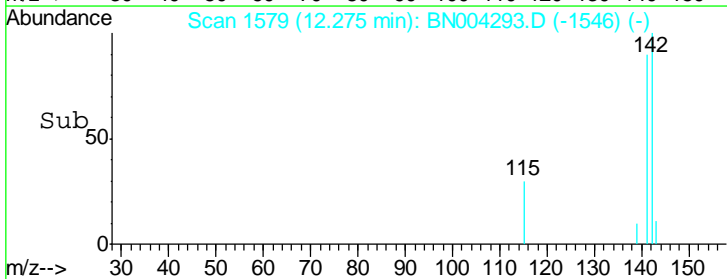


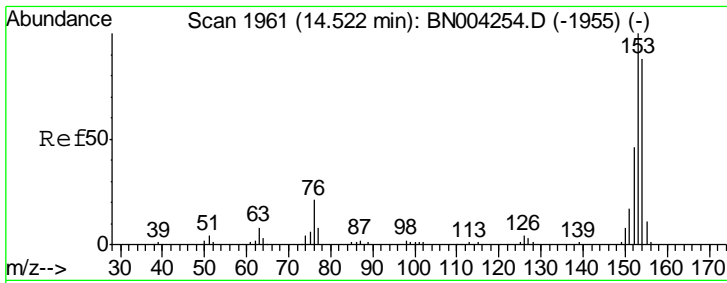
#34
 2-Methylnaphthalene
 Concen: 1.038 ng/ul
 RT: 12.28 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17



Tgt Ion: 142 Resp: 6279

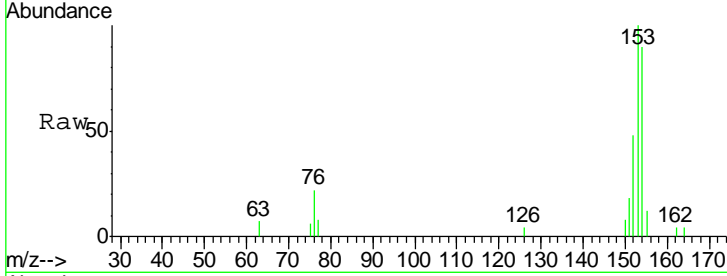
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100 | | |
| 141 | 90.3 | 70.2 | 105.2 |





#49
 Acenaphthene
 Concen: 1.657 ng/ul
 RT: 14.52 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

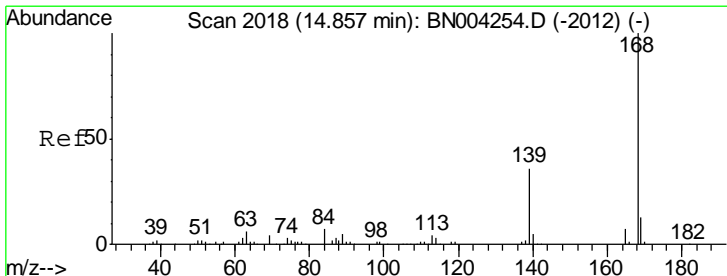
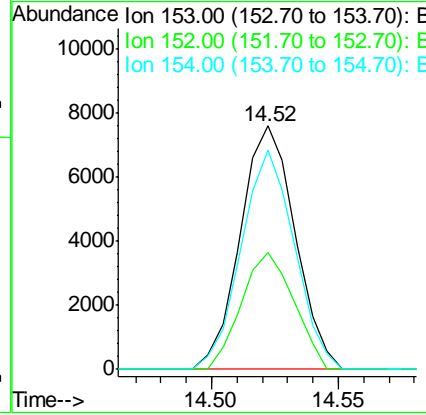
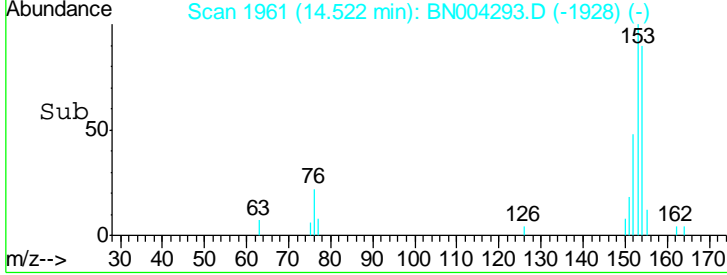
Instrument :
 BNA_N
 ClientSampled :
 A41T3



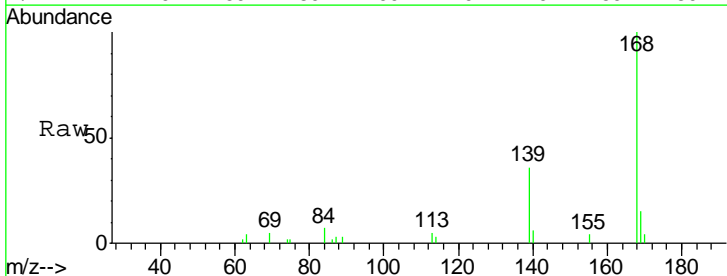
Tgt Ion: 153 Resp: 11422

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100 | | |
| 152 | 48.0 | 37.8 | 56.6 |
| 154 | 89.9 | 71.0 | 106.6 |

Manual Integrations
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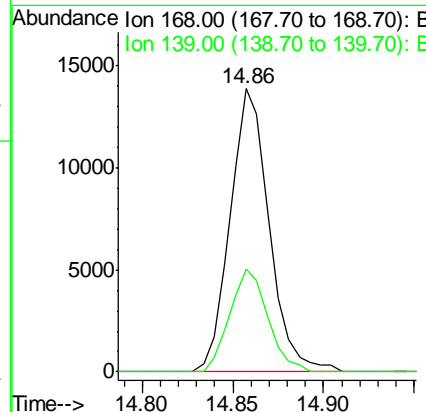
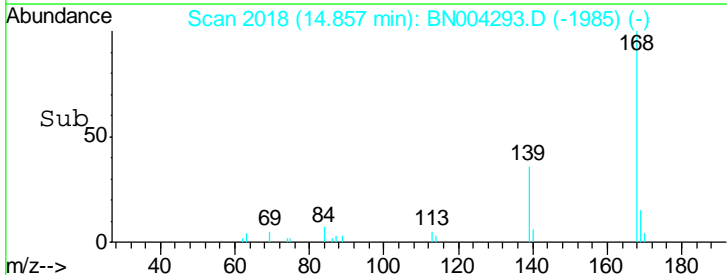


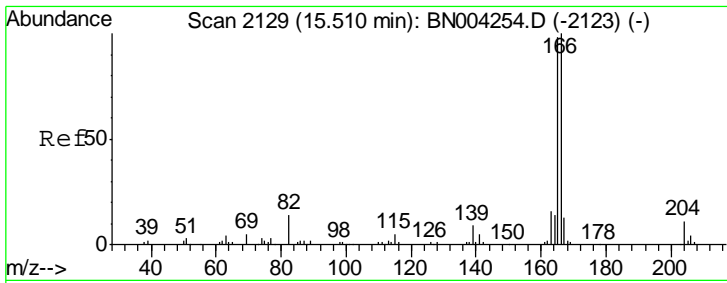
#53
 Dibenzofuran
 Concen: 2.121 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17



Tgt Ion: 168 Resp: 20757

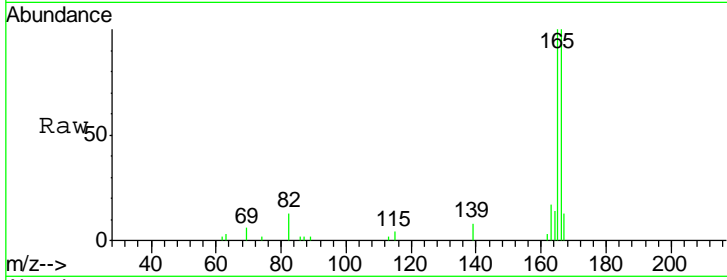
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100 | | |
| 139 | 36.5 | 28.8 | 43.2 |





#58
 Fluorene
 Concen: 3.362 ng/ul
 RT: 15.51 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

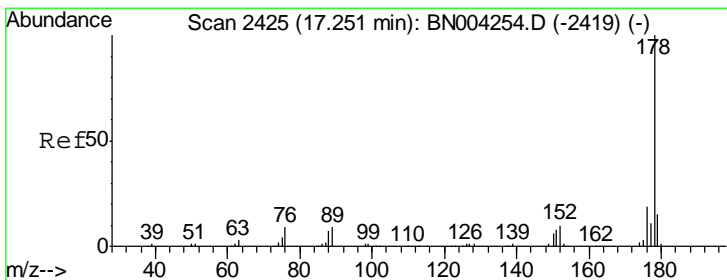
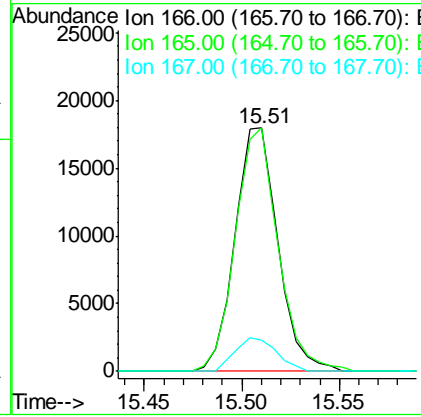
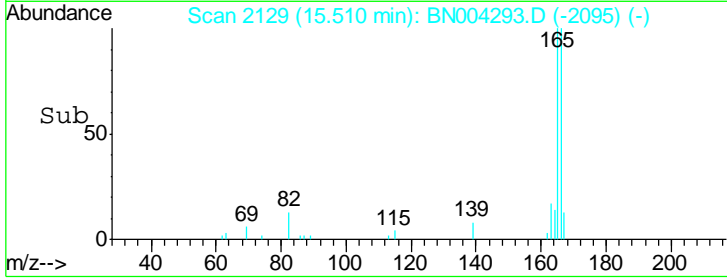
Instrument :
 BNA_N
 ClientSampled :
 A41T3



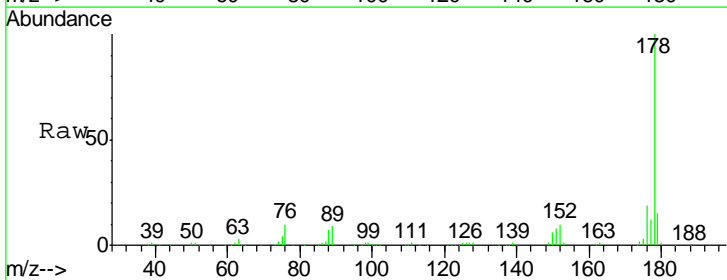
Tgt Ion: 166 Resp: 27392

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100 | | |
| 165 | 100.0 | 78.6 | 117.8 |
| 167 | 13.0 | 10.3 | 15.5 |

Manual Integrations
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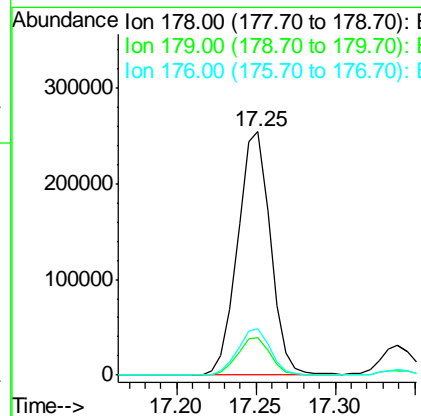
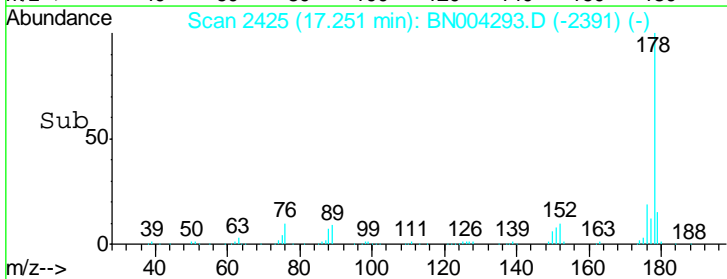


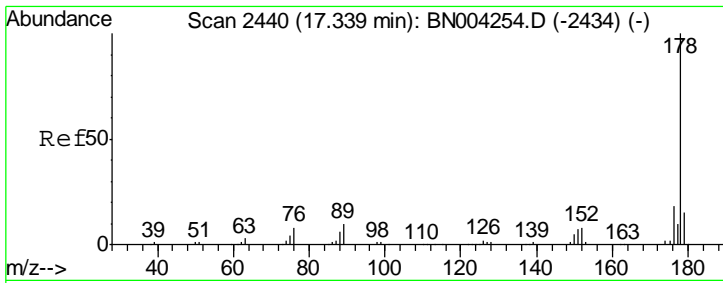
#69
 Phenanthrene
 Concen: 29.133 ng/ul
 RT: 17.25 min Scan# 2425
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17



Tgt Ion: 178 Resp: 364475

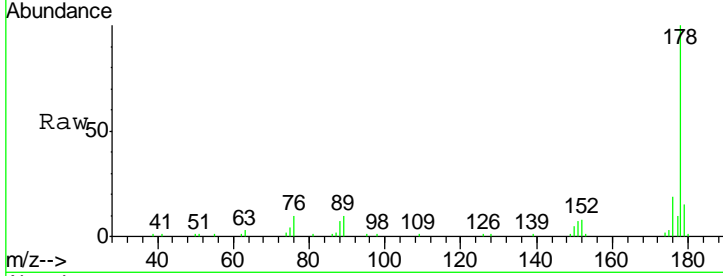
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.3 | 12.1 | 18.1 |
| 176 | 19.0 | 15.0 | 22.6 |





#71
 Anthracene
 Concen: 3.641 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

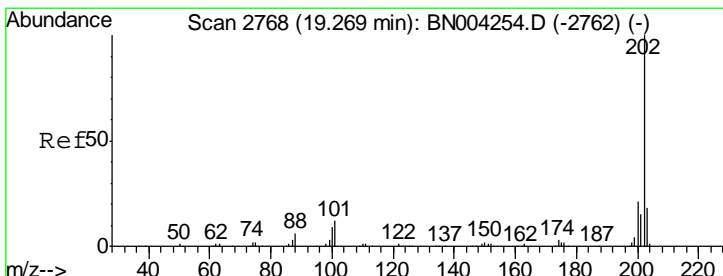
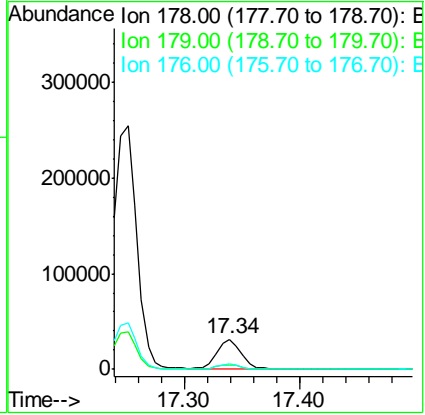
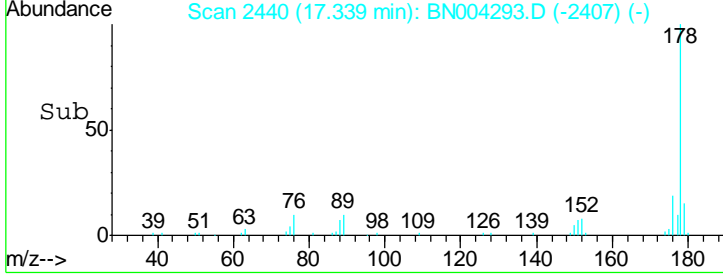
Instrument :
 BNA_N
ClientSampled :
 A41T3



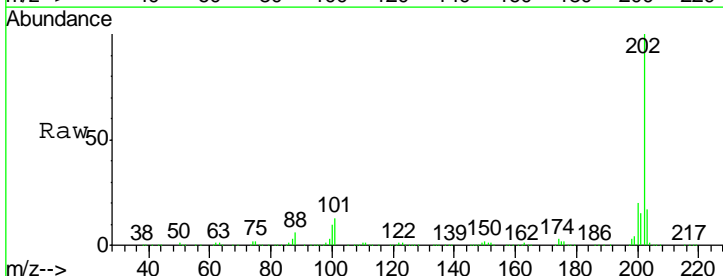
Tgt Ion: 178 Resp: 46693

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.4 | 12.1 | 18.1 |
| 176 | 18.8 | 15.2 | 22.8 |

Manual Integrations
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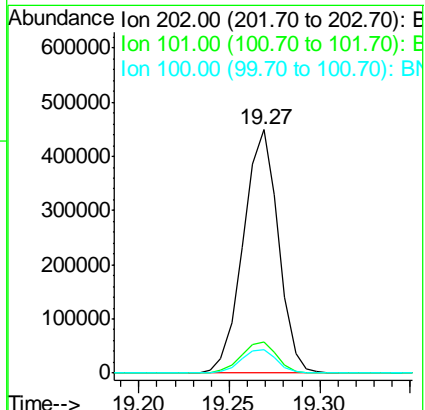
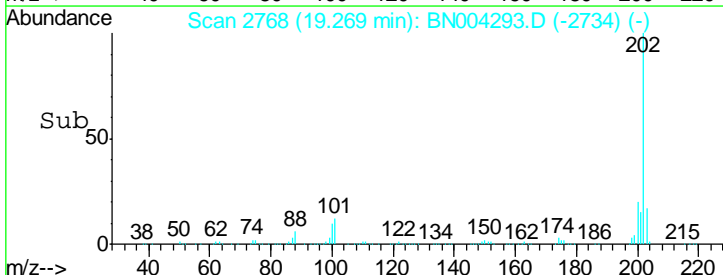


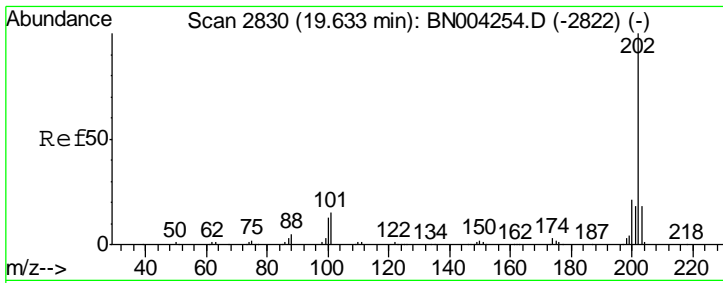
#76
 Fluoranthene
 Concen: 39.390 ng/ul
 RT: 19.27 min Scan# 2768
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17



Tgt Ion: 202 Resp: 604030

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100 | | |
| 101 | 12.6 | 10.2 | 15.2 |
| 100 | 9.6 | 7.8 | 11.8 |



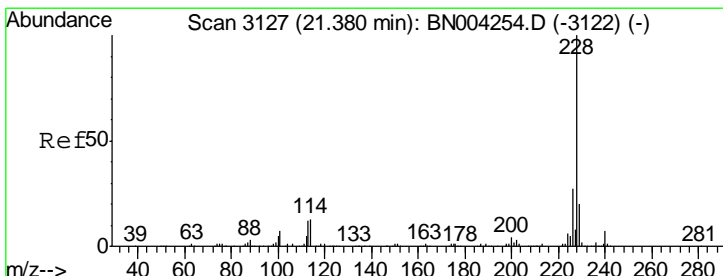
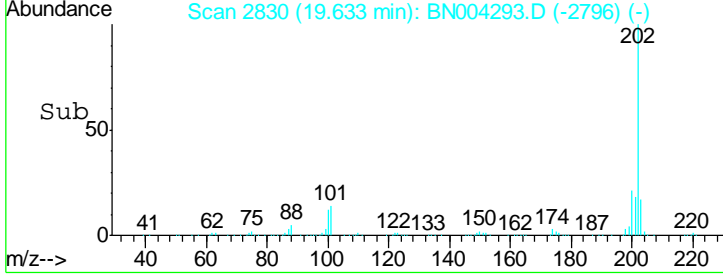
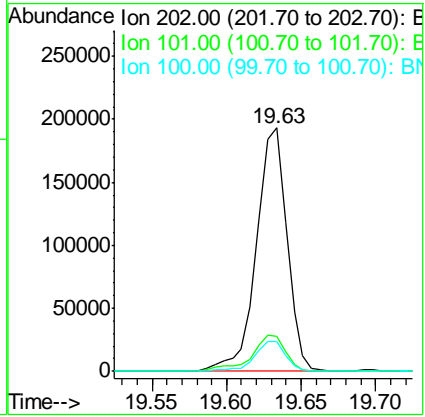
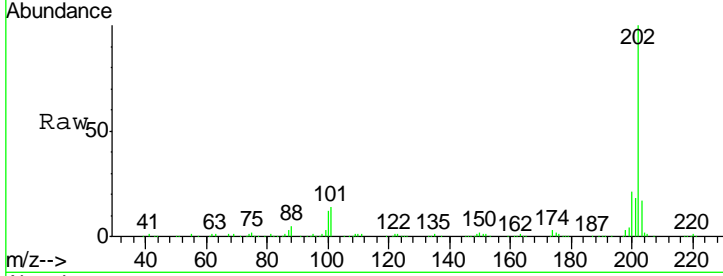


#79
 Pyrene
 Concen: 20.888 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

Instrument :
 BNA_N
 ClientSampled :
 A41T3

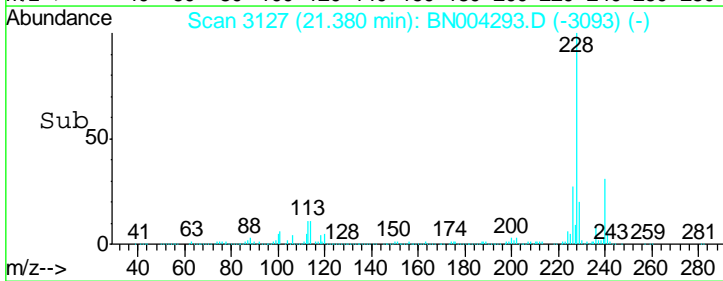
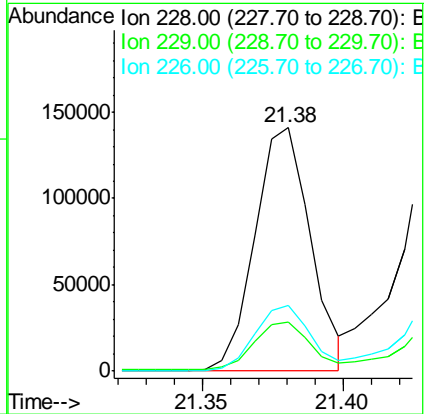
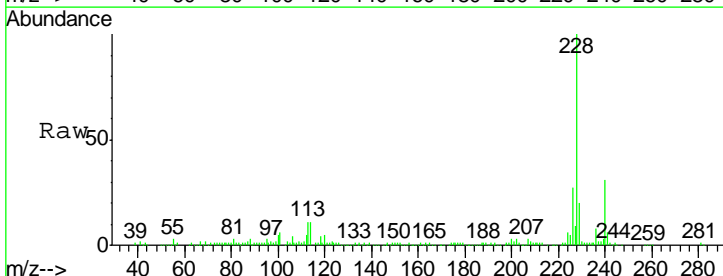
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 202 | 273305 | | |
| 202 | 100 | | |
| 101 | 14.2 | 12.2 | 18.2 |
| 100 | 12.1 | 9.9 | 14.9 |

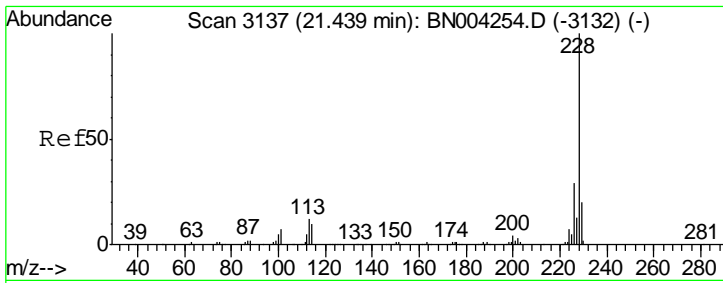
Manual Integrations
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#82
 Benzo(a)anthracene
 Concen: 13.108 ng/ul
 RT: 21.38 min Scan# 3127
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 191439 | | |
| 228 | 100 | | |
| 229 | 20.3 | 15.9 | 23.9 |
| 226 | 27.2 | 21.4 | 32.2 |



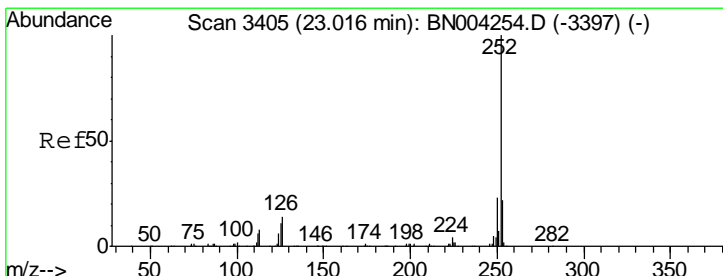
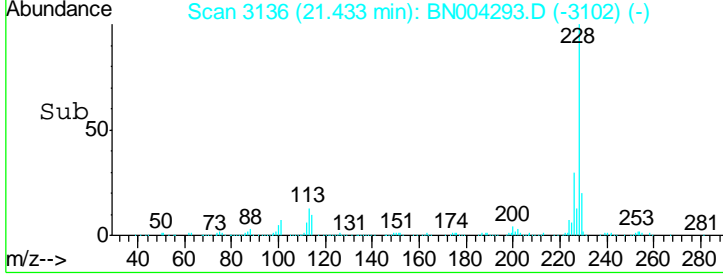
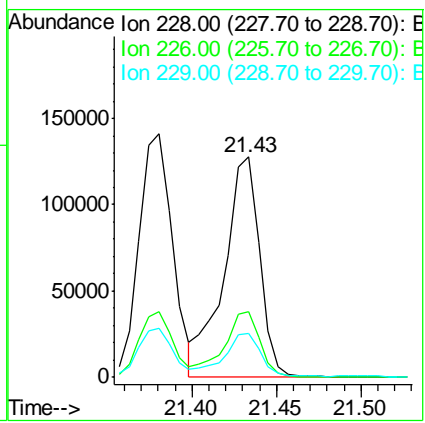
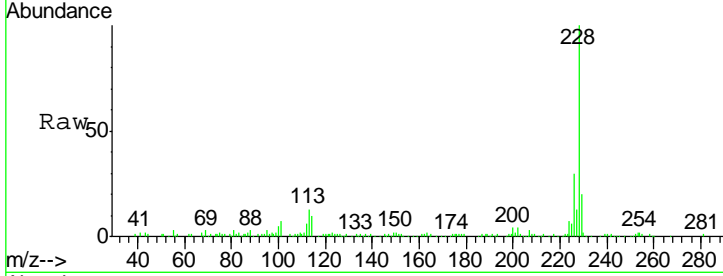


#84
 Chrysene
 Concen: 13.675 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

Instrument :
 BNA_N
 ClientSampled :
 A41T3

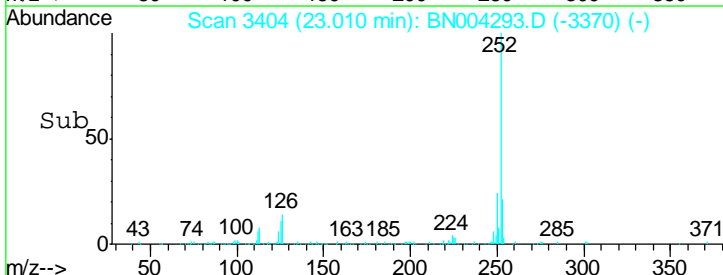
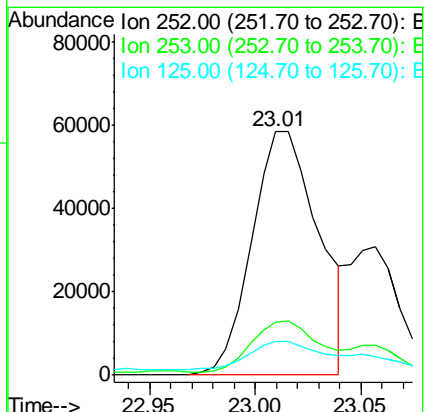
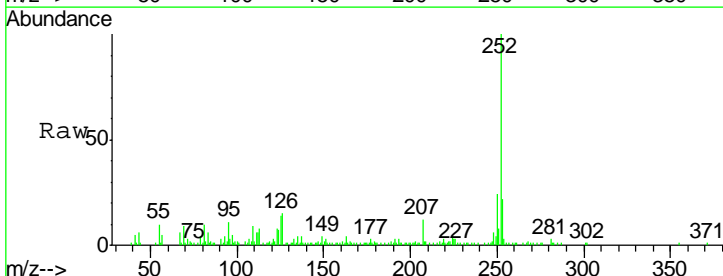
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 187065 | | |
| 226 | 30.0 | 23.8 | 35.8 |
| 229 | 20.1 | 15.8 | 23.6 |

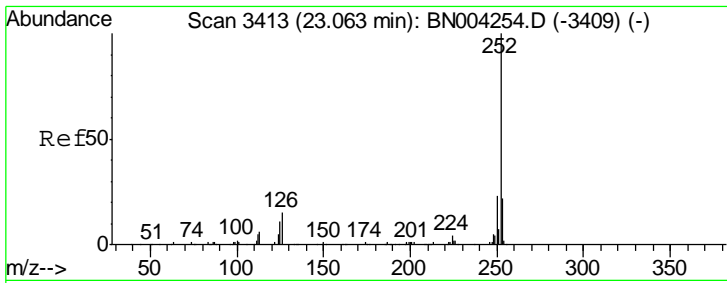
Manual Integrations
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#87
 Benzo(b)fluoranthene
 Concen: 9.956 ng/ul
 RT: 23.01 min Scan# 3404
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

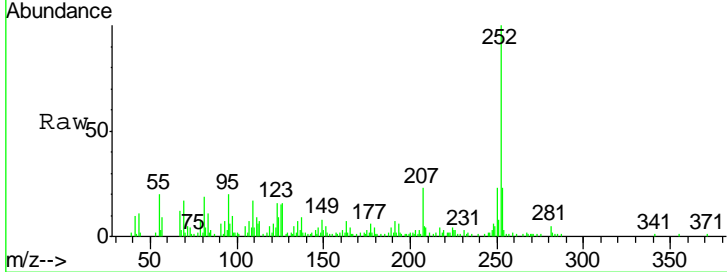
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 252 | 128538 | | |
| 253 | 21.9 | 17.3 | 25.9 |
| 125 | 13.7 | 8.2 | 12.4# |





#88
 Benzo(k)fluoranthene
 Concen: 4.168 ng/ul m
 RT: 23.06 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

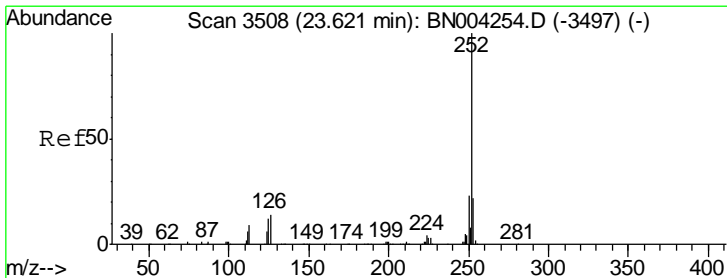
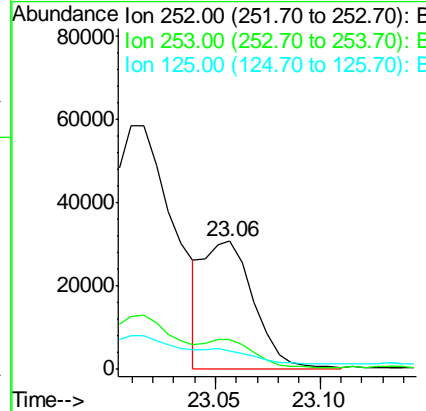
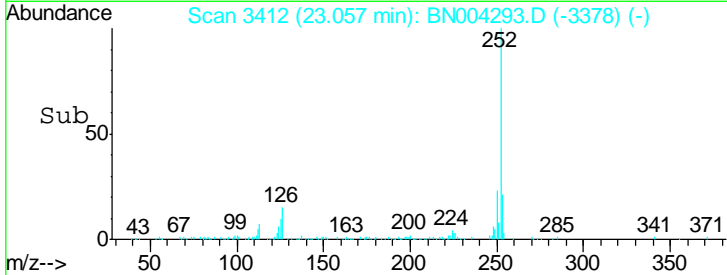
Instrument :
 BNA_N
 ClientSampled :
 A41T3



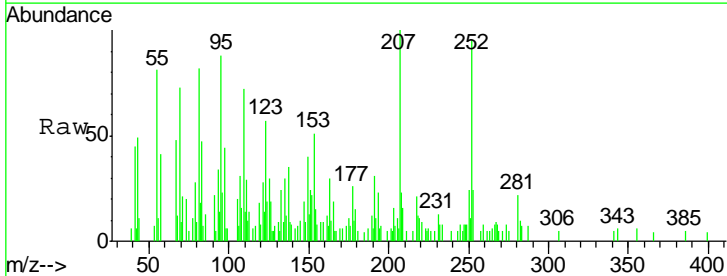
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 22.9 | 17.1 | 25.7 |
| 125 | 14.6 | 7.9 | 11.9# |

Manual Integrations
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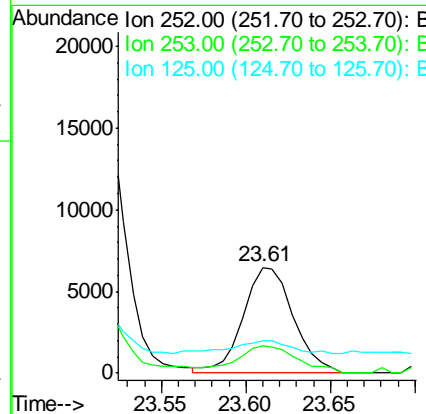
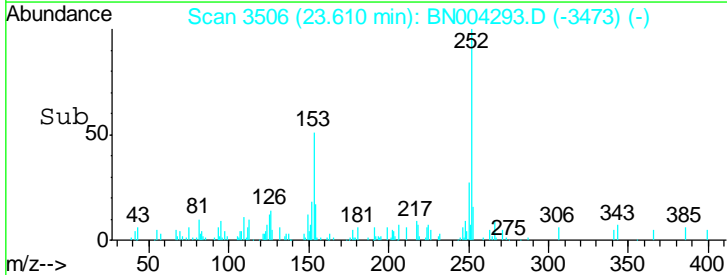
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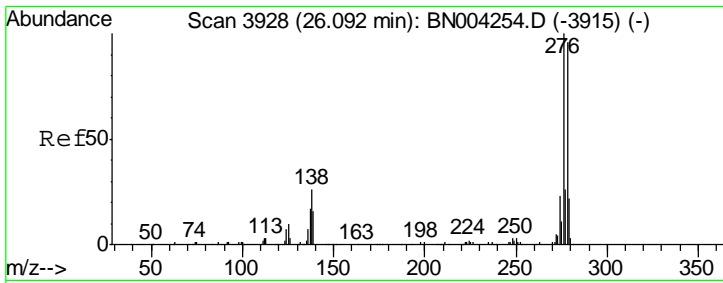


#90
 Benzo(a)pyrene
 Concen: 1.078 ng/ul
 RT: 23.61 min Scan# 3506
 Delta R.T. -0.01 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17



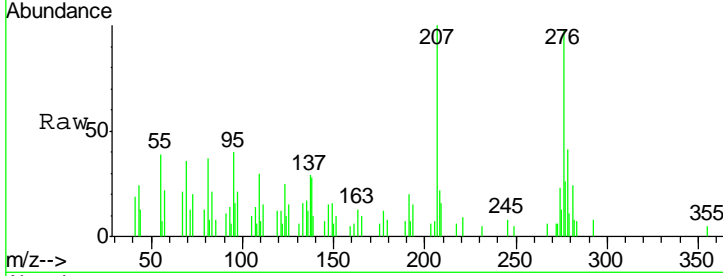
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 252 | 100 | | |
| 253 | 25.6 | 17.5 | 26.3 |
| 125 | 30.9 | 9.1 | 13.7# |





#91
 Indeno(1,2,3-cd)pyrene
 Concen: 1.098 ng/ul
 RT: 26.08 min Scan# 3926
 Delta R.T. 0.00 min
 Lab File: BN004293.D
 Acq: 29 Dec 2018 10:17

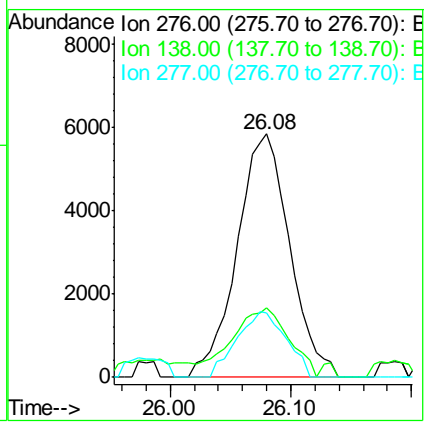
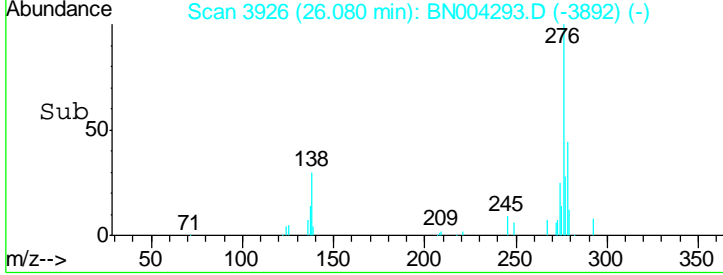
Instrument :
 BNA_N
ClientSampled :
 A41T3



Tgt Ion: 276 Resp: 17789

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100 | | |
| 138 | 28.5 | 20.4 | 30.6 |
| 277 | 26.5 | 20.6 | 30.8 |

Manual Integrations
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Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41T3

Manual Integrations
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Quant Time: Dec 30 23:28:58 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 31287 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 149717 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 95960 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 216527 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.39 | 240 | 234210 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 215521 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0d | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 28) Naphthalene | 10.66 | 128 | 10363 | 1.290 | ng/ul | 99 |
| 34) 2-Methylnaphthalene | 12.28 | 142 | 6279 | 1.038 | ng/ul | 97 |
| 49) Acenaphthene | 14.52 | 153 | 11422 | 1.657 | ng/ul | 99 |
| 53) Dibenzofuran | 14.86 | 168 | 20757 | 2.121 | ng/ul | 99 |
| 58) Fluorene | 15.51 | 166 | 27392 | 3.362 | ng/ul | 98 |
| 69) Phenanthrene | 17.25 | 178 | 364475 | 29.133 | ng/ul | 100 |
| 71) Anthracene | 17.34 | 178 | 46693 | 3.641 | ng/ul | 99 |
| 76) Fluoranthene | 19.27 | 202 | 604030 | 39.390 | ng/ul | 100 |
| 79) Pyrene | 19.63 | 202 | 273305 | 20.888 | ng/ul | 98 |
| 82) Benzo(a)anthracene | 21.38 | 228 | 191439 | 13.108 | ng/ul | 99 |
| 84) Chrysene | 21.43 | 228 | 187065 | 13.675 | ng/ul | 99 |
| 87) Benzo(b)fluoranthene | 23.01 | 252 | 128538 | 9.956 | ng/ul# | 97 |
| 88) Benzo(k)fluoranthene | 23.06 | 252 | 50390m | 4.168 | ng/ul | |
| 90) Benzo(a)pyrene | 23.61 | 252 | 13402 | 1.078 | ng/ul# | 77 |
| 91) Indeno(1,2,3-cd)pyrene | 26.08 | 276 | 17789 | 1.098 | ng/ul | 96 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T3

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 41 | rVB | 59816 | 67690 | 4.81% | 0.734% |
| 2 | 7.816 | 815 | 821 | 829 | rBB | 108063 | 166031 | 11.79% | 1.800% |
| 3 | 10.616 | 1290 | 1297 | 1302 | rBV | 164696 | 279960 | 19.88% | 3.035% |
| 4 | 10.663 | 1302 | 1305 | 1311 | rVB | 10319 | 15389 | 1.09% | 0.167% |
| 5 | 12.275 | 1575 | 1579 | 1585 | rBB | 9198 | 14596 | 1.04% | 0.158% |
| 6 | 14.457 | 1943 | 1950 | 1957 | rBV2 | 290942 | 427522 | 30.36% | 4.635% |
| 7 | 14.522 | 1957 | 1961 | 1966 | rVB | 25310 | 35999 | 2.56% | 0.390% |
| 8 | 14.857 | 2013 | 2018 | 2027 | rBB | 28335 | 39085 | 2.78% | 0.424% |
| 9 | 15.504 | 2123 | 2128 | 2137 | rBB2 | 55370 | 79877 | 5.67% | 0.866% |
| 10 | 15.945 | 2199 | 2203 | 2210 | rBB | 9395 | 17485 | 1.24% | 0.190% |
| 11 | 17.028 | 2382 | 2387 | 2392 | rVB | 21351 | 29619 | 2.10% | 0.321% |
| 12 | 17.204 | 2411 | 2417 | 2421 | rBV | 374047 | 538126 | 38.22% | 5.834% |
| 13 | 17.251 | 2421 | 2425 | 2434 | rVB | 594160 | 830034 | 58.95% | 8.998% |
| 14 | 17.339 | 2434 | 2440 | 2445 | rBV | 69253 | 96215 | 6.83% | 1.043% |
| 15 | 18.075 | 2560 | 2565 | 2570 | rBV | 52266 | 75584 | 5.37% | 0.819% |
| 16 | 18.128 | 2570 | 2574 | 2579 | rVV | 65898 | 92964 | 6.60% | 1.008% |
| 17 | 18.204 | 2581 | 2587 | 2593 | rVV | 12992 | 23347 | 1.66% | 0.253% |
| 18 | 18.275 | 2593 | 2599 | 2603 | rVV3 | 93743 | 161897 | 11.50% | 1.755% |
| 19 | 18.310 | 2603 | 2605 | 2610 | rVB | 35553 | 41297 | 2.93% | 0.448% |
| 20 | 18.492 | 2630 | 2636 | 2644 | rBV7 | 11562 | 22988 | 1.63% | 0.249% |
| 21 | 18.581 | 2646 | 2651 | 2657 | rVV | 46027 | 66174 | 4.70% | 0.717% |
| 22 | 18.822 | 2689 | 2692 | 2697 | rVB2 | 12964 | 16667 | 1.18% | 0.181% |
| 23 | 18.875 | 2697 | 2701 | 2704 | rBV | 12923 | 14969 | 1.06% | 0.162% |
| 24 | 18.916 | 2704 | 2708 | 2716 | rVB | 11028 | 15964 | 1.13% | 0.173% |
| 25 | 18.992 | 2716 | 2721 | 2726 | rBV | 28632 | 45637 | 3.24% | 0.495% |
| 26 | 19.057 | 2726 | 2732 | 2735 | rBV4 | 13890 | 28876 | 2.05% | 0.313% |
| 27 | 19.269 | 2761 | 2768 | 2774 | rBV | 1028947 | 1408044 | 100.00% | 15.265% |
| 28 | 19.357 | 2780 | 2783 | 2786 | rBV3 | 11217 | 14571 | 1.03% | 0.158% |
| 29 | 19.510 | 2804 | 2809 | 2817 | rBV2 | 18396 | 39507 | 2.81% | 0.428% |
| 30 | 19.592 | 2818 | 2823 | 2826 | rVV2 | 134943 | 215133 | 15.28% | 2.332% |
| 31 | 19.633 | 2826 | 2830 | 2836 | rVV | 445385 | 614802 | 43.66% | 6.665% |
| 32 | 19.698 | 2837 | 2841 | 2845 | rVB | 33727 | 46623 | 3.31% | 0.505% |
| 33 | 19.810 | 2856 | 2860 | 2863 | rBV | 41343 | 53796 | 3.82% | 0.583% |
| 34 | 19.963 | 2880 | 2886 | 2892 | rBV2 | 44032 | 73610 | 5.23% | 0.798% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T3

Integration Parameters: LSCINT.P
 Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0
 Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 35 | 20.104 | 2902 | 2910 | 2911 | rBV3 | 73820 | 125931 | 8.94% | 1.365% |
| 36 | 20.122 | 2911 | 2913 | 2917 | rVB2 | 93631 | 114222 | 8.11% | 1.238% |
| 37 | 20.222 | 2926 | 2930 | 2934 | rBV | 80799 | 101890 | 7.24% | 1.105% |
| 38 | 20.281 | 2934 | 2940 | 2943 | rVV2 | 36924 | 86408 | 6.14% | 0.937% |
| 39 | 20.316 | 2943 | 2946 | 2949 | rVV | 36753 | 43057 | 3.06% | 0.467% |
| 40 | 20.375 | 2951 | 2956 | 2960 | rVB4 | 42596 | 69054 | 4.90% | 0.749% |
| 41 | 21.039 | 3065 | 3069 | 3072 | rBV | 67788 | 83242 | 5.91% | 0.902% |
| 42 | 21.075 | 3072 | 3075 | 3078 | rVV | 84073 | 99108 | 7.04% | 1.074% |
| 43 | 21.116 | 3078 | 3082 | 3086 | rVB | 75578 | 87826 | 6.24% | 0.952% |
| 44 | 21.275 | 3107 | 3109 | 3115 | rVB2 | 29084 | 38176 | 2.71% | 0.414% |
| 45 | 21.392 | 3122 | 3129 | 3133 | rBV2 | 605311 | 1258624 | 89.39% | 13.645% |
| 46 | 21.433 | 3133 | 3136 | 3141 | rVB | 338660 | 415882 | 29.54% | 4.509% |
| 47 | 23.016 | 3400 | 3405 | 3409 | rBV | 140398 | 283238 | 20.12% | 3.071% |
| 48 | 23.516 | 3486 | 3490 | 3498 | rVB2 | 73622 | 137386 | 9.76% | 1.489% |
| 49 | 23.716 | 3518 | 3524 | 3531 | rVB | 299435 | 570072 | 40.49% | 6.180% |

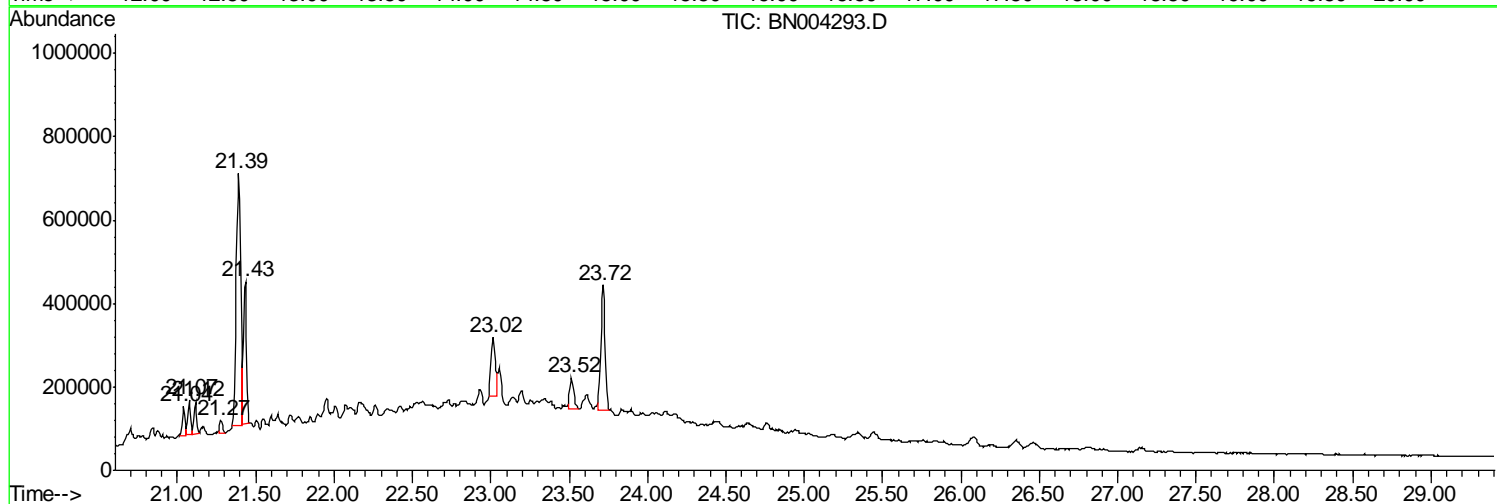
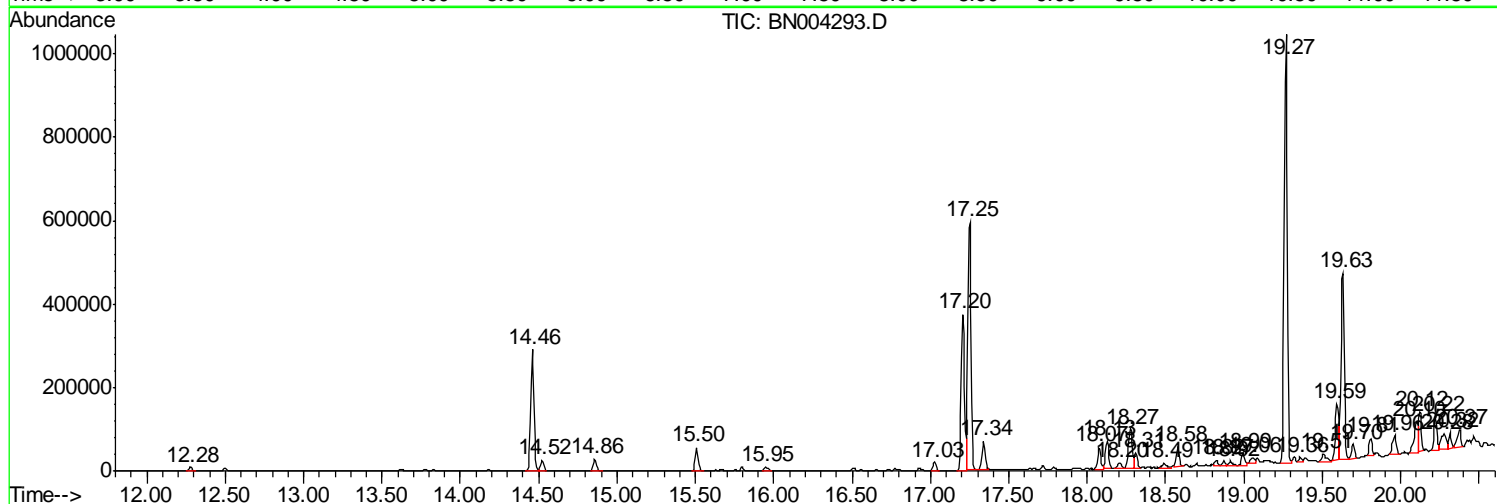
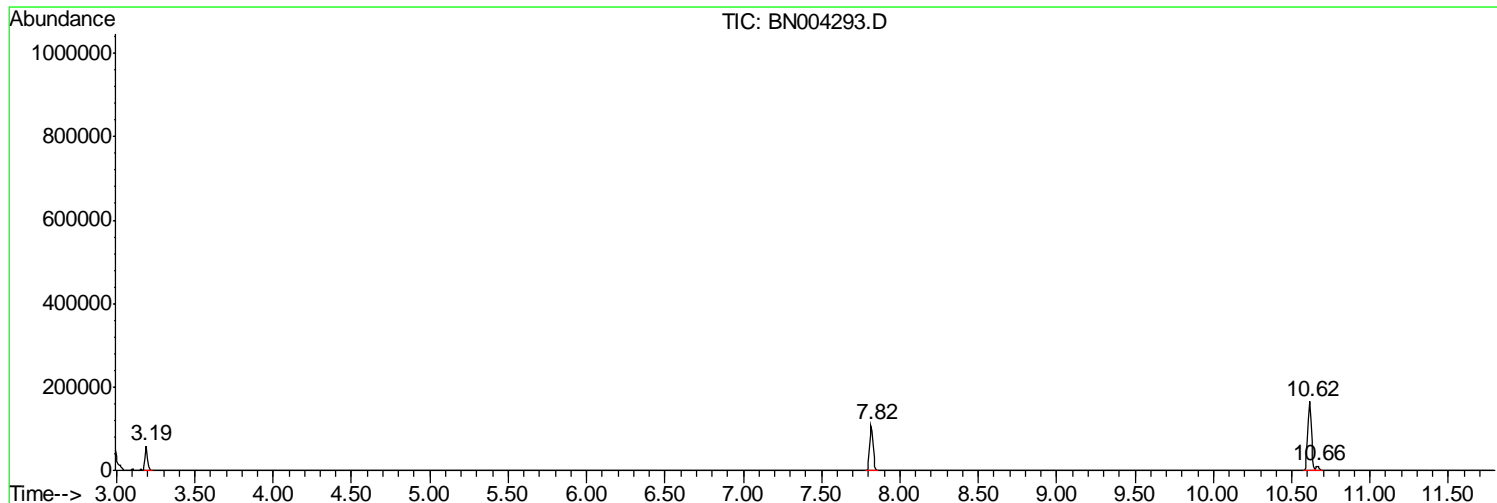
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 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T3

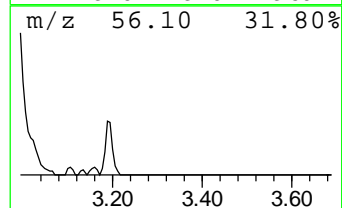
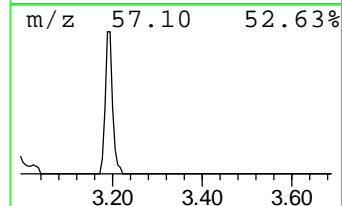
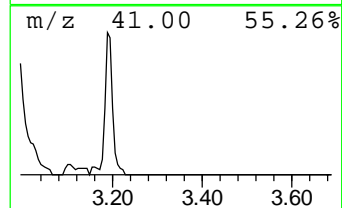
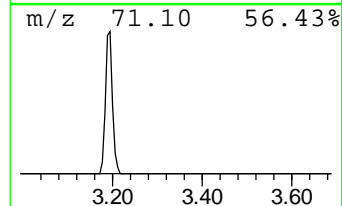
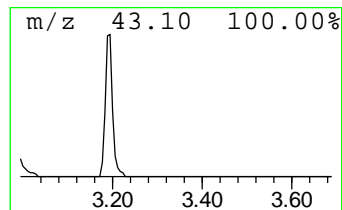
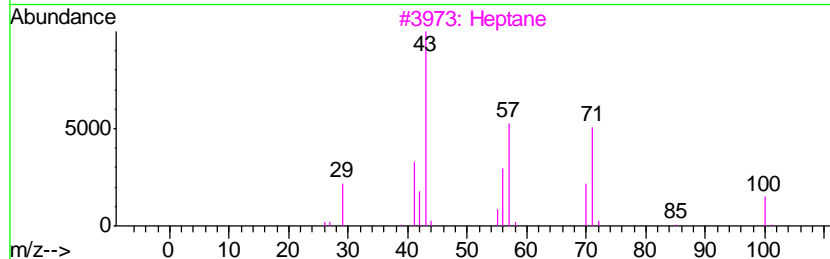
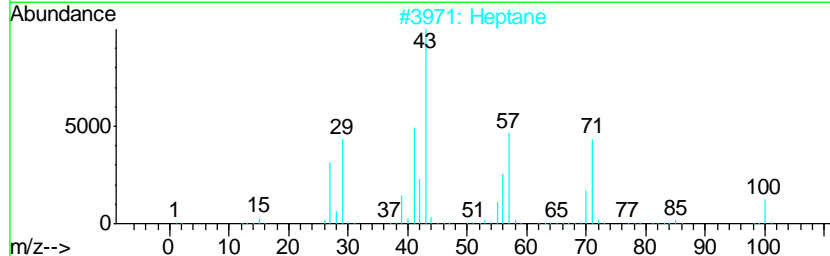
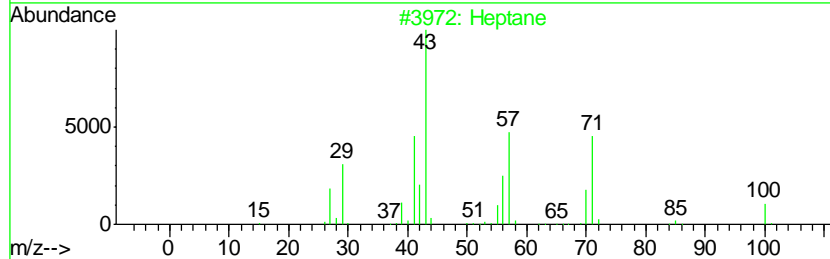
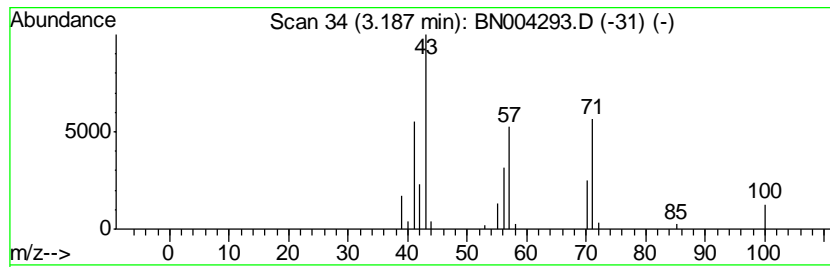
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 3.19 | 8.15 ng/ul | 67690 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T3

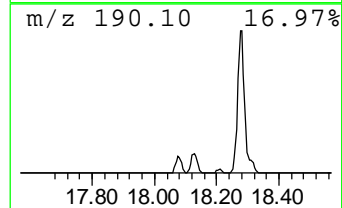
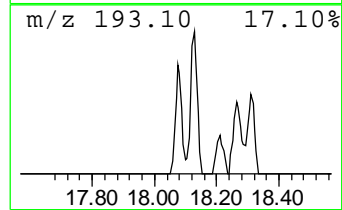
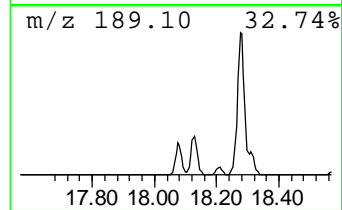
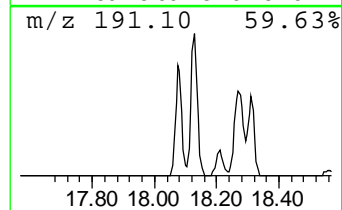
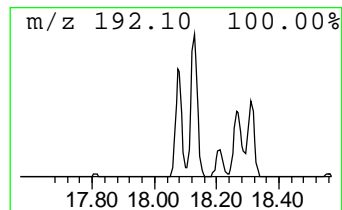
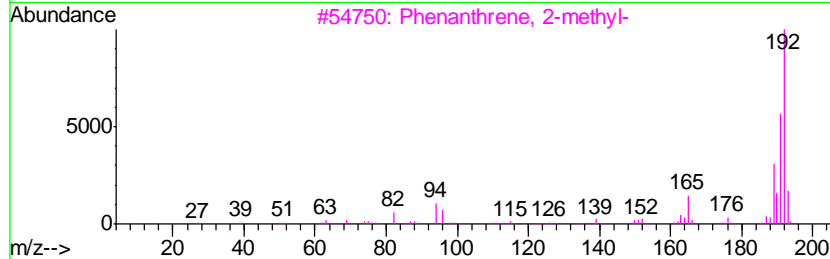
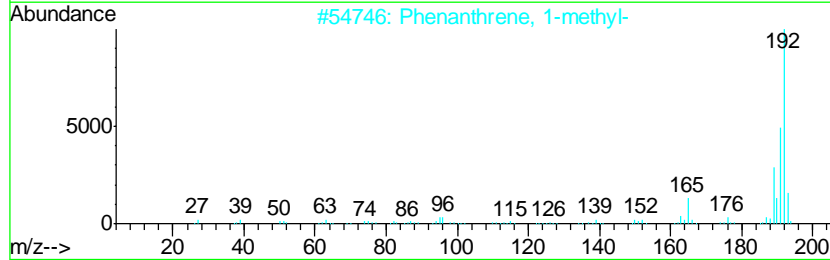
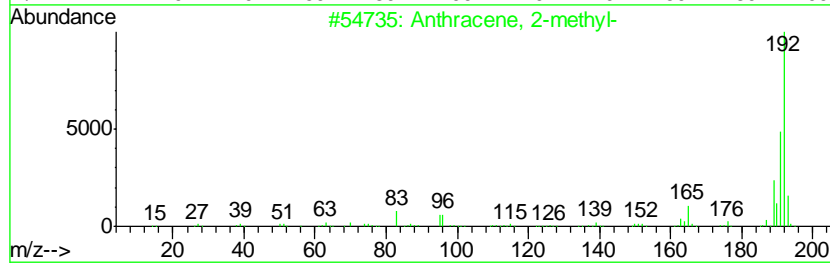
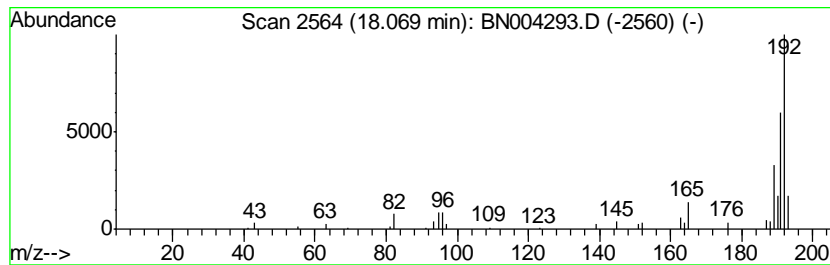
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 Anthracene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.07 | 2.81 ng/ul | 75584 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 5 | | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41T3

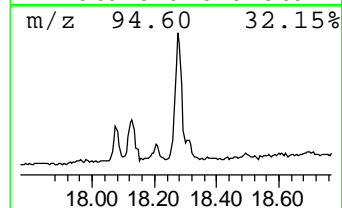
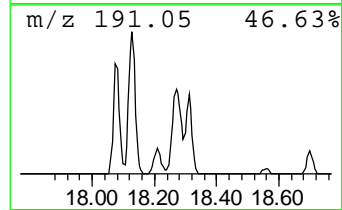
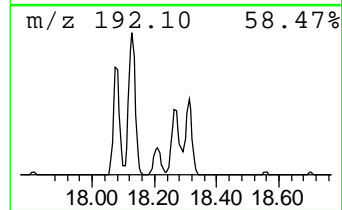
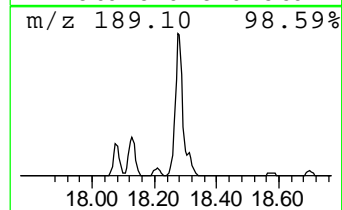
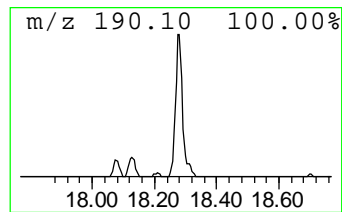
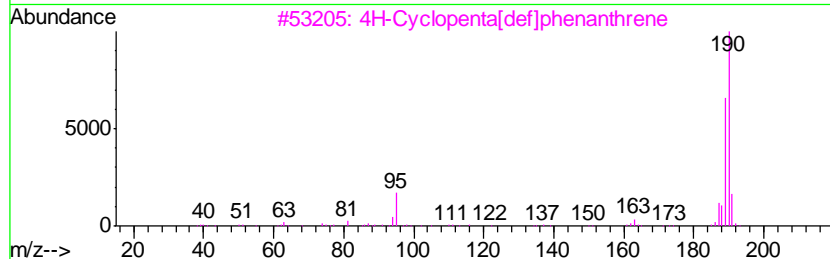
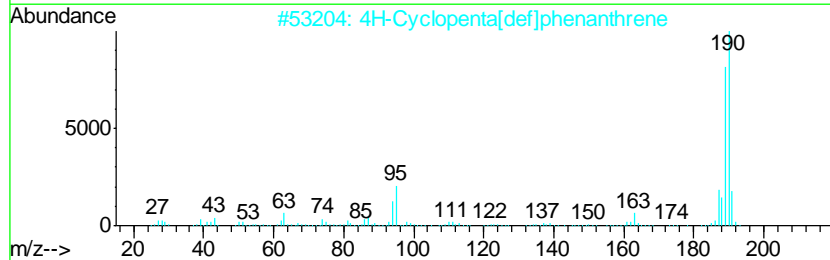
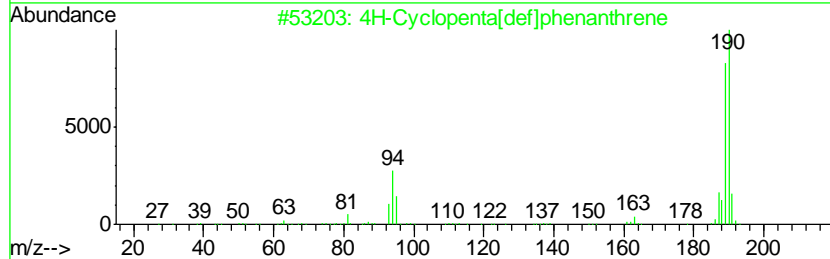
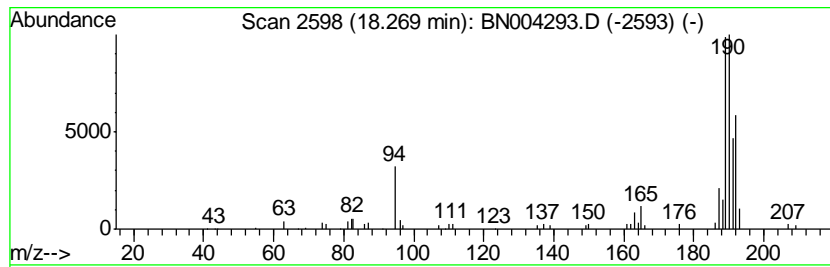
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.27 | 6.02 ng/ul | 161897 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 93 |
| 2 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 3 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 62 |
| 4 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 59 |
| 5 | | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 45 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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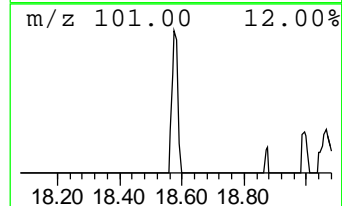
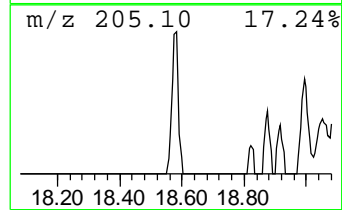
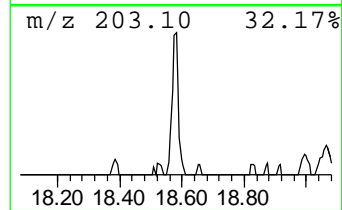
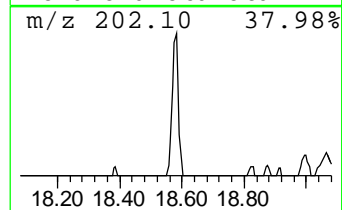
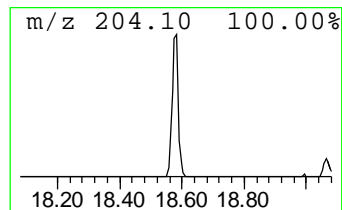
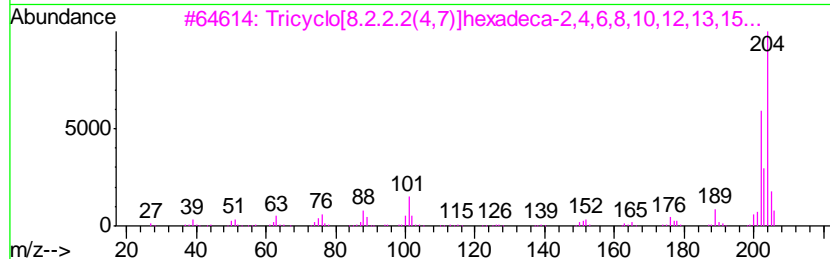
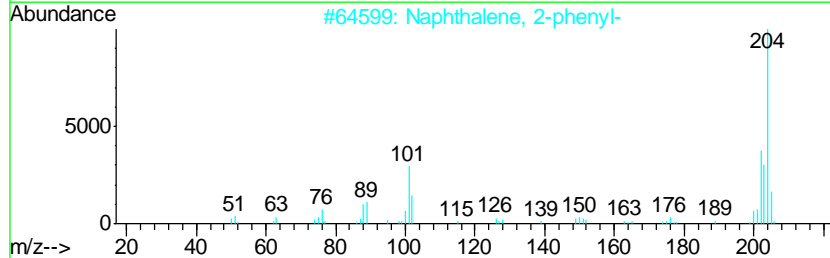
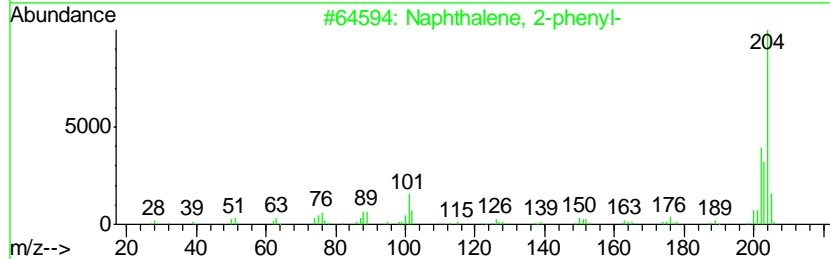
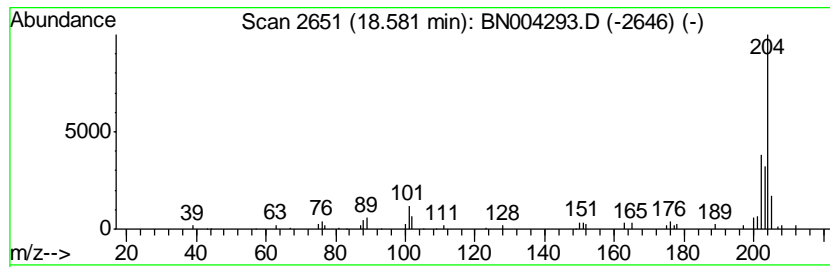
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 Naphthalene, 2-phenyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.58 | 2.46 ng/ul | 66174 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1 | 5 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 90 |
| 2 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 90 |
| 3 | | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 87 |
| 4 | | 5,16[1',2'] : 8,13[1',2']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 5 | | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 81 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
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 ALS Vial : 29 Sample Multiplier: 1

Instrument :
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 ClientSampled :
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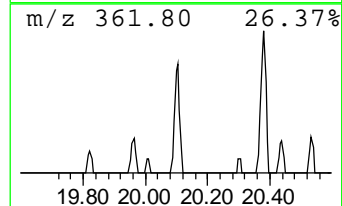
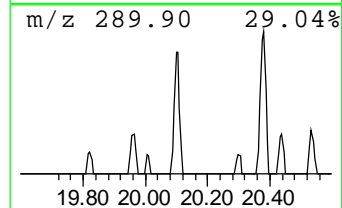
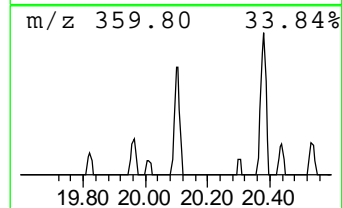
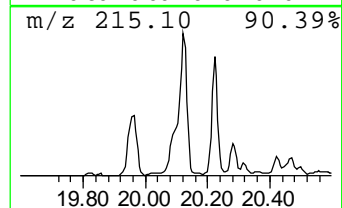
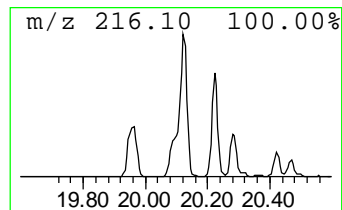
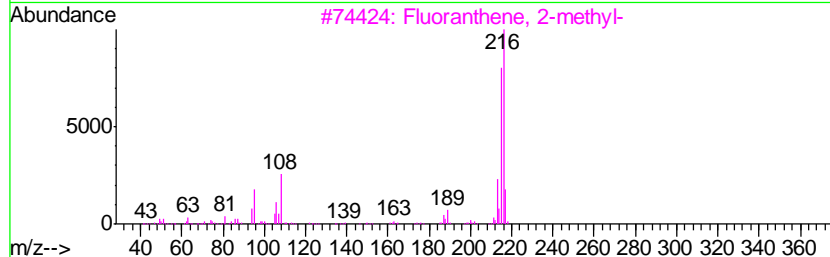
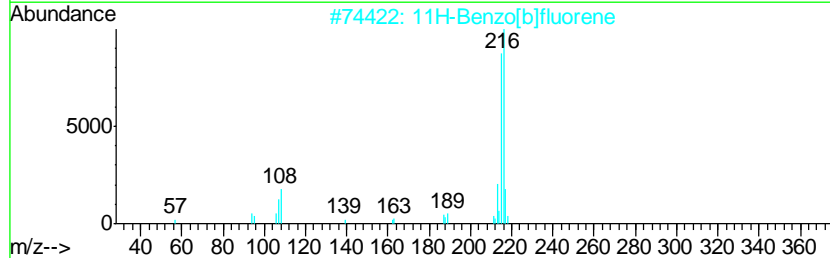
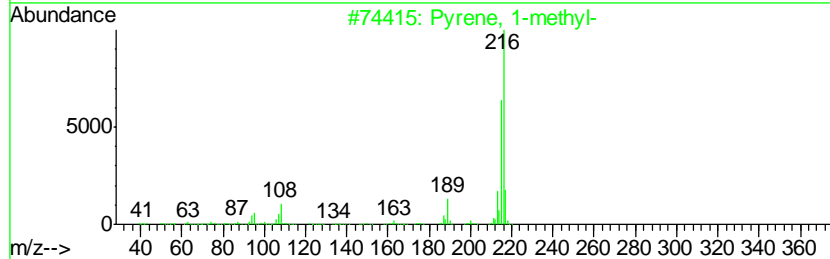
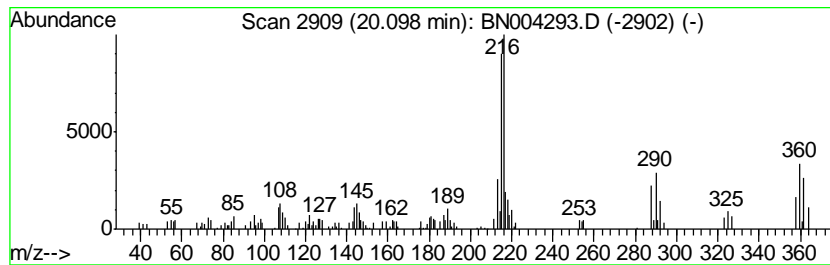
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 Pyrene, 1-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 20.10 | 2.00 ng/ul | 125931 | Chrysene-d12 | 21.39 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 70 |
| 2 | | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 55 |
| 3 | | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 55 |
| 4 | | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 55 |
| 5 | | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 49 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004293.D
 Acq On : 29 Dec 2018 10:17
 Operator : JU/SJ
 Sample : J6432-01
 Misc : GCMS Confirmation
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41T3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 8.2 | ng/ul | 67690 | 1 | 7.82 | 166031 | 20.0 |
| Anthracene, 2-met... | 18.07 | 2.8 | ng/ul | 75584 | 4 | 17.20 | 538126 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 6.0 | ng/ul | 161897 | 4 | 17.20 | 538126 | 20.0 |
| Naphthalene, 2-ph... | 18.58 | 2.5 | ng/ul | 66174 | 4 | 17.20 | 538126 | 20.0 |
| Pyrene, 1-methyl- | 20.10 | 2.0 | ng/ul | 125931 | 5 | 21.39 | 1258620 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T3DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-01DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035088.D
 % Solids : 91.4 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 2.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 72 | U |
| 11104-28-2 | Aroclor-1221 | 72 | U |
| 11141-16-5 | Aroclor-1232 | 72 | U |
| 53469-21-9 | Aroclor-1242 | 72 | U |
| 12672-29-6 | Aroclor-1248 | 72 | U |
| 11097-69-1 | Aroclor-1254 | 72 | U |
| 11096-82-5 | Aroclor-1260 | 8900 | ED |
| 37324-23-5 | Aroclor-1262 | 72 | U |
| 11100-14-4 | Aroclor-1268 | 72 | U |

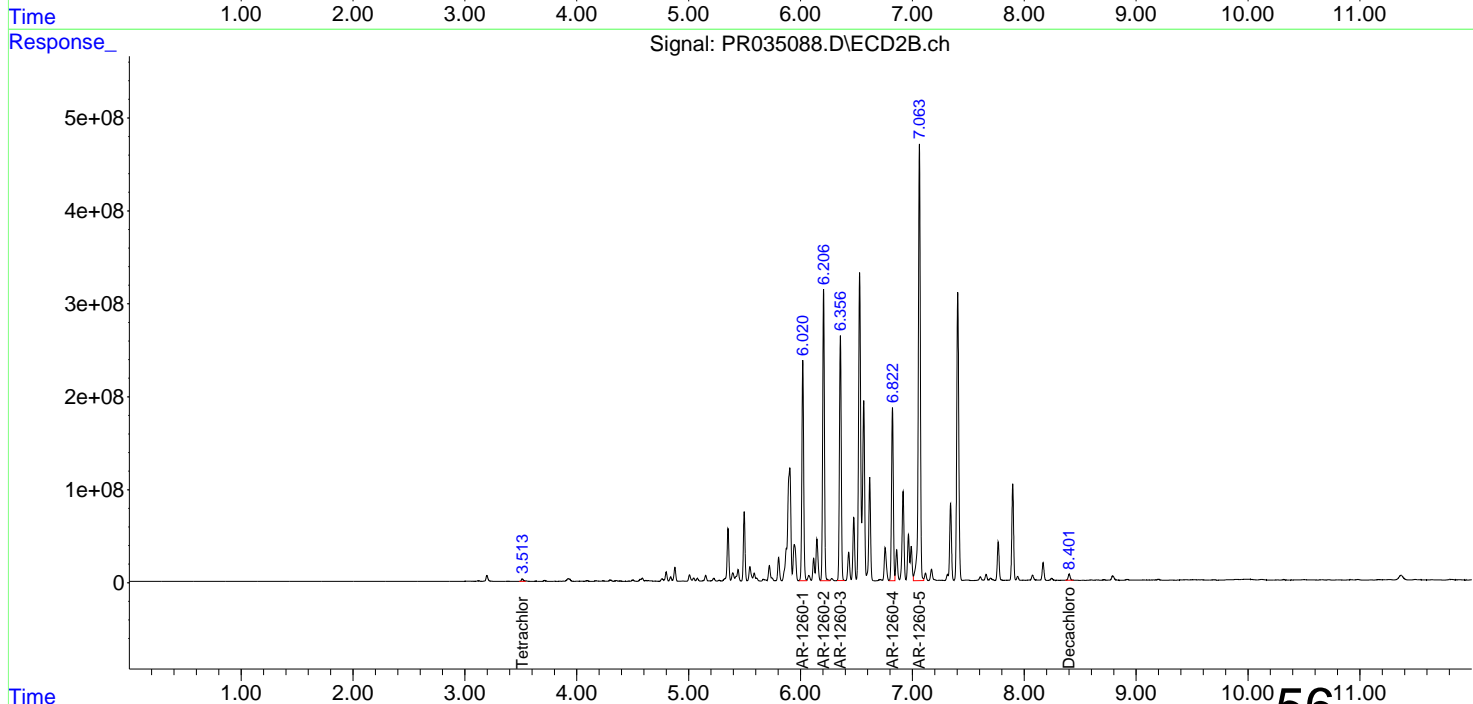
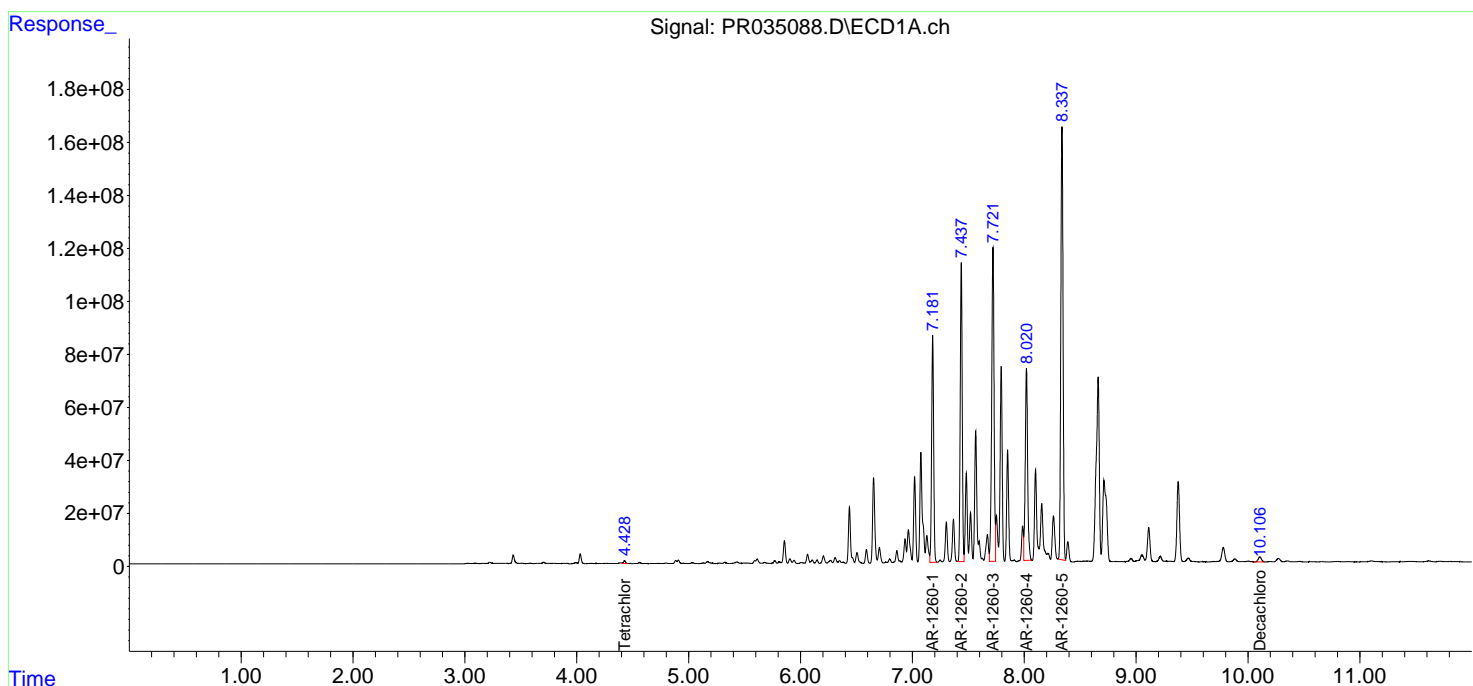
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035088.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:39
 Operator : SM\SJ
 Sample : J6432-01DL 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:49 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:04:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035088.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:39
 Operator : SM\SJ
 Sample : J6432-01DL 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleID :
 A41T3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:49 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:04:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 13085679 | 29517240 | 6.728 | 8.467m# |
| 2) SA Decachlor... | 10.106 | 8.402 | 37311198 | 81612923 | 18.979 | 18.562 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.020 | 1084.2E6 | 2641.9E6 | 11533.338 | 12289.422 |
| 32) L7 AR-1260-2 | 7.438 | 6.206 | 1386.2E6 | 3428.4E6 | 11939.416 | 12598.654 |
| 33) L7 AR-1260-3 | 7.721 | 6.357 | 1739.4E6 | 2962.0E6 | 12463.711 | 11932.308 |
| 34) L7 AR-1260-4 | 8.020 | 6.822 | 1073.8E6 | 2068.2E6 | 12432.949 | 12095.332 |
| 35) L7 AR-1260-5 | 8.338 | 7.063 | 2273.4E6 | 5916.2E6 | 12591.033 | 12232.521 |
| ----- | | | | | | |

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

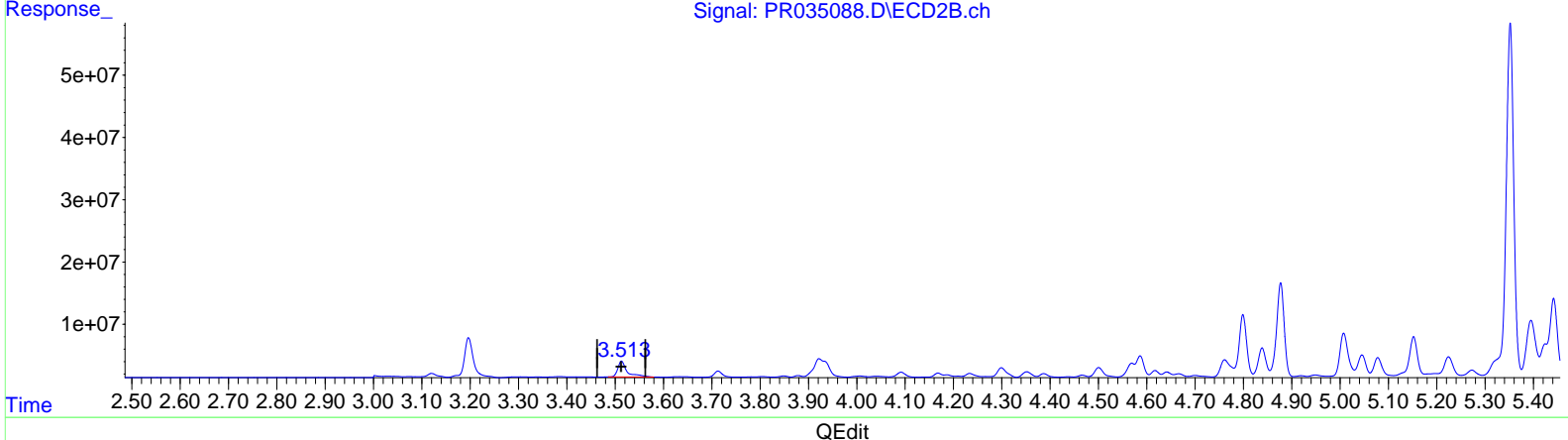
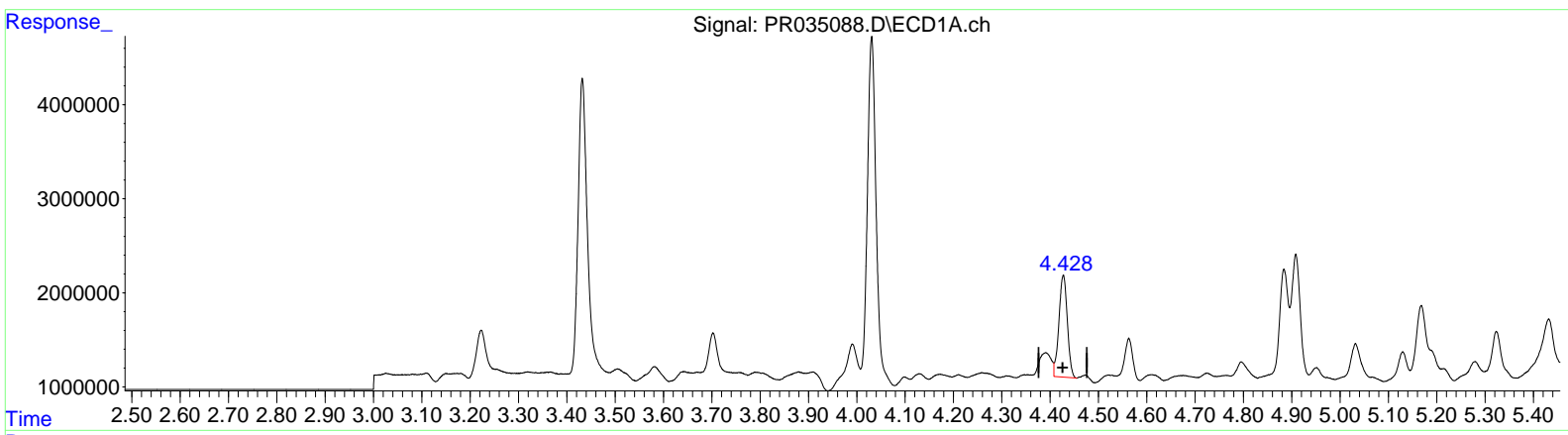
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035088.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:39
 Operator : SM\SJ
 Sample : J6432-01DL 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:49 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:04:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.427min 6.728 ng/ml
 response 13085679

(1) Tetrachloro-m-xylene #2 (SA)

3.513min 9.812 ng/ml
 response 34204416

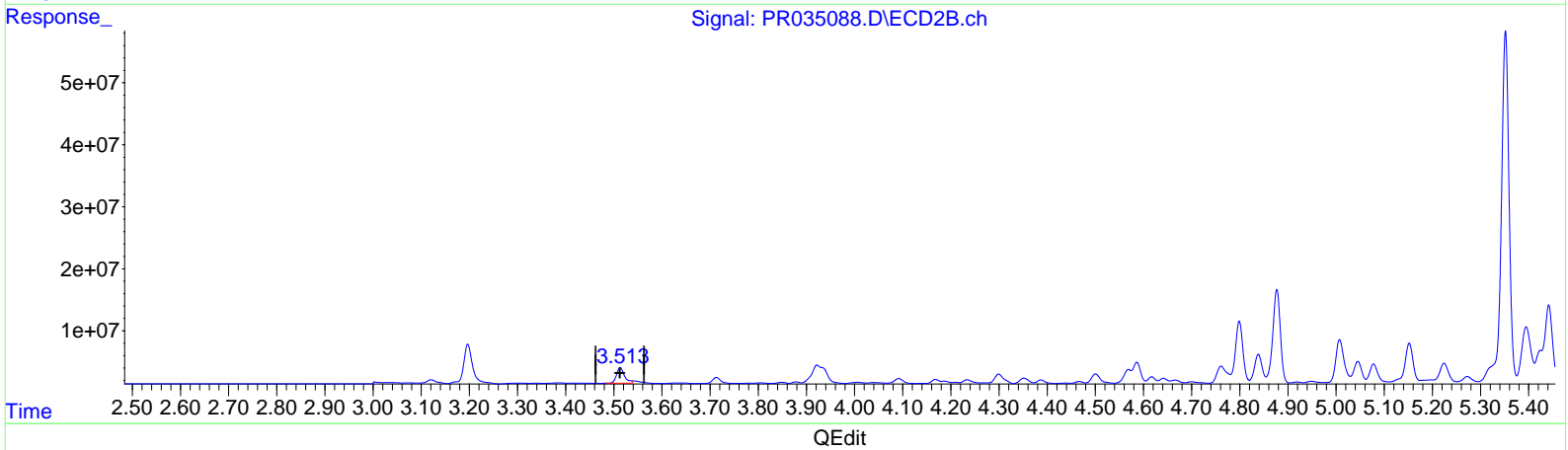
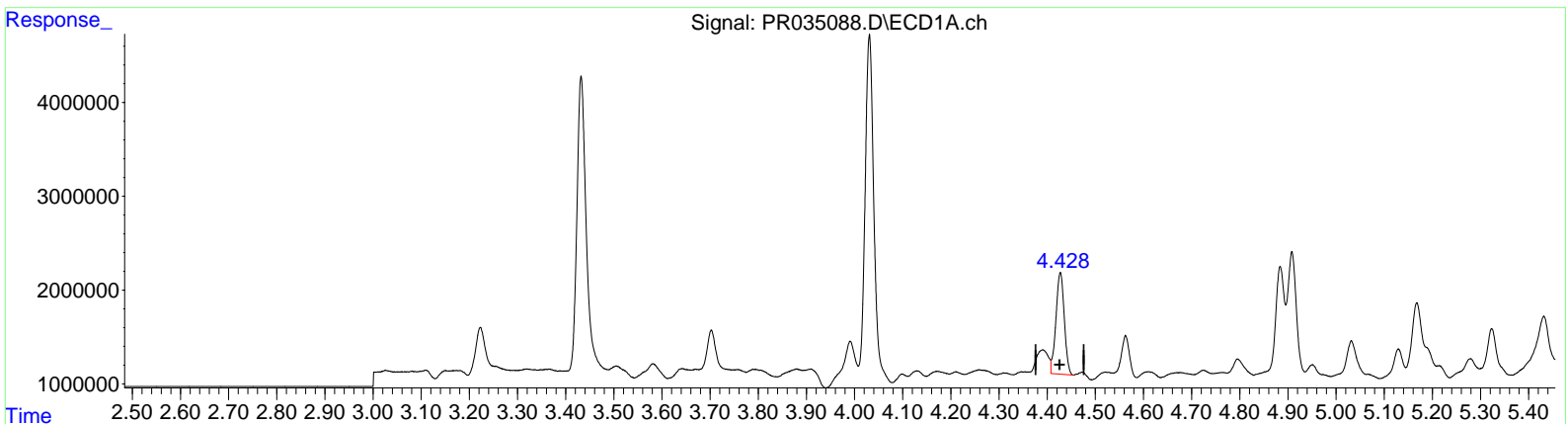
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035088.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:39
 Operator : SM\SJ
 Sample : J6432-01DL 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41T3DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:49 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:04:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 6.728 ng/ml
 response 13085679

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 8.467 ng/ml m
 response 29517240

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035088.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:39
 Operator : SM\SJ
 Sample : J6432-01DL 2X
 Misc :
 ALS Vial ; 20 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41T3DL

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:49 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:04:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 13085679 | 29517240 | 6.728 | 8.467m# |
| 2) SA Decachlor... | 10.106 | 8.402 | 37311198 | 81612923 | 18.979 | 18.562 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.020 | 1084.2E6 | 2641.9E6 | 11533.338 | 12289.422 |
| 32) L7 AR-1260-2 | 7.438 | 6.206 | 1386.2E6 | 3428.4E6 | 11939.416 | 12598.654 |
| 33) L7 AR-1260-3 | 7.721 | 6.357 | 1739.4E6 | 2962.0E6 | 12463.711 | 11932.308 |
| 34) L7 AR-1260-4 | 8.020 | 6.822 | 1073.8E6 | 2068.2E6 | 12432.949 | 12095.332 |
| 35) L7 AR-1260-5 | 8.338 | 7.063 | 2273.4E6 | 5916.2E6 | 12591.033 | 12232.521 |

> SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41T3DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-01DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035089.D
 % Solids : 91.4 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 25.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

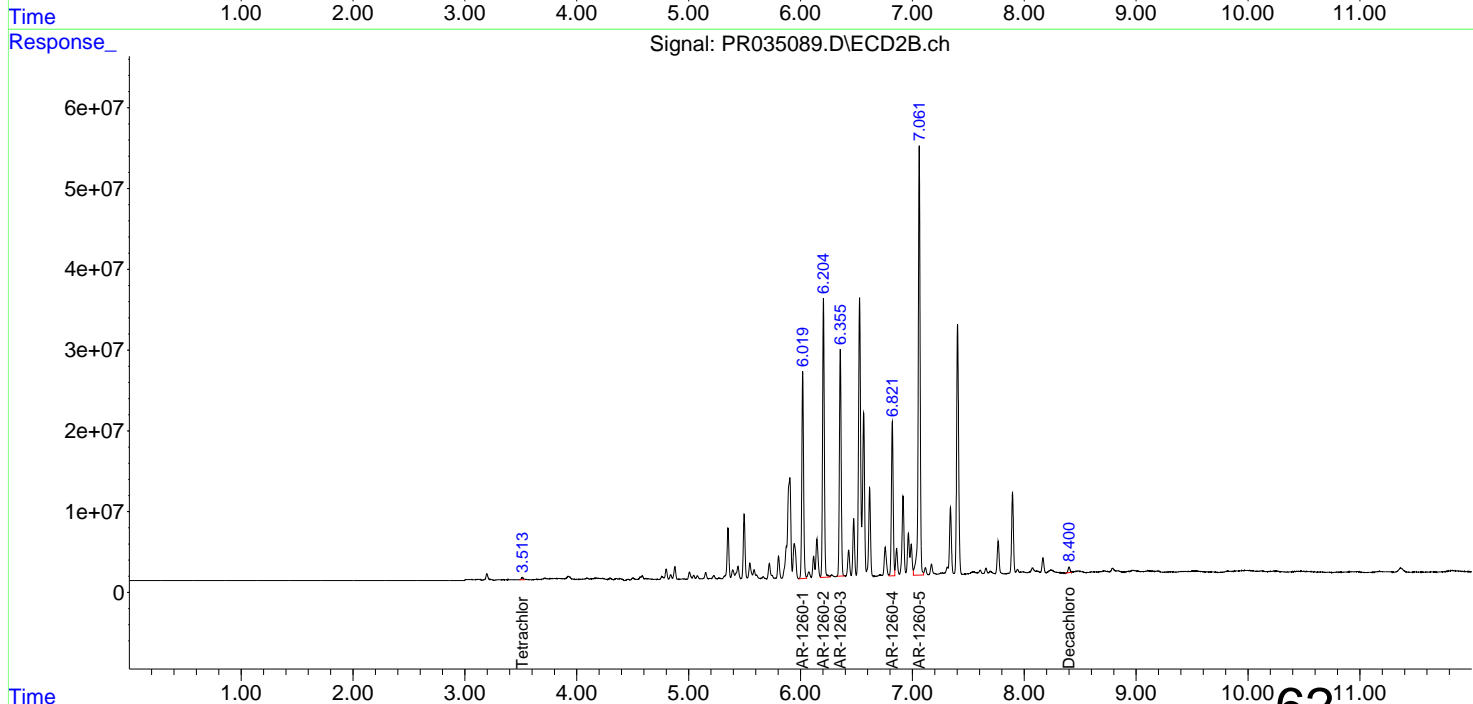
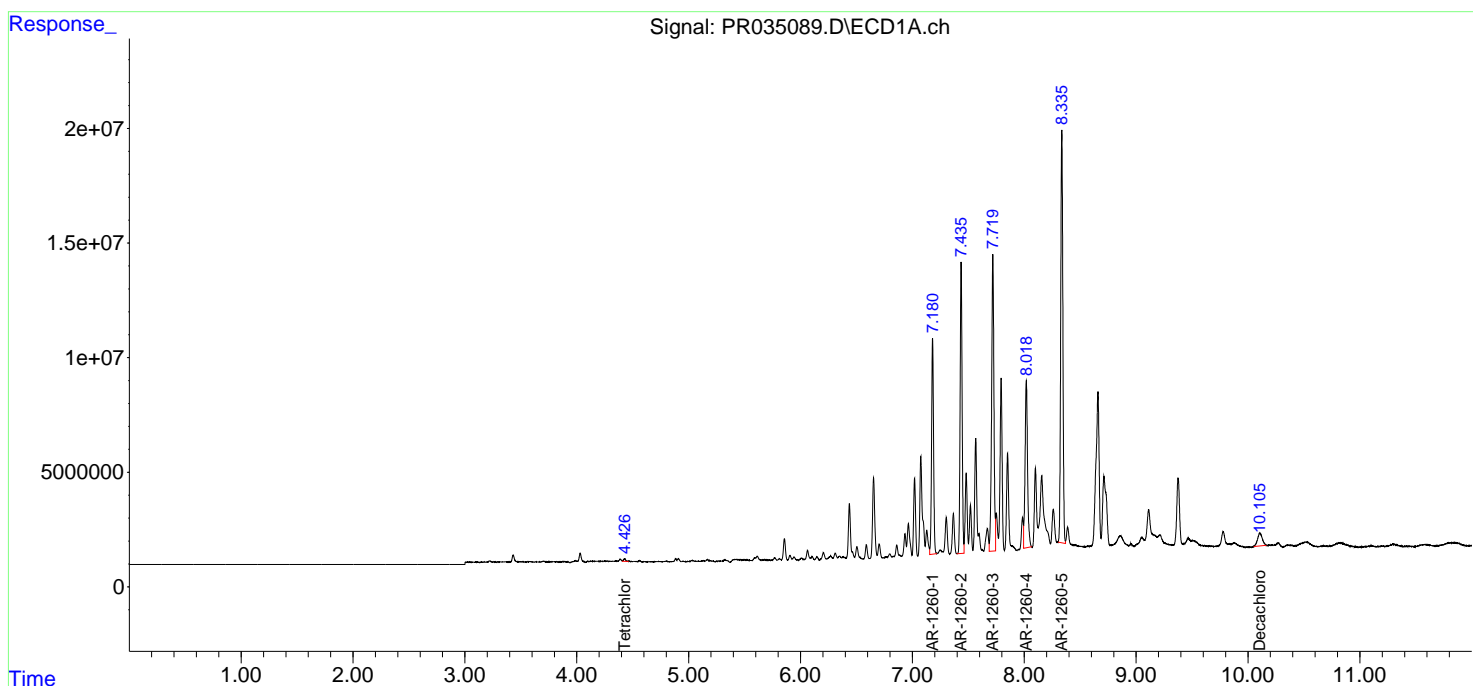
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 900 | U |
| 11104-28-2 | Aroclor-1221 | 900 | U |
| 11141-16-5 | Aroclor-1232 | 900 | U |
| 53469-21-9 | Aroclor-1242 | 900 | U |
| 12672-29-6 | Aroclor-1248 | 900 | U |
| 11097-69-1 | Aroclor-1254 | 900 | U |
| 11096-82-5 | Aroclor-1260 | 12000 | D |
| 37324-23-5 | Aroclor-1262 | 900 | U |
| 11100-14-4 | Aroclor-1268 | 900 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035089.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:53
 Operator : SM\SJ
 Sample : J6432-01DL2 25X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41T3DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:19:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035089.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:53
 Operator : SM\SJ
 Sample : J6432-01DL2 25X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41T3DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:19:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 1410426 | 3382132 | 0.725 | 0.970 # |
| 2) SA Decachlor... | 10.105 | 8.401 | 16833817 | 8071623 | 8.563 | 1.836 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 115.3E6 | 282.5E6 | 1226.945 | 1314.112 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 154.7E6 | 373.4E6 | 1332.763 | 1372.064 |
| 33) L7 AR-1260-3 | 7.719 | 6.356 | 183.7E6 | 308.2E6 | 1316.052 | 1241.470 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 112.4E6 | 210.6E6 | 1301.541 | 1231.538 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 240.0E6 | 623.5E6 | 1328.971 | 1289.148 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X0

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-02
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034970.D
 % Solids : 74.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

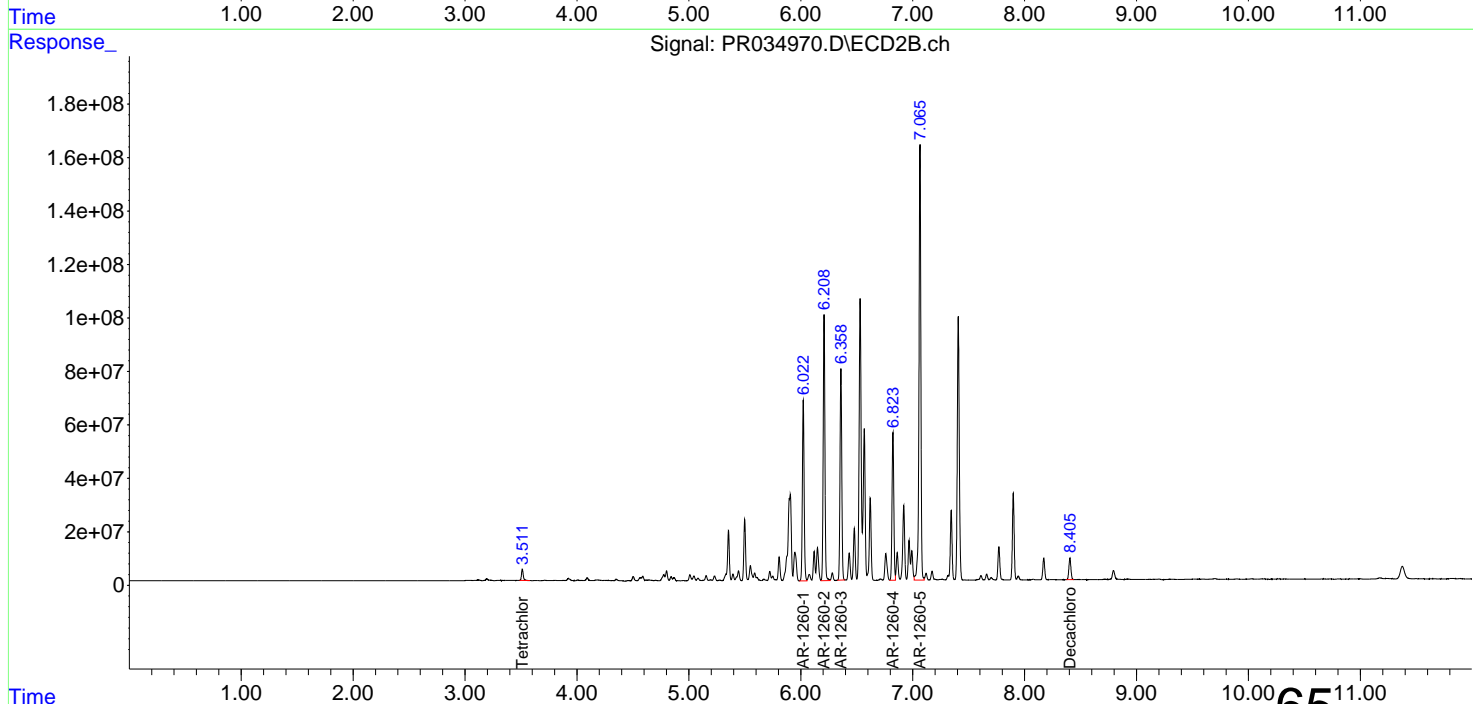
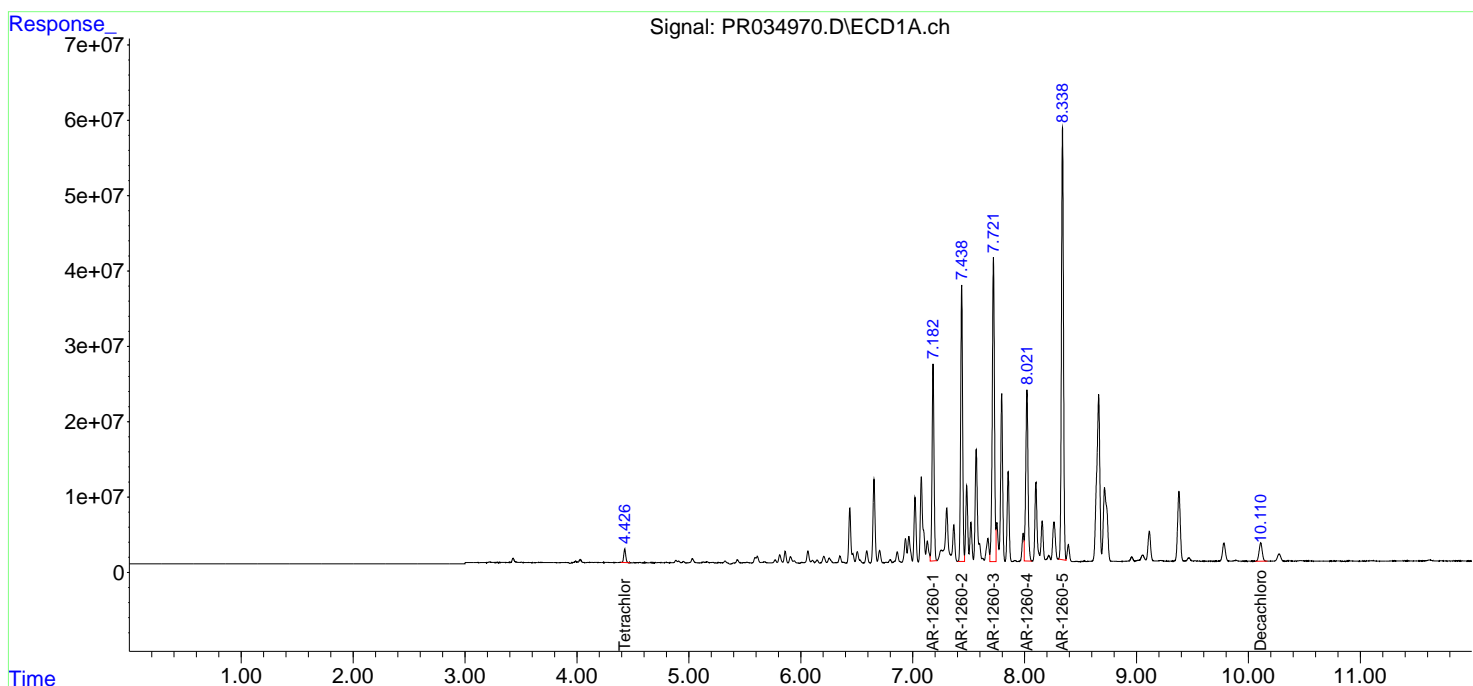
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 1600 | E |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034970.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:27
 Operator : SM\SJ
 Sample : J6432-02
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X0

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:29:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034970.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:27
 Operator : SM\SJ
 Sample : J6432-02
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41X0

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:29:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 21816025 | 46897390 | 11.216 | 13.453 |
| 2) SA Decachlor... | 10.110 | 8.405 | 46979546 | 102.0E6 | 23.897 | 23.193 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 316.1E6 | 737.5E6 | 3362.360 | 3430.568 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 442.5E6 | 1060.5E6 | 3810.902 | 3897.021 |
| 33) L7 AR-1260-3 | 7.722 | 6.359 | 558.2E6 | 865.4E6 | 3999.965 | 3486.265 |
| 34) L7 AR-1260-4 | 8.021 | 6.824 | 323.2E6 | 613.4E6 | 3742.450 | 3587.517 |
| 35) L7 AR-1260-5 | 8.339 | 7.065 | 735.8E6 | 1904.1E6 | 4075.275 | 3936.895 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X0DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-02DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035083.D
 % Solids : 74.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

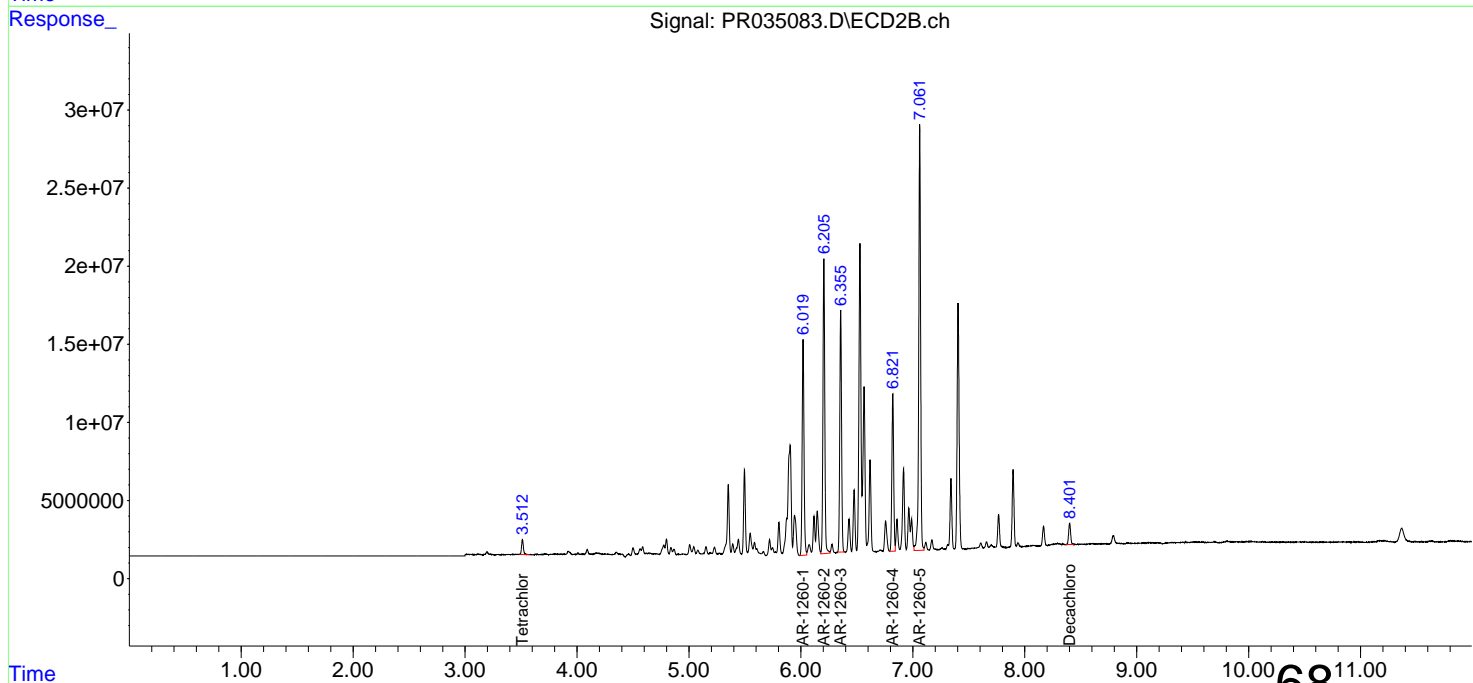
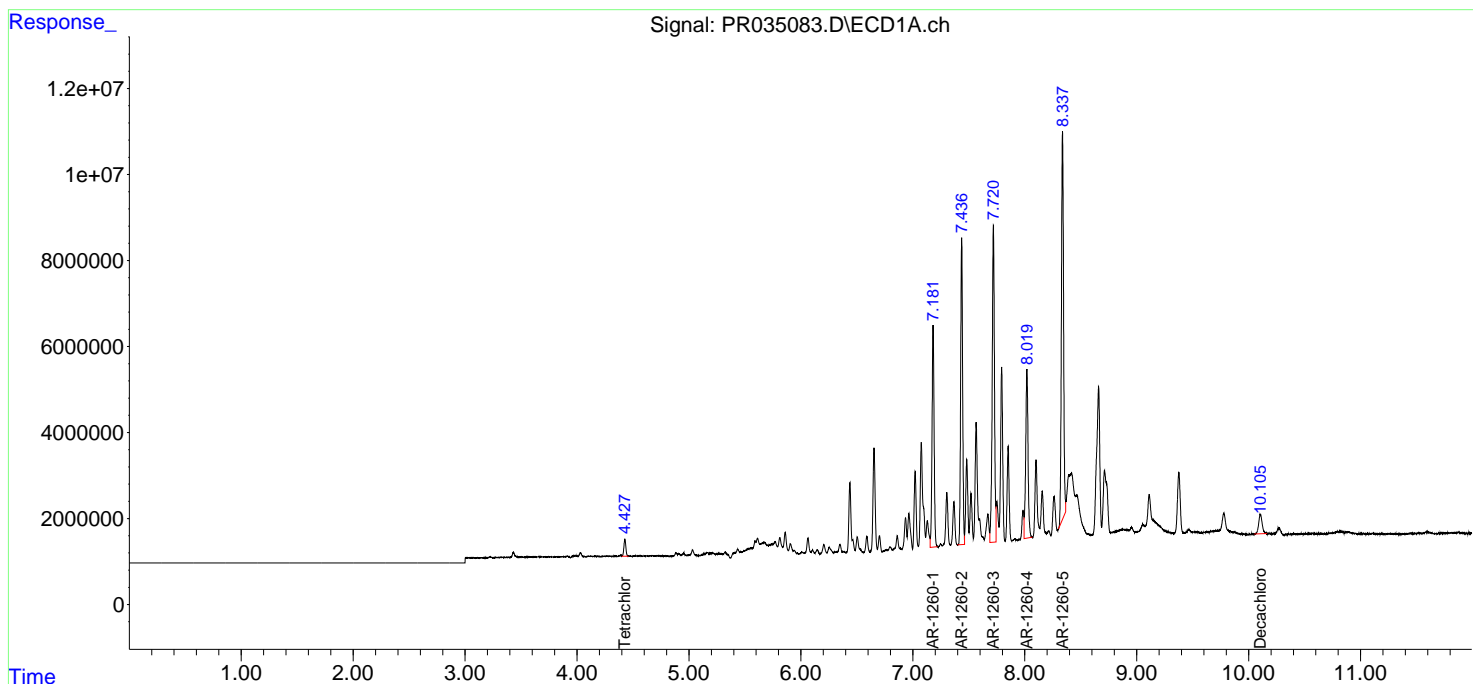
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 220 | U |
| 11104-28-2 | Aroclor-1221 | 220 | U |
| 11141-16-5 | Aroclor-1232 | 220 | U |
| 53469-21-9 | Aroclor-1242 | 220 | U |
| 12672-29-6 | Aroclor-1248 | 220 | U |
| 11097-69-1 | Aroclor-1254 | 220 | U |
| 11096-82-5 | Aroclor-1260 | 1600 | D |
| 37324-23-5 | Aroclor-1262 | 220 | U |
| 11100-14-4 | Aroclor-1268 | 220 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035083.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:27
 Operator : SM\SJ
 Sample : J6432-02DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X0DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:48:36 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035083.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:27
 Operator : SM\SJ
 Sample : J6432-02DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41X0DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:48:36 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 4848658 | 11079720 | 2.493 | 3.178 # |
| 2) SA Decachlor... | 10.105 | 8.401 | 9779327 | 16562948 | 4.974 | 3.767 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 66018133 | 158.5E6 | 702.261 | 737.210 |
| 32) L7 AR-1260-2 | 7.437 | 6.205 | 87431442 | 213.9E6 | 753.063 | 786.222 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 102.7E6 | 170.7E6 | 735.619 | 687.533 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 57229799 | 112.9E6 | 662.661 | 660.160 |
| 35) L7 AR-1260-5 | 8.337 | 7.062 | 119.9E6 | 318.1E6 | 664.133 | 657.678 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y4

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-05
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034973.D
 % Solids : 62.1 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 53 | U |
| 11104-28-2 | Aroclor-1221 | 53 | U |
| 11141-16-5 | Aroclor-1232 | 53 | U |
| 53469-21-9 | Aroclor-1242 | 53 | U |
| 12672-29-6 | Aroclor-1248 | 53 | U |
| 11097-69-1 | Aroclor-1254 | 53 | U |
| 11096-82-5 | Aroclor-1260 | 290 | |
| 37324-23-5 | Aroclor-1262 | 53 | U |
| 11100-14-4 | Aroclor-1268 | 53 | U |

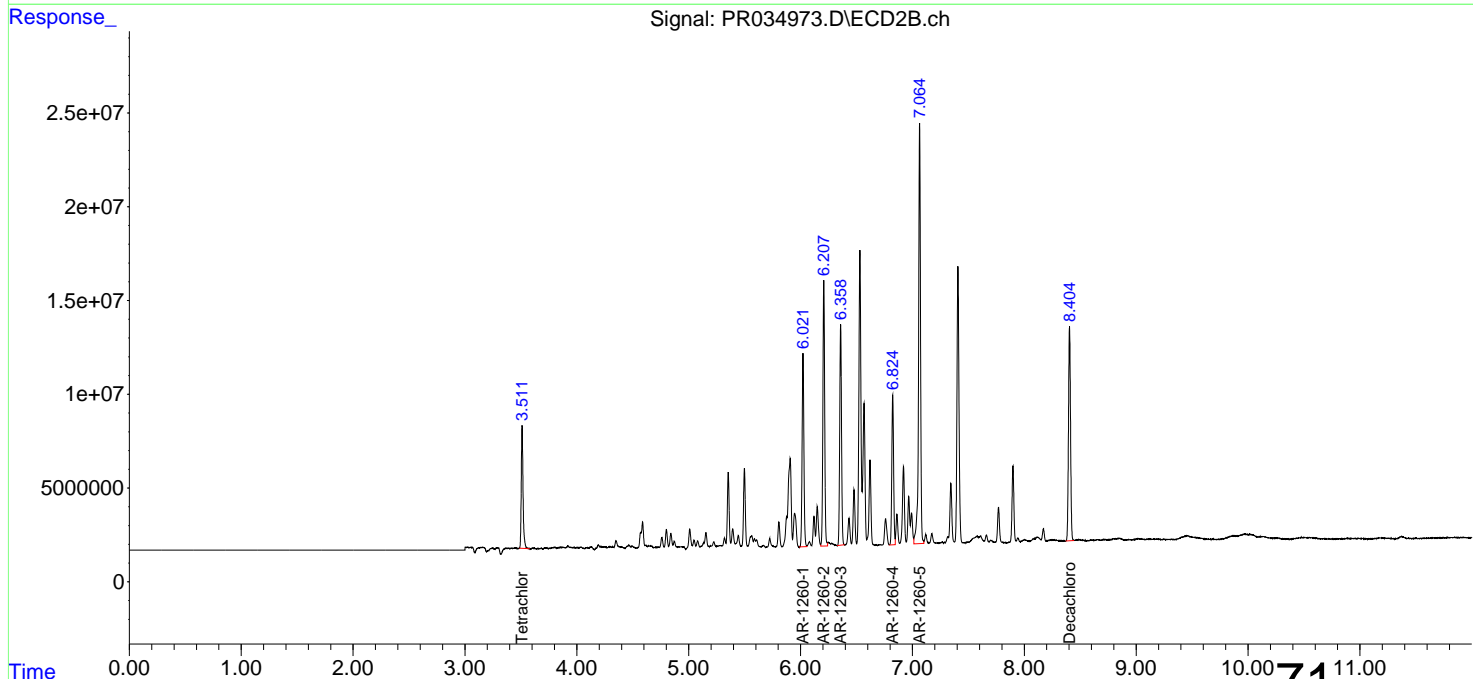
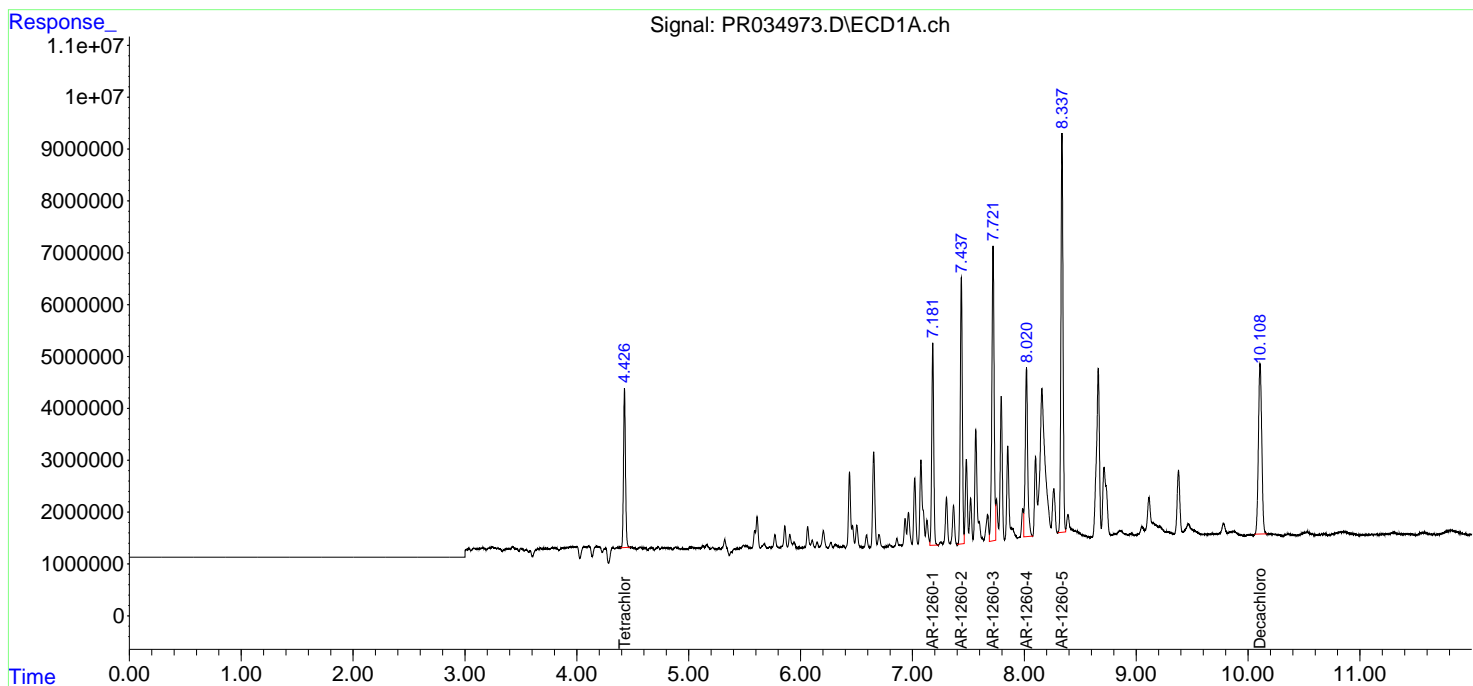
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034973.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 14:10
 Operator : SM\SJ
 Sample : J6432-05
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Y4

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:08:57 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:39:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034973.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 14:10
 Operator : SM\SJ
 Sample : J6432-05
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y4

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:08:57 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:39:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 37720036 | 72505015 | 19.393 | 20.799 |
| 2) SA Decachlor... | 10.107 | 8.405 | 68265333 | 144.8E6 | 34.724 | 32.924 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 48191072 | 114.2E6 | 512.627 | 531.274 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 65129545 | 158.0E6 | 560.972 | 580.736 |
| 33) L7 AR-1260-3 | 7.721 | 6.358 | 80719910 | 131.3E6 | 578.403m | 529.083 |
| 34) L7 AR-1260-4 | 8.020 | 6.824 | 50021184 | 88694762 | 579.193m | 518.712 |
| 35) L7 AR-1260-5 | 8.337 | 7.064 | 100.3E6 | 272.4E6 | 555.766 | 563.239 |
| ----- | | | | | | |

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

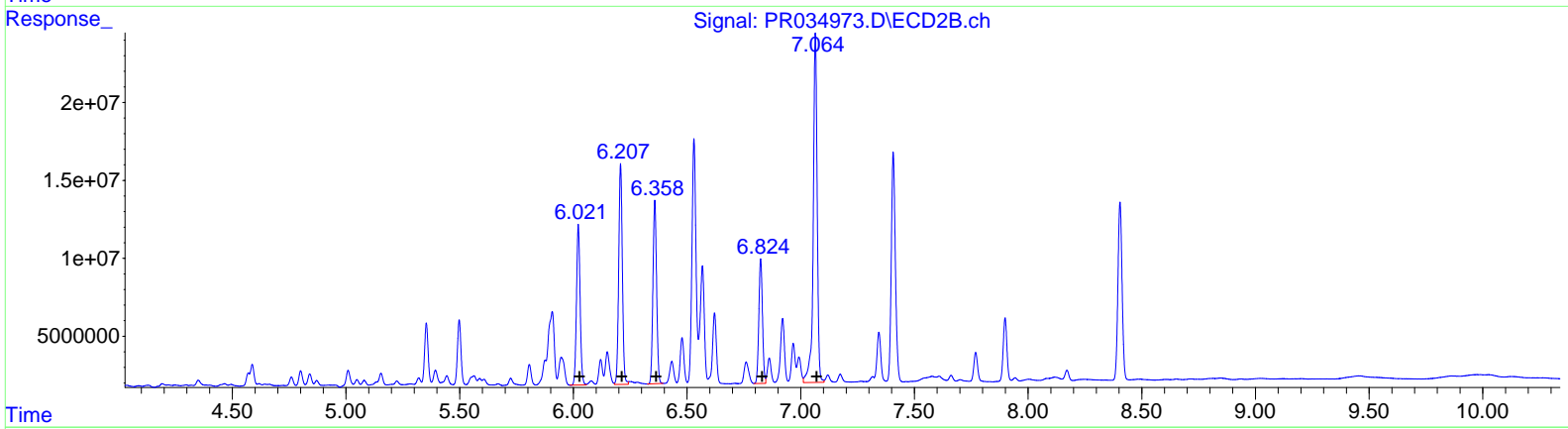
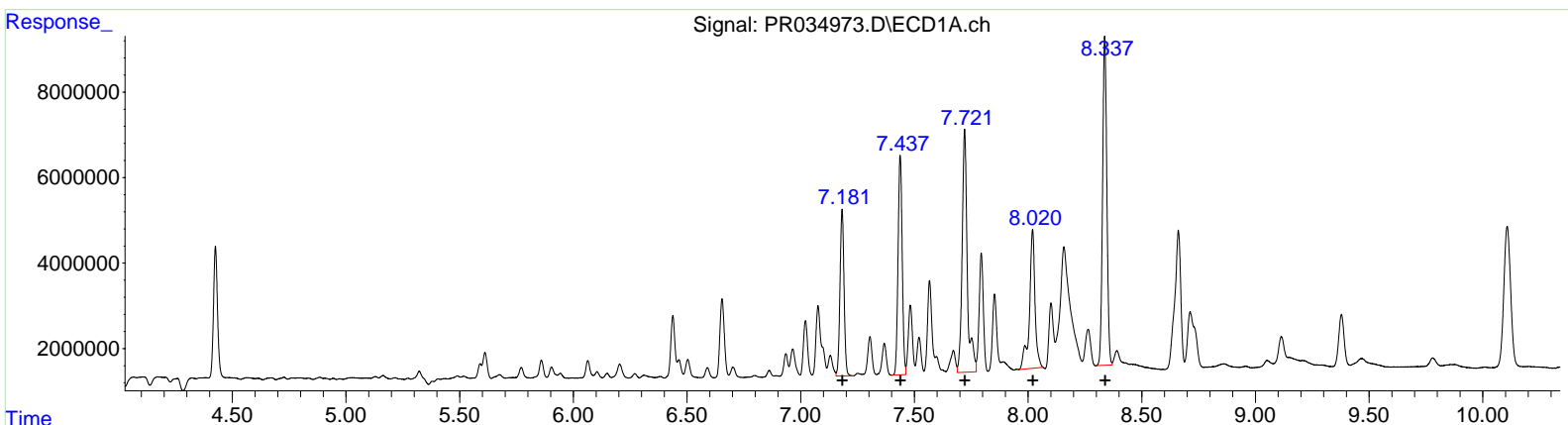
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034973.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 14:10
 Operator : SM\SJ
 Sample : J6432-05
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y4

Manual Integrations
 APPROVED
 Sohil
 12/26/2018 8:08:57 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:39:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 7.18 | 48191072 | 512.63 |
| 7.44 | 65129545 | 560.97 |
| 7.72 | 89306437 | 639.93 |
| 8.02 | 55405416 | 641.54 |
| 8.34 | 100345604 | 555.77 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 114209112 | 531.27 |
| 6.21 | 158030824 | 580.74 |
| 6.36 | 131337334 | 529.08 |
| 6.82 | 88694762 | 518.71 |
| 7.06 | 272407726 | 563.24 |

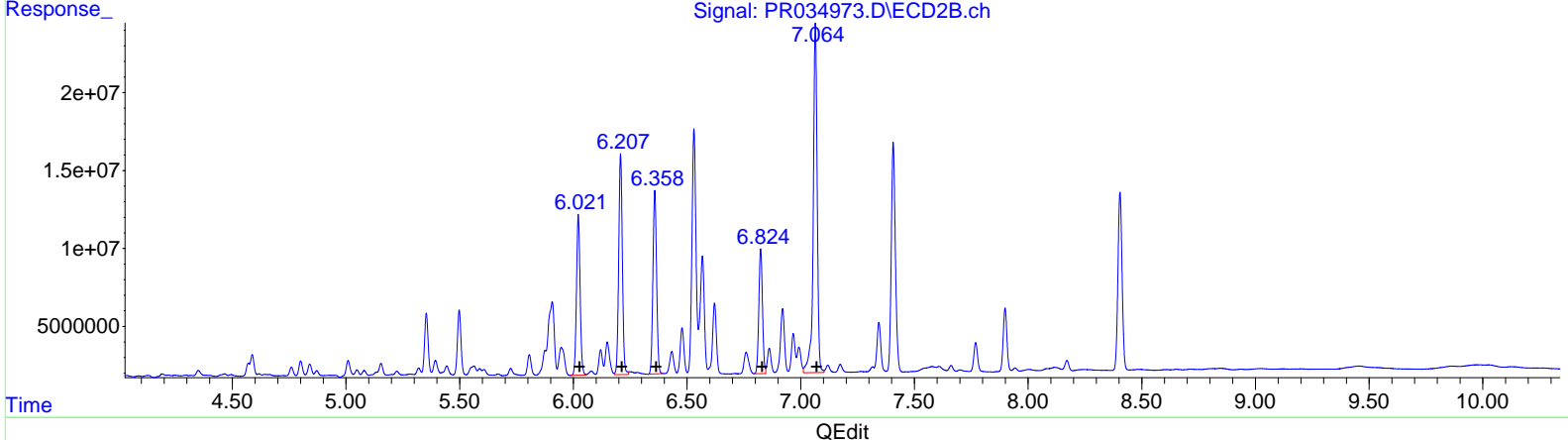
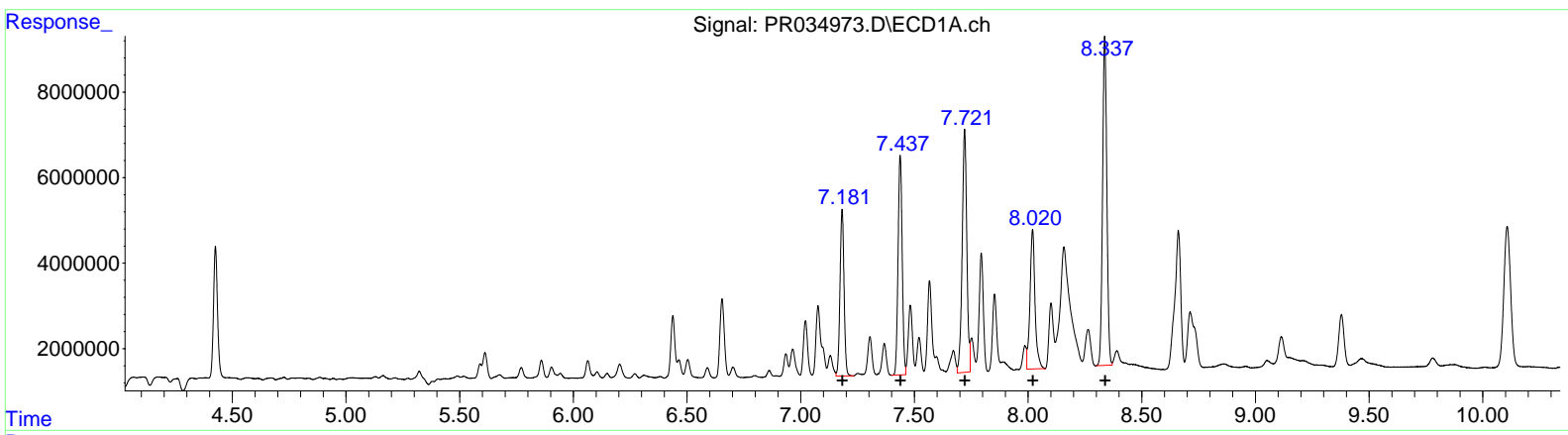
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034973.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 14:10
 Operator : SM\SJ
 Sample : J6432-05
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y4

Manual Integrations
 APPROVED
 Sohil
 12/26/2018 8:08:57 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:39:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 7.18 | 48191072 | 512.63 |
| 7.44 | 65129545 | 560.97 |
| 7.72 | 80719910 | 578.40 |
| 8.02 | 50021184 | 579.19 |
| 8.34 | 100345604 | 555.77 |

| (31) AR-1260-1 #2 (L7) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 6.02 | 114209112 | 531.27 |
| 6.21 | 158030824 | 580.74 |
| 6.36 | 131337334 | 529.08 |
| 6.82 | 88694762 | 518.71 |
| 7.06 | 272407726 | 563.24 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034973.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 14:10
 Operator : SM\SJ
 Sample : J6432-05
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y4

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:39:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED
 Sohil
 12/26/2018 8:08:57 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 37720036 | 72505015 | 19.393 | 20.799 |
| 2) SA Decachlor... | 10.107 | 8.405 | 68265333 | 144.8E6 | 34.724 | 32.924 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.022 | 48191072 | 114.2E6 | 512.627 | 531.274 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 65129545 | 158.0E6 | 560.972 | 580.736 |
| 33) L7 AR-1260-3 | 7.721 | 6.358 | 80719910 | 131.3E6 | 578.403m | 529.083 |
| 34) L7 AR-1260-4 | 8.020 | 6.824 | 50021184 | 88694762 | 579.193m | 518.712 |
| 35) L7 AR-1260-5 | 8.337 | 7.064 | 100.3E6 | 272.4E6 | 555.766 | 563.239 |
| ----- | | | | | | |

} SS
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y5

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-06
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035002.D
 % Solids : 65.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 50 | U |
| 11104-28-2 | Aroclor-1221 | 50 | U |
| 11141-16-5 | Aroclor-1232 | 50 | U |
| 53469-21-9 | Aroclor-1242 | 50 | U |
| 12672-29-6 | Aroclor-1248 | 50 | U |
| 11097-69-1 | Aroclor-1254 | 50 | U |
| 11096-82-5 | Aroclor-1260 | 57 | |
| 37324-23-5 | Aroclor-1262 | 50 | U |
| 11100-14-4 | Aroclor-1268 | 50 | U |

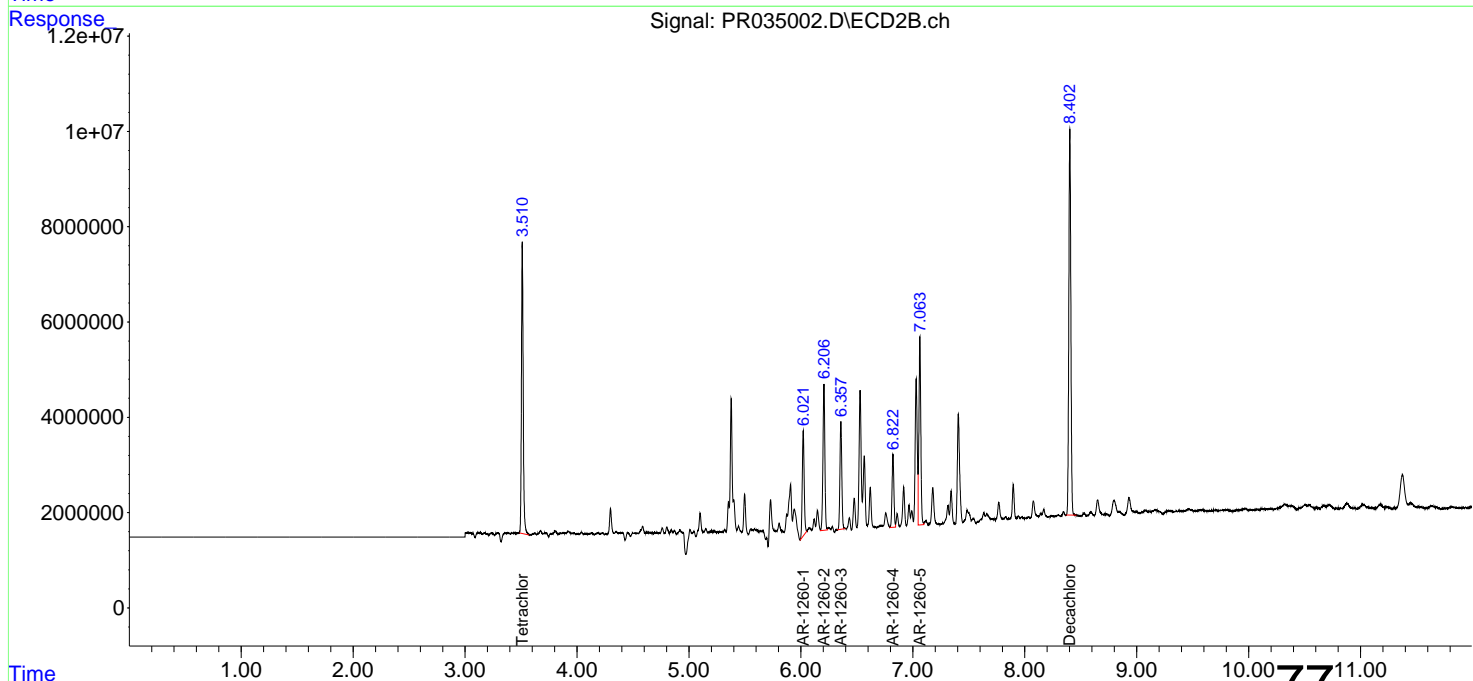
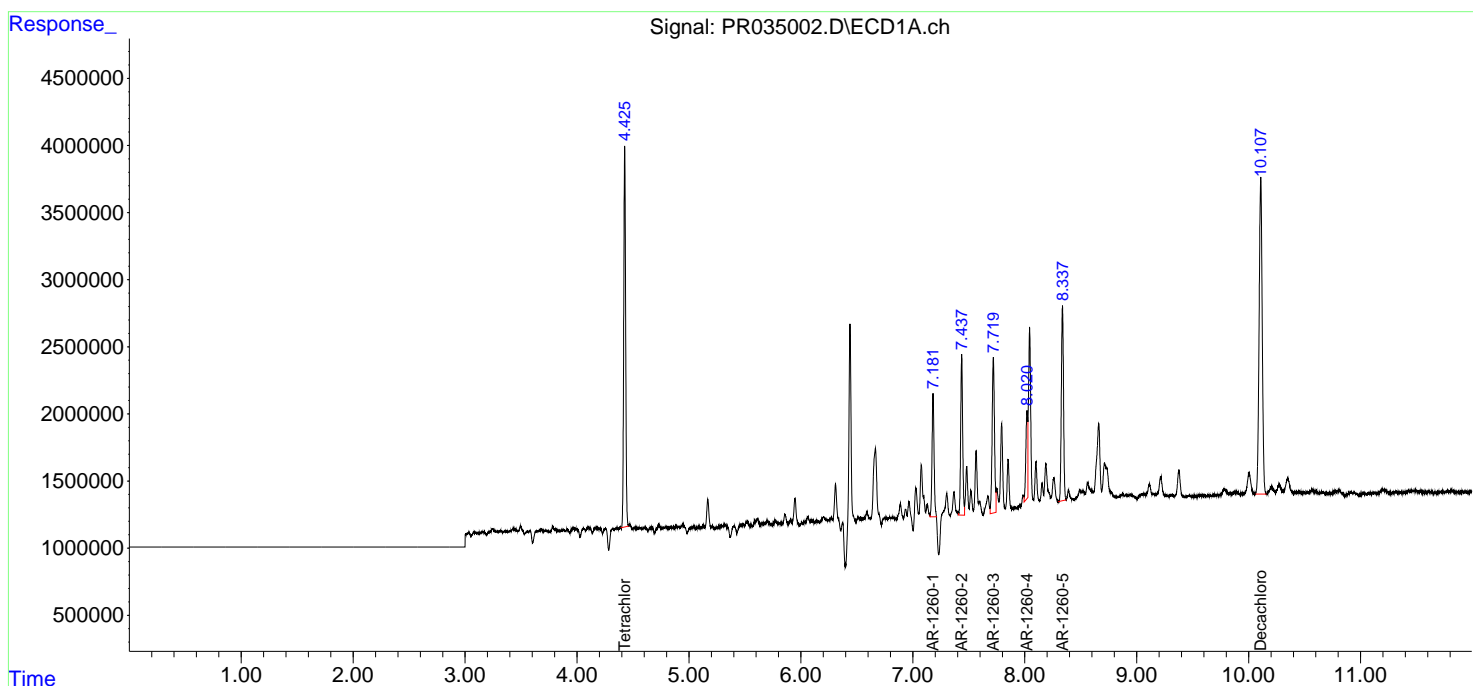
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035002.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:40
 Operator : SM\SJ
 Sample : J6432-06
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y5

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:27 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035002.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:40
 Operator : SM\SJ
 Sample : J6432-06
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y5

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:27 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 33493610 | 67159669 | 17.220 | 19.265 |
| 2) SA Decachlor... | 10.108 | 8.403 | 45226075 | 101.0E6 | 23.005 | 22.981 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 11559427 | 26121079 | 122.962m | 121.509m |
| 32) L7 AR-1260-2 | 7.437 | 6.206 | 14737103 | 36438526 | 126.933 | 133.905m |
| 33) L7 AR-1260-3 | 7.720 | 6.357 | 16790721 | 26407990 | 120.315 | 106.383 |
| 34) L7 AR-1260-4 | 8.020 | 6.823 | 7368713 | 17479362 | 85.322 | 102.224 |
| 35) L7 AR-1260-5 | 8.337 | 7.063 | 19555358 | 46287296 | 108.308 | 95.705 |
| ----- | | | | | | |

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

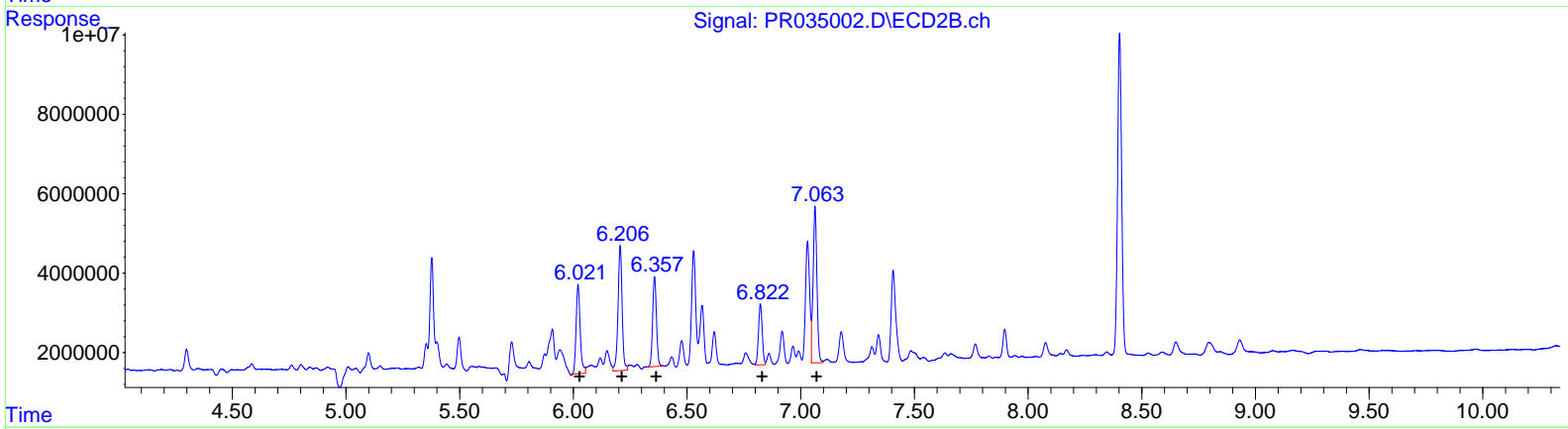
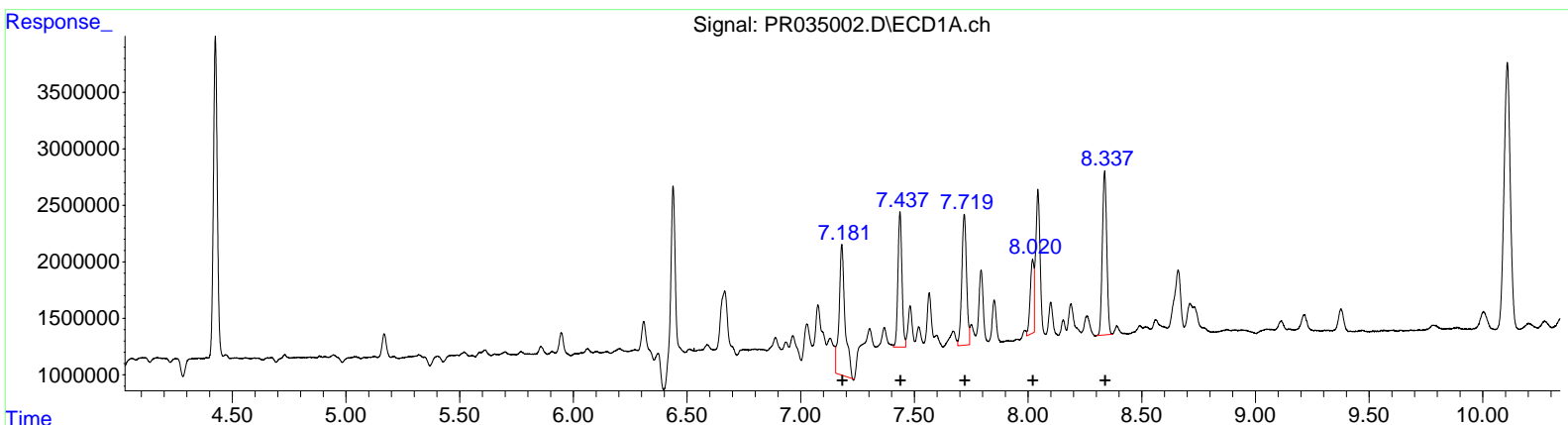
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035002.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:40
 Operator : SM\SJ
 Sample : J6432-06
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y5

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:27 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 20781420 | 221.06 |
| 7.44 | 14737103 | 126.93 |
| 7.72 | 16790721 | 120.31 |
| 8.02 | 7368713 | 85.32 |
| 8.34 | 19555358 | 108.31 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.02 | 27908536 | 129.82 |
| 6.21 | 39680311 | 145.82 |
| 6.36 | 26407990 | 106.38 |
| 6.82 | 17479362 | 102.22 |
| 7.06 | 46287296 | 95.71 |

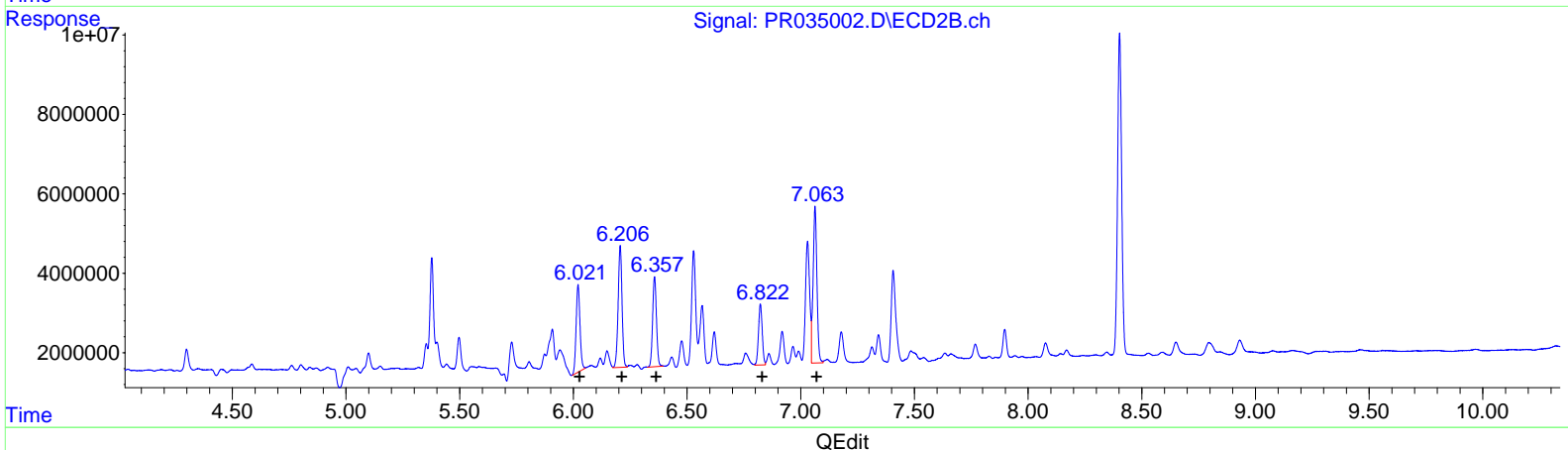
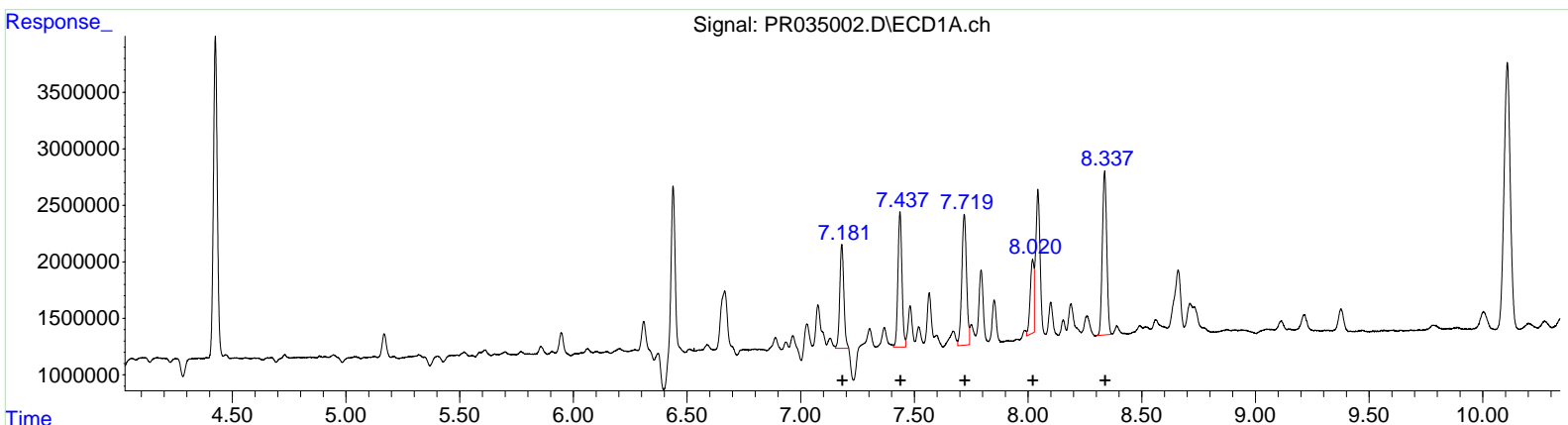
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035002.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:40
 Operator : SM\SJ
 Sample : J6432-06
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y5

Manual Integrations
APPROVED
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 12/26/2018 8:20:27 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 11559427 | 122.96 |
| 7.44 | 14737103 | 126.93 |
| 7.72 | 16790721 | 120.31 |
| 8.02 | 7368713 | 85.32 |
| 8.34 | 19555358 | 108.31 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.02 | 26121079 | 121.51 |
| 6.21 | 36438526 | 133.91 |
| 6.36 | 26407990 | 106.38 |
| 6.82 | 17479362 | 102.22 |
| 7.06 | 46287296 | 95.71 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035002.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:40
 Operator : SM\SJ
 Sample : J6432-06
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Y5

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:27 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 33493610 | 67159669 | 17.220 | 19.265 |
| 2) SA Decachlor... | 10.108 | 8.403 | 45226075 | 101.0E6 | 23.005 | 22.981 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 11559427 | 26121079 | 122.962m | 121.509m |
| 32) L7 AR-1260-2 | 7.437 | 6.206 | 14737103 | 36438526 | 126.933 | 133.905m |
| 33) L7 AR-1260-3 | 7.720 | 6.357 | 16790721 | 26407990 | 120.315 | 106.383 |
| 34) L7 AR-1260-4 | 8.020 | 6.823 | 7368713 | 17479362 | 85.322 | 102.224 |
| 35) L7 AR-1260-5 | 8.337 | 7.063 | 19555358 | 46287296 | 108.308 | 95.705 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y6

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-07
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035003.D
 % Solids : 81.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 40 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 8100 | EC |
| 37324-23-5 | Aroclor-1262 | 40 | U |
| 11100-14-4 | Aroclor-1268 | 40 | U |

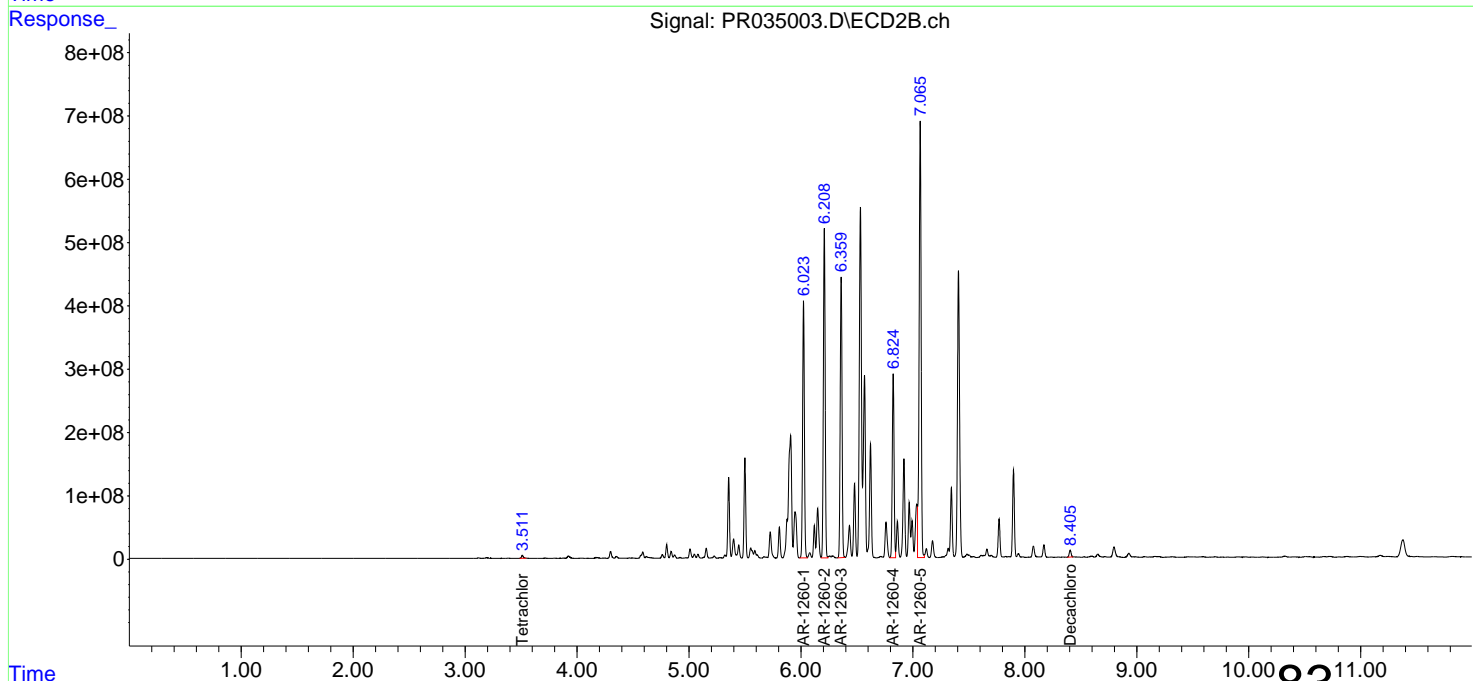
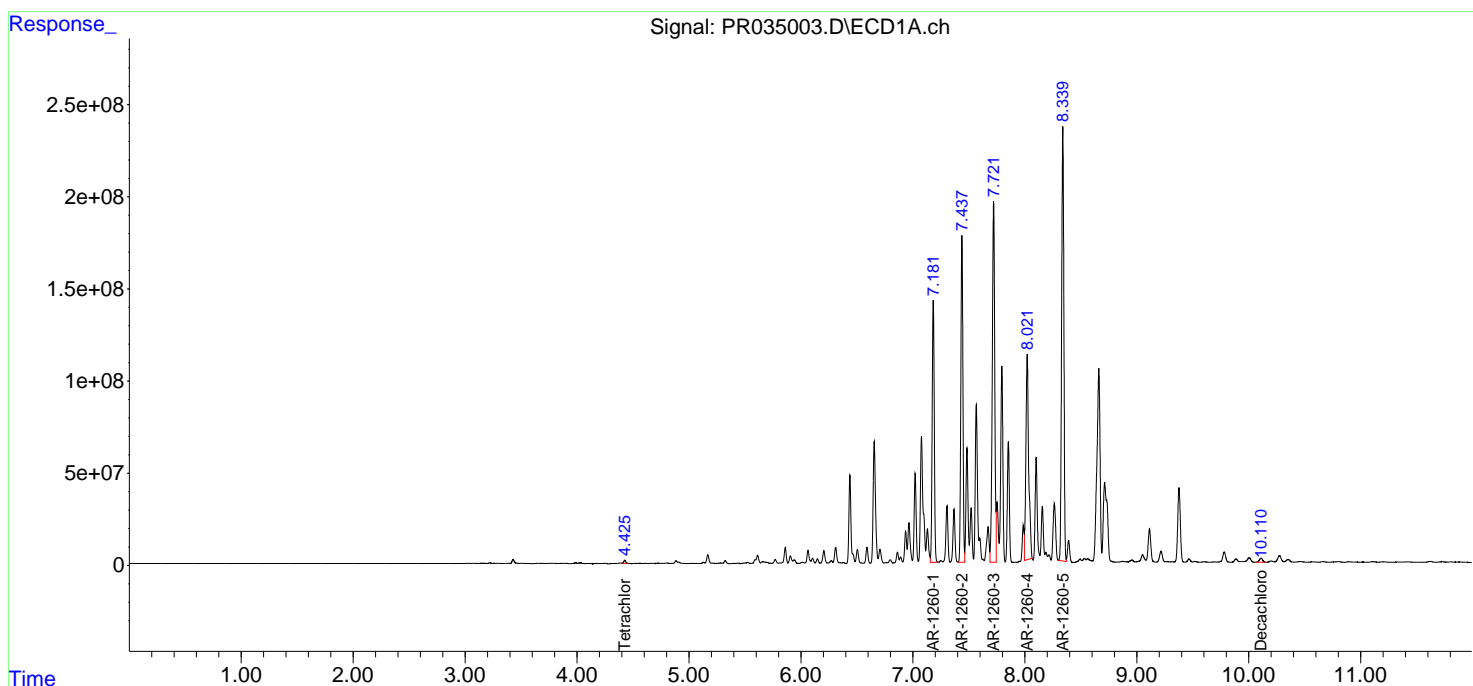
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 Data File : PR035003.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:54
 Operator : SM\SJ
 Sample : J6432-07
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:29 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035003.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:54
 Operator : SM\SJ
 Sample : J6432-07
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:29 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 20831970 | 48987203 | 10.710m | 14.052m# |
| 2) SA Decachlor... | 10.109 | 8.405 | 45200868 | 126.6E6 | 22.992 | 28.795m# |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.023 | 1863.3E6 | 4492.3E6 | 19820.903 | 20897.153 |
| 32) L7 AR-1260-2 | 7.438 | 6.209 | 2285.3E6 | 5831.2E6 | 19683.633 | 21428.512 |
| 33) L7 AR-1260-3 | 7.721 | 6.359 | 2993.8E6 | 5047.0E6 | 21452.242 | 20331.359 |
| 34) L7 AR-1260-4 | 8.022 | 6.824 | 1934.3E6 | 3239.4E6 | 22396.643 | 18944.740 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 3303.8E6 | 8568.8E6 | 18298.131 | 17717.207 |
| ----- | | | | | | |

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

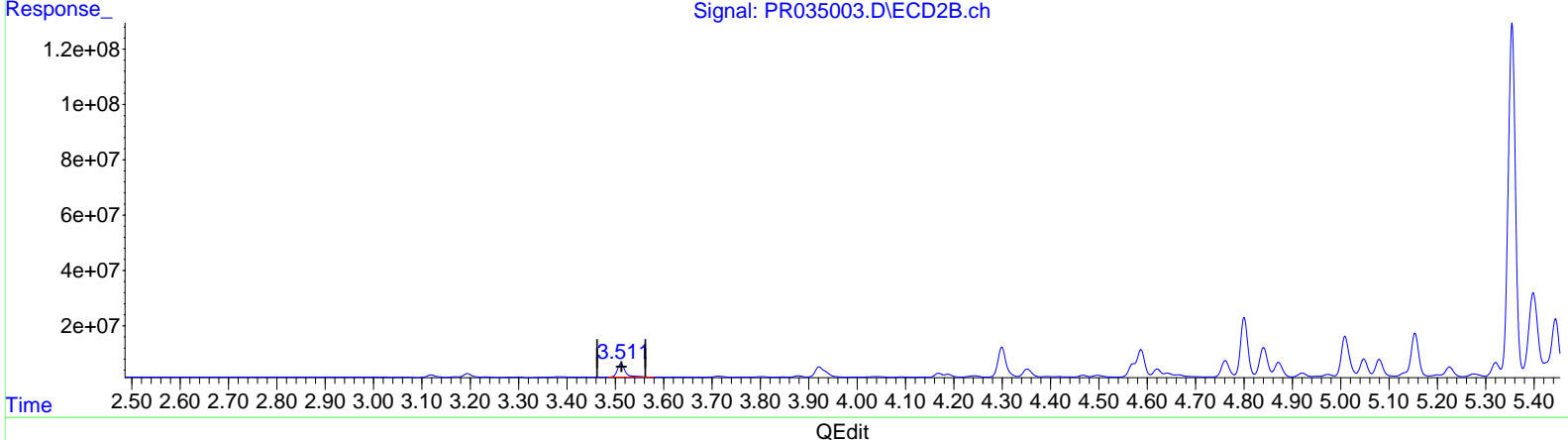
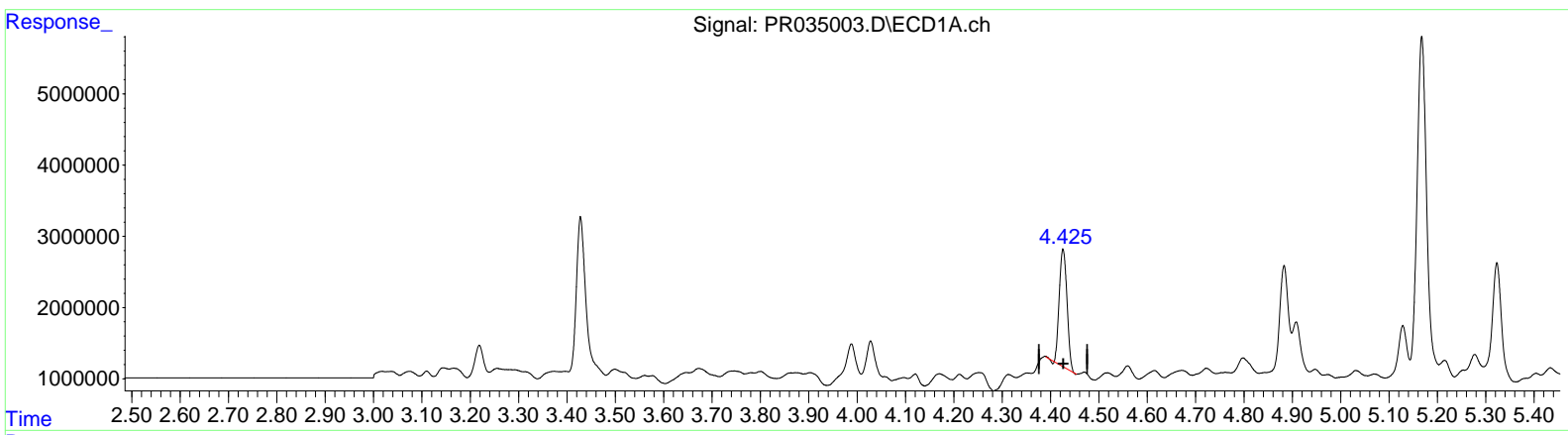
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035003.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:54
 Operator : SM\SJ
 Sample : J6432-07
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:29 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 9.476 ng/ml
 response 18431450

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 16.139 ng/ml
 response 56260222

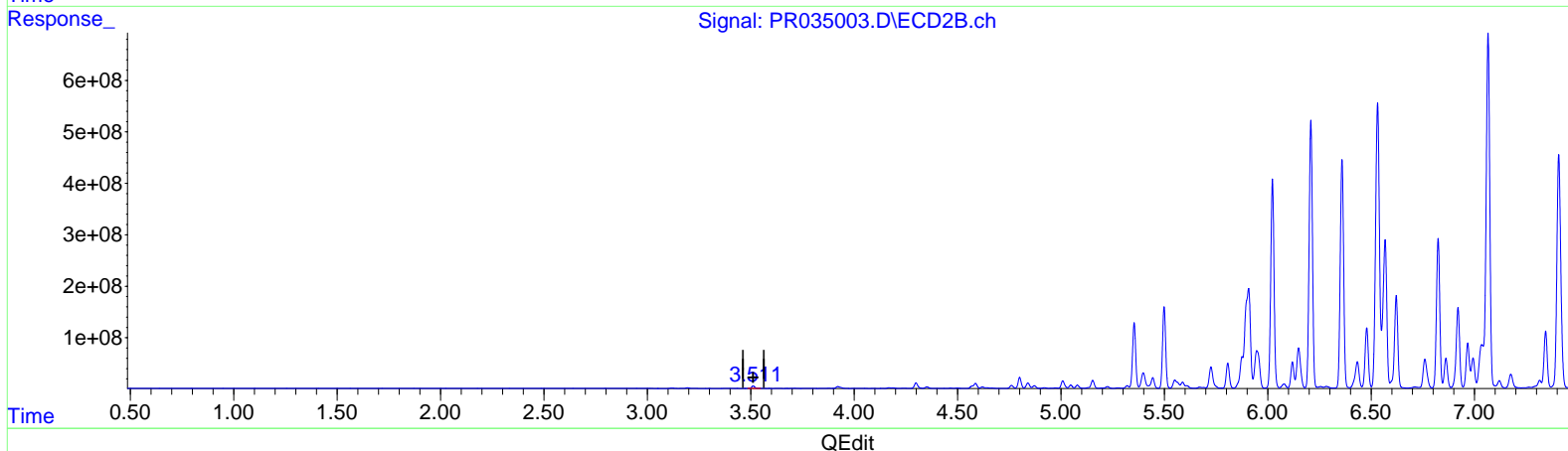
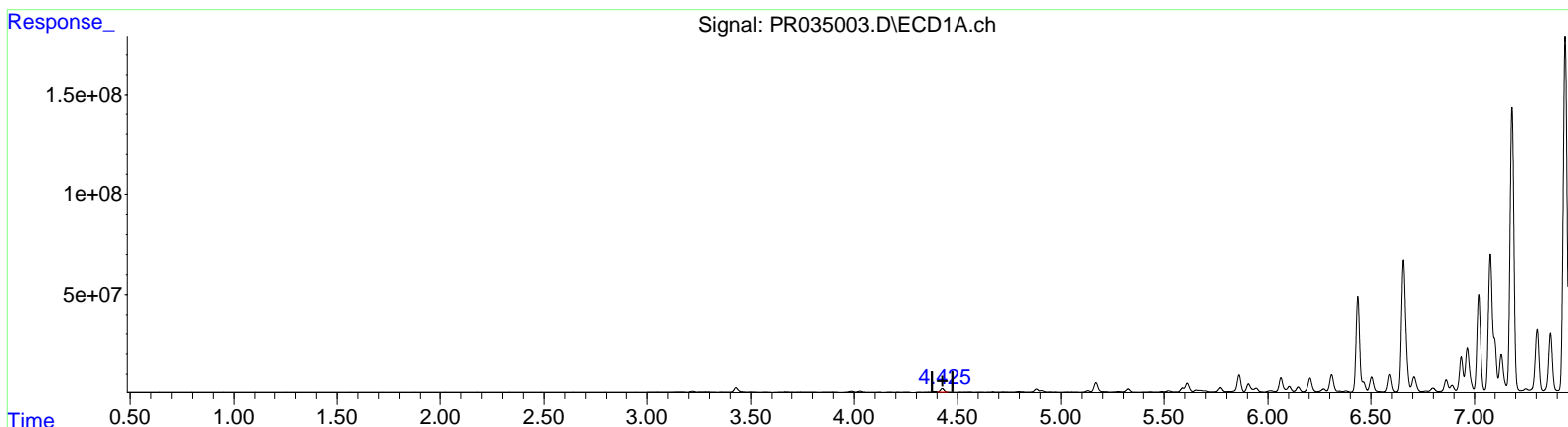
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035003.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:54
 Operator : SM\SJ
 Sample : J6432-07
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:29 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.425min 10.710 ng/ml m

response 20831970

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 14.052 ng/ml m

response 48987203

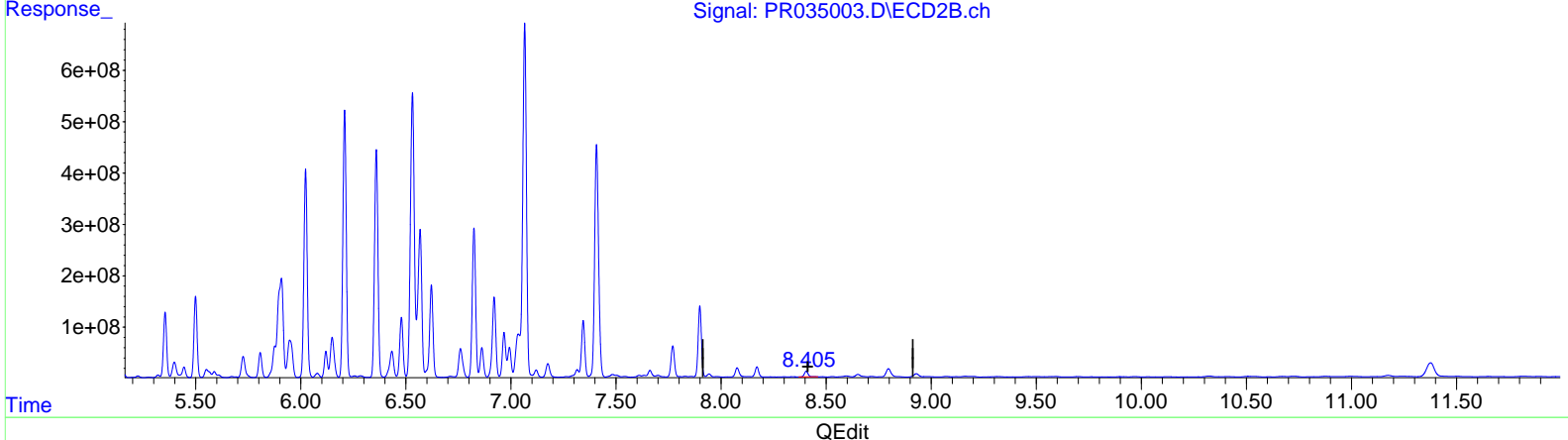
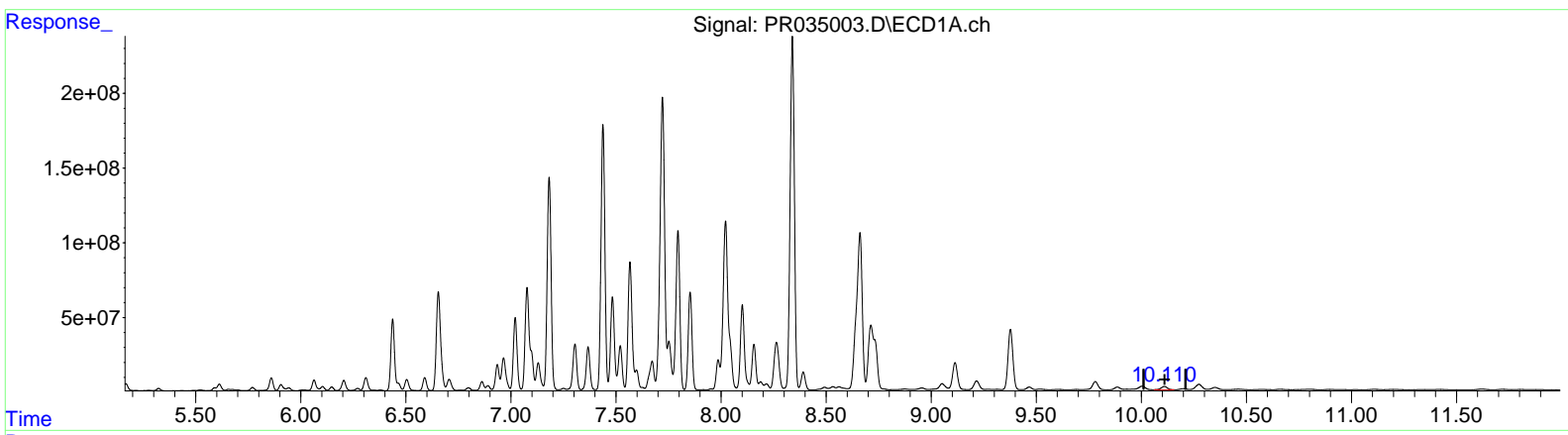
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
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 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:54
 Operator : SM\SJ
 Sample : J6432-07
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:29 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.109min 22.992 ng/ml
 response 45200868

(2) Decachlorobiphenyl #2 (SA)
 8.405min 31.123 ng/ml
 response 136837360

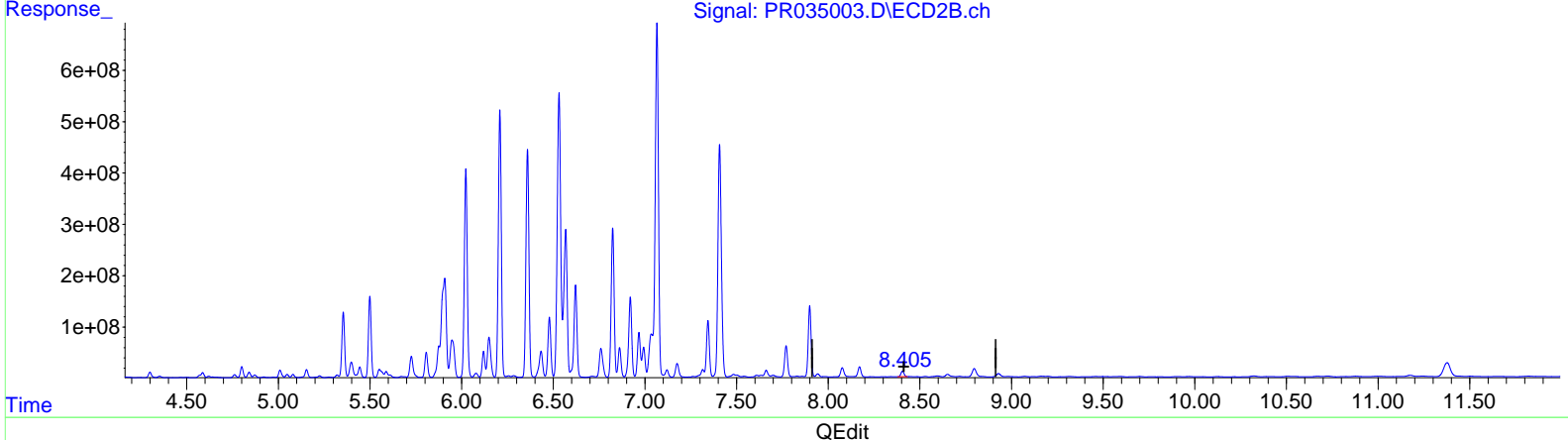
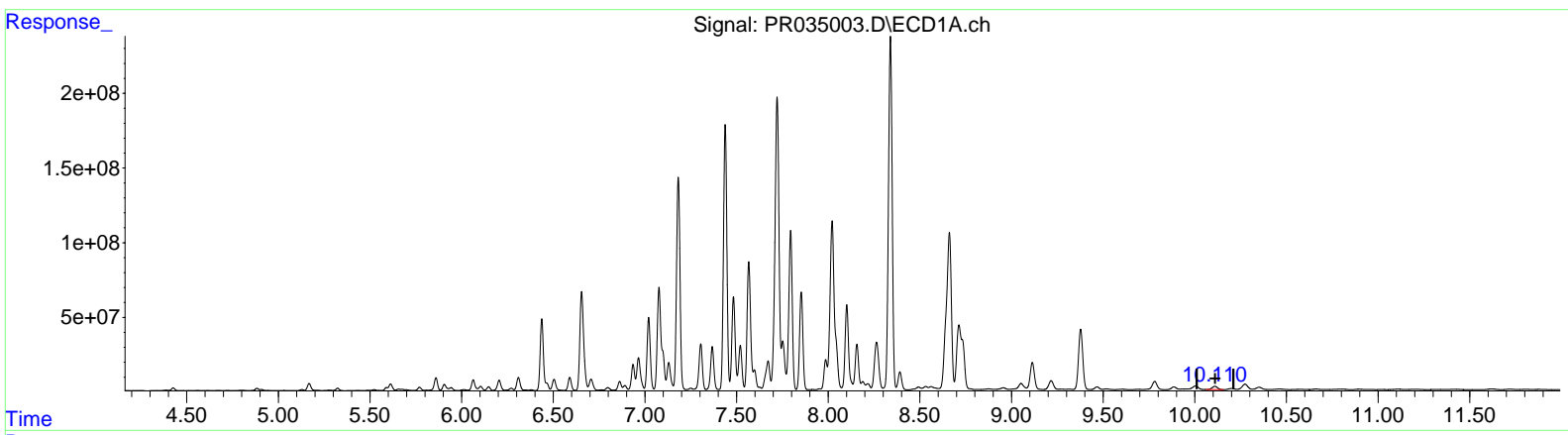
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035003.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:54
 Operator : SM\SJ
 Sample : J6432-07
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:29 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.109min 22.992 ng/ml
 response 45200868

(2) Decachlorobiphenyl #2 (SA)
 8.405min 28.795 ng/ml m
 response 126602482

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035003.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:54
 Operator : SM\SJ
 Sample : J6432-07
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Y6

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:40:54 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:29 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 20831970 | 48987203 | 10.710m | 14.052m# |
| 2) SA Decachlor... | 10.109 | 8.405 | 45200868 | 126.6E6 | 22.992 | 28.795m# |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.023 | 1863.3E6 | 4492.3E6 | 19820.903 | 20897.153 |
| 32) L7 AR-1260-2 | 7.438 | 6.209 | 2285.3E6 | 5831.2E6 | 19683.633 | 21428.512 |
| 33) L7 AR-1260-3 | 7.721 | 6.359 | 2993.8E6 | 5047.0E6 | 21452.242 | 20331.359 |
| 34) L7 AR-1260-4 | 8.022 | 6.824 | 1934.3E6 | 3239.4E6 | 22396.643 | 18944.740 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 3303.8E6 | 8568.8E6 | 18298.131 | 17717.207 |
| ----- | | | | | | |

} SJ
 12/28/18

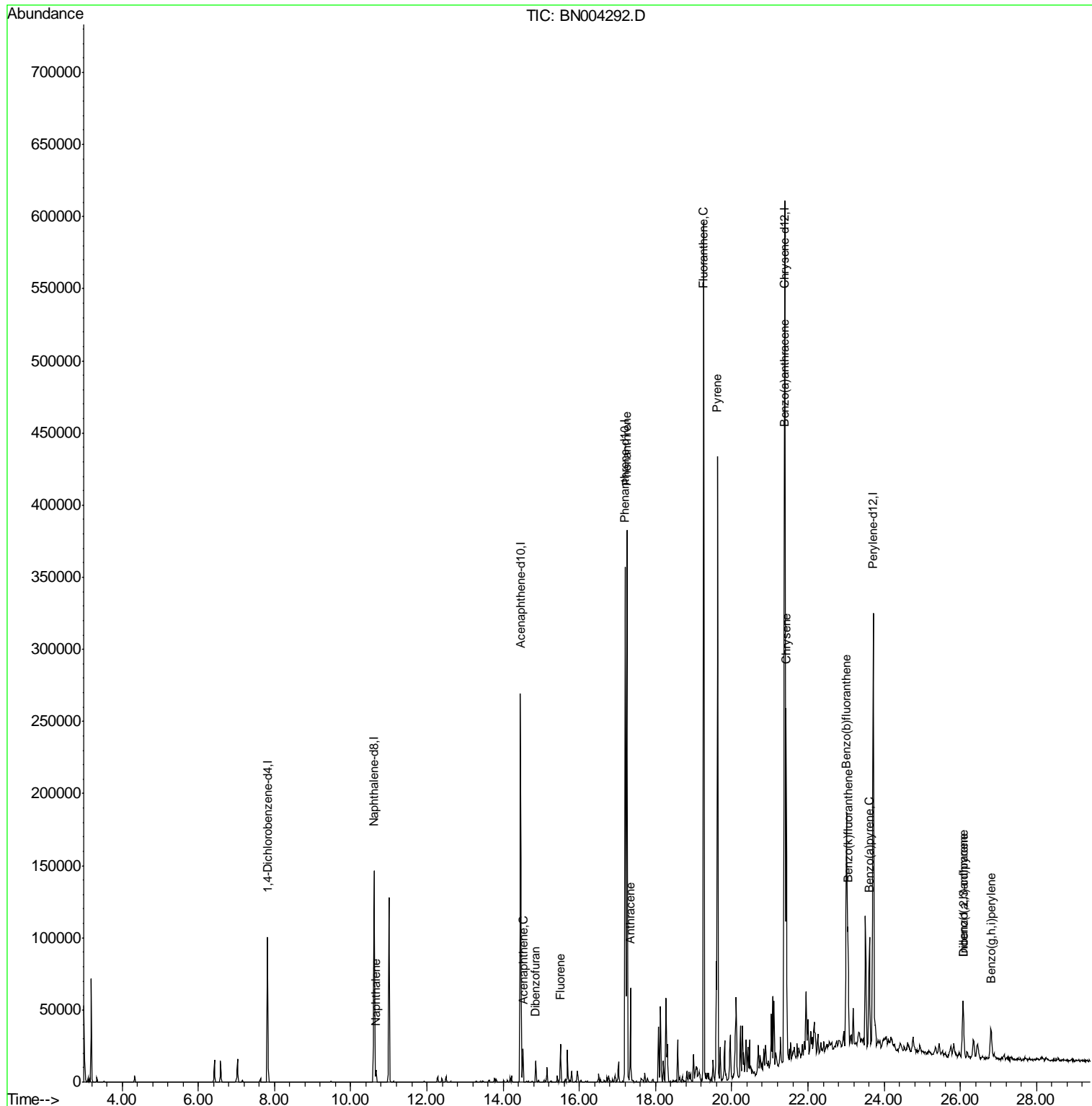
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

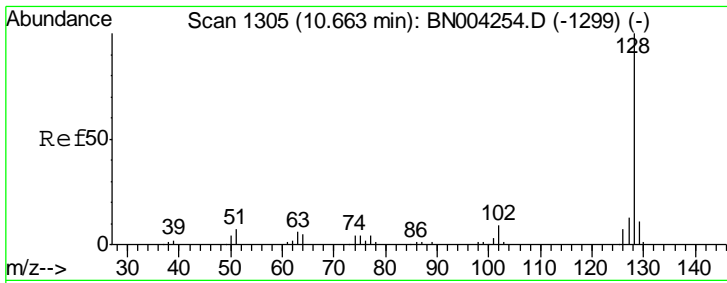
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 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41Y6

Manual Integrations
 APPROVED
 Sohil
 1/2/2019 3:42:02 PM

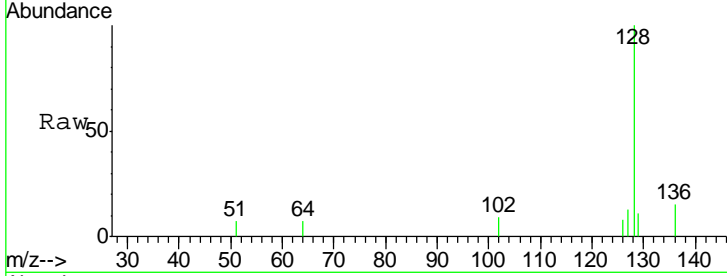
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 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration





#28
 Naphthalene
 Concen: 1.122 ng/ul
 RT: 10.66 min Scan# 1305
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

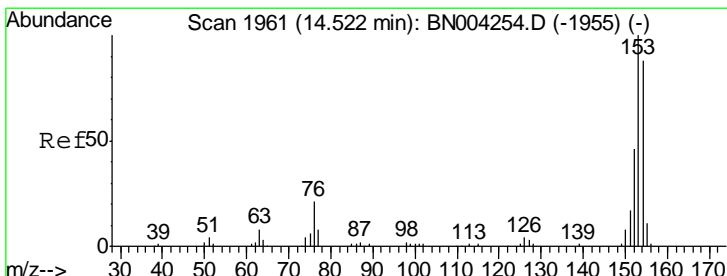
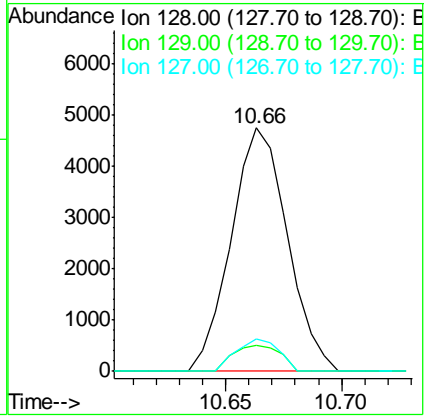
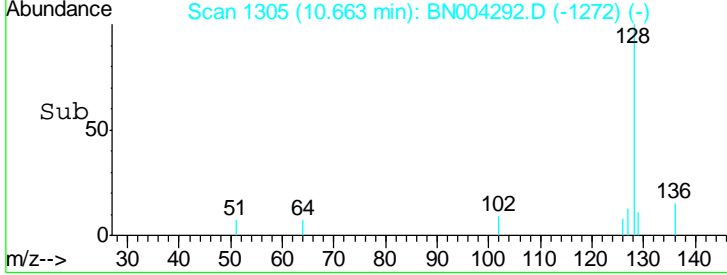
Instrument :
 BNA_N
ClientSampled :
 A41Y6



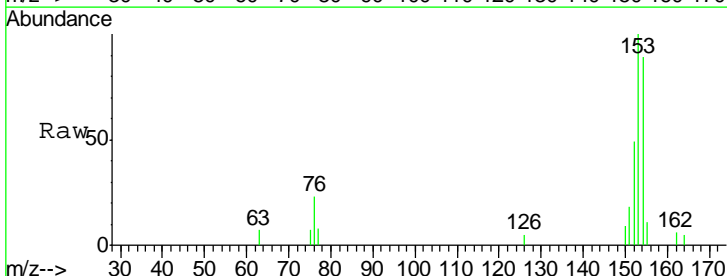
Tgt Ion: 128 Resp: 8054

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100 | | |
| 129 | 10.9 | 8.6 | 12.8 |
| 127 | 13.3 | 10.6 | 16.0 |

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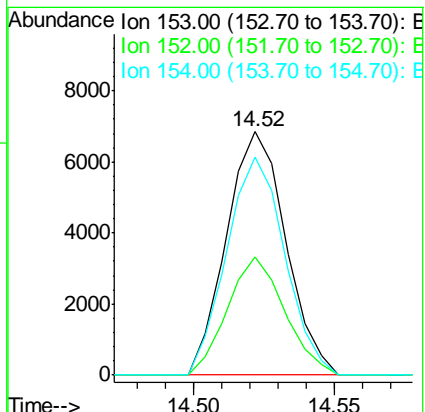
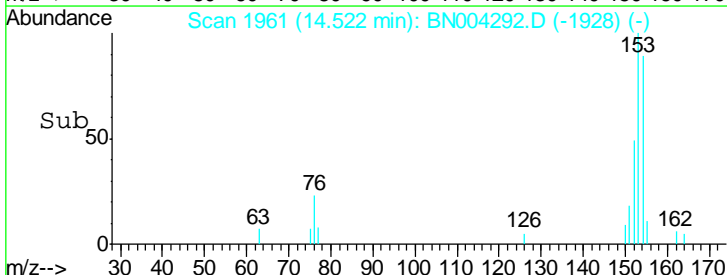


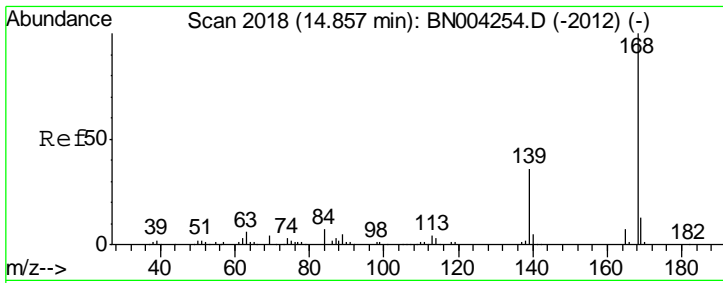
#49
 Acenaphthene
 Concen: 1.548 ng/ul
 RT: 14.52 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42



Tgt Ion: 153 Resp: 9992

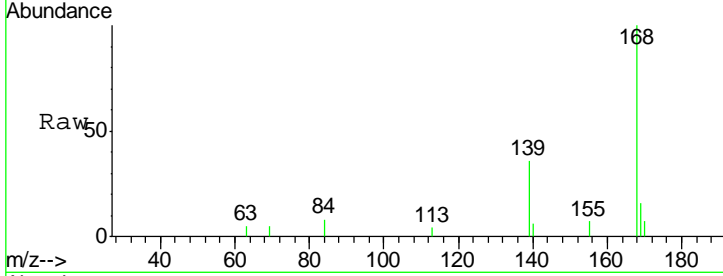
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 153 | 100 | | |
| 152 | 48.7 | 37.8 | 56.6 |
| 154 | 89.4 | 71.0 | 106.6 |





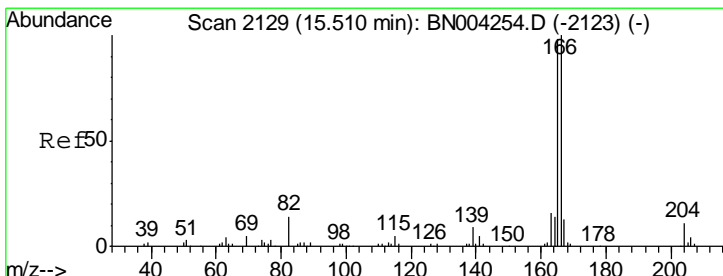
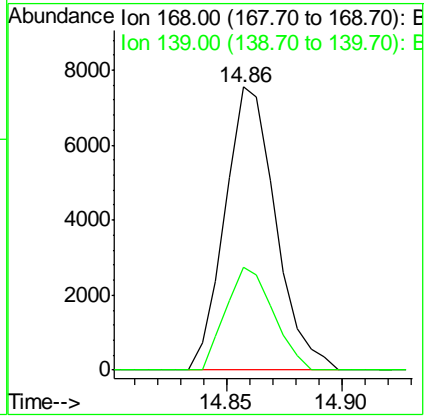
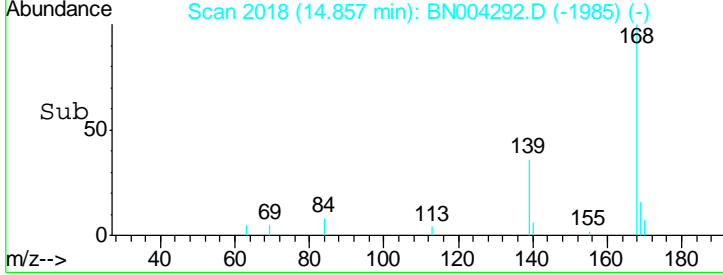
#53
 Dibenzofuran
 Concen: 1.263 ng/ul
 RT: 14.86 min Scan# 2018
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

Instrument :
 BNA_N
 ClientSampled :
 A41Y6

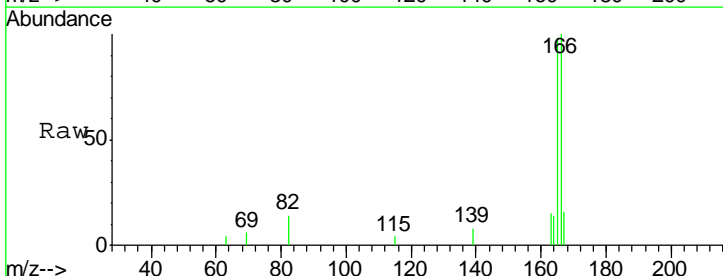


Tgt Ion:168 Resp: 11572
 Ion Ratio Lower Upper
 168 100
 139 36.1 28.8 43.2

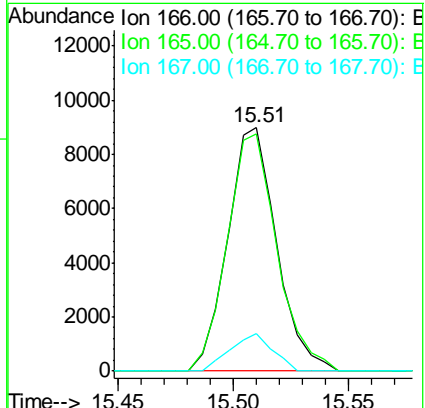
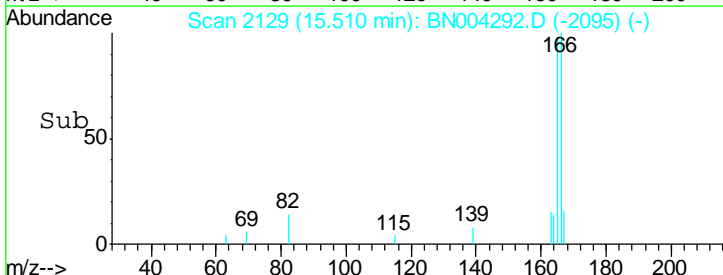
Manual Integrations
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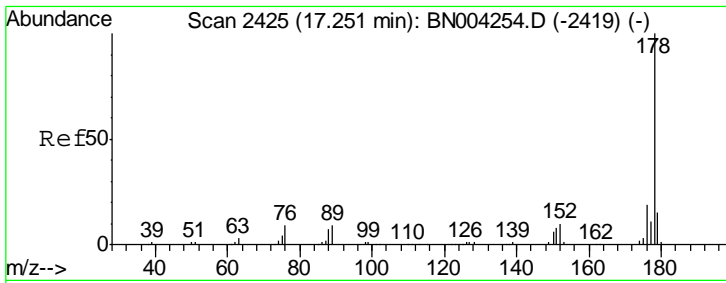


#58
 Fluorene
 Concen: 1.736 ng/ul
 RT: 15.51 min Scan# 2129
 Delta R.T. -0.00 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42



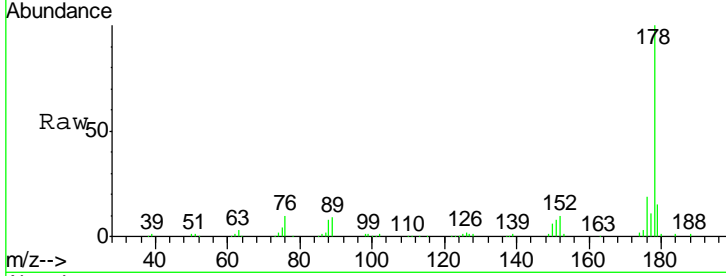
Tgt Ion:166 Resp: 13244
 Ion Ratio Lower Upper
 166 100
 165 97.6 78.6 117.8
 167 15.5 10.3 15.5#





#69
 Phenanthrene
 Concen: 19.766 ng/ul
 RT: 17.25 min Scan# 2424
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

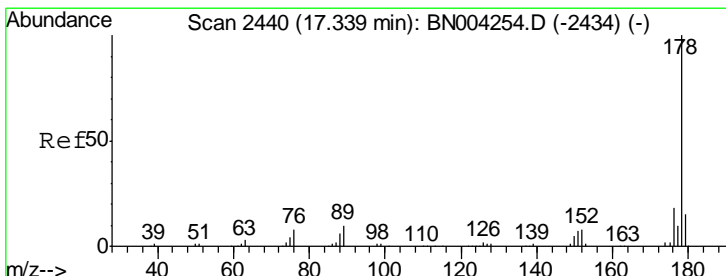
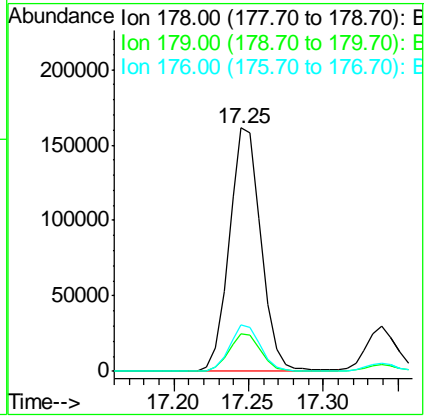
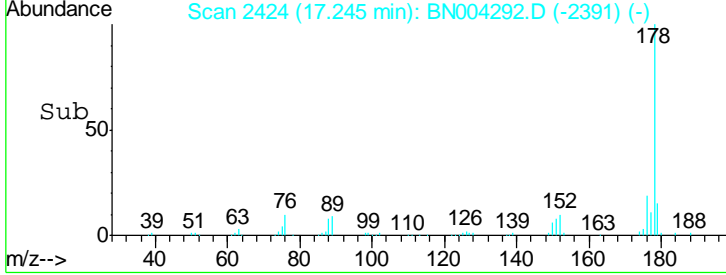
Instrument :
 BNA_N
 ClientSampled :
 A41Y6



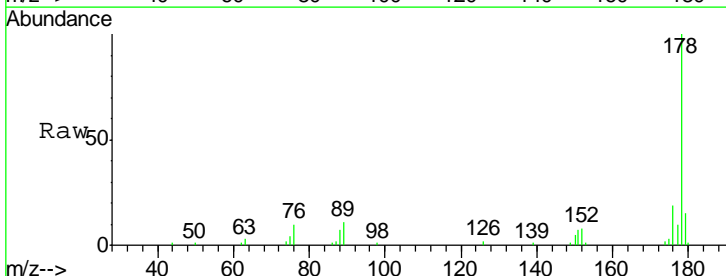
Tgt Ion:178 Resp: 240316

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.4 | 12.1 | 18.1 |
| 176 | 19.1 | 15.0 | 22.6 |

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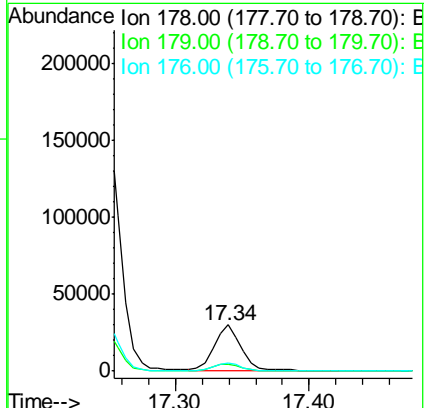
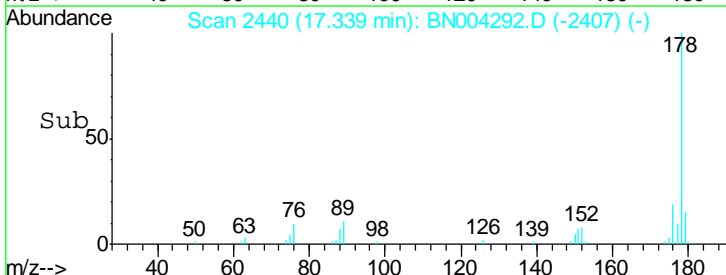


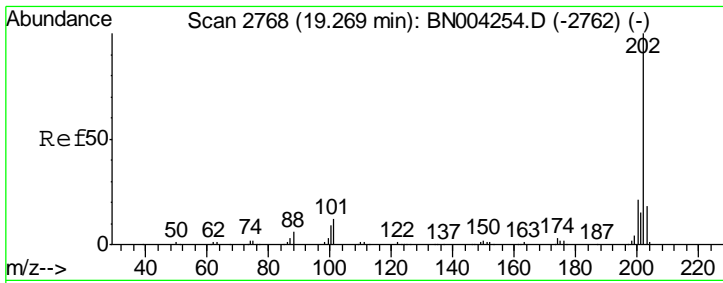
#71
 Anthracene
 Concen: 3.429 ng/ul
 RT: 17.34 min Scan# 2440
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42



Tgt Ion:178 Resp: 42729

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100 | | |
| 179 | 15.4 | 12.1 | 18.1 |
| 176 | 18.5 | 15.2 | 22.8 |



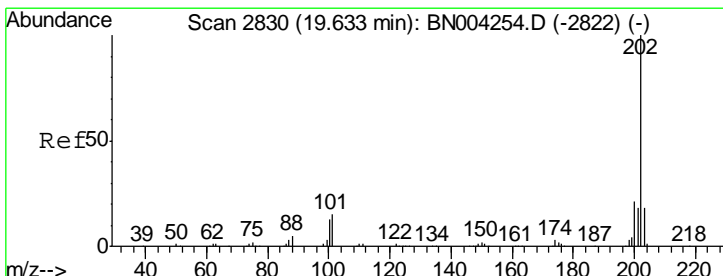
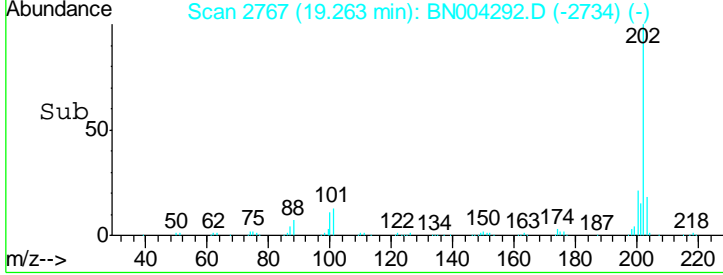
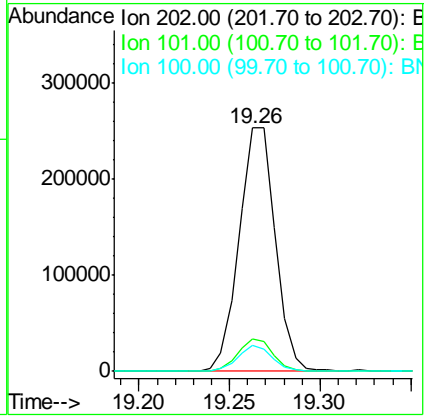
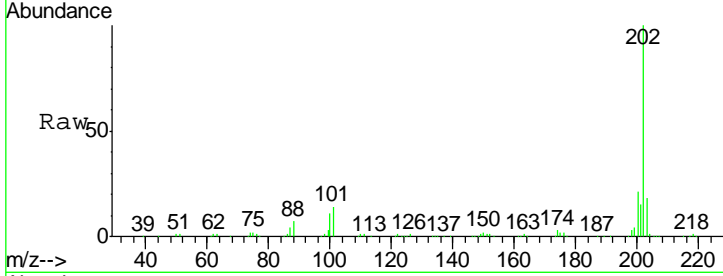


#76
 Fluoranthene
 Concen: 23.628 ng/ul
 RT: 19.26 min Scan# 2767
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

Instrument :
 BNA_N
 ClientSampled :
 A41Y6

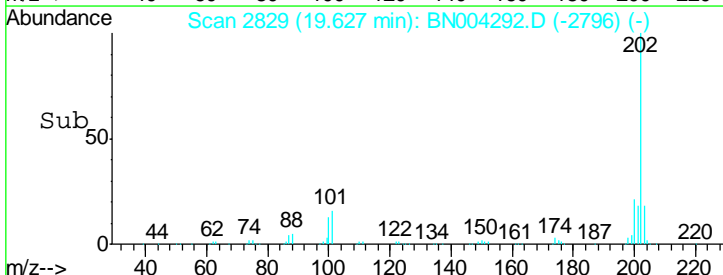
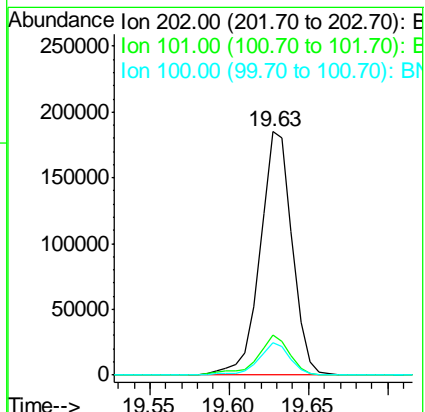
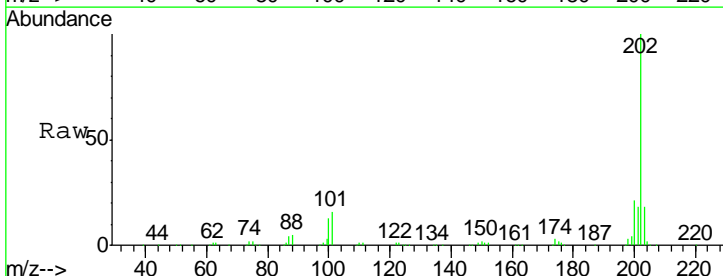
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 13.6 | 10.2 | 15.2 |
| 100 | 10.5 | 7.8 | 11.8 |

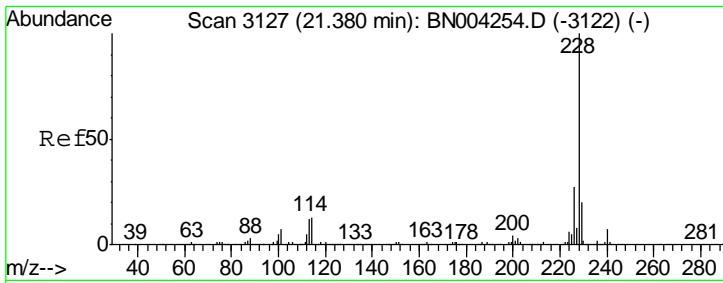
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#79
 Pyrene
 Concen: 19.710 ng/ul
 RT: 19.63 min Scan# 2829
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 16.2 | 12.2 | 18.2 |
| 100 | 13.2 | 9.9 | 14.9 |



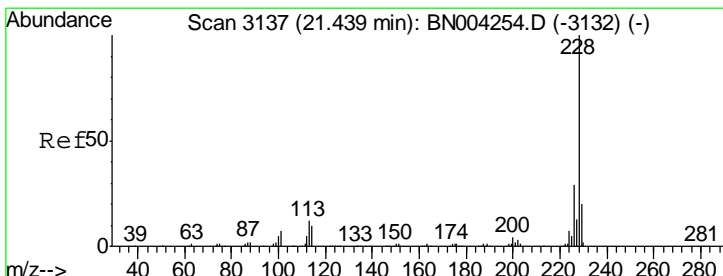
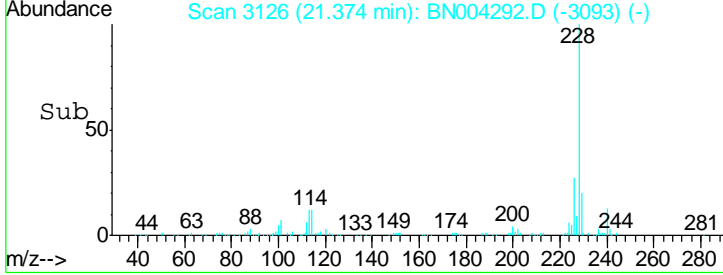
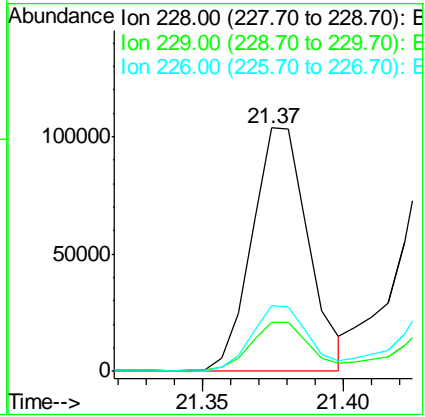
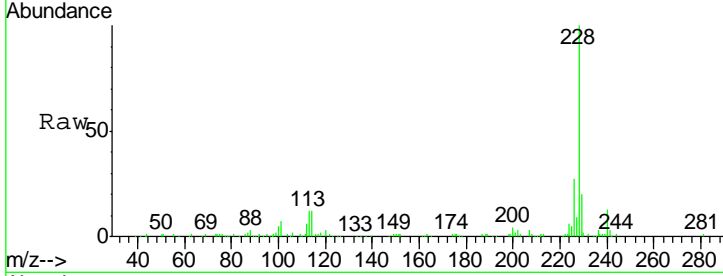


#82
 Benzo(a)anthracene
 Concen: 9.743 ng/ul
 RT: 21.37 min Scan# 3126
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

Instrument :
 BNA_N
 ClientSampled :
 A41Y6

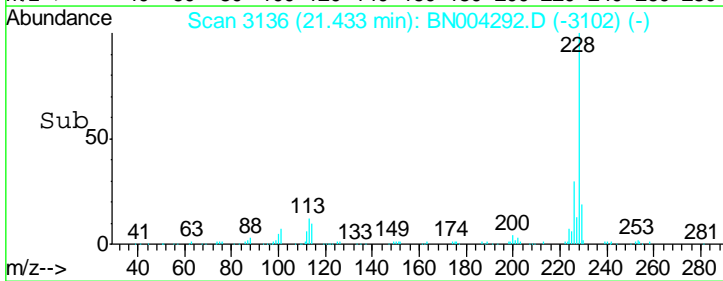
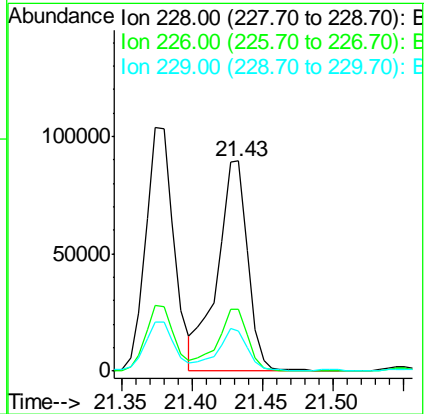
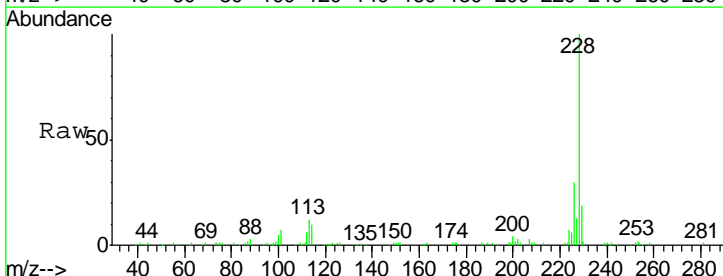
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 143893 | | |
| 229 | 20.3 | 15.9 | 23.9 |
| 226 | 27.0 | 21.4 | 32.2 |

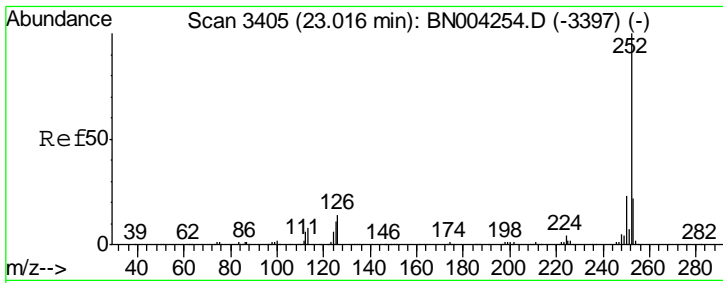
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#84
 Chrysene
 Concen: 9.785 ng/ul
 RT: 21.43 min Scan# 3136
 Delta R.T. -0.00 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 228 | 135357 | | |
| 226 | 29.6 | 23.8 | 35.8 |
| 229 | 19.2 | 15.8 | 23.6 |





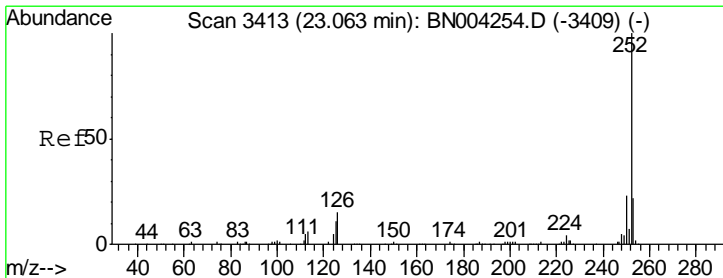
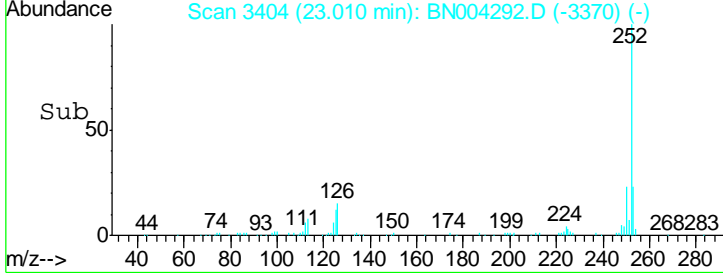
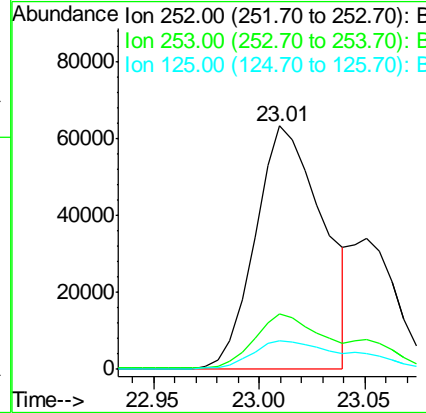
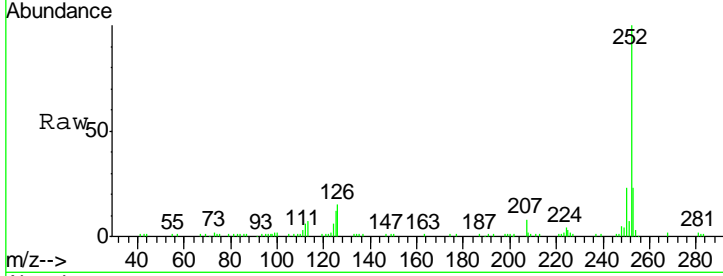
#87
 Benzo(b)fluoranthene
 Concen: 10.665 ng/ul
 RT: 23.01 min Scan# 3404
 Delta R.T. -0.00 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

Instrument :
 BNA_N
 ClientSampled :
 A41Y6

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 252 | 141241 | | |
| 253 | 22.7 | 17.3 | 25.9 |
| 125 | 11.7 | 8.2 | 12.4 |

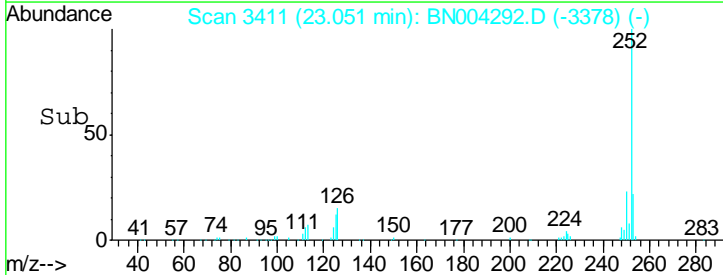
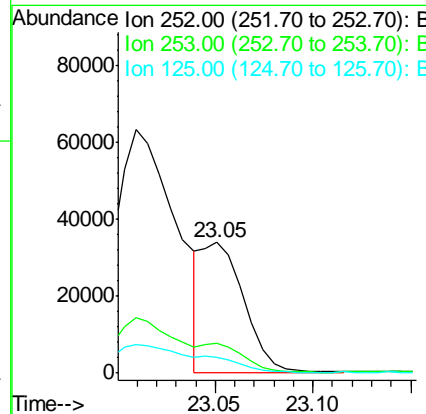
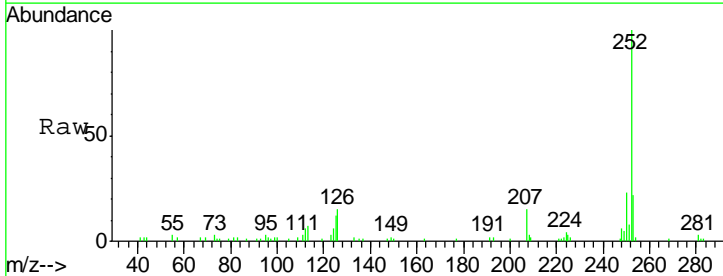
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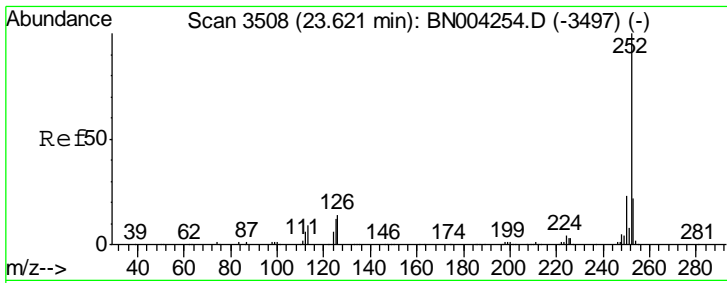
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#88
 Benzo(k)fluoranthene
 Concen: 4.143 ng/ul m
 RT: 23.05 min Scan# 3411
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

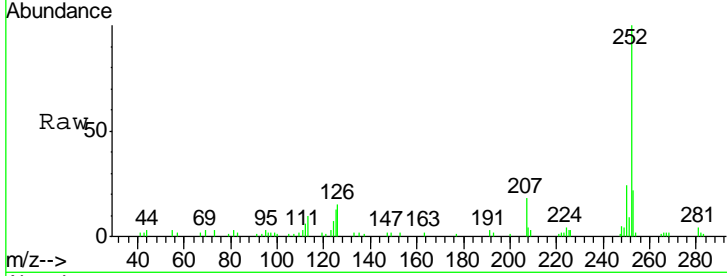
| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 252 | 51377 | | |
| 253 | 22.4 | 17.1 | 25.7 |
| 125 | 12.4 | 7.9 | 11.9# |





#90
 Benzo(a)pyrene
 Concen: 4.459 ng/ul
 RT: 23.61 min Scan# 3506
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

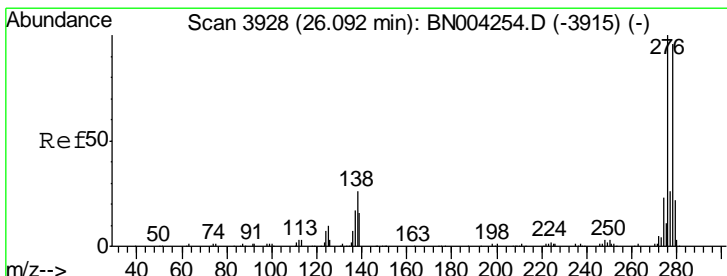
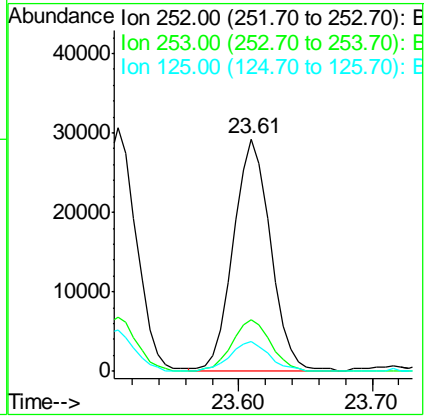
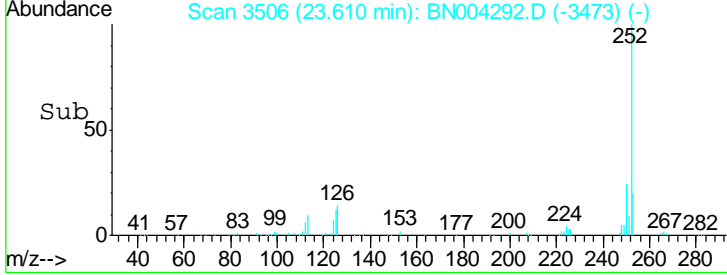
Instrument :
 BNA_N
 ClientSampled :
 A41Y6



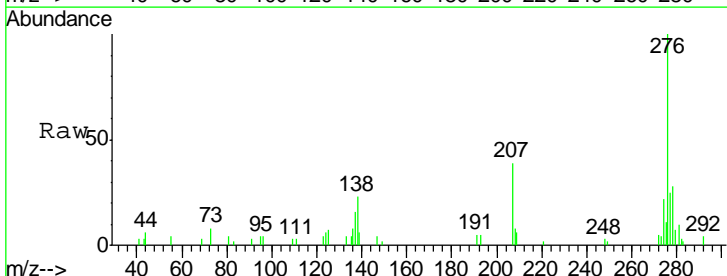
Tgt Ion: 252 Resp: 56876

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100 | | |
| 253 | 22.4 | 17.5 | 26.3 |
| 125 | 12.7 | 9.1 | 13.7 |

Manual Integrations
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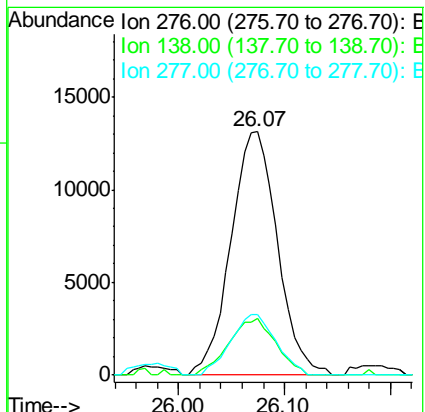
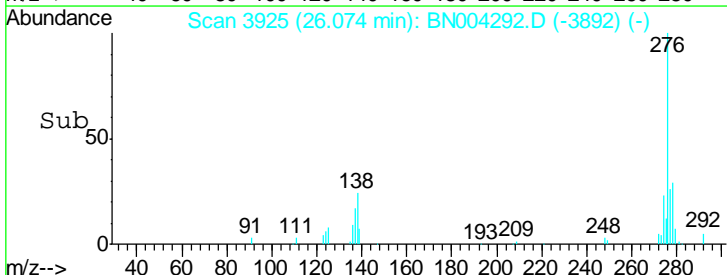


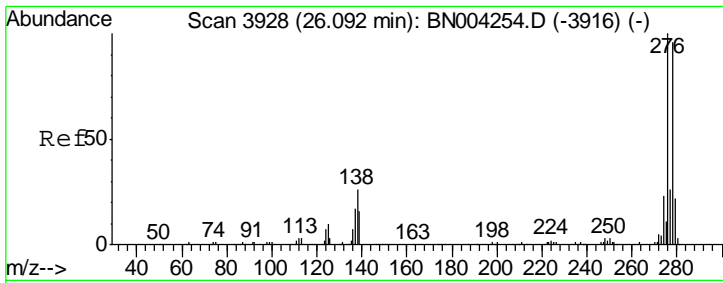
#91
 Indeno(1,2,3-cd)pyrene
 Concen: 2.413 ng/ul
 RT: 26.07 min Scan# 3925
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42



Tgt Ion: 276 Resp: 40120

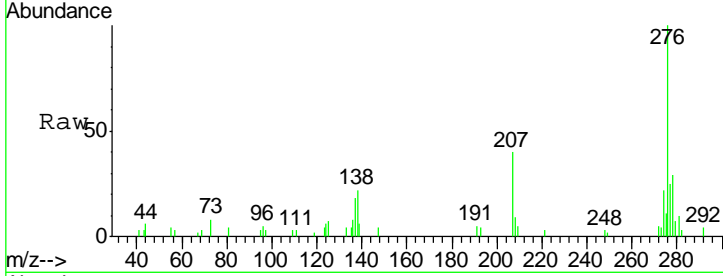
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100 | | |
| 138 | 23.3 | 20.4 | 30.6 |
| 277 | 24.8 | 20.6 | 30.8 |





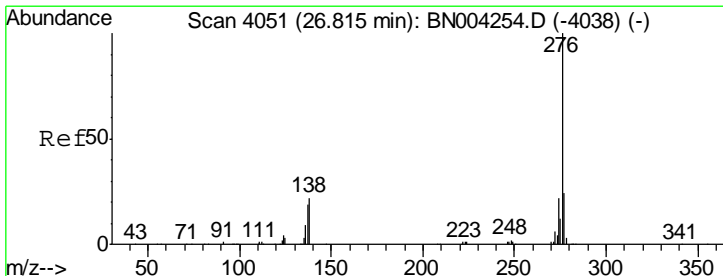
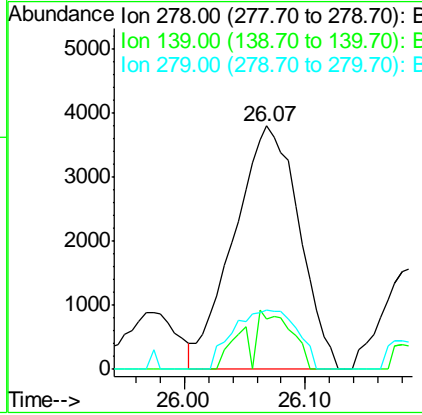
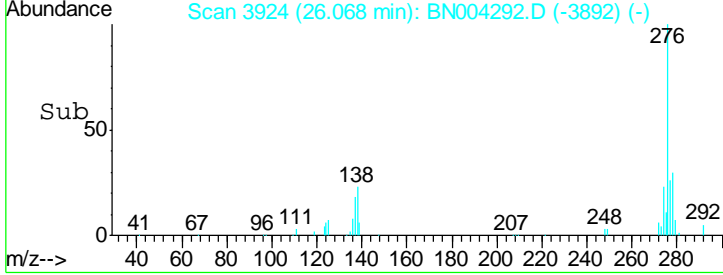
#92
 Dibenzo(a,h)anthracene
 Concen: 1.029 ng/ul
 RT: 26.07 min Scan# 3924
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42

Instrument :
 BNA_N
 ClientSampled :
 A41Y6

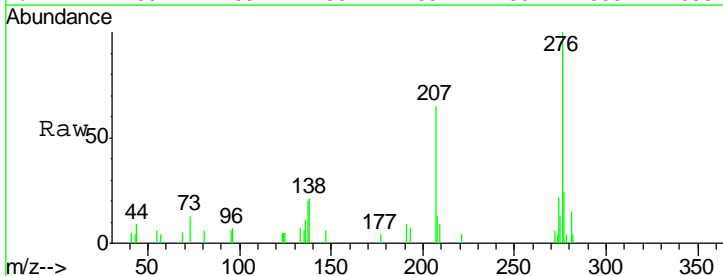


| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 278 | 14215 | | |
| 278 | 100 | | |
| 139 | 20.8 | 13.3 | 19.9# |
| 279 | 24.4 | 19.0 | 28.6 |

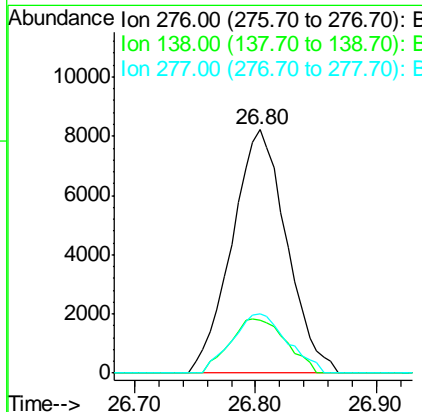
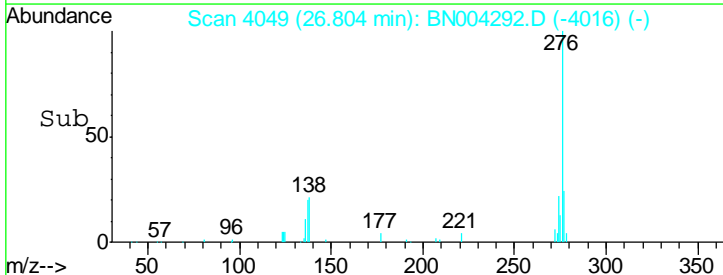
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#93
 Benzo(g,h,i)perylene
 Concen: 1.860 ng/ul
 RT: 26.80 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: BN004292.D
 Acq: 29 Dec 2018 09:42



| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 276 | 25888 | | |
| 276 | 100 | | |
| 138 | 21.5 | 18.2 | 27.4 |
| 277 | 24.5 | 19.0 | 28.6 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41Y6

Manual Integrations
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Quant Time: Dec 30 23:22:12 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 28794 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.61 | 136 | 133811 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 89854 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.20 | 188 | 210425 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.39 | 240 | 236842 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 221083 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0 | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 28) Naphthalene | 10.66 | 128 | 8054 | 1.122 ng/ul | 100 |
| 49) Acenaphthene | 14.52 | 153 | 9992 | 1.548 ng/ul | 99 |
| 53) Dibenzofuran | 14.86 | 168 | 11572 | 1.263 ng/ul | 100 |
| 58) Fluorene | 15.51 | 166 | 13244 | 1.736 ng/ul# | 99 |
| 69) Phenanthrene | 17.25 | 178 | 240316 | 19.766 ng/ul | 99 |
| 71) Anthracene | 17.34 | 178 | 42729 | 3.429 ng/ul | 99 |
| 76) Fluoranthene | 19.26 | 202 | 352122 | 23.628 ng/ul | 98 |
| 79) Pyrene | 19.63 | 202 | 260796 | 19.710 ng/ul | 98 |
| 82) Benzo(a)anthracene | 21.37 | 228 | 143893 | 9.743 ng/ul | 99 |
| 84) Chrysene | 21.43 | 228 | 135357 | 9.785 ng/ul | 99 |
| 87) Benzo(b)fluoranthene | 23.01 | 252 | 141241 | 10.665 ng/ul | 97 |
| 88) Benzo(k)fluoranthene | 23.05 | 252 | 51377m | 4.143 ng/ul | |
| 90) Benzo(a)pyrene | 23.61 | 252 | 56876 | 4.459 ng/ul | 98 |
| 91) Indeno(1,2,3-cd)pyrene | 26.07 | 276 | 40120 | 2.413 ng/ul | 97 |
| 92) Dibenzo(a,h)anthracene | 26.07 | 278 | 14215 | 1.029 ng/ul# | 95 |
| 93) Benzo(g,h,i)perylene | 26.80 | 276 | 25888 | 1.860 ng/ul | 98 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y6

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.187 | 31 | 34 | 41 | rVB | 71779 | 81316 | 7.27% | 0.985% |
| 2 | 6.422 | 579 | 584 | 588 | rBB | 15130 | 19137 | 1.71% | 0.232% |
| 3 | 6.587 | 608 | 612 | 617 | rBB | 14553 | 17986 | 1.61% | 0.218% |
| 4 | 7.028 | 679 | 687 | 692 | rBB2 | 16031 | 23721 | 2.12% | 0.287% |
| 5 | 7.816 | 815 | 821 | 829 | rBB | 100604 | 151377 | 13.53% | 1.833% |
| 6 | 10.610 | 1290 | 1296 | 1302 | rBV | 146467 | 248960 | 22.26% | 3.015% |
| 7 | 10.663 | 1302 | 1305 | 1312 | rVB | 8053 | 12083 | 1.08% | 0.146% |
| 8 | 11.004 | 1357 | 1363 | 1370 | rBB | 128107 | 187515 | 16.77% | 2.271% |
| 9 | 14.457 | 1943 | 1950 | 1957 | rBV2 | 269550 | 406019 | 36.30% | 4.917% |
| 10 | 14.522 | 1957 | 1961 | 1966 | rVB | 23003 | 32058 | 2.87% | 0.388% |
| 11 | 14.857 | 2014 | 2018 | 2025 | rBB | 14634 | 20221 | 1.81% | 0.245% |
| 12 | 15.504 | 2123 | 2128 | 2135 | rBB | 26246 | 37736 | 3.37% | 0.457% |
| 13 | 15.692 | 2156 | 2160 | 2168 | rVB | 22639 | 28970 | 2.59% | 0.351% |
| 14 | 15.945 | 2199 | 2203 | 2210 | rBB | 7825 | 14070 | 1.26% | 0.170% |
| 15 | 17.028 | 2382 | 2387 | 2392 | rVB | 14249 | 19986 | 1.79% | 0.242% |
| 16 | 17.204 | 2411 | 2417 | 2421 | rBV2 | 357011 | 510509 | 45.64% | 6.182% |
| 17 | 17.245 | 2421 | 2424 | 2435 | rVB | 381656 | 538669 | 48.16% | 6.523% |
| 18 | 17.339 | 2435 | 2440 | 2445 | rBV | 63913 | 83740 | 7.49% | 1.014% |
| 19 | 18.075 | 2559 | 2565 | 2570 | rBV | 38412 | 52811 | 4.72% | 0.640% |
| 20 | 18.128 | 2570 | 2574 | 2583 | rVB2 | 52545 | 77289 | 6.91% | 0.936% |
| 21 | 18.210 | 2583 | 2588 | 2593 | rBV | 14805 | 20587 | 1.84% | 0.249% |
| 22 | 18.275 | 2593 | 2599 | 2603 | rVV2 | 57696 | 104532 | 9.35% | 1.266% |
| 23 | 18.310 | 2603 | 2605 | 2611 | rVB | 26130 | 31042 | 2.78% | 0.376% |
| 24 | 18.580 | 2646 | 2651 | 2656 | rBV | 29294 | 38713 | 3.46% | 0.469% |
| 25 | 18.992 | 2716 | 2721 | 2726 | rBV | 18571 | 28040 | 2.51% | 0.340% |
| 26 | 19.063 | 2726 | 2733 | 2735 | rBV3 | 8665 | 17112 | 1.53% | 0.207% |
| 27 | 19.263 | 2761 | 2767 | 2774 | rBV | 595233 | 804232 | 71.91% | 9.739% |
| 28 | 19.510 | 2803 | 2809 | 2817 | rBV | 14329 | 20867 | 1.87% | 0.253% |
| 29 | 19.592 | 2817 | 2823 | 2826 | rBV2 | 82738 | 139602 | 12.48% | 1.691% |
| 30 | 19.627 | 2826 | 2829 | 2836 | rVV | 432540 | 574917 | 51.40% | 6.962% |
| 31 | 19.698 | 2836 | 2841 | 2846 | rVB | 23409 | 33474 | 2.99% | 0.405% |
| 32 | 19.810 | 2850 | 2860 | 2864 | rVV | 27464 | 41711 | 3.73% | 0.505% |
| 33 | 19.963 | 2878 | 2886 | 2892 | rBV2 | 30848 | 57672 | 5.16% | 0.698% |
| 34 | 20.104 | 2901 | 2910 | 2911 | rBV2 | 42458 | 70952 | 6.34% | 0.859% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y6

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

| | | | | | | | | | |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 20.122 | 2911 | 2913 | 2918 | rVB | 54356 | 63531 | 5.68% | 0.769% |
| 36 | 20.222 | 2926 | 2930 | 2934 | rBV | 34808 | 45475 | 4.07% | 0.551% |
| 37 | 20.280 | 2934 | 2940 | 2944 | rVV3 | 34746 | 67995 | 6.08% | 0.823% |
| 38 | 20.316 | 2944 | 2946 | 2950 | rVV | 15891 | 18121 | 1.62% | 0.219% |
| 39 | 20.374 | 2950 | 2956 | 2960 | rVV3 | 24124 | 41282 | 3.69% | 0.500% |
| 40 | 20.422 | 2960 | 2964 | 2968 | rVV | 19092 | 28460 | 2.54% | 0.345% |
| 41 | 20.469 | 2968 | 2972 | 2975 | rVV2 | 23850 | 33458 | 2.99% | 0.405% |
| 42 | 20.674 | 3003 | 3007 | 3008 | rBV2 | 10835 | 11818 | 1.06% | 0.143% |
| 43 | 20.698 | 3008 | 3011 | 3016 | rVV3 | 18043 | 25549 | 2.28% | 0.309% |
| 44 | 20.751 | 3016 | 3020 | 3023 | rVV3 | 8746 | 13719 | 1.23% | 0.166% |
| 45 | 20.839 | 3029 | 3035 | 3038 | rBV4 | 14502 | 20169 | 1.80% | 0.244% |
| 46 | 20.874 | 3038 | 3041 | 3044 | rBV | 14000 | 15214 | 1.36% | 0.184% |
| 47 | 21.039 | 3065 | 3069 | 3072 | rBV | 34424 | 43213 | 3.86% | 0.523% |
| 48 | 21.074 | 3072 | 3075 | 3078 | rVV | 45290 | 52030 | 4.65% | 0.630% |
| 49 | 21.116 | 3078 | 3082 | 3086 | rVB | 43994 | 50886 | 4.55% | 0.616% |
| 50 | 21.280 | 3106 | 3110 | 3117 | rVB2 | 17516 | 23849 | 2.13% | 0.289% |
| 51 | 21.392 | 3120 | 3129 | 3133 | rBV2 | 596787 | 1118440 | 100.00% | 13.545% |
| 52 | 21.427 | 3133 | 3135 | 3145 | rVV | 243660 | 308155 | 27.55% | 3.732% |
| 53 | 21.551 | 3152 | 3156 | 3160 | rBV2 | 12250 | 16110 | 1.44% | 0.195% |
| 54 | 21.898 | 3211 | 3215 | 3218 | rBV | 9311 | 13748 | 1.23% | 0.166% |
| 55 | 21.951 | 3218 | 3224 | 3228 | rVV2 | 41280 | 68164 | 6.09% | 0.825% |
| 56 | 22.004 | 3231 | 3233 | 3240 | rVB | 23915 | 28096 | 2.51% | 0.340% |
| 57 | 22.074 | 3241 | 3245 | 3248 | rBV2 | 12745 | 18279 | 1.63% | 0.221% |
| 58 | 22.163 | 3255 | 3260 | 3264 | rBV2 | 18193 | 36141 | 3.23% | 0.438% |
| 59 | 22.257 | 3272 | 3276 | 3283 | rVB2 | 13238 | 20998 | 1.88% | 0.254% |
| 60 | 23.010 | 3398 | 3404 | 3409 | rBV | 159477 | 352750 | 31.54% | 4.272% |
| 61 | 23.186 | 3430 | 3434 | 3440 | rVB | 24828 | 41365 | 3.70% | 0.501% |
| 62 | 23.510 | 3483 | 3489 | 3496 | rVB | 90602 | 167300 | 14.96% | 2.026% |
| 63 | 23.610 | 3499 | 3506 | 3513 | rVB | 74534 | 144220 | 12.89% | 1.747% |
| 64 | 23.710 | 3516 | 3523 | 3530 | rBV2 | 296465 | 578068 | 51.69% | 7.001% |
| 65 | 26.068 | 3916 | 3924 | 3935 | rVB | 39272 | 120359 | 10.76% | 1.458% |
| 66 | 26.345 | 3966 | 3971 | 3978 | rVB3 | 11596 | 30637 | 2.74% | 0.371% |
| 67 | 26.451 | 3982 | 3989 | 4000 | rVB8 | 8975 | 30038 | 2.69% | 0.364% |
| 68 | 26.804 | 4041 | 4049 | 4059 | rBV | 20492 | 62222 | 5.56% | 0.754% |

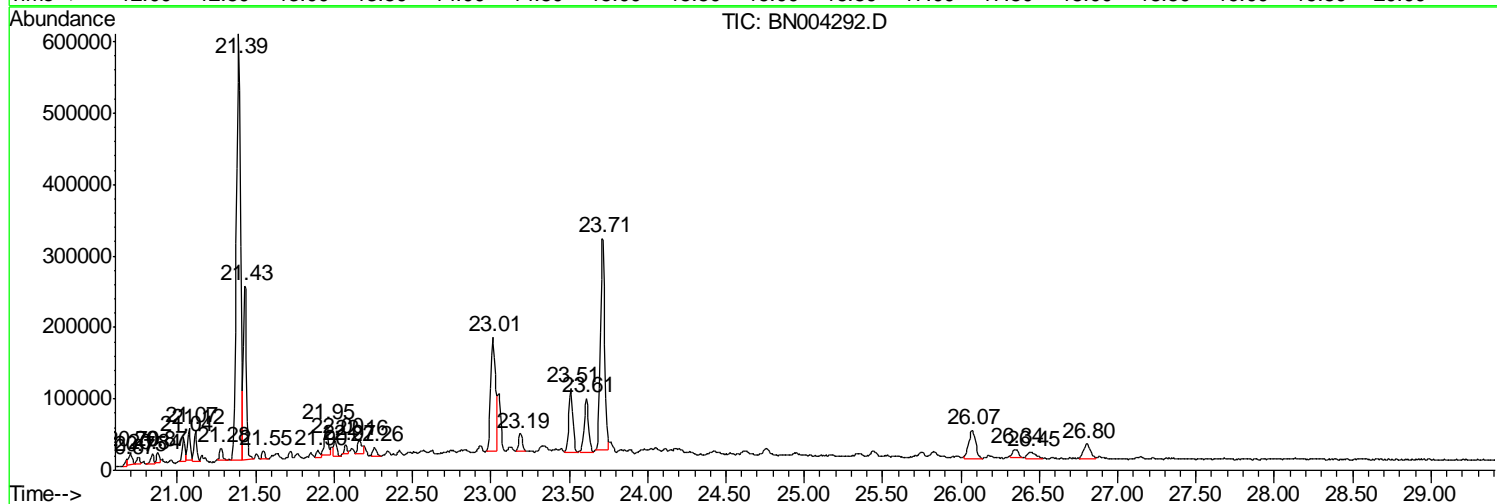
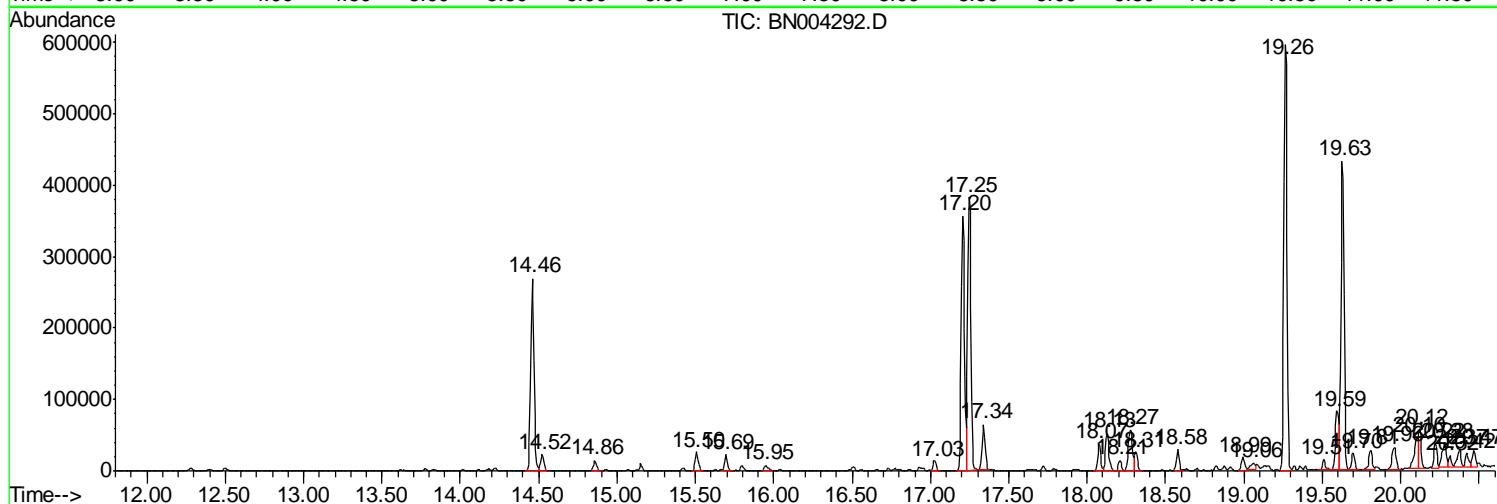
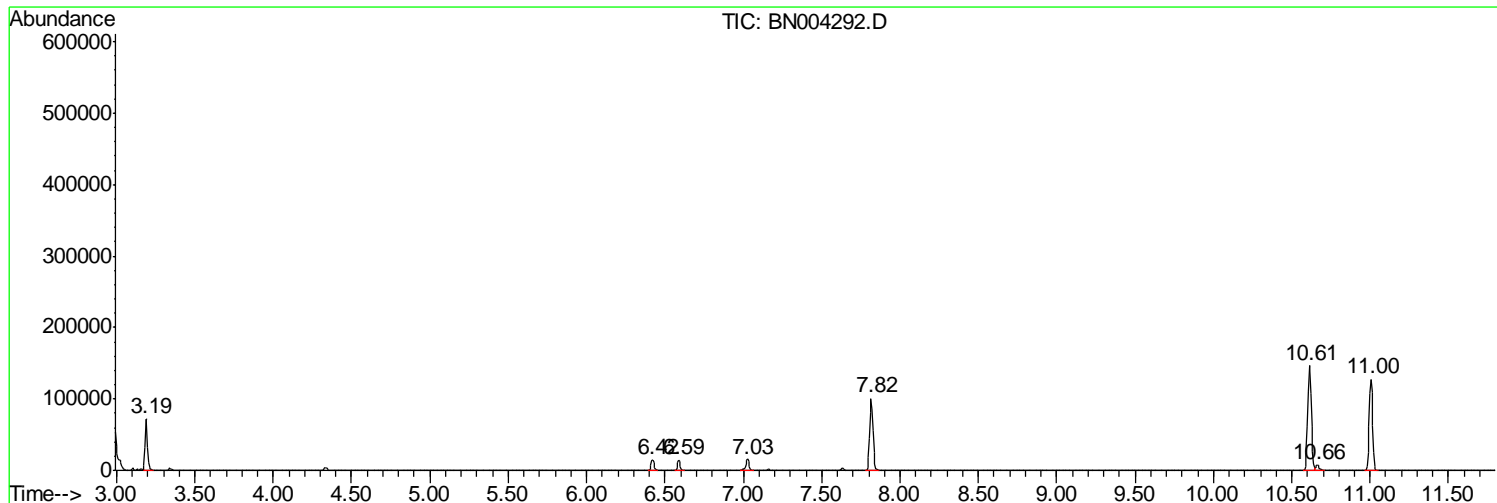
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Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A41Y6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41Y6

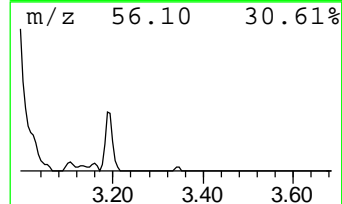
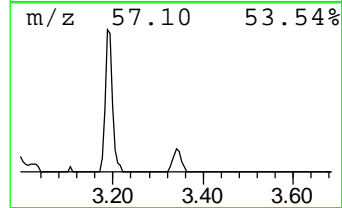
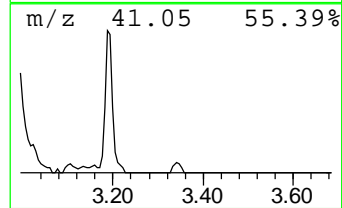
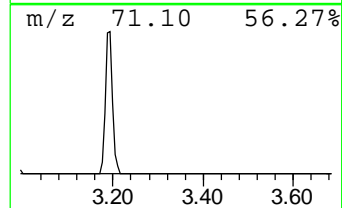
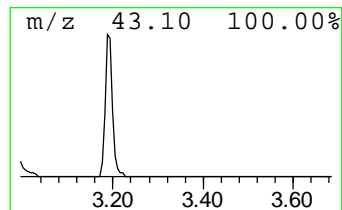
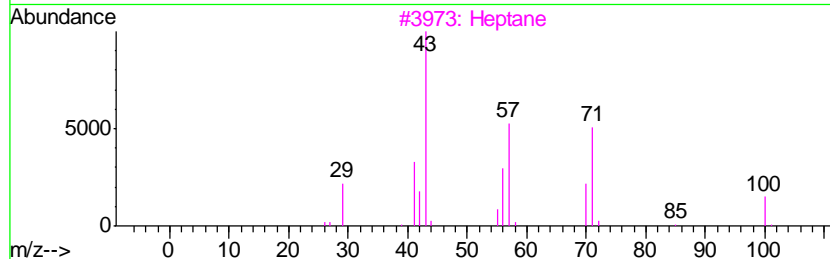
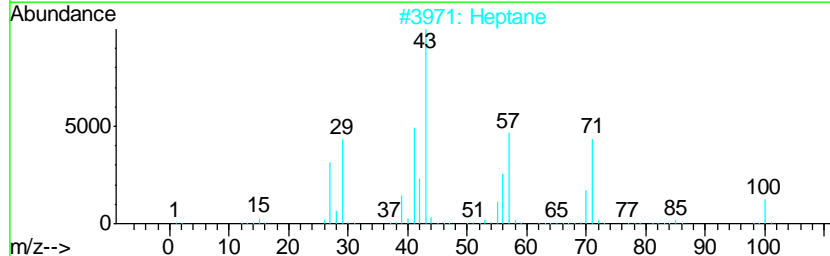
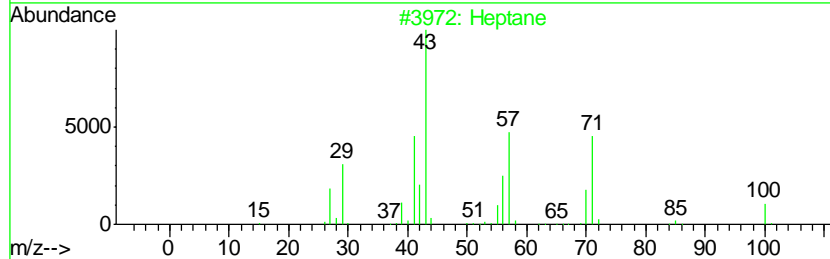
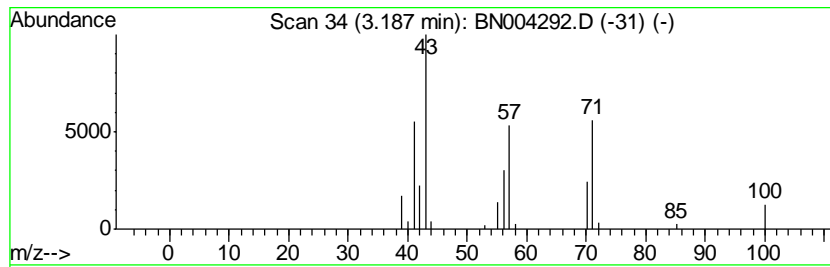
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 10.74 ng/ul | 81316 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y6

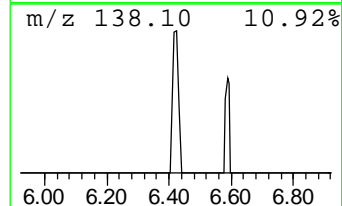
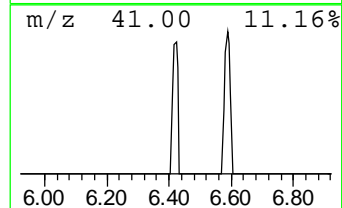
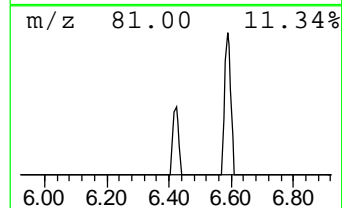
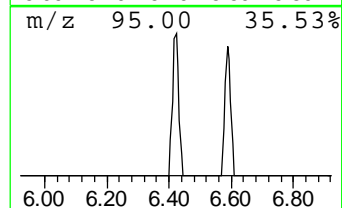
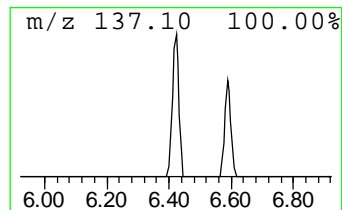
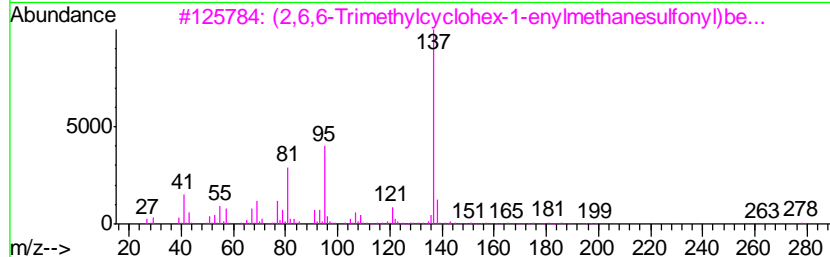
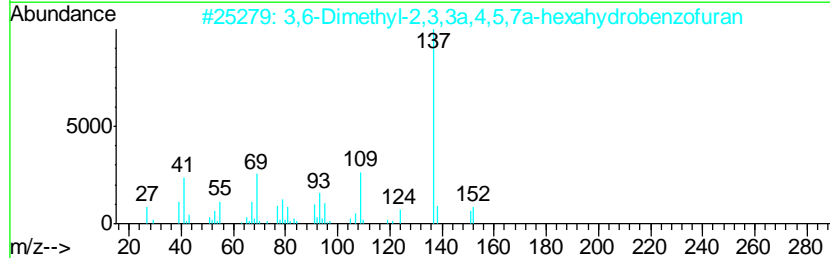
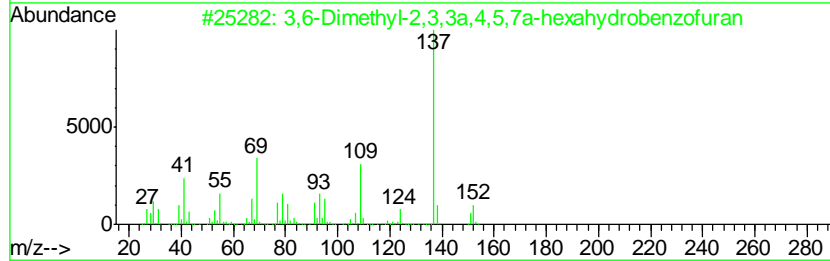
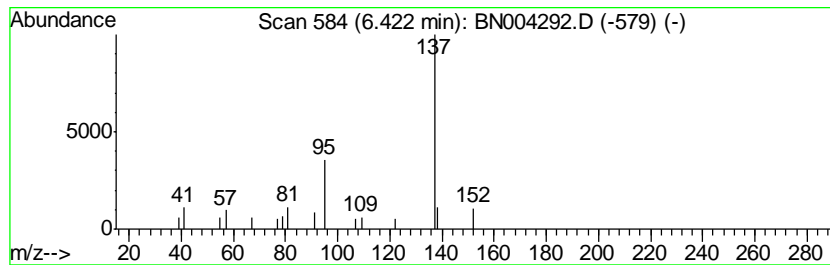
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 3,6-Dimethyl-2,3,3a,4,5,7a-... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 6.42 | 2.53 ng/ul | 19137 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1 | 5 | 3,6-Dimethyl-2,3,3a,4,5,7a-hexah... | 152 | C10H16O | 070786-44-6 | 59 |
| 2 | | 3,6-Dimethyl-2,3,3a,4,5,7a-hexah... | 152 | C10H16O | 070786-44-6 | 53 |
| 3 | | (2,6,6-Trimethylcyclohex-1-enylm... | 278 | C16H22O2S | 056691-74-8 | 45 |
| 4 | | 4-Fluorophenyl isocyanate | 137 | C7H4FNO | 001195-45-5 | 40 |
| 5 | | 5-Isopropyl-3,3-dimethyl-2-methy... | 152 | C10H16O | 081250-44-4 | 37 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41Y6

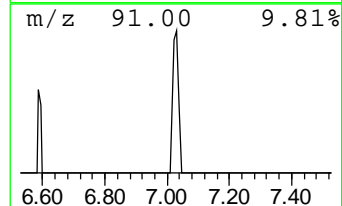
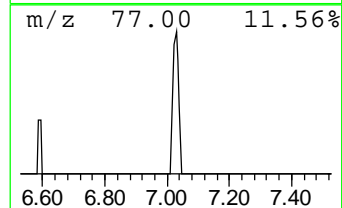
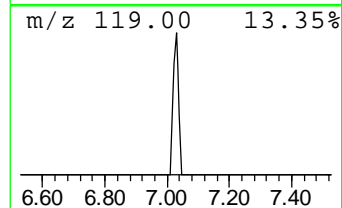
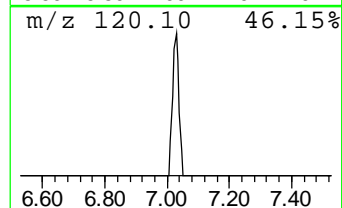
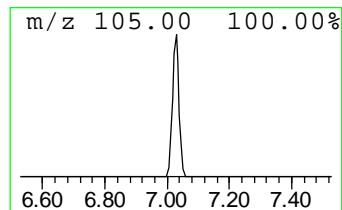
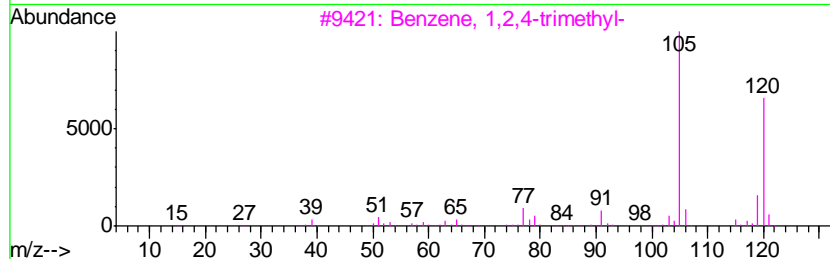
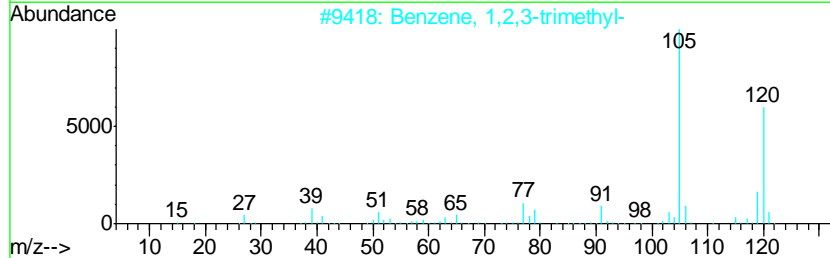
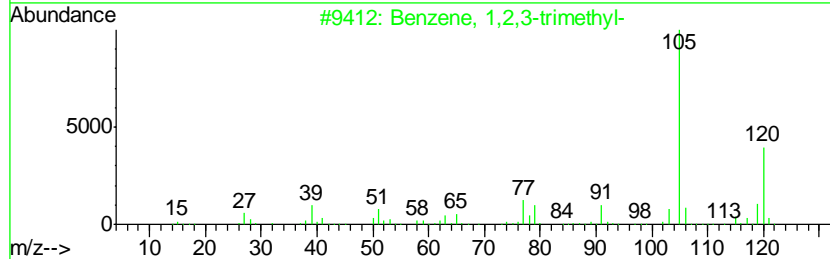
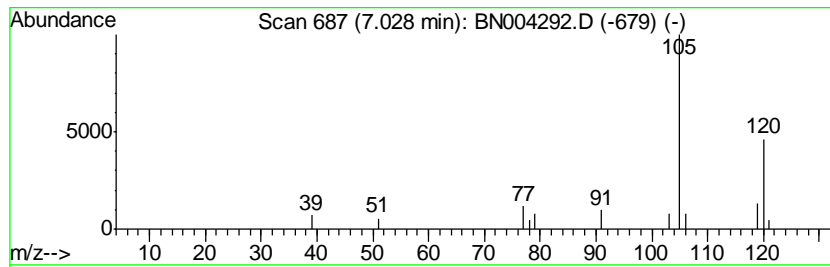
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 4 Benzene, 1,2,3-trimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 7.03 | 3.13 ng/ul | 23721 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1 | 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 2 | | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 3 | | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 4 | | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 5 | | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41Y6

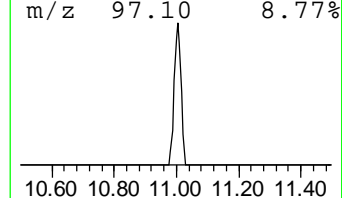
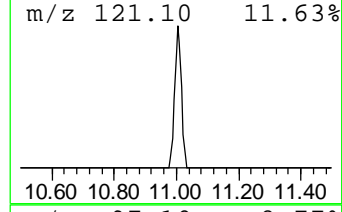
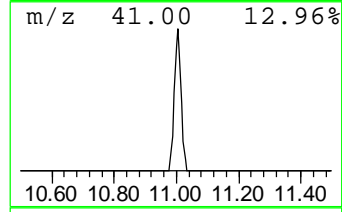
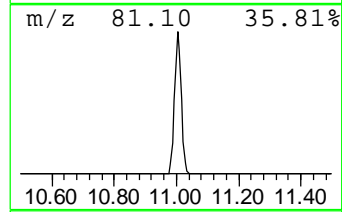
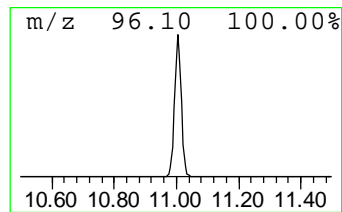
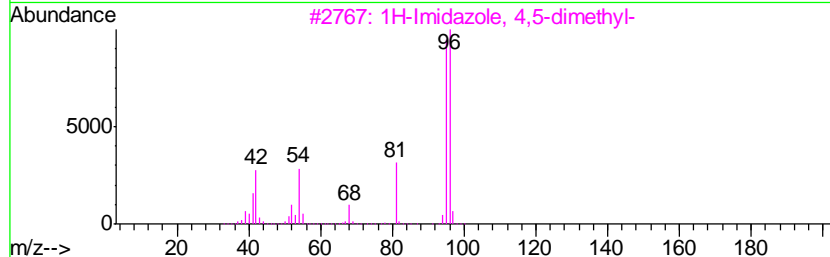
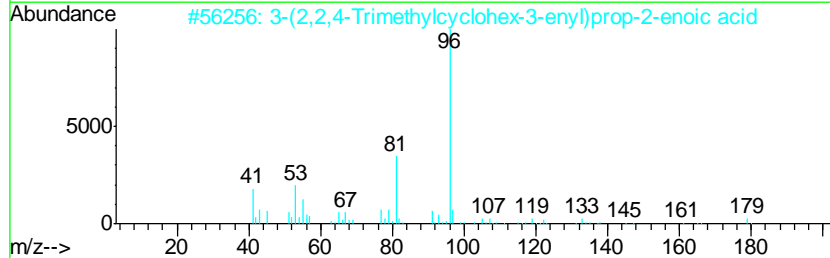
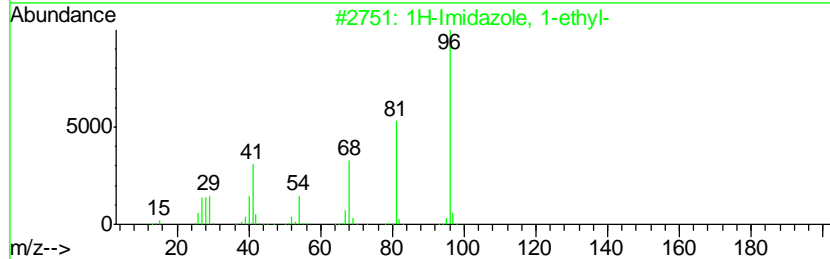
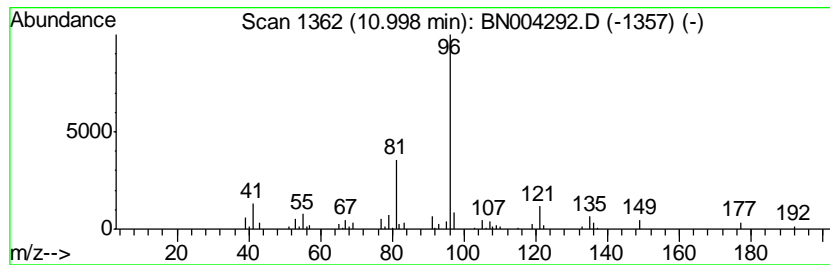
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 5 1H-Imidazole, 1-ethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|-------------|--------|------------------|-------|
| 11.00 | 15.06 ng/ul | 187515 | Naphthalene-d8 | 10.61 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1 | 5 | 1H-Imidazole, 1-ethyl- | 96 | C5H8N2 | 007098-07-9 | 58 |
| 2 | | 3-(2,2,4-Trimethylcyclohex-3-eny... | 194 | C12H18O2 | 1000215-26-6 | 53 |
| 3 | | 1H-Imidazole, 4,5-dimethyl- | 96 | C5H8N2 | 002302-39-8 | 50 |
| 4 | | 9-Methyl-11-oxo-1,6-diazatricycl... | 180 | C10H16N2O | 111197-37-6 | 42 |
| 5 | | 4(1H)-Pyrimidinone | 96 | C4H4N2O | 004562-27-0 | 42 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41Y6

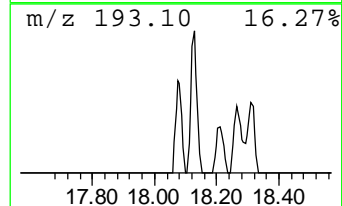
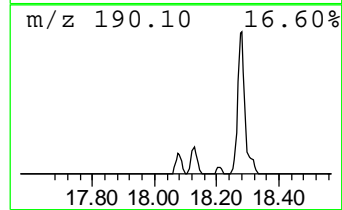
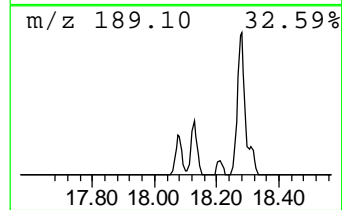
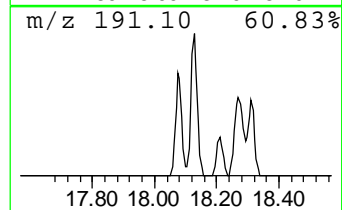
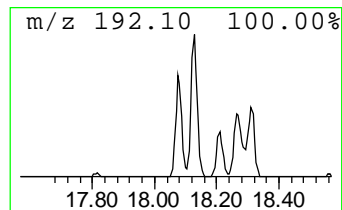
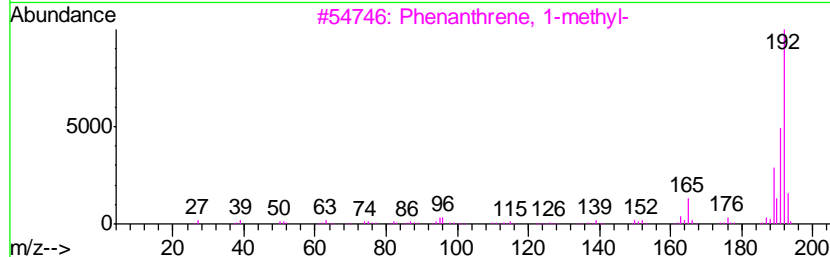
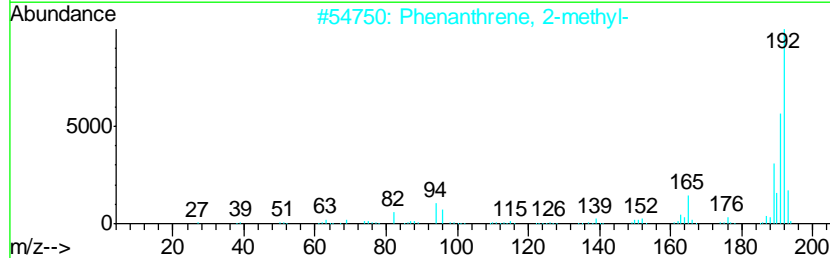
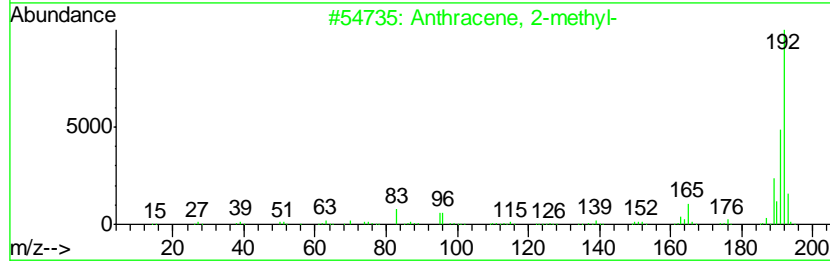
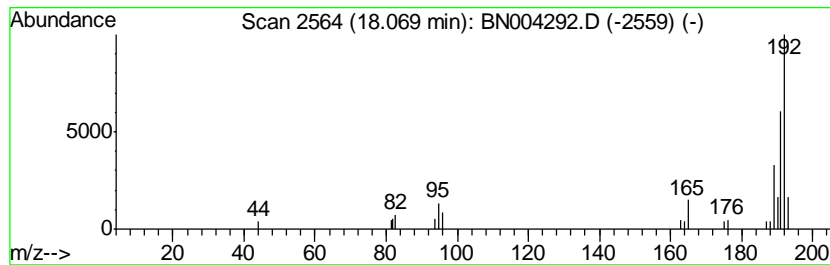
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 6 Anthracene, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.07 | 2.07 ng/ul | 52811 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 2 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 3 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 94 |
| 4 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |
| 5 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41Y6

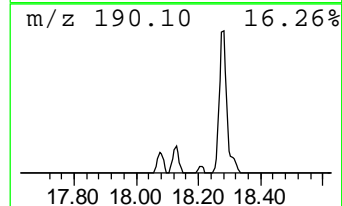
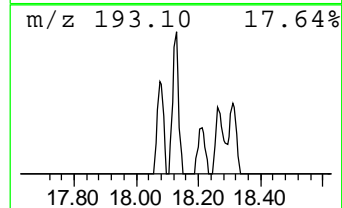
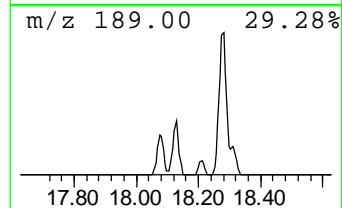
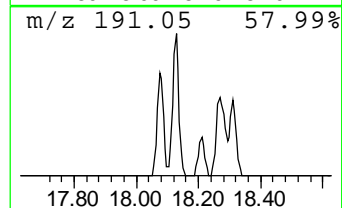
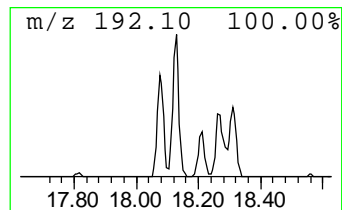
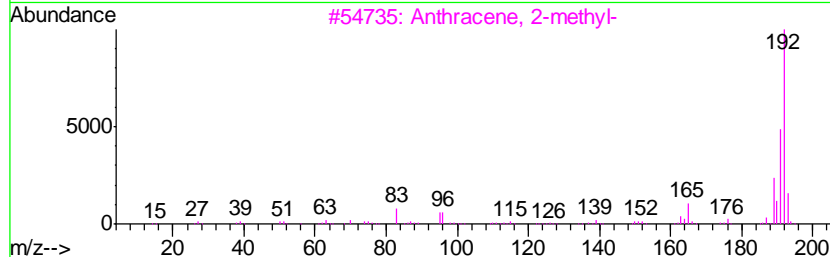
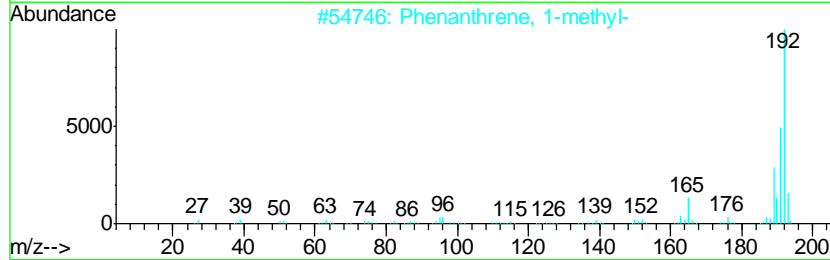
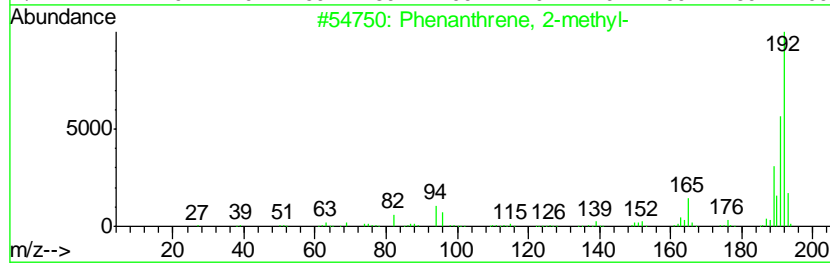
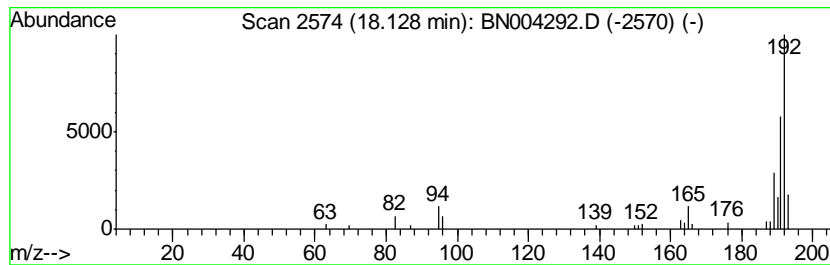
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 18.13 | 3.03 ng/ul | 77289 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1 | 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |
| 5 | | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
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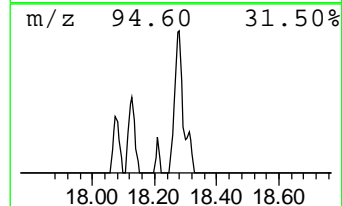
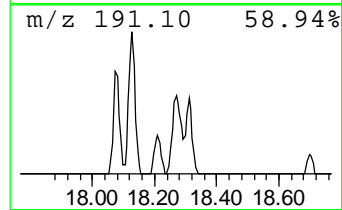
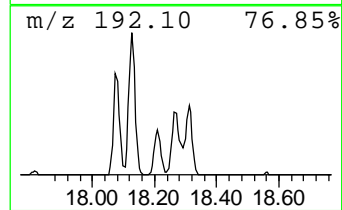
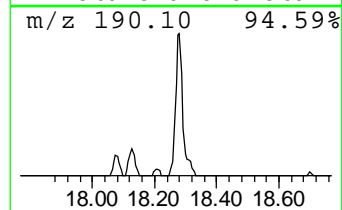
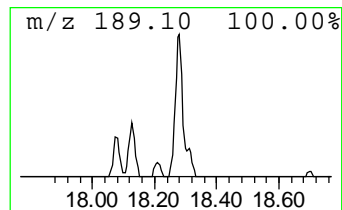
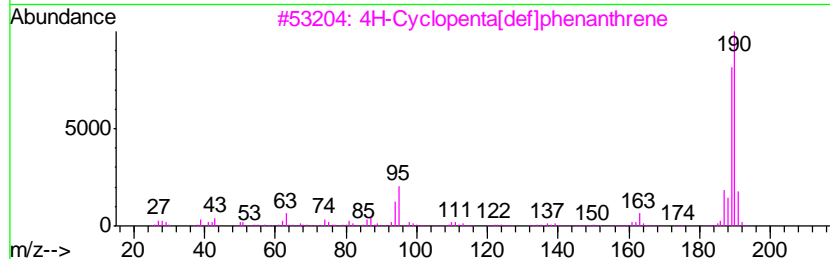
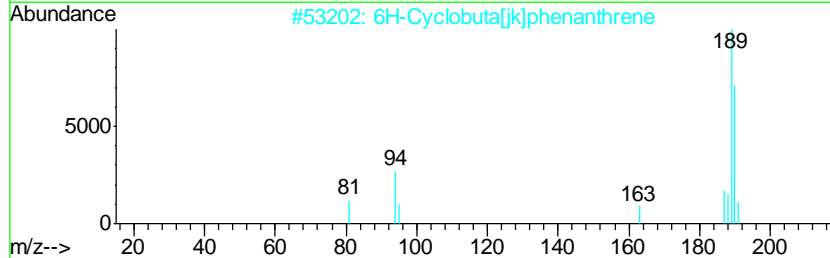
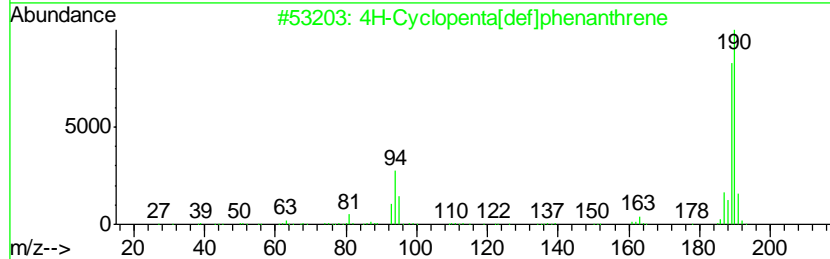
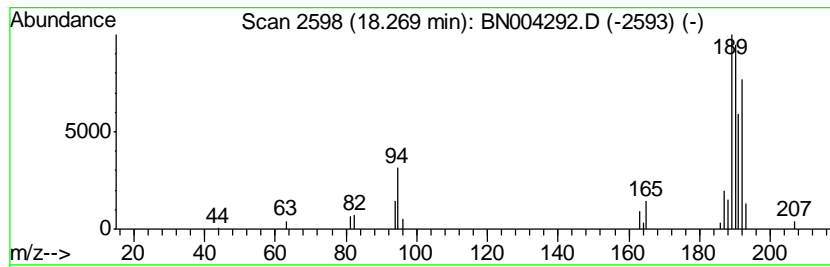
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 18.27 | 4.10 ng/ul | 104532 | Phenanthrene-d10 | 17.20 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1 | 5 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 87 |
| 2 | | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 72 |
| 3 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 58 |
| 4 | | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 53 |
| 5 | | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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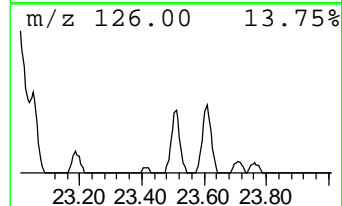
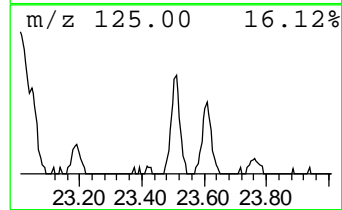
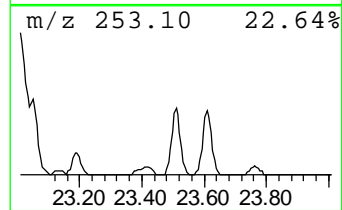
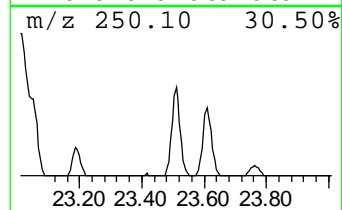
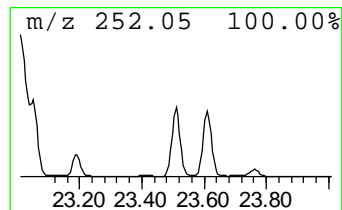
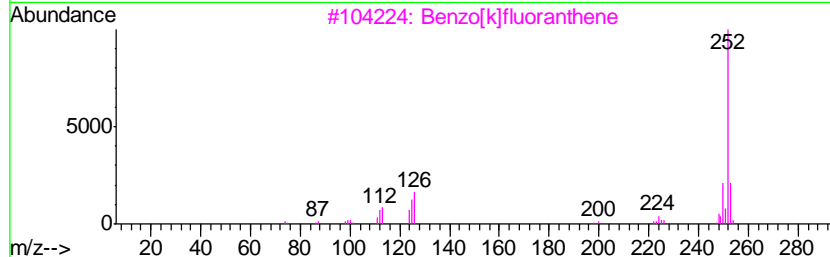
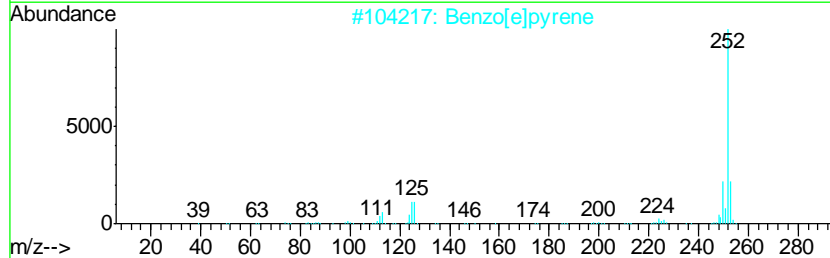
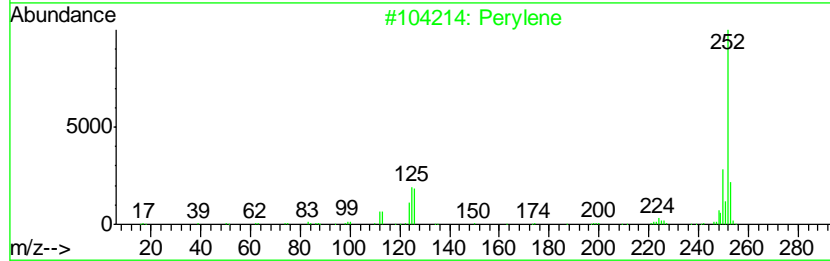
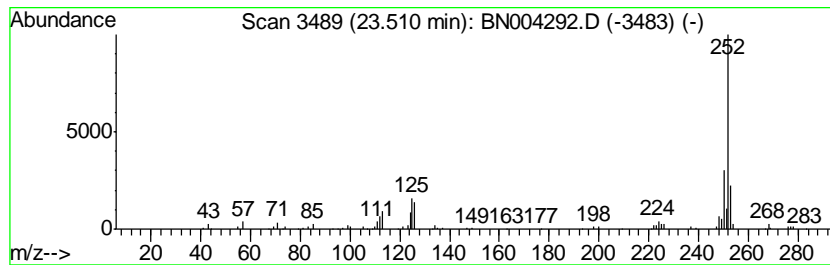
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 9 Perylene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|-------|
| 23.51 | 5.79 ng/ul | 167300 | Perylene-d12 | 23.72 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1 | 5 | Perylene | 252 | C20H12 | 000198-55-0 | 98 |
| 2 | | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 3 | | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 98 |
| 4 | | Perylene | 252 | C20H12 | 000198-55-0 | 97 |
| 5 | | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004292.D
 Acq On : 29 Dec 2018 09:42
 Operator : JU/SJ
 Sample : J6432-07
 Misc : GCMS Confirmation
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y6

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 10.7 | ng/ul | 81316 | 1 | 7.82 | 151377 | 20.0 |
| 3,6-Dimethyl-2,3,... | 6.42 | 2.5 | ng/ul | 19137 | 1 | 7.82 | 151377 | 20.0 |
| Benzene, 1,2,3-tr... | 7.03 | 3.1 | ng/ul | 23721 | 1 | 7.82 | 151377 | 20.0 |
| 1H-Imidazole, 1-e... | 11.00 | 15.1 | ng/ul | 187515 | 2 | 10.61 | 248960 | 20.0 |
| Anthracene, 2-met... | 18.07 | 2.1 | ng/ul | 52811 | 4 | 17.20 | 510509 | 20.0 |
| Phenanthrene, 2-m... | 18.13 | 3.0 | ng/ul | 77289 | 4 | 17.20 | 510509 | 20.0 |
| 4H-Cyclopenta[def... | 18.27 | 4.1 | ng/ul | 104532 | 4 | 17.20 | 510509 | 20.0 |
| Perylene | 23.51 | 5.8 | ng/ul | 167300 | 6 | 23.72 | 578068 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y6DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-07DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035090.D
 % Solids : 81.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 2.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

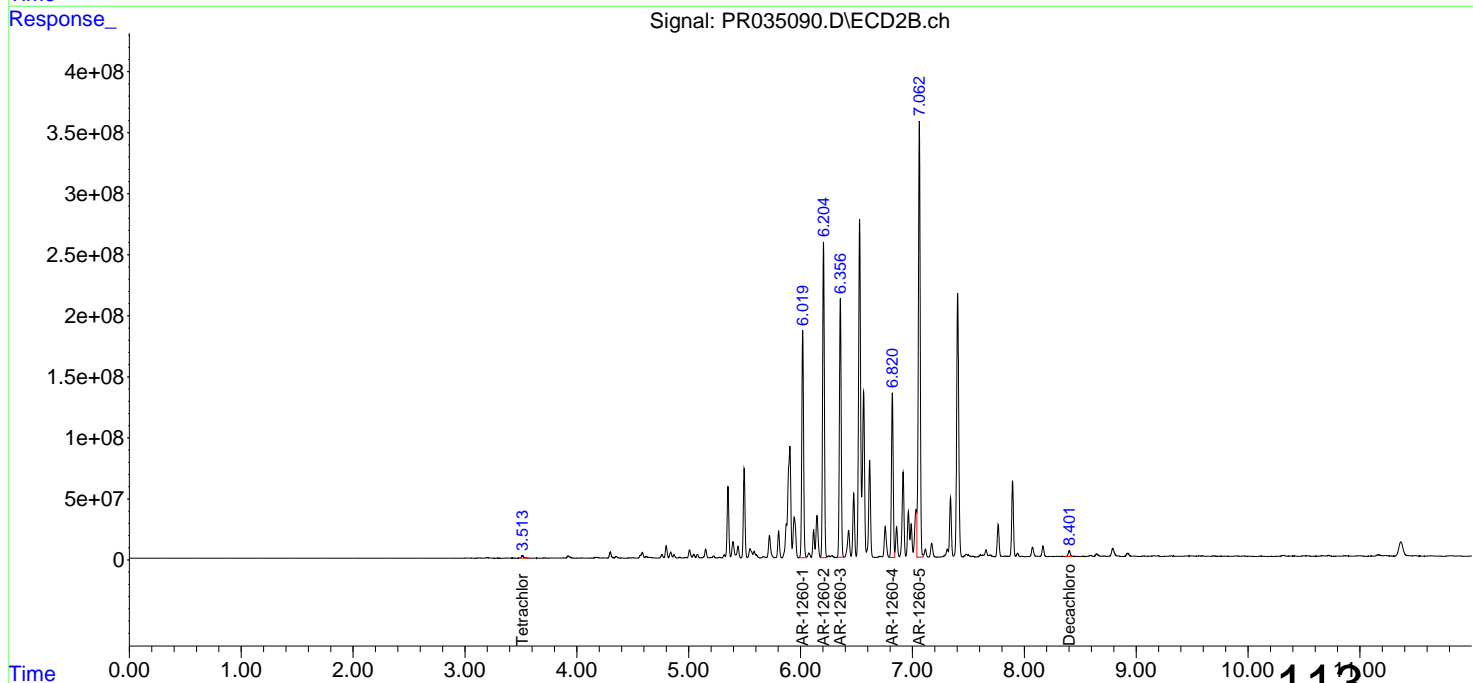
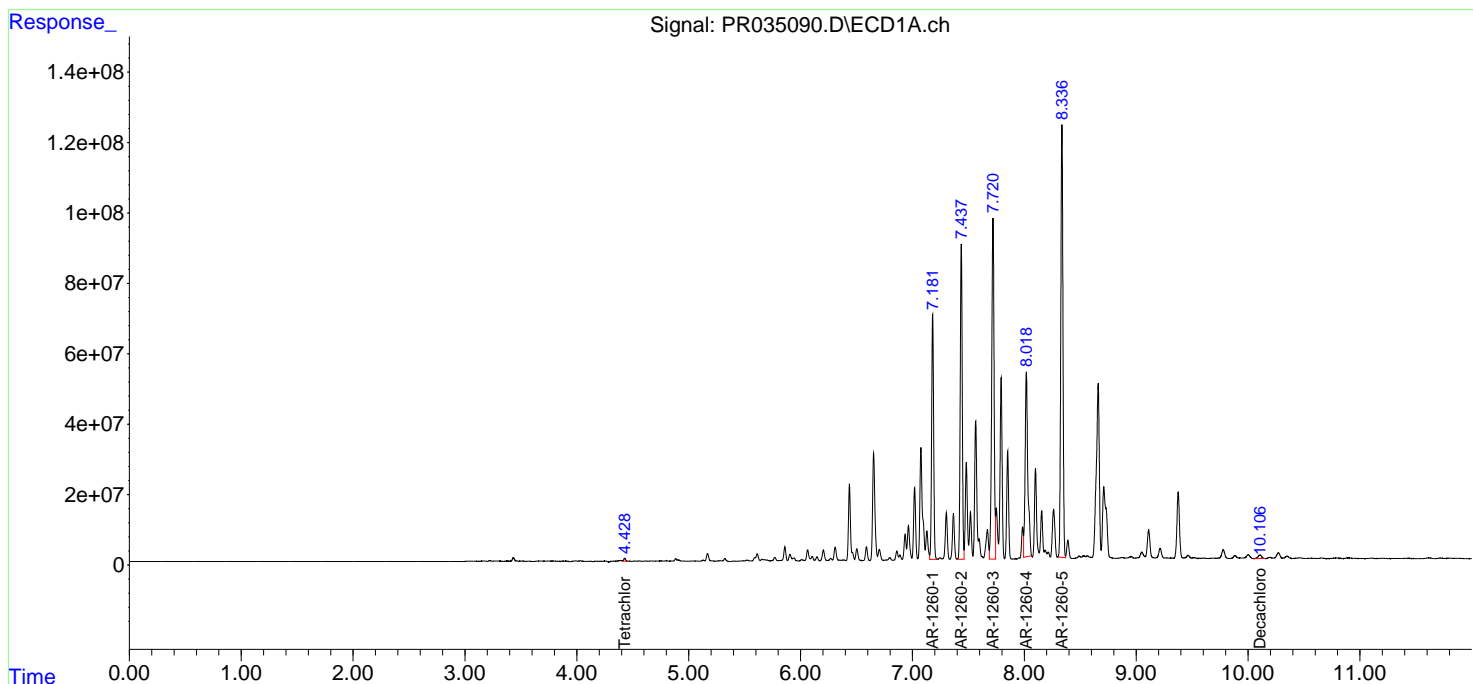
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| 11104-28-2 | Aroclor-1221 | 81 | U |
| 11141-16-5 | Aroclor-1232 | 81 | U |
| 53469-21-9 | Aroclor-1242 | 81 | U |
| 12672-29-6 | Aroclor-1248 | 81 | U |
| 11097-69-1 | Aroclor-1254 | 81 | U |
| 11096-82-5 | Aroclor-1260 | 7600 | ED |
| 37324-23-5 | Aroclor-1262 | 81 | U |
| 11100-14-4 | Aroclor-1268 | 81 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035090.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:08
 Operator : SM\SJ
 Sample : J6432-07DL 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y6DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035090.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:08
 Operator : SM\SJ
 Sample : J6432-07DL 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y6DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:17 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 9699920 | 29117632 | 4.987 | 8.353 # |
| 2) SA Decachlor... | 10.106 | 8.402 | 21873904 | 55941515 | 11.127 | 12.724 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 864.7E6 | 2074.5E6 | 9198.275 | 9650.280 |
| 32) L7 AR-1260-2 | 7.437 | 6.205 | 1121.7E6 | 2851.7E6 | 9661.595 | 10479.336 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 1426.0E6 | 2354.4E6 | 10218.174 | 9484.379 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 879.8E6 | 1470.7E6 | 10187.539 | 8601.195 |
| 35) L7 AR-1260-5 | 8.337 | 7.062 | 1645.9E6 | 4210.4E6 | 9115.997 | 8705.468 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y6DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-07DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035091.D
 % Solids : 81.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 20.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 810 | U |
| 11104-28-2 | Aroclor-1221 | 810 | U |
| 11141-16-5 | Aroclor-1232 | 810 | U |
| 53469-21-9 | Aroclor-1242 | 810 | U |
| 12672-29-6 | Aroclor-1248 | 810 | U |
| 11097-69-1 | Aroclor-1254 | 810 | U |
| 11096-82-5 | Aroclor-1260 | 8600 | D |
| 37324-23-5 | Aroclor-1262 | 810 | U |
| 11100-14-4 | Aroclor-1268 | 810 | U |

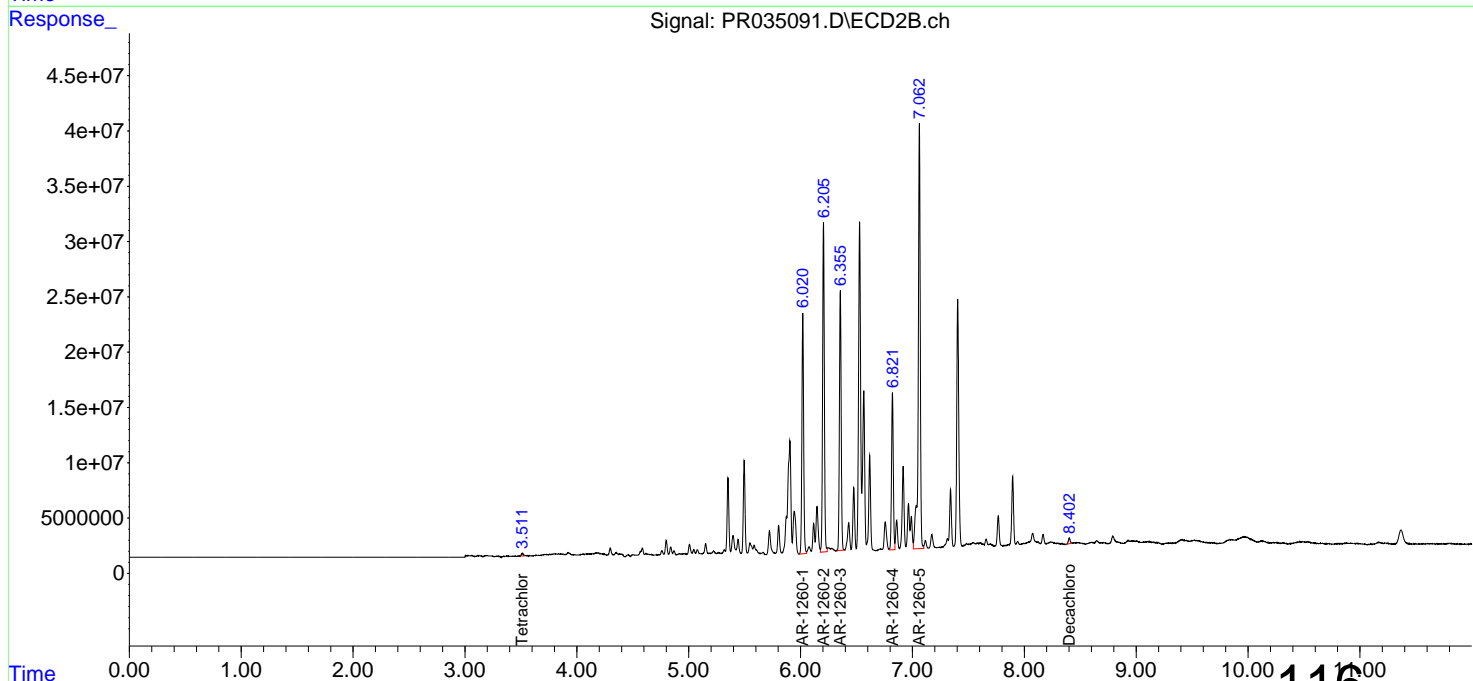
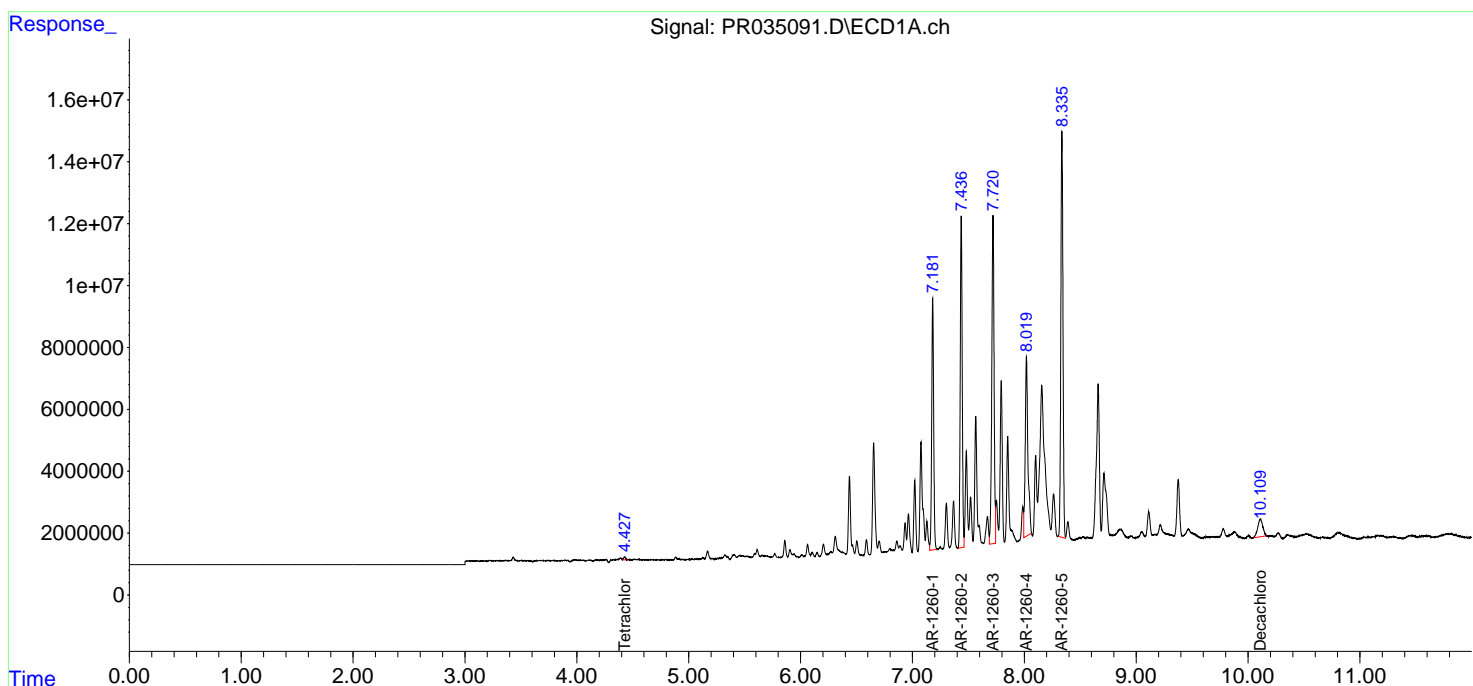
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 Data File : PR035091.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:22
 Operator : SM\SJ
 Sample : J6432-07DL2 20X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y6DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:17 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035091.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:22
 Operator : SM\SJ
 Sample : J6432-07DL2 20X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41Y6DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:17 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 1193133 | 2883060 | 0.613m | 0.827m# |
| 2) SA Decachlor... | 10.109 | 8.402 | 17955606 | 6026080 | 9.133 | 1.371m# |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 99088805 | 236.6E6 | 1054.046 | 1100.674 |
| 32) L7 AR-1260-2 | 7.437 | 6.205 | 130.8E6 | 324.7E6 | 1126.388 | 1193.111 |
| 33) L7 AR-1260-3 | 7.721 | 6.356 | 149.8E6 | 256.2E6 | 1073.552 | 1032.249 |
| 34) L7 AR-1260-4 | 8.020 | 6.822 | 96726370 | 155.8E6 | 1119.990 | 911.418 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 173.3E6 | 490.1E6 | 959.764 | 1013.309 |
| ----- | | | | | | |

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

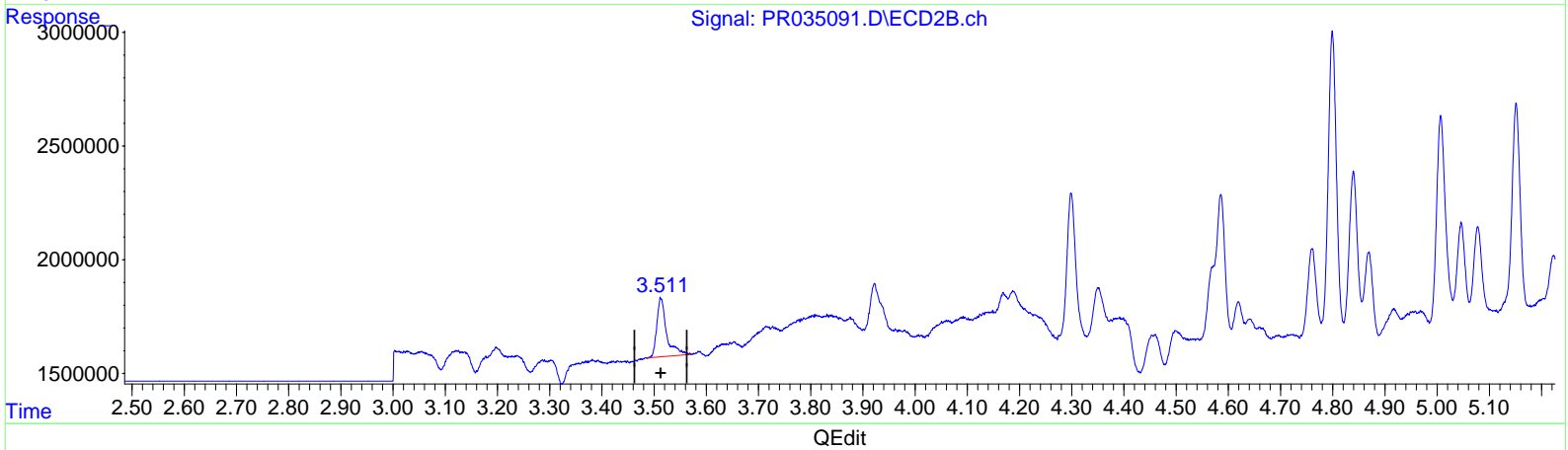
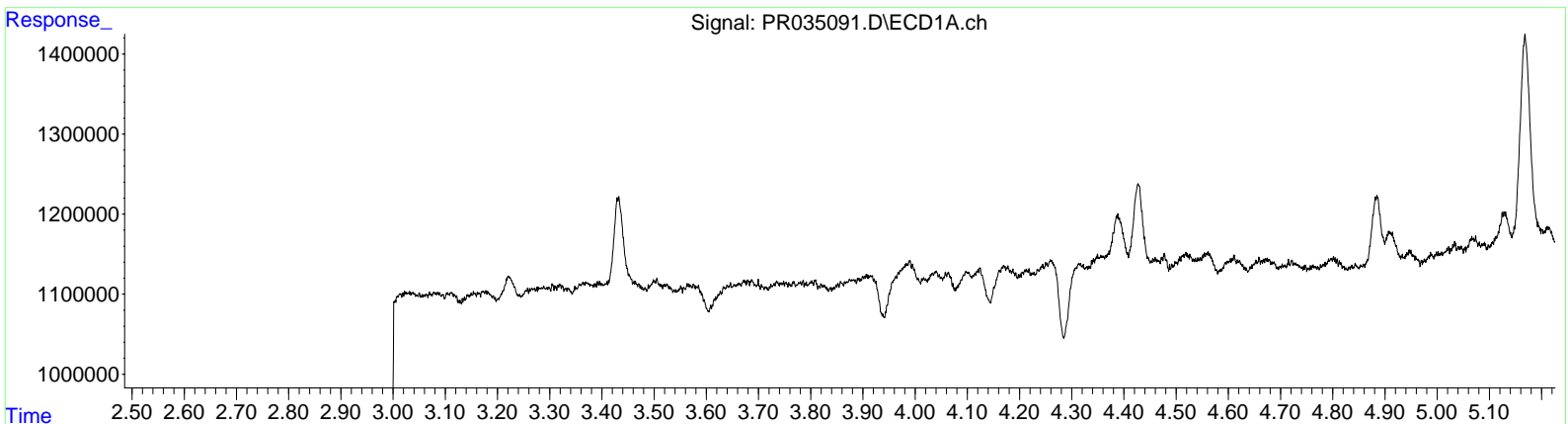
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 Data File : PR035091.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:22
 Operator : SM\SJ
 Sample : J6432-07DL2 20X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Y6DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:17 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 0.000min 0.000 ng/ml
 response 0

(1) Tetrachloro-m-xylene #2 (SA)
 3.513min 0.969 ng/ml
 response 3379134

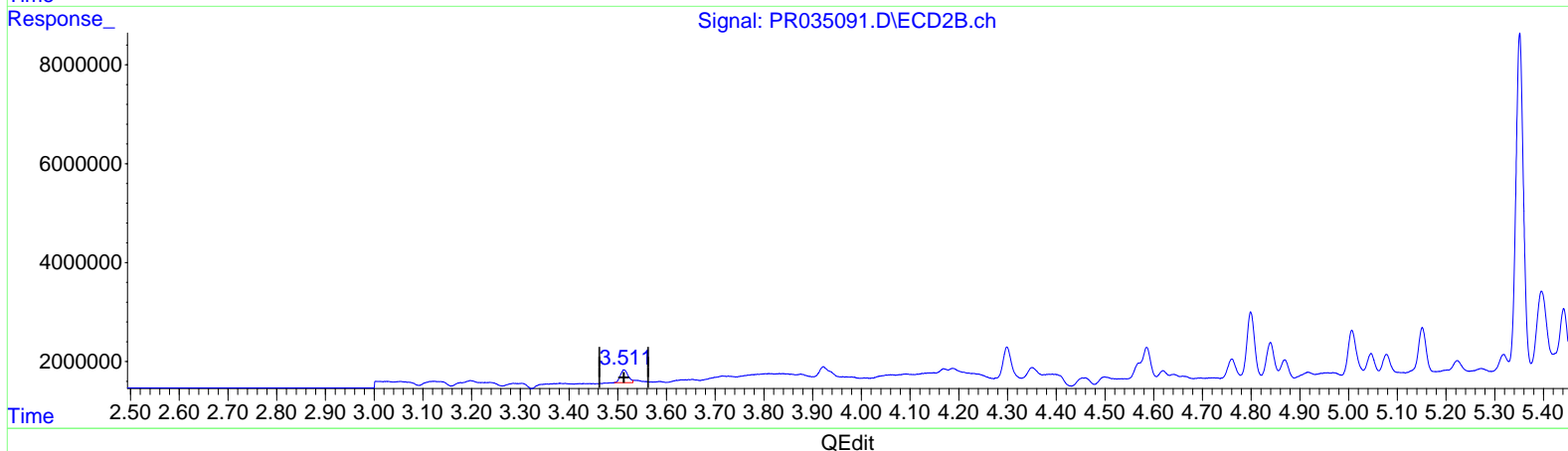
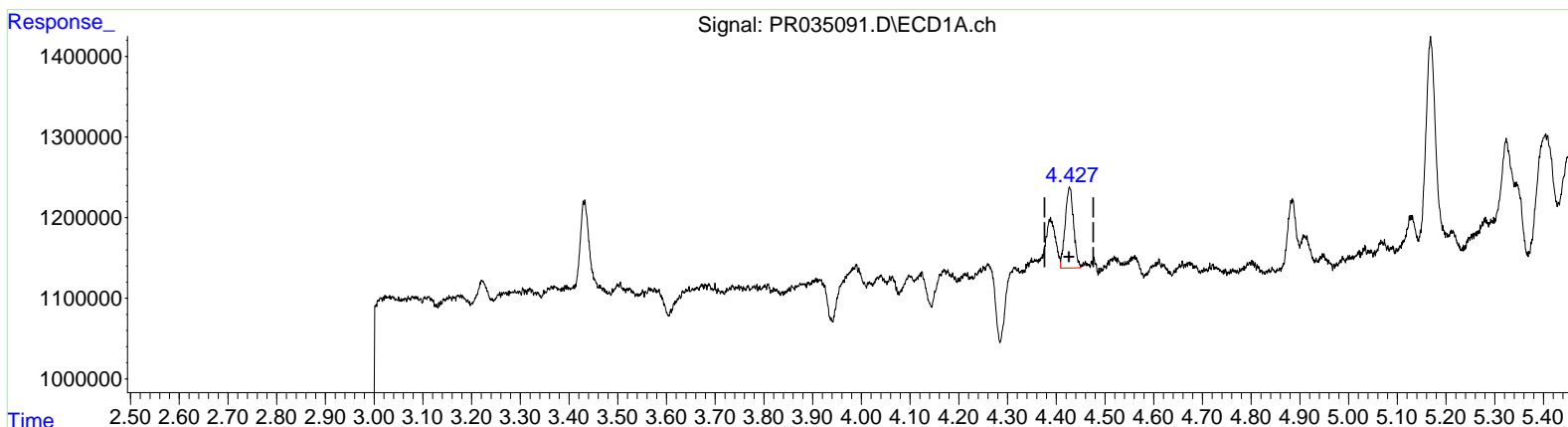
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035091.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:22
 Operator : SM\SJ
 Sample : J6432-07DL2 20X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Y6DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:17 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.427min 0.613 ng/ml m
 response 1193133

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 0.827 ng/ml m
 response 2883060

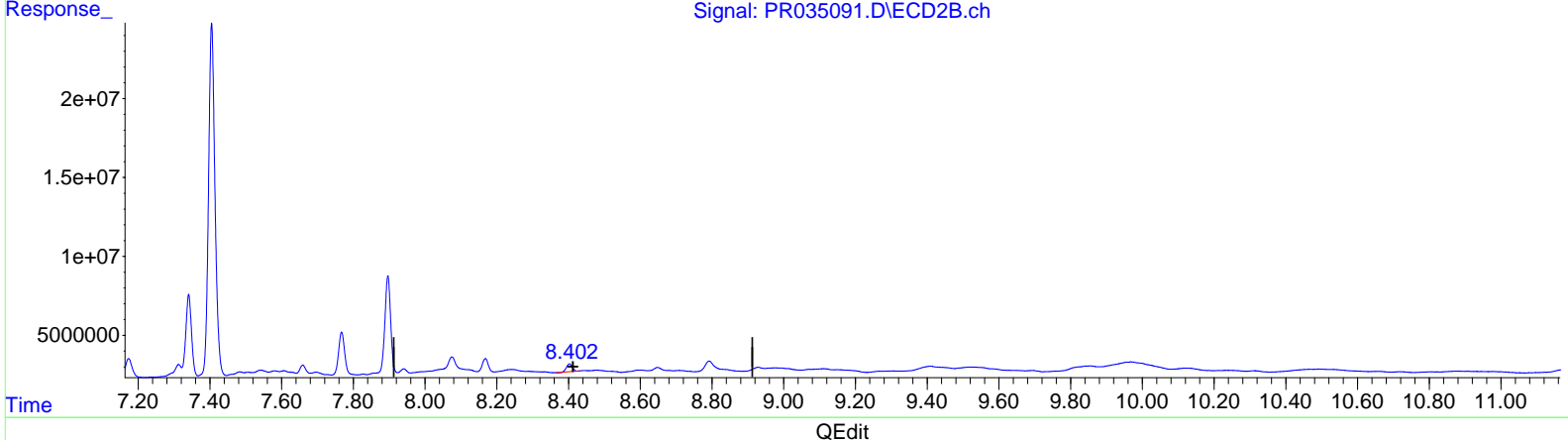
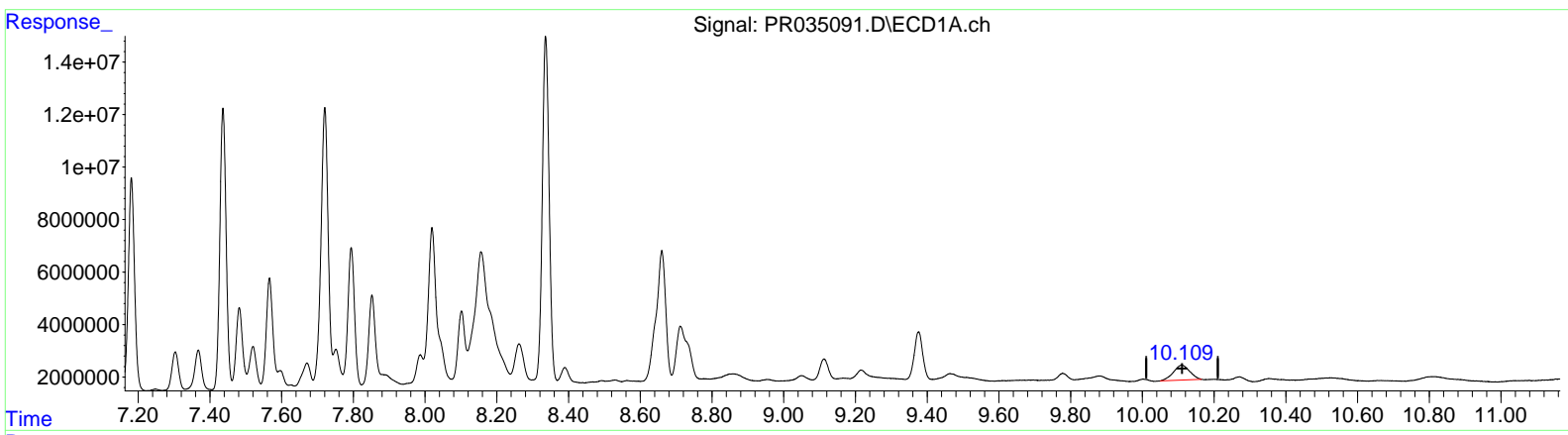
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035091.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:22
 Operator : SM\SJ
 Sample : J6432-07DL2 20X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Y6DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:17 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)

10.109min 9.133 ng/ml

response 17955606

(2) Decachlorobiphenyl #2 (SA)

8.403min 1.283 ng/ml

response 5640274

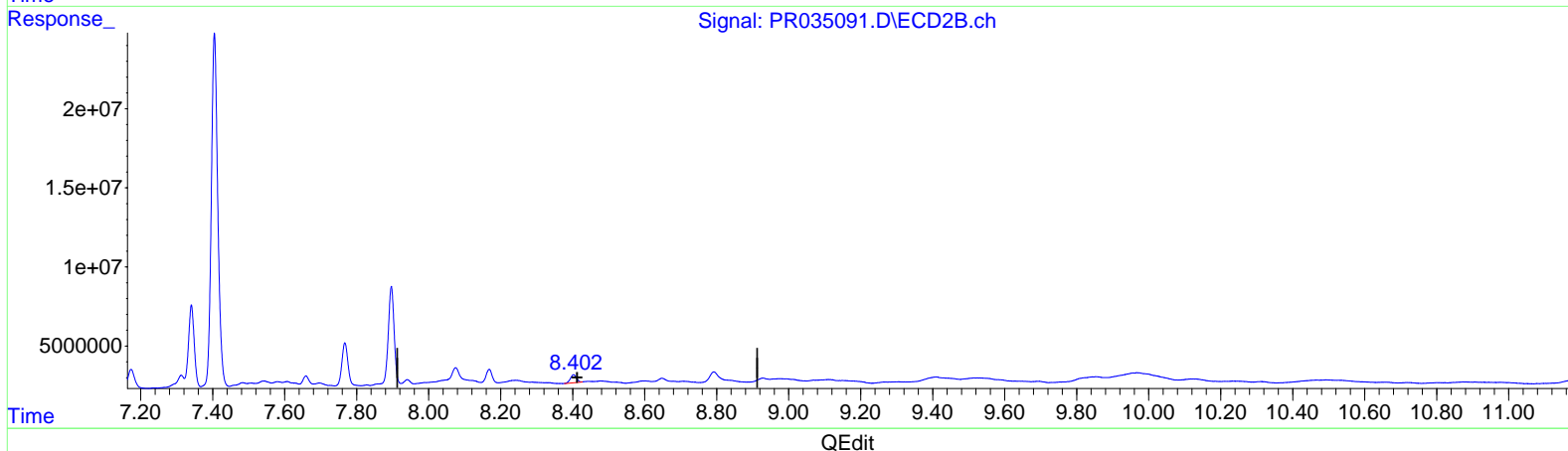
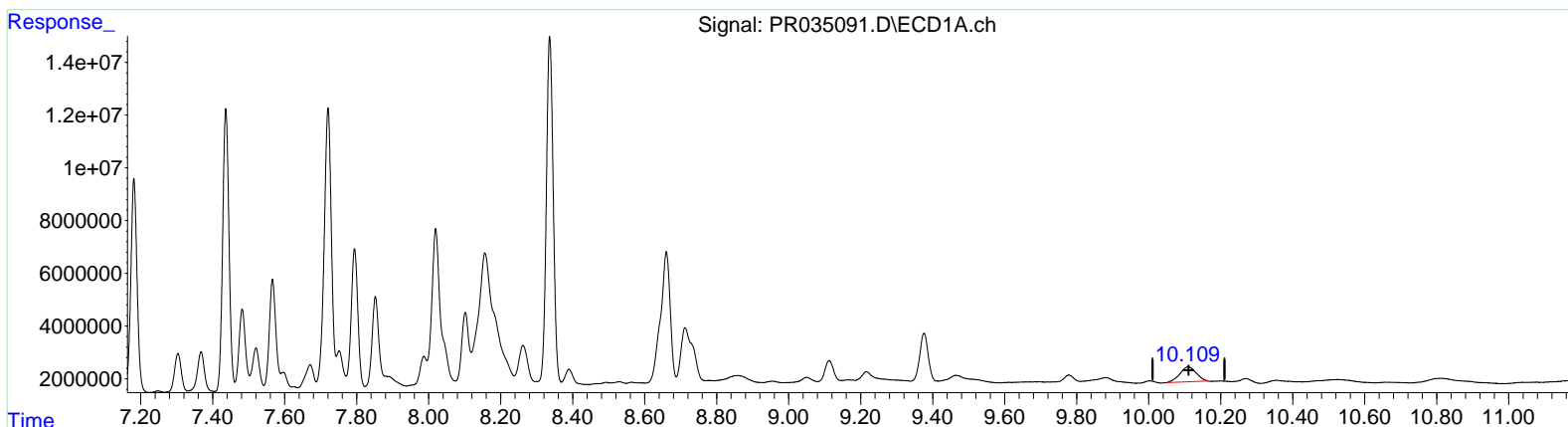
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035091.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:22
 Operator : SM\SJ
 Sample : J6432-07DL2 20X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Y6DL2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:17 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)

10.109min 9.133 ng/ml

response 17955606

(2) Decachlorobiphenyl #2 (SA)

8.402min 1.371 ng/ml m

response 6026080

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035091.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:22
 Operator : SM\SJ
 Sample : J6432-07DL2 20X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Y6DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:18:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

Sohil
 12/29/2018 12:18:17 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 1193133 | 2883060 | 0.613m | 0.827m# |
| 2) SA Decachlor... | 10.109 | 8.402 | 17955606 | 6026080 | 9.133 | 1.371m# |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 99088805 | 236.6E6 | 1054.046 | 1100.674 |
| 32) L7 AR-1260-2 | 7.437 | 6.205 | 130.8E6 | 324.7E6 | 1126.388 | 1193.111 |
| 33) L7 AR-1260-3 | 7.721 | 6.356 | 149.8E6 | 256.2E6 | 1073.552 | 1032.249 |
| 34) L7 AR-1260-4 | 8.020 | 6.822 | 96726370 | 155.8E6 | 1119.990 | 911.418 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 173.3E6 | 490.1E6 | 959.764 | 1013.309 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y7

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-08
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035004.D
 % Solids : 83.7 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

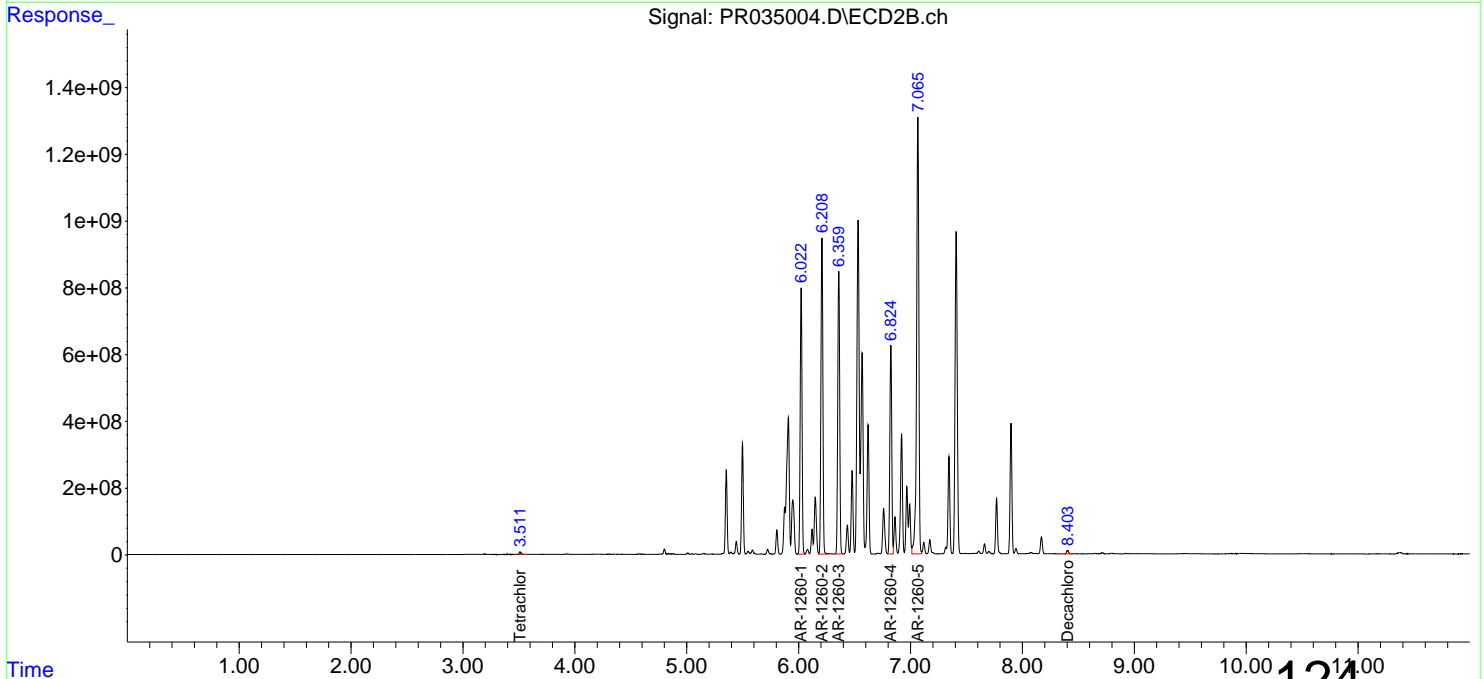
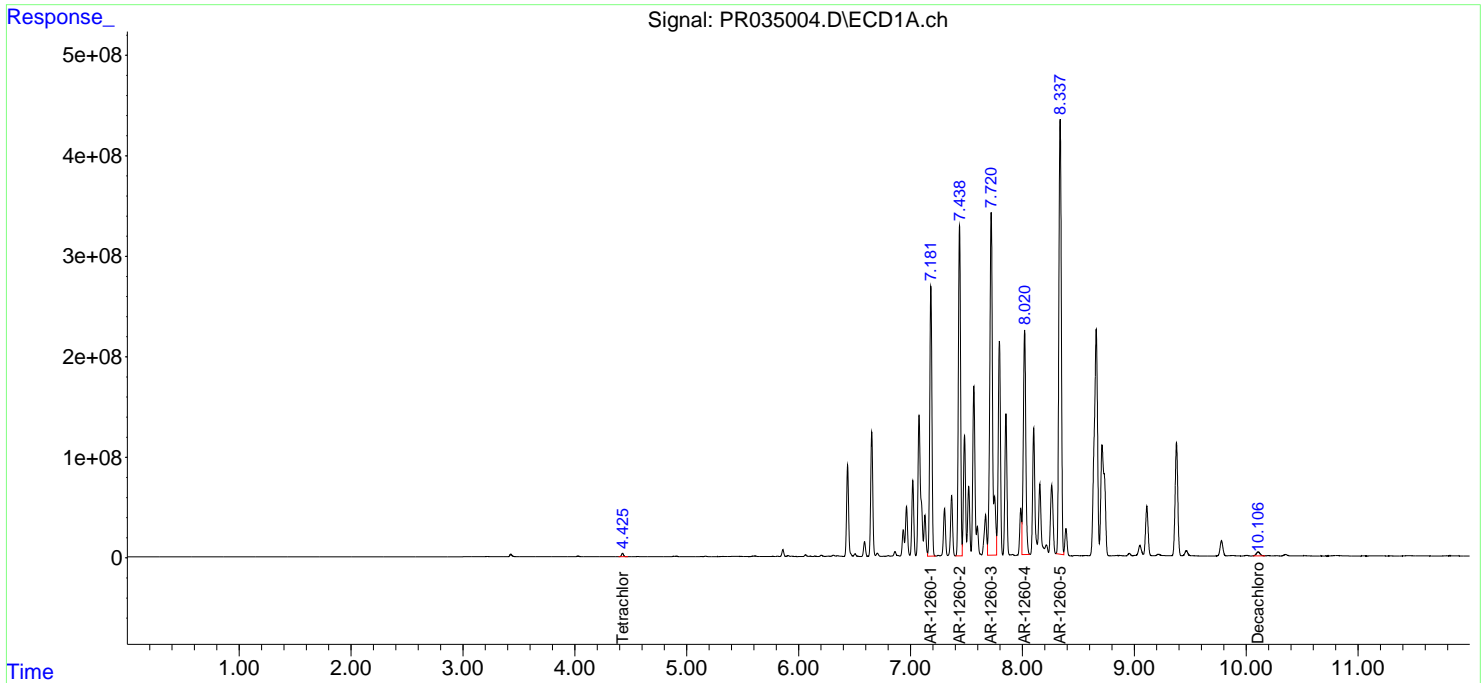
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 39 | U |
| 11104-28-2 | Aroclor-1221 | 39 | U |
| 11141-16-5 | Aroclor-1232 | 39 | U |
| 53469-21-9 | Aroclor-1242 | 39 | U |
| 12672-29-6 | Aroclor-1248 | 39 | U |
| 11097-69-1 | Aroclor-1254 | 39 | U |
| 11096-82-5 | Aroclor-1260 | 16000 | EC |
| 37324-23-5 | Aroclor-1262 | 39 | U |
| 11100-14-4 | Aroclor-1268 | 39 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035004.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:09
 Operator : SM\SJ
 Sample : J6432-08
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y7

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035004.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:09
 Operator : SM\SJ
 Sample : J6432-08
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y7

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:04 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

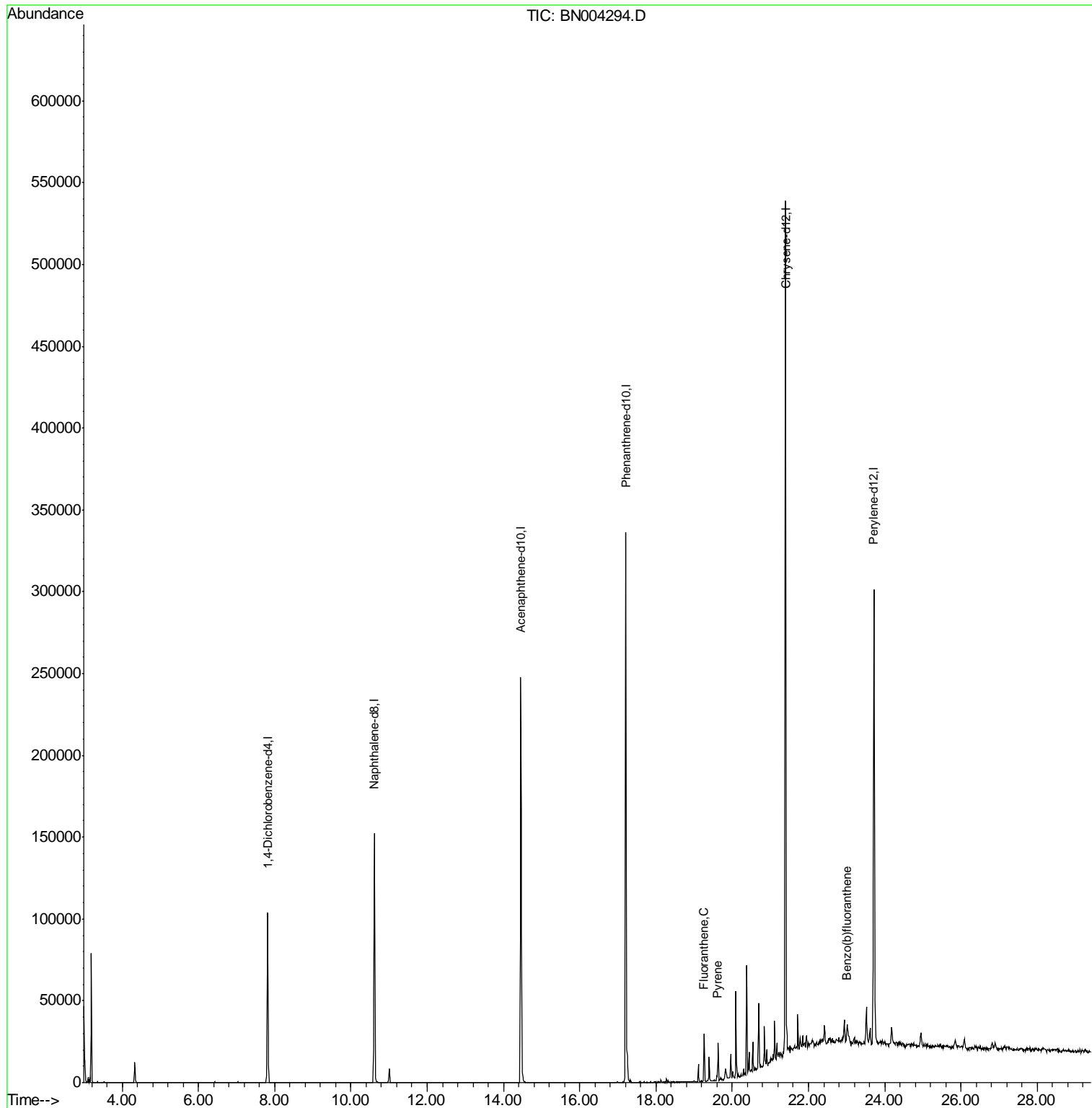
| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|-----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 40946745 | 77711145 | 21.052 | 22.292 |
| 2) SA Decachlor... | 10.107 | 8.404 | 90353467 | 128.2E6 | 45.960 | 29.153 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.182 | 6.023 | 3620.0E6 | 9105.5E6 | 38507.656 | 42356.842 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 4499.2E6 | 11403.0E6 | 38752.663 | 41903.958 |
| 33) L7 AR-1260-3 | 7.721 | 6.359 | 6081.7E6 | 10216.7E6 | 43578.764 | 41157.403 |
| 34) L7 AR-1260-4 | 8.020 | 6.824 | 3448.2E6 | 7388.3E6 | 39926.697 | 43208.725 |
| 35) L7 AR-1260-5 | 8.337 | 7.066 | 6656.7E6 | 18381.2E6 | 36868.032 | 38005.580 |
| ----- | | | | | | |

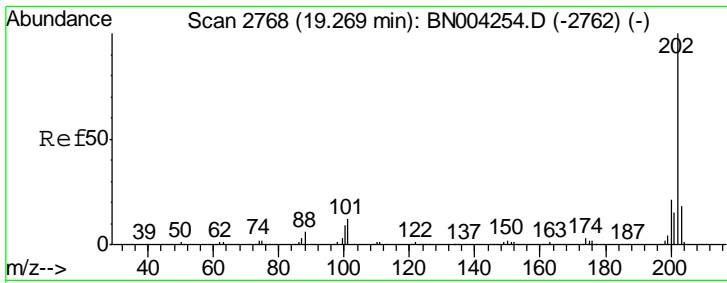
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
Data File : BN004294.D
Acq On : 29 Dec 2018 10:53
Operator : JU/SJ
Sample : J6432-08
Misc : GCMS Confirmation
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A41Y7

Quant Time: Dec 30 23:54:39 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 28 03:12:04 2018
Response via : Initial Calibration

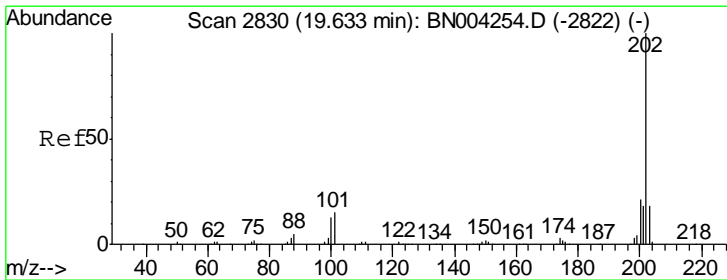
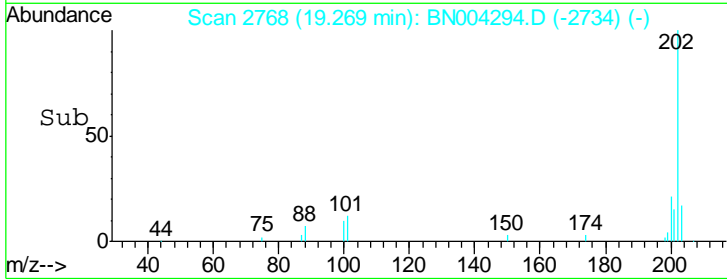
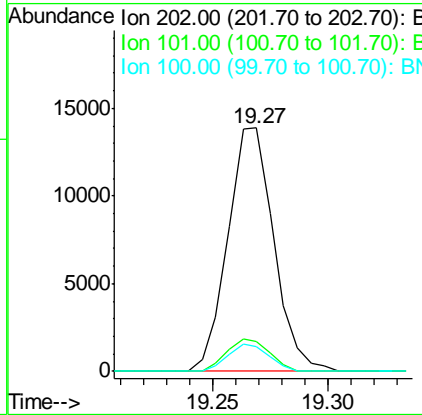
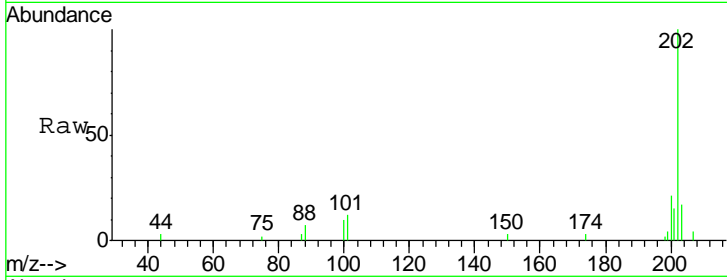




#76
 Fluoranthene
 Concen: 1.271 ng/ul
 RT: 19.27 min Scan# 2768
 Delta R.T. 0.00 min
 Lab File: BN004294.D
 Acq: 29 Dec 2018 10:53

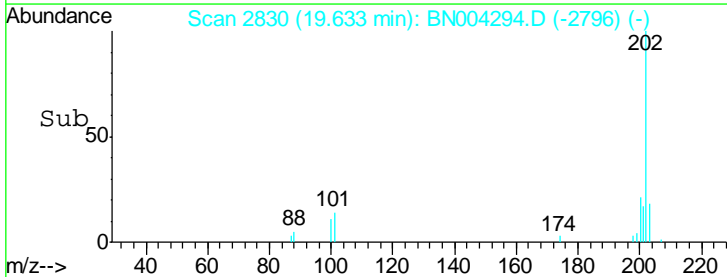
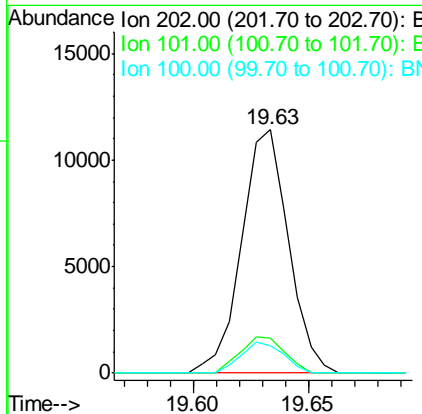
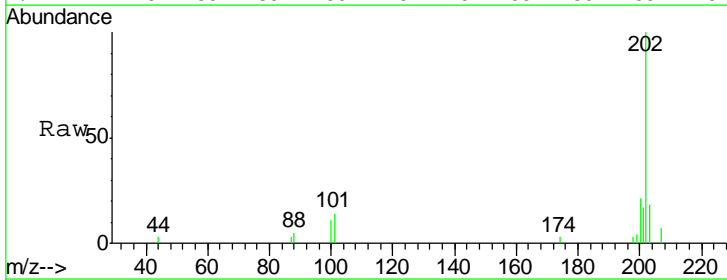
Instrument :
 BNA_N
 ClientSampled :
 A41Y7

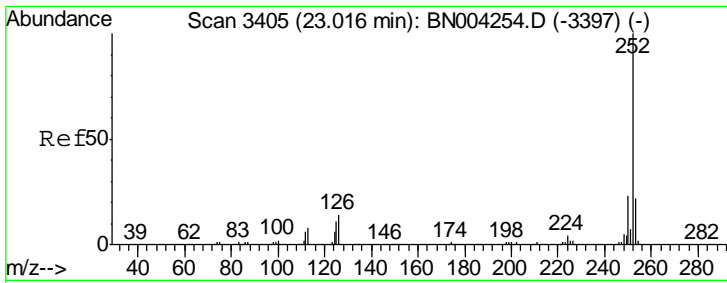
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 12.3 | 10.2 | 15.2 |
| 100 | 9.9 | 7.8 | 11.8 |



#79
 Pyrene
 Concen: 1.282 ng/ul
 RT: 19.63 min Scan# 2830
 Delta R.T. 0.00 min
 Lab File: BN004294.D
 Acq: 29 Dec 2018 10:53

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 202 | 100 | | |
| 101 | 14.1 | 12.2 | 18.2 |
| 100 | 11.3 | 9.9 | 14.9 |

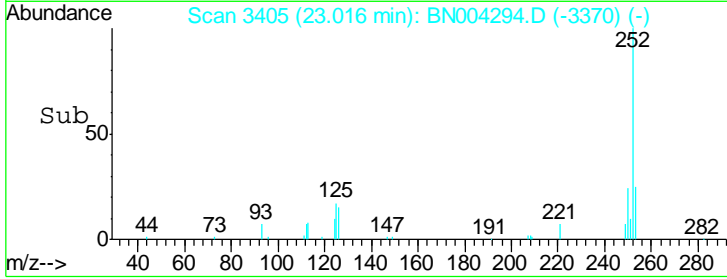
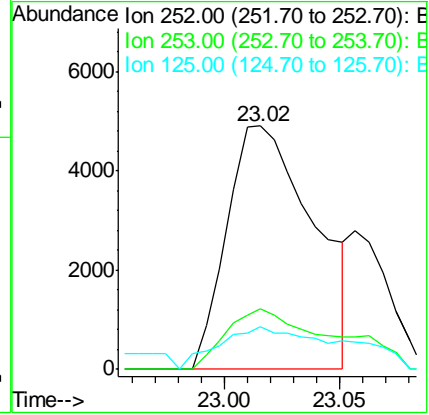
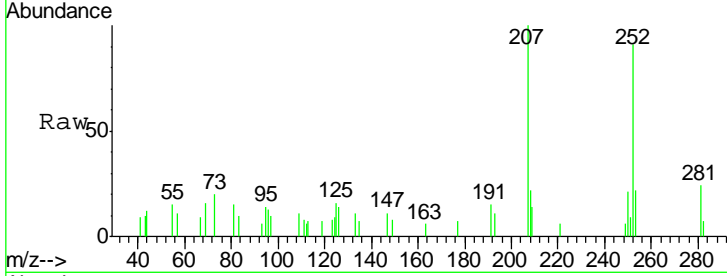




#87
 Benzo(b)fluoranthene
 Concen: 1.052 ng/ul
 RT: 23.02 min Scan# 3405
 Delta R.T. 0.01 min
 Lab File: BN004294.D
 Acq: 29 Dec 2018 10:53

Instrument :
 BNA_N
 ClientSampleId :
 A41Y7

| Tgt Ion | Resp | Lower | Upper |
|---------|-------|-------|-------|
| 252 | 12834 | | |
| 253 | 24.8 | 17.3 | 25.9 |
| 125 | 17.4 | 8.2 | 12.4# |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004294.D
 Acq On : 29 Dec 2018 10:53
 Operator : JU/SJ
 Sample : J6432-08
 Misc : GCMS Confirmation
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y7

Quant Time: Dec 30 23:54:39 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 28 03:12:04 2018
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82 | 152 | 30254 | 20.00 | ng/ul | 0.00 |
| 18) Naphthalene-d8 | 10.62 | 136 | 137339 | 20.00 | ng/ul | 0.00 |
| 35) Acenaphthene-d10 | 14.46 | 164 | 91521 | 20.00 | ng/ul | 0.00 |
| 61) Phenanthrene-d10 | 17.21 | 188 | 214342 | 20.00 | ng/ul | 0.00 |
| 77) Chrysene-d12 | 21.39 | 240 | 225706 | 20.00 | ng/ul | 0.00 |
| 85) Perylene-d12 | 23.72 | 264 | 203623 | 20.00 | ng/ul | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|------|-----|----|------|-------|--|
| 3) 1,4-Dioxane-d8 | 0.00 | 96 | 0 | 0.00 | ng/uL | |
| 5) Phenol-d5 | 0.00 | 99 | 0 | 0.00 | ng/ul | |
| 7) Bis-(2-Chloroethyl)ether-d | 0.00 | 67 | 0 | 0.00 | ng/ul | |
| 9) 2-Chlorophenol-d4 | 0.00 | 132 | 0 | 0.00 | ng/ul | |
| 13) 4-Methylphenol-d8 | 0.00 | 113 | 0 | 0.00 | ng/ul | |
| 19) Nitrobenzene-d5 | 0.00 | 128 | 0 | 0.00 | ng/ul | |
| 22) 2-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 26) 2,4-Dichlorophenol-d3 | 0.00 | 165 | 0 | 0.00 | ng/ul | |
| 29) 4-Chloroaniline-d4 | 0.00 | 131 | 0 | 0.00 | ng/ul | |
| 43) Dimethylphthalate-d6 | 0.00 | 166 | 0 | 0.00 | ng/ul | |
| 46) Acenaphthylene-d8 | 0.00 | 160 | 0 | 0.00 | ng/ul | |
| 51) 4-Nitrophenol-d4 | 0.00 | 143 | 0 | 0.00 | ng/ul | |
| 57) Fluorene-d10 | 0.00 | 176 | 0 | 0.00 | ng/ul | |
| 62) 4,6-Dinitro-2-methylphenol | 0.00 | 200 | 0 | 0.00 | ng/ul | |
| 70) Anthracene-d10 | 0.00 | 188 | 0d | 0.00 | ng/ul | |
| 78) Pyrene-d10 | 0.00 | 212 | 0 | 0.00 | ng/ul | |
| 89) Benzo(a)pyrene-d12 | 0.00 | 264 | 0d | 0.00 | ng/ul | |

Target Compounds

| | | | | | Qvalue |
|--------------------------|-------|-----|-------|--------------|--------|
| 76) Fluoranthene | 19.27 | 202 | 19292 | 1.271 ng/ul | 99 |
| 79) Pyrene | 19.63 | 202 | 16166 | 1.282 ng/ul | 97 |
| 87) Benzo(b)fluoranthene | 23.02 | 252 | 12834 | 1.052 ng/ul# | 89 |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004294.D
 Acq On : 29 Dec 2018 10:53
 Operator : JU/SJ
 Sample : J6432-08
 Misc : GCMS Confirmation
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y7

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF Filtering: 5
 Sampling : 1 Min Area: 1 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 3.193 | 31 | 35 | 41 | rVB | 79182 | 86056 | 12.01% | 2.641% |
| 2 | 4.328 | 225 | 228 | 234 | rBB | 12550 | 16598 | 2.32% | 0.509% |
| 3 | 7.816 | 816 | 821 | 829 | rBB | 103809 | 158796 | 22.16% | 4.873% |
| 4 | 10.616 | 1290 | 1297 | 1313 | rBB | 152190 | 255832 | 35.71% | 7.851% |
| 5 | 11.005 | 1359 | 1363 | 1368 | rBB | 8702 | 11771 | 1.64% | 0.361% |
| 6 | 14.457 | 1945 | 1950 | 1965 | rBV2 | 247595 | 404119 | 56.41% | 12.402% |
| 7 | 17.210 | 2412 | 2418 | 2423 | rBV | 336088 | 496644 | 69.32% | 15.242% |
| 8 | 19.110 | 2738 | 2741 | 2744 | rVB | 10651 | 11005 | 1.54% | 0.338% |
| 9 | 19.263 | 2763 | 2767 | 2775 | rVB | 28844 | 36802 | 5.14% | 1.129% |
| 10 | 19.392 | 2785 | 2789 | 2794 | rVB | 14947 | 16175 | 2.26% | 0.496% |
| 11 | 19.628 | 2826 | 2829 | 2835 | rVB | 22918 | 31114 | 4.34% | 0.955% |
| 12 | 19.963 | 2882 | 2886 | 2890 | rVB2 | 14593 | 15248 | 2.13% | 0.468% |
| 13 | 20.098 | 2906 | 2909 | 2913 | rBV | 52392 | 58730 | 8.20% | 1.802% |
| 14 | 20.381 | 2953 | 2957 | 2961 | rBV | 67167 | 73433 | 10.25% | 2.254% |
| 15 | 20.439 | 2961 | 2967 | 2971 | rVV3 | 12463 | 16077 | 2.24% | 0.493% |
| 16 | 20.539 | 2980 | 2984 | 2989 | rBV2 | 18057 | 22994 | 3.21% | 0.706% |
| 17 | 20.698 | 3004 | 3011 | 3018 | rBV | 39992 | 63248 | 8.83% | 1.941% |
| 18 | 20.845 | 3032 | 3036 | 3039 | rBV | 24047 | 24923 | 3.48% | 0.765% |
| 19 | 20.904 | 3043 | 3046 | 3050 | rVB2 | 10050 | 10649 | 1.49% | 0.327% |
| 20 | 21.116 | 3078 | 3082 | 3087 | rVB | 23972 | 25517 | 3.56% | 0.783% |
| 21 | 21.175 | 3089 | 3092 | 3096 | rBV | 9969 | 11498 | 1.60% | 0.353% |
| 22 | 21.398 | 3123 | 3130 | 3134 | rBV | 520454 | 716459 | 100.00% | 21.988% |
| 23 | 21.722 | 3181 | 3185 | 3191 | rVB2 | 21552 | 26500 | 3.70% | 0.813% |
| 24 | 21.845 | 3203 | 3206 | 3209 | rBV2 | 6734 | 7393 | 1.03% | 0.227% |
| 25 | 22.422 | 3301 | 3304 | 3308 | rVB3 | 10849 | 15253 | 2.13% | 0.468% |
| 26 | 22.939 | 3388 | 3392 | 3396 | rVB2 | 12545 | 19191 | 2.68% | 0.589% |
| 27 | 23.016 | 3401 | 3405 | 3411 | rBV2 | 9450 | 21144 | 2.95% | 0.649% |
| 28 | 23.516 | 3485 | 3490 | 3497 | rBV | 22088 | 38029 | 5.31% | 1.167% |
| 29 | 23.610 | 3504 | 3506 | 3513 | rVB2 | 10008 | 15585 | 2.18% | 0.478% |
| 30 | 23.716 | 3517 | 3524 | 3535 | rBV | 277820 | 537060 | 74.96% | 16.482% |
| 31 | 24.180 | 3600 | 3603 | 3609 | rVB3 | 9320 | 14628 | 2.04% | 0.449% |

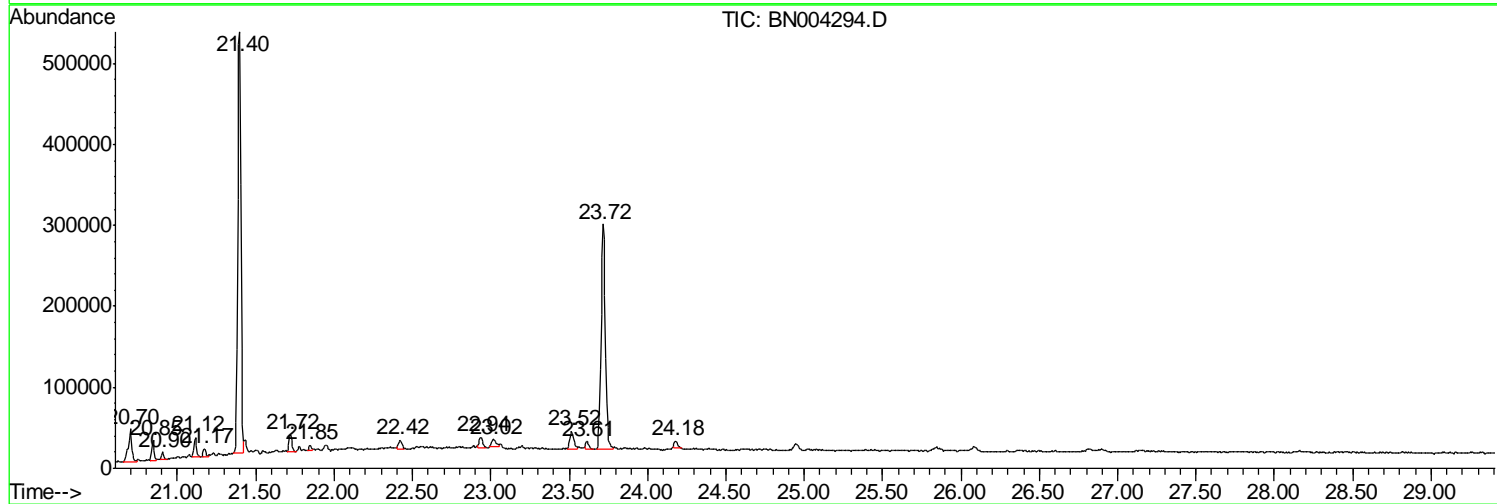
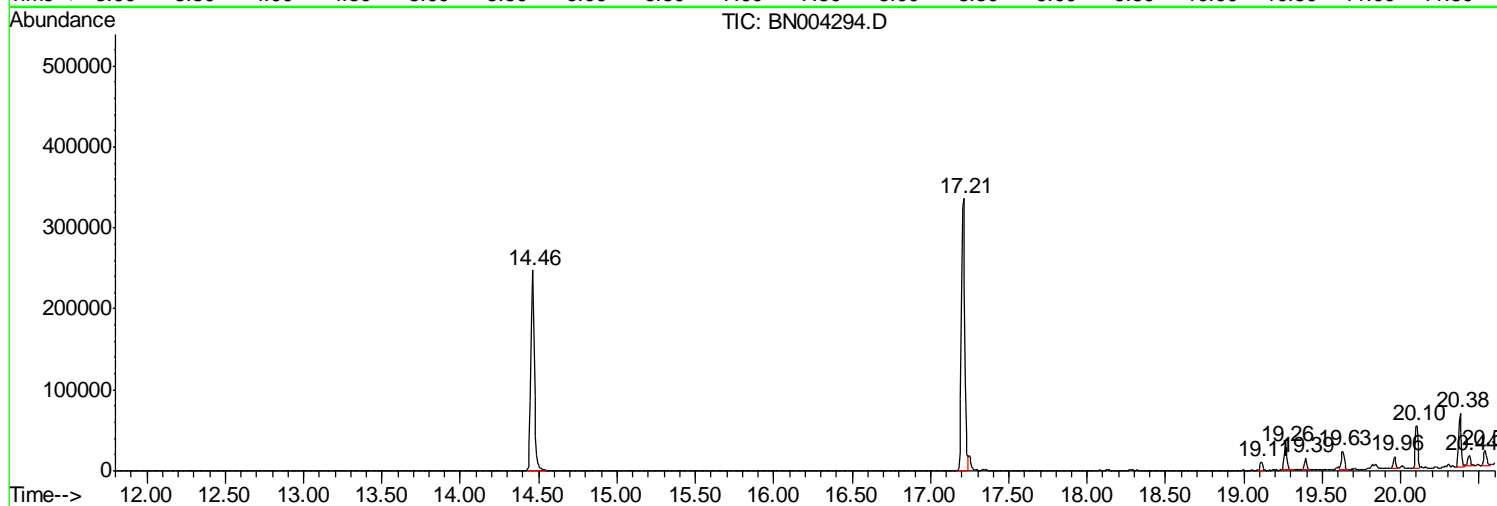
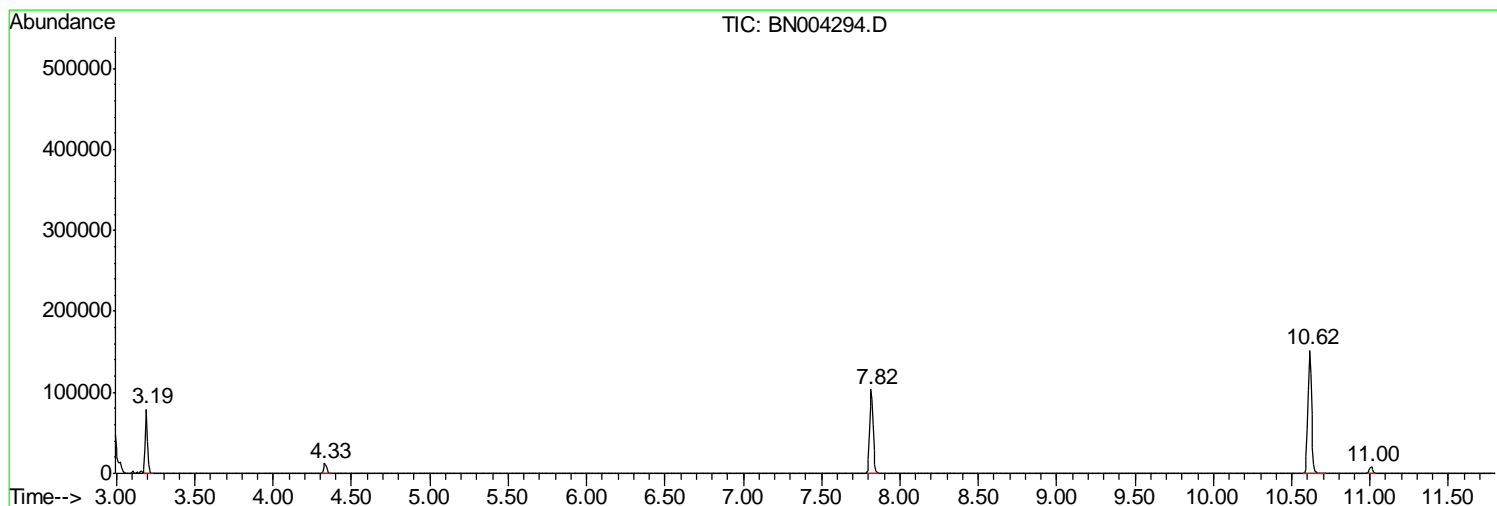
Sum of corrected areas: 3258471

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004294.D
 Acq On : 29 Dec 2018 10:53
 Operator : JU/SJ
 Sample : J6432-08
 Misc : GCMS Confirmation
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004294.D
 Acq On : 29 Dec 2018 10:53
 Operator : JU/SJ
 Sample : J6432-08
 Misc : GCMS Confirmation
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41Y7

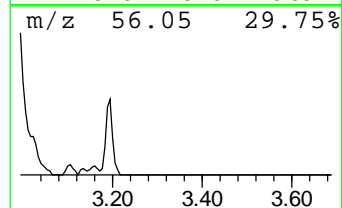
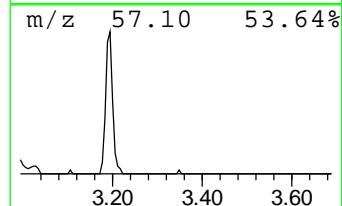
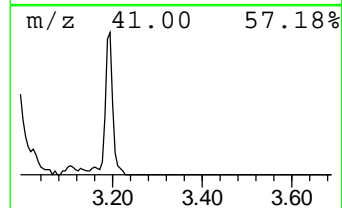
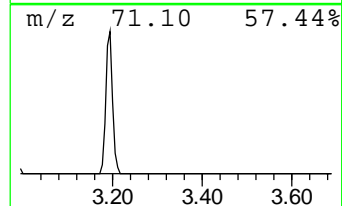
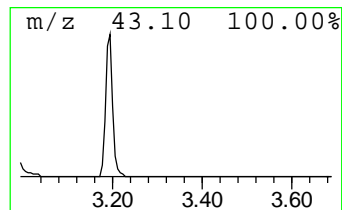
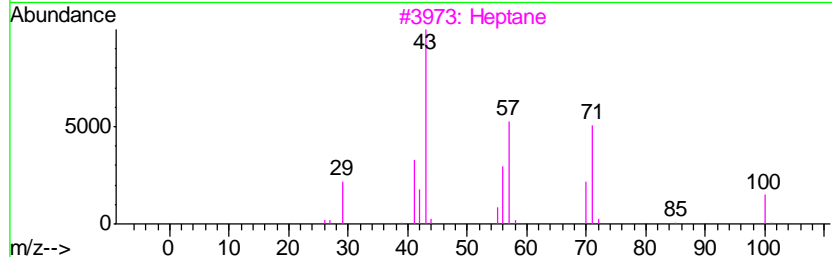
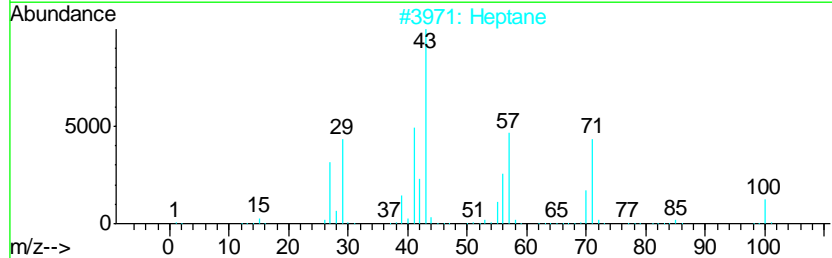
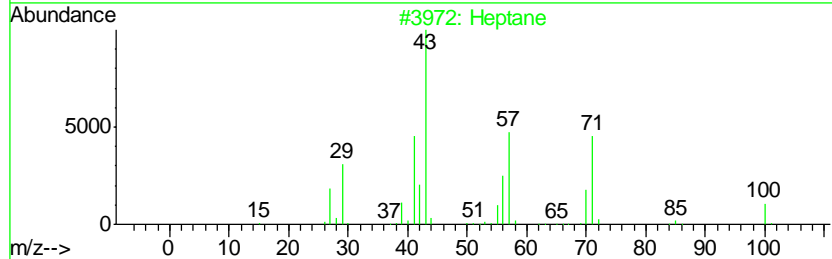
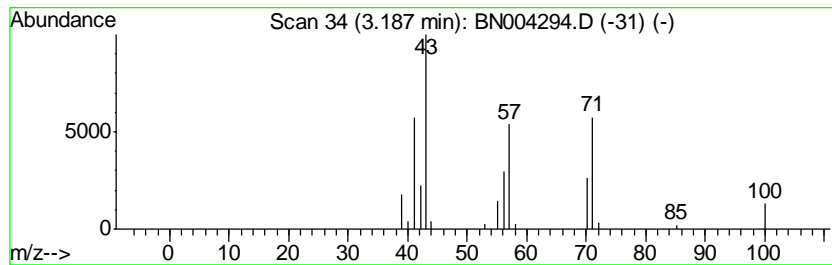
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|-------------|-------|------------------------|------|
| 3.19 | 10.84 ng/ul | 86056 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|------------------------------------|-----|----------|--------------|------|
| 1 | 5 | Heptane | 100 | C7H16 | 000142-82-5 | 95 |
| 2 | | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 5 | | Oxalic acid, isobutyl pentyl ester | 216 | C11H20O4 | 1000309-37-0 | 59 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004294.D
 Acq On : 29 Dec 2018 10:53
 Operator : JU/SJ
 Sample : J6432-08
 Misc : GCMS Confirmation
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleID :
 A41Y7

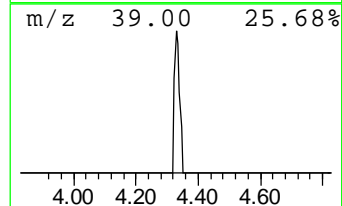
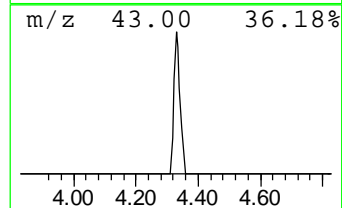
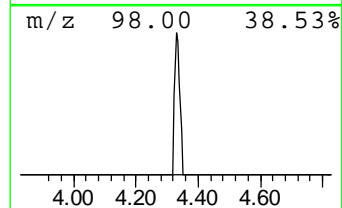
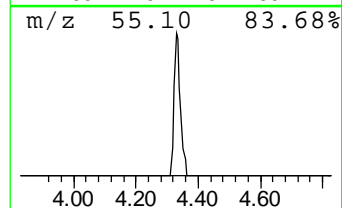
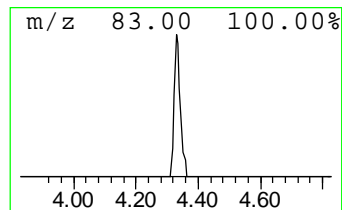
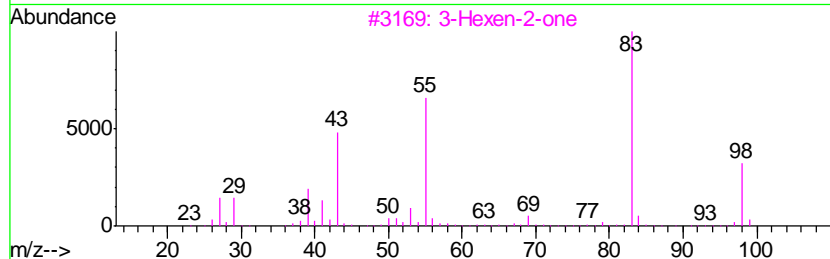
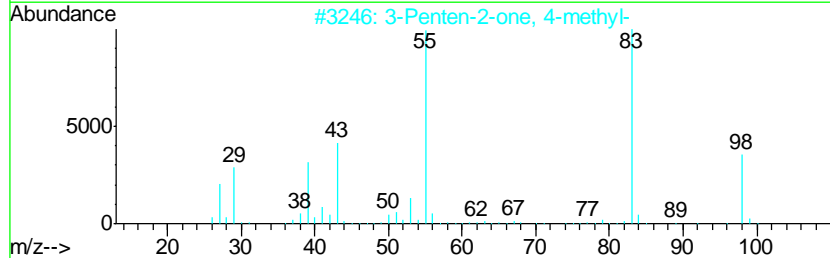
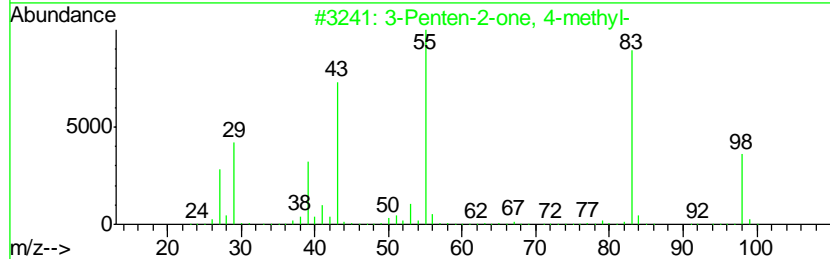
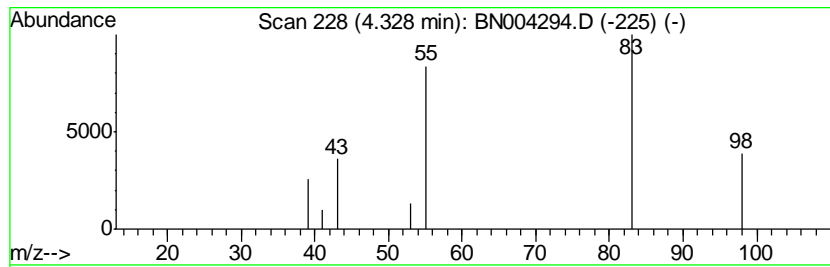
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 2 3-Penten-2-one, 4-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|------|------------|-------|------------------------|------|
| 4.33 | 2.09 ng/ul | 16598 | 1,4-Dichlorobenzene-d4 | 7.82 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|--------------------------------|----|---------|-------------|------|
| 1 | 5 | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 90 |
| 2 | | 3-Penten-2-one, 4-methyl- | 98 | C6H10O | 000141-79-7 | 90 |
| 3 | | 3-Hexen-2-one | 98 | C6H10O | 000763-93-9 | 74 |
| 4 | | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 74 |
| 5 | | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14 | 004914-92-5 | 74 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004294.D
 Acq On : 29 Dec 2018 10:53
 Operator : JU/SJ
 Sample : J6432-08
 Misc : GCMS Confirmation
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y7

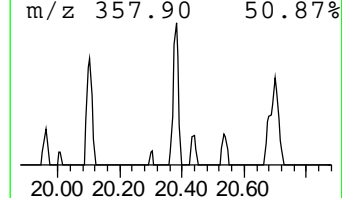
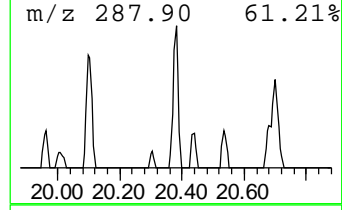
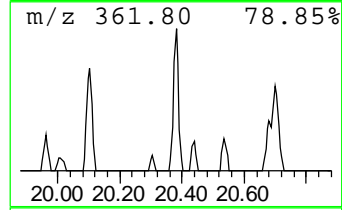
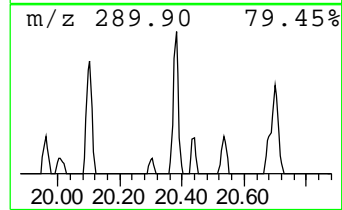
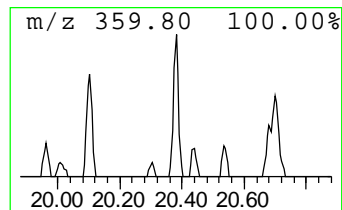
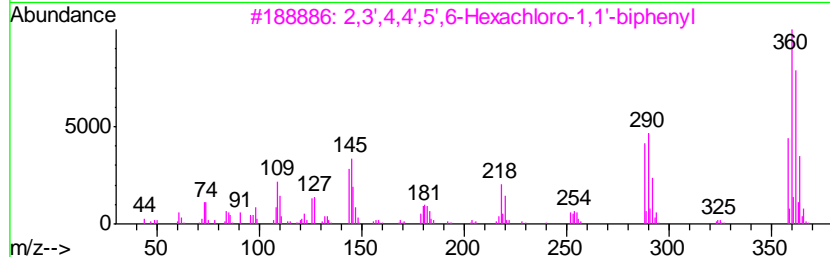
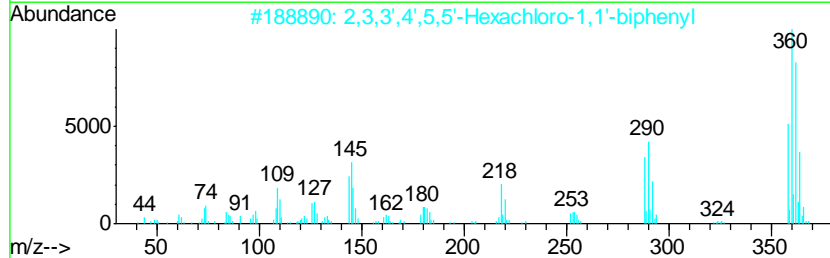
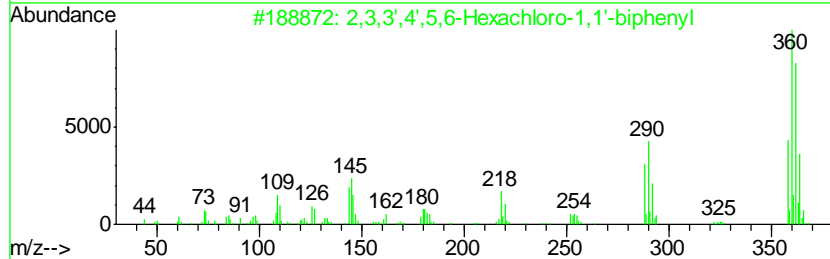
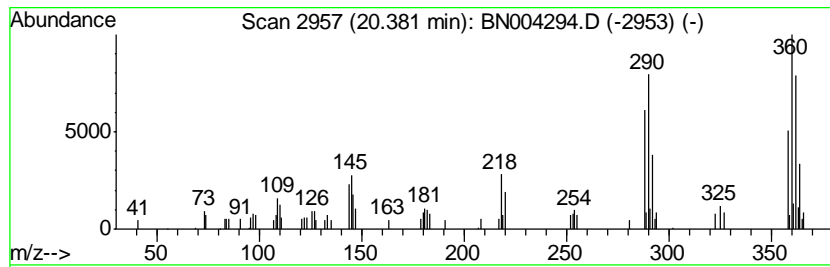
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 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

 Peak Number 3 2,3,3',4',5,6-Hexachloro-1,... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|-------|------------|-------|------------------|-------|
| 20.38 | 2.05 ng/ul | 73433 | Chrysene-d12 | 21.39 |

| Hit# | of | Tentative ID | MW | MolForm | CAS# | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1 | 5 | 2,3,3',4',5,6-Hexachloro-1,1'-bi... | 358 | C12H4Cl6 | 074472-44-9 | 99 |
| 2 | | 2,3,3',4',5,5'-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 039635-34-2 | 99 |
| 3 | | 2,3',4,4',5',6-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 059291-65-5 | 99 |
| 4 | | 2,2',3,4',6,6'-Hexachloro-1,1'-b... | 358 | C12H4Cl6 | 068194-08-1 | 99 |
| 5 | | 1,1'-Biphenyl, 2,3,3',4,5,6-hexa... | 358 | C12H4Cl6 | 041411-62-5 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN122918\
 Data File : BN004294.D
 Acq On : 29 Dec 2018 10:53
 Operator : JU/SJ
 Sample : J6432-08
 Misc : GCMS Confirmation
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A41Y7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION

TIC Library : C:\Database\NIST11.L
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | --Internal Standard-- | | | |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
| | | | | | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 3.19 | 10.8 | ng/ul | 86056 | 1 | 7.82 | 158796 | 20.0 |
| 3-Penten-2-one, 4... | 4.33 | 2.1 | ng/ul | 16598 | 1 | 7.82 | 158796 | 20.0 |
| 2,3,3',4',5,6-Hex... | 20.38 | 2.0 | ng/ul | 73433 | 5 | 21.39 | 716459 | 20.0 |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y7DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-08DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035092.D
 % Solids : 83.7 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

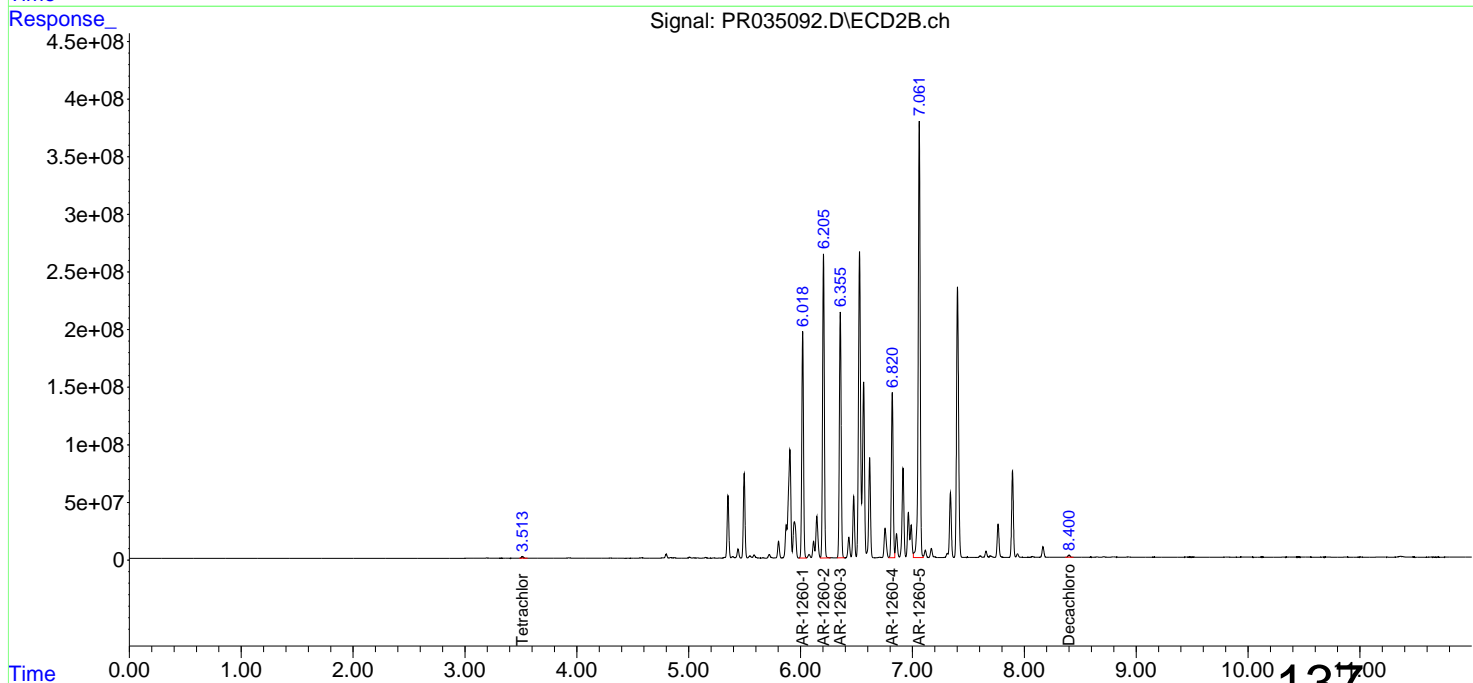
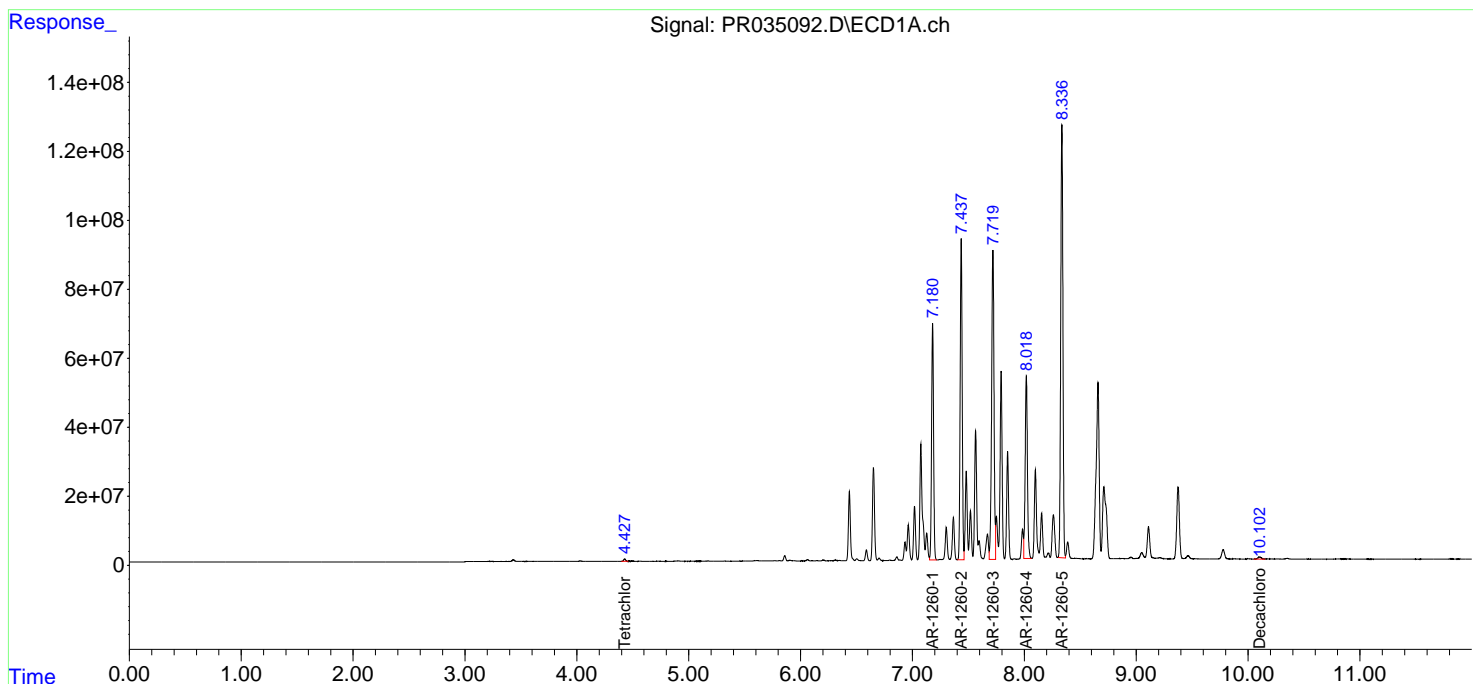
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|----|
| 12674-11-2 | Aroclor-1016 | 200 | U |
| 11104-28-2 | Aroclor-1221 | 200 | U |
| 11141-16-5 | Aroclor-1232 | 200 | U |
| 53469-21-9 | Aroclor-1242 | 200 | U |
| 12672-29-6 | Aroclor-1248 | 200 | U |
| 11097-69-1 | Aroclor-1254 | 200 | U |
| 11096-82-5 | Aroclor-1260 | 19000 | ED |
| 37324-23-5 | Aroclor-1262 | 200 | U |
| 11100-14-4 | Aroclor-1268 | 200 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035092.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:37
 Operator : SM\SJ
 Sample : J6432-08DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y7DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:20:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035092.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:37
 Operator : SM\SJ
 Sample : J6432-08DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y7DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:20:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.513 | 8254971 | 17603802 | 4.244 | 5.050 |
| 2) SA Decachlor... | 10.105 | 8.400 | 13411743 | 24793025 | 6.822 | 5.639 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 848.6E6 | 2115.3E6 | 9026.945 | 9839.956 |
| 32) L7 AR-1260-2 | 7.437 | 6.205 | 1161.8E6 | 2893.3E6 | 10006.408 | 10632.516 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 1331.2E6 | 2407.2E6 | 9538.838 | 9697.301 |
| 34) L7 AR-1260-4 | 8.019 | 6.820 | 742.3E6 | 1611.0E6 | 8595.036 | 9421.834 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 1709.7E6 | 4652.7E6 | 9468.972 | 9620.125 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y7DL2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-08DL2
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035093.D
 % Solids : 83.7 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 50.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

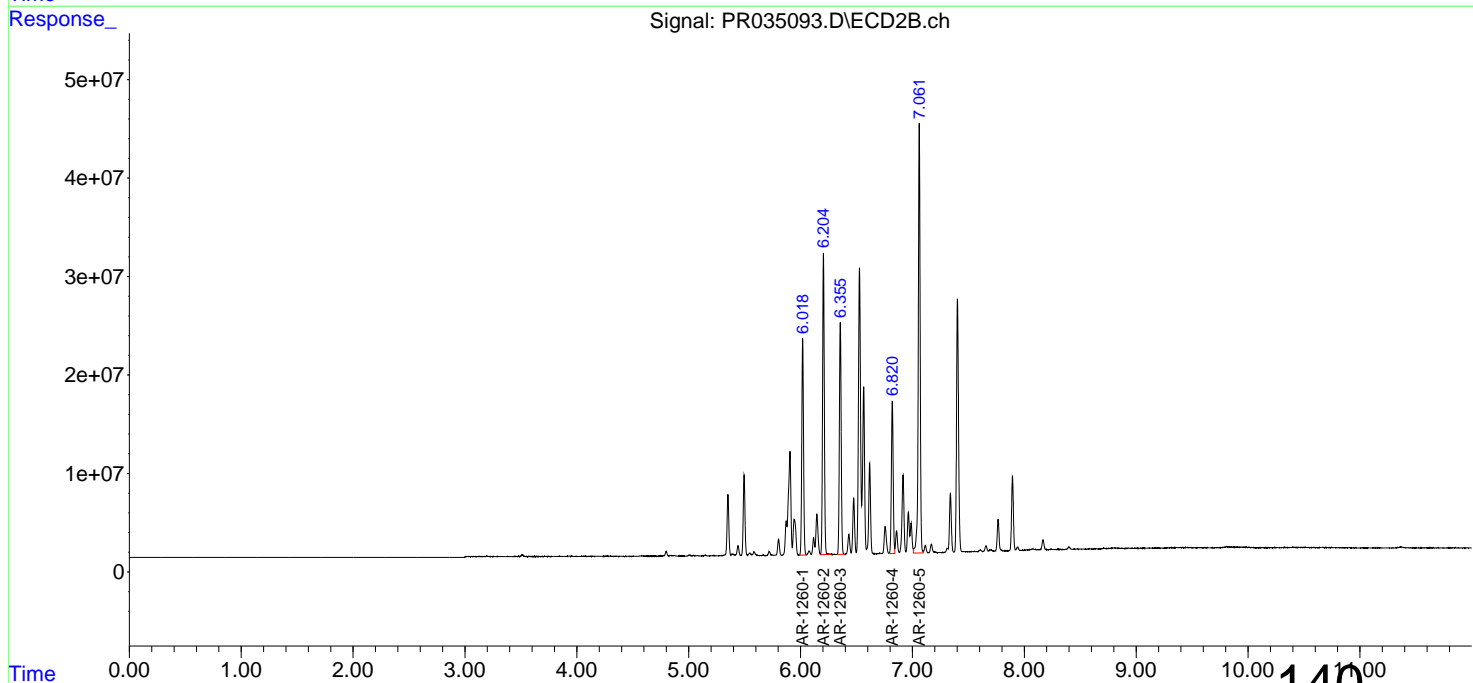
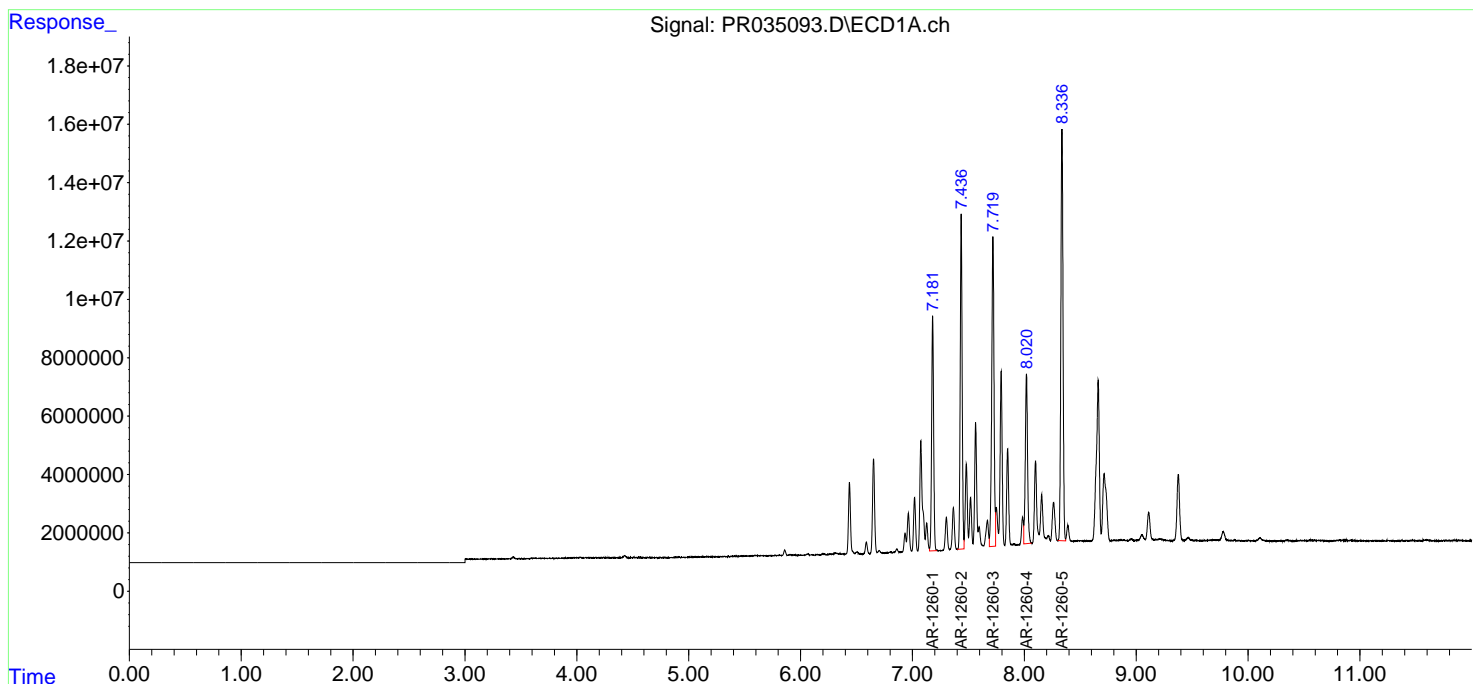
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 2000 | U |
| 11104-28-2 | Aroclor-1221 | 2000 | U |
| 11141-16-5 | Aroclor-1232 | 2000 | U |
| 53469-21-9 | Aroclor-1242 | 2000 | U |
| 12672-29-6 | Aroclor-1248 | 2000 | U |
| 11097-69-1 | Aroclor-1254 | 2000 | U |
| 11096-82-5 | Aroclor-1260 | 21000 | D |
| 37324-23-5 | Aroclor-1262 | 2000 | U |
| 11100-14-4 | Aroclor-1268 | 2000 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035093.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:51
 Operator : SM\SJ
 Sample : J6432-08DL2 50X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y7DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:21:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035093.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 14:51
 Operator : SM\SJ
 Sample : J6432-08DL2 50X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y7DL2

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:21:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|-------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 99446018 | 240.0E6 | 1057.846 | 1116.507 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 136.5E6 | 330.0E6 | 1175.683 | 1212.667 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 151.5E6 | 265.2E6 | 1085.713 | 1068.190 |
| 34) L7 AR-1260-4 | 8.020 | 6.820 | 82023524 | 173.2E6 | 949.747 | 1012.780 |
| 35) L7 AR-1260-5 | 8.337 | 7.061 | 189.4E6 | 510.8E6 | 1049.151 | 1056.183 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y8

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-09
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035005.D
 % Solids : 81.7 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

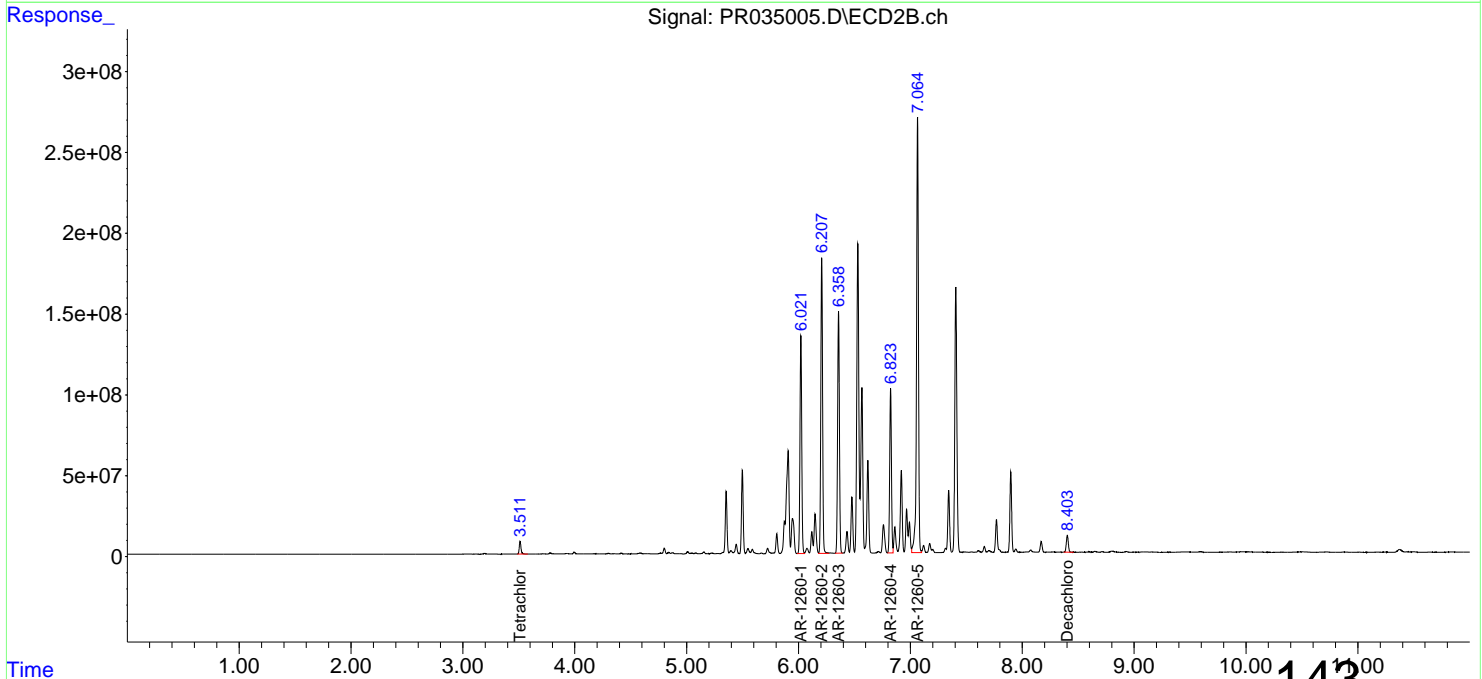
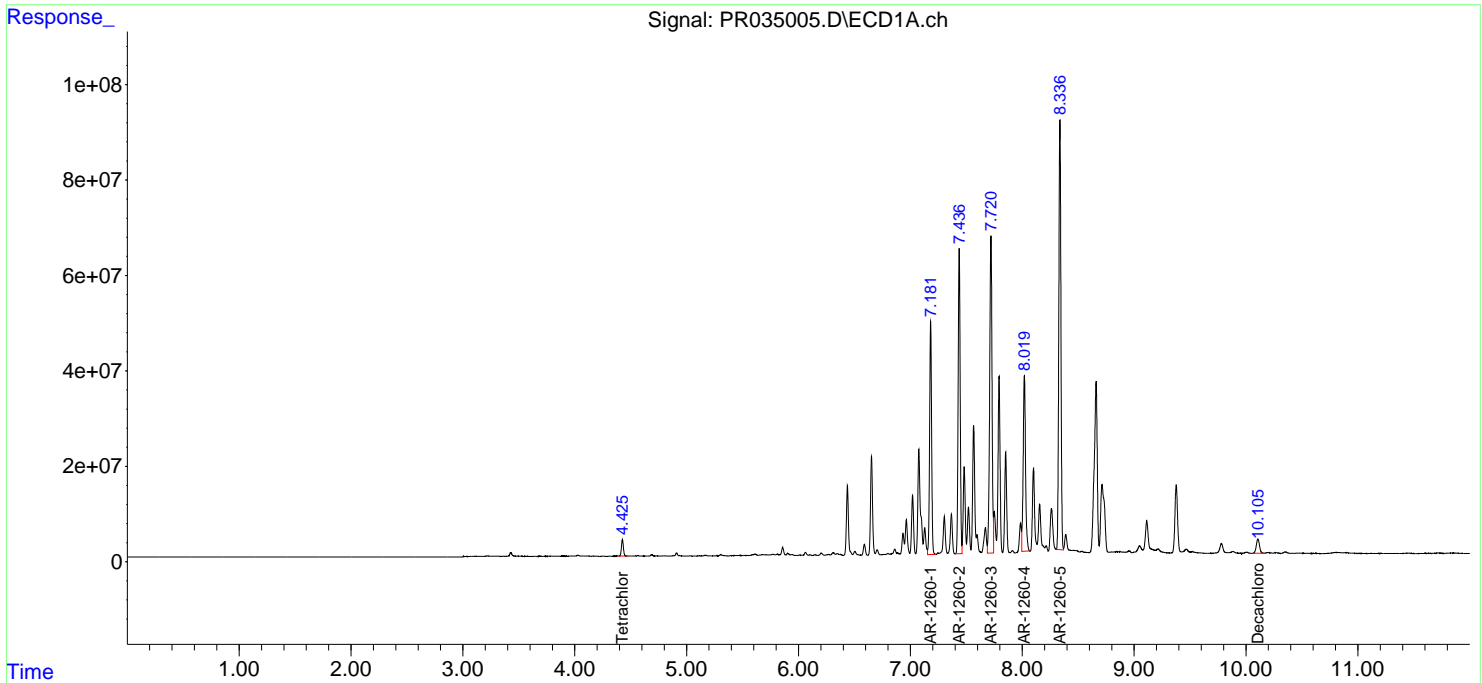
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 40 | U |
| 11104-28-2 | Aroclor-1221 | 40 | U |
| 11141-16-5 | Aroclor-1232 | 40 | U |
| 53469-21-9 | Aroclor-1242 | 40 | U |
| 12672-29-6 | Aroclor-1248 | 40 | U |
| 11097-69-1 | Aroclor-1254 | 40 | U |
| 11096-82-5 | Aroclor-1260 | 2700 | E |
| 37324-23-5 | Aroclor-1262 | 40 | U |
| 11100-14-4 | Aroclor-1268 | 40 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035005.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:23
 Operator : SM\SJ
 Sample : J6432-09
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035005.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:23
 Operator : SM\SJ
 Sample : J6432-09
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 41836696 | 85395296 | 21.510 | 24.496 |
| 2) SA Decachlor... | 10.106 | 8.403 | 59194885 | 130.0E6 | 30.110 | 29.576 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 600.4E6 | 1472.2E6 | 6387.145 | 6848.559 |
| 32) L7 AR-1260-2 | 7.437 | 6.207 | 803.3E6 | 2015.9E6 | 6919.077 | 7408.024 |
| 33) L7 AR-1260-3 | 7.721 | 6.358 | 970.2E6 | 1671.8E6 | 6952.326 | 6734.739 |
| 34) L7 AR-1260-4 | 8.019 | 6.823 | 539.1E6 | 1103.1E6 | 6242.759 | 6451.016 |
| 35) L7 AR-1260-5 | 8.337 | 7.064 | 1181.6E6 | 3231.1E6 | 6544.131 | 6680.761 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y8DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-09DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035085.D
 % Solids : 81.7 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

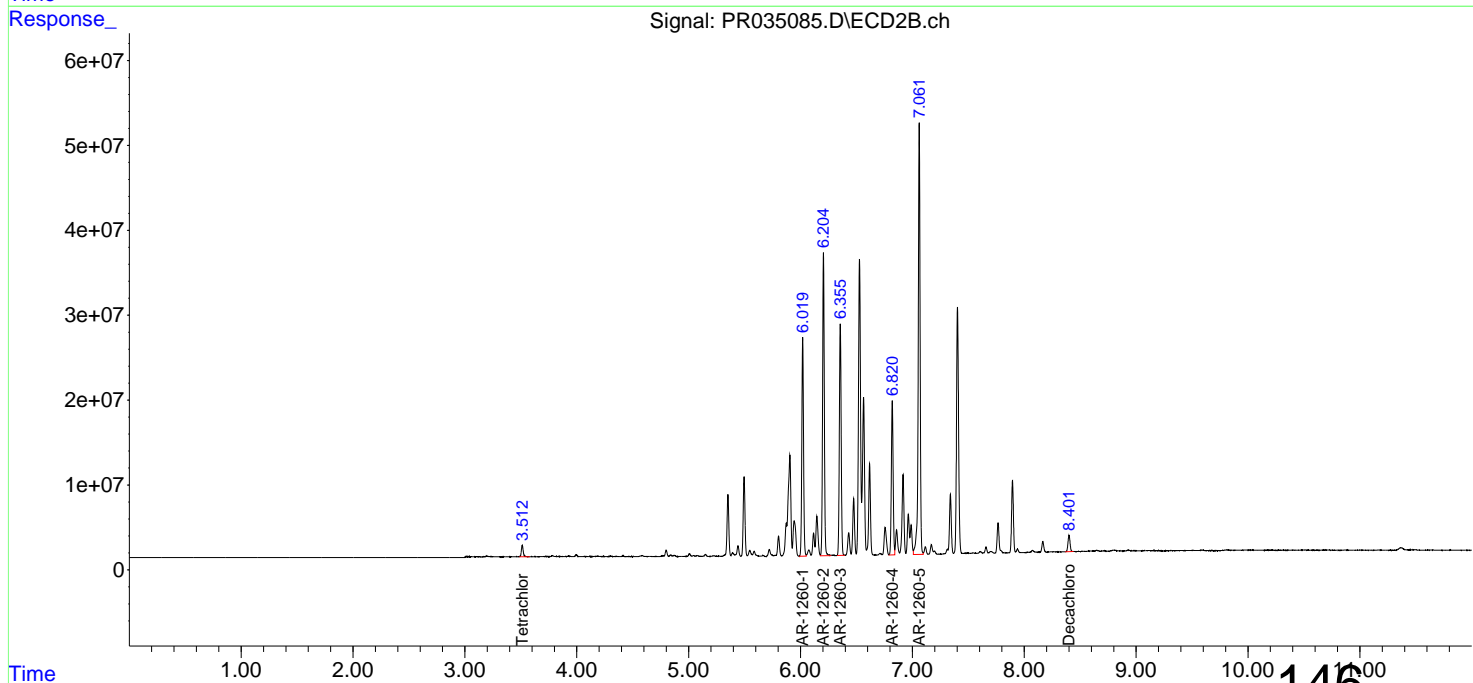
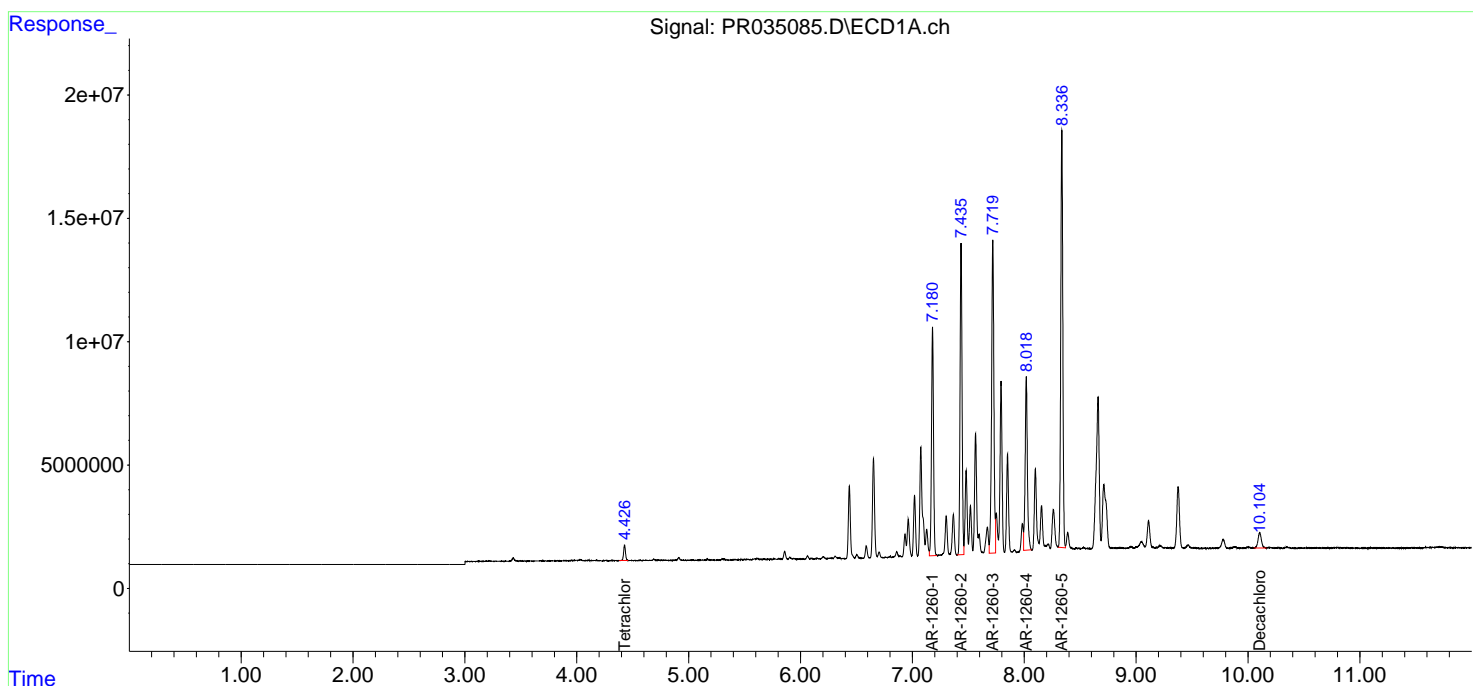
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 200 | U |
| 11104-28-2 | Aroclor-1221 | 200 | U |
| 11141-16-5 | Aroclor-1232 | 200 | U |
| 53469-21-9 | Aroclor-1242 | 200 | U |
| 12672-29-6 | Aroclor-1248 | 200 | U |
| 11097-69-1 | Aroclor-1254 | 200 | U |
| 11096-82-5 | Aroclor-1260 | 2500 | D |
| 37324-23-5 | Aroclor-1262 | 200 | U |
| 11100-14-4 | Aroclor-1268 | 200 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035085.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:56
 Operator : SM\SJ
 Sample : J6432-09DL 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y8DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:00:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035085.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:56
 Operator : SM\SJ
 Sample : J6432-09DL 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y8DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:00:10 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 7313788 | 15659174 | 3.760 | 4.492 |
| 2) SA Decachlor... | 10.105 | 8.401 | 13040924 | 24664499 | 6.633 | 5.610 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.180 | 6.019 | 116.0E6 | 275.1E6 | 1233.674 | 1279.803 |
| 32) L7 AR-1260-2 | 7.435 | 6.205 | 156.4E6 | 383.0E6 | 1347.367 | 1407.518 |
| 33) L7 AR-1260-3 | 7.719 | 6.356 | 179.3E6 | 308.1E6 | 1285.060 | 1240.967 |
| 34) L7 AR-1260-4 | 8.018 | 6.820 | 97942415 | 200.9E6 | 1134.071 | 1175.210 |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 216.0E6 | 593.1E6 | 1196.314 | 1226.277 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Y9

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-10
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035006.D
 % Solids : 74.5 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

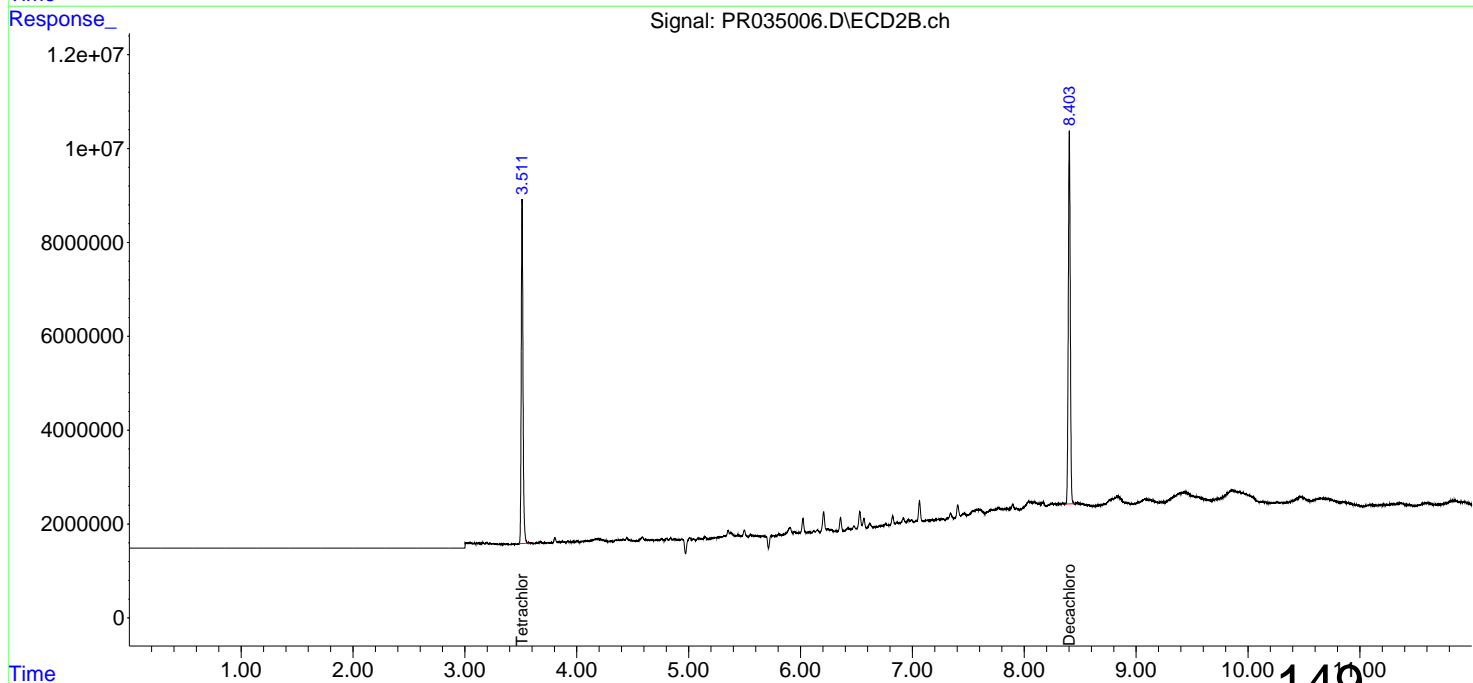
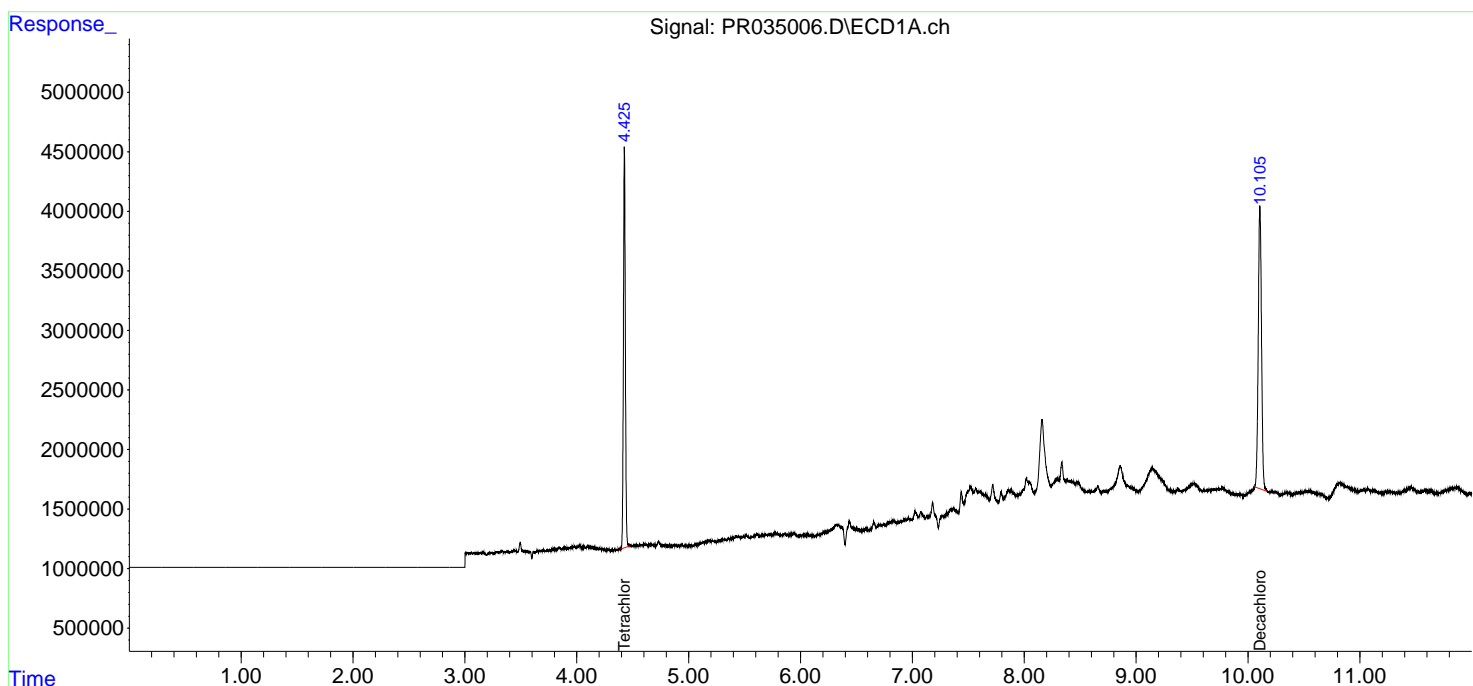
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 44 | U |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:37
 Operator : SM\SJ
 Sample : J6432-10
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Y9

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035006.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:37
 Operator : SM\SJ
 Sample : J6432-10
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Y9

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 40045119 | 80413445 | 20.588 | 23.067 |
| 2) SA Decachlor... | 10.106 | 8.403 | 47933923 | 97924575 | 24.382 | 22.272 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z0

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-11
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035007.D
 % Solids : 72.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 46 | U |
| 11104-28-2 | Aroclor-1221 | 46 | U |
| 11141-16-5 | Aroclor-1232 | 46 | U |
| 53469-21-9 | Aroclor-1242 | 46 | U |
| 12672-29-6 | Aroclor-1248 | 46 | U |
| 11097-69-1 | Aroclor-1254 | 46 | U |
| 11096-82-5 | Aroclor-1260 | 33 | J |
| 37324-23-5 | Aroclor-1262 | 46 | U |
| 11100-14-4 | Aroclor-1268 | 46 | U |

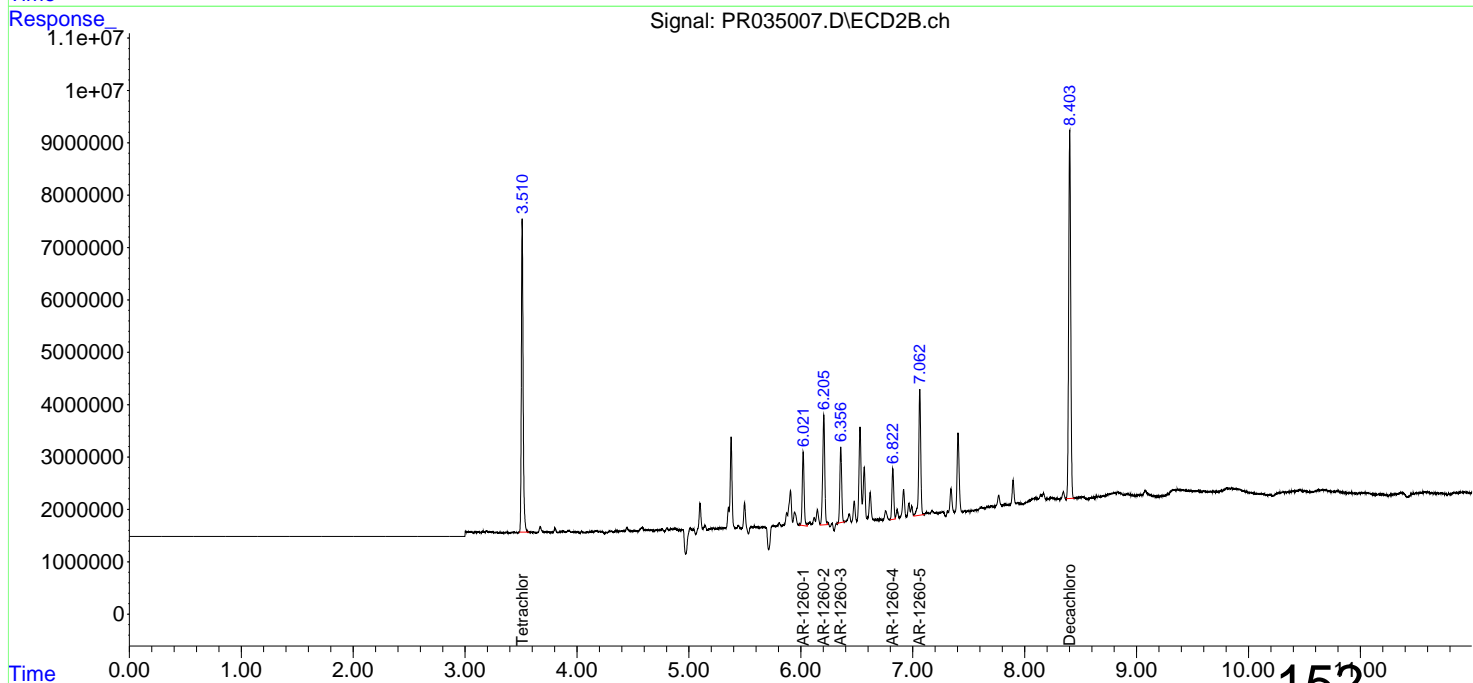
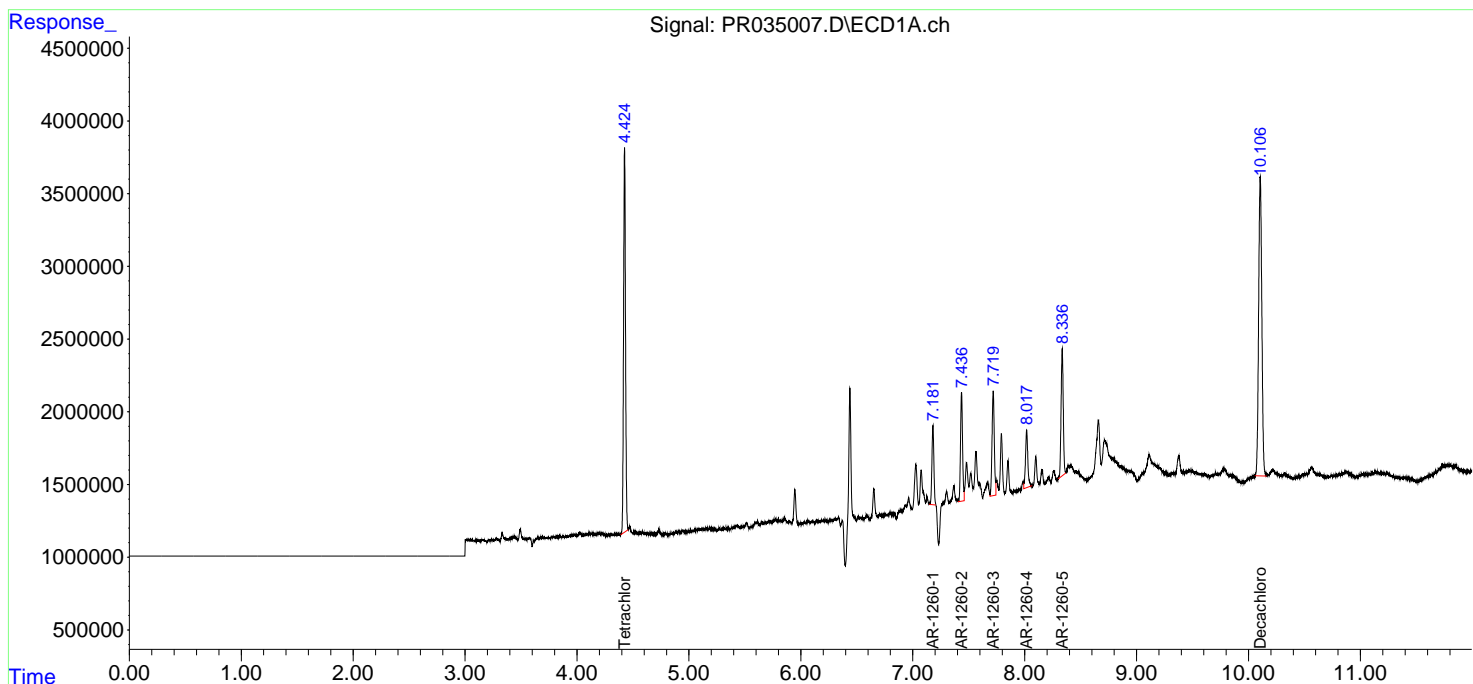
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:52
 Operator : SM\SJ
 Sample : J6432-11
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z0

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:31 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:52
 Operator : SM\SJ
 Sample : J6432-11
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z0

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:31 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 32051047 | 65372179 | 16.478 | 18.753 |
| 2) SA Decachlor... | 10.105 | 8.403 | 40717674 | 89669464 | 20.712 | 20.395 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 6619183 | 16419132 | 70.411m | 76.378 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 9487558 | 27054008 | 81.718 | 99.419m |
| 33) L7 AR-1260-3 | 7.720 | 6.357 | 10095010 | 16535980 | 72.336 | 66.614 |
| 34) L7 AR-1260-4 | 8.018 | 6.822 | 5759111 | 10919528 | 66.684 | 63.861 |
| 35) L7 AR-1260-5 | 8.336 | 7.063 | 11729139 | 29998192 | 64.962 | 62.025 |
| ----- | | | | | | |

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

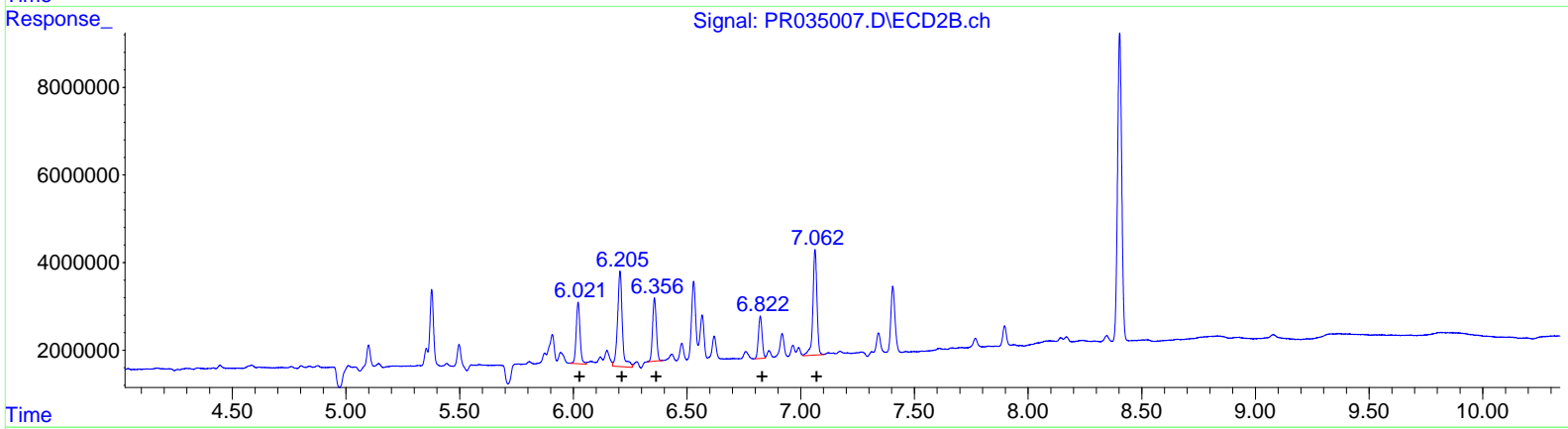
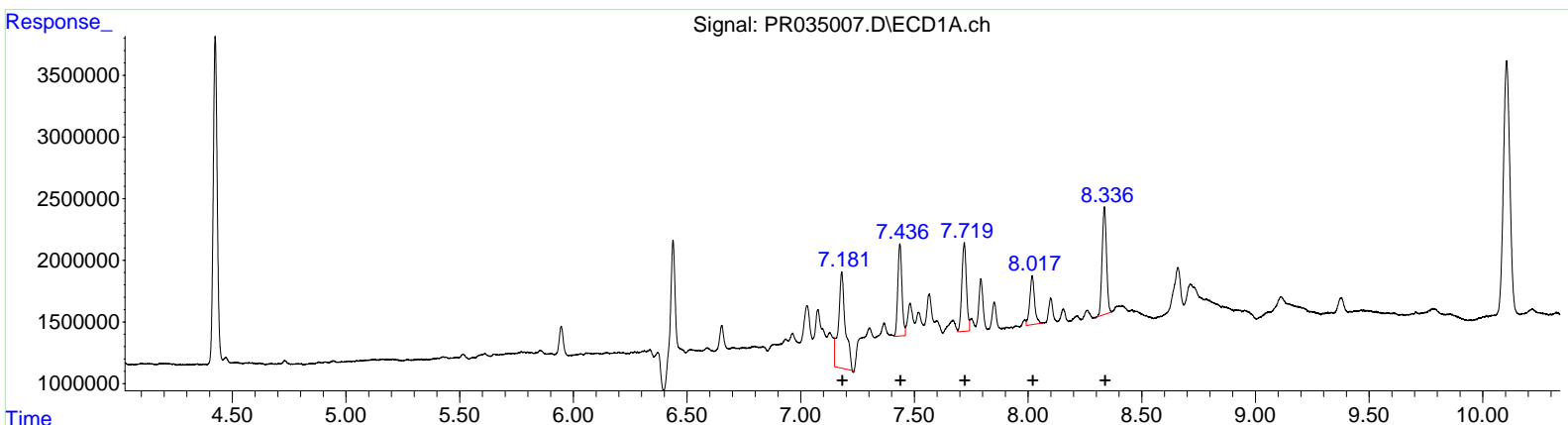
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:52
 Operator : SM\SJ
 Sample : J6432-11
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z0

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:31 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 16496434 | 175.48 |
| 7.44 | 9487558 | 81.72 |
| 7.72 | 10095010 | 72.34 |
| 8.02 | 5759111 | 66.68 |
| 8.34 | 11729139 | 64.96 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.02 | 16419132 | 76.38 |
| 6.21 | 31500554 | 115.76 |
| 6.36 | 16535980 | 66.61 |
| 6.82 | 10919528 | 63.86 |
| 7.06 | 29998192 | 62.03 |

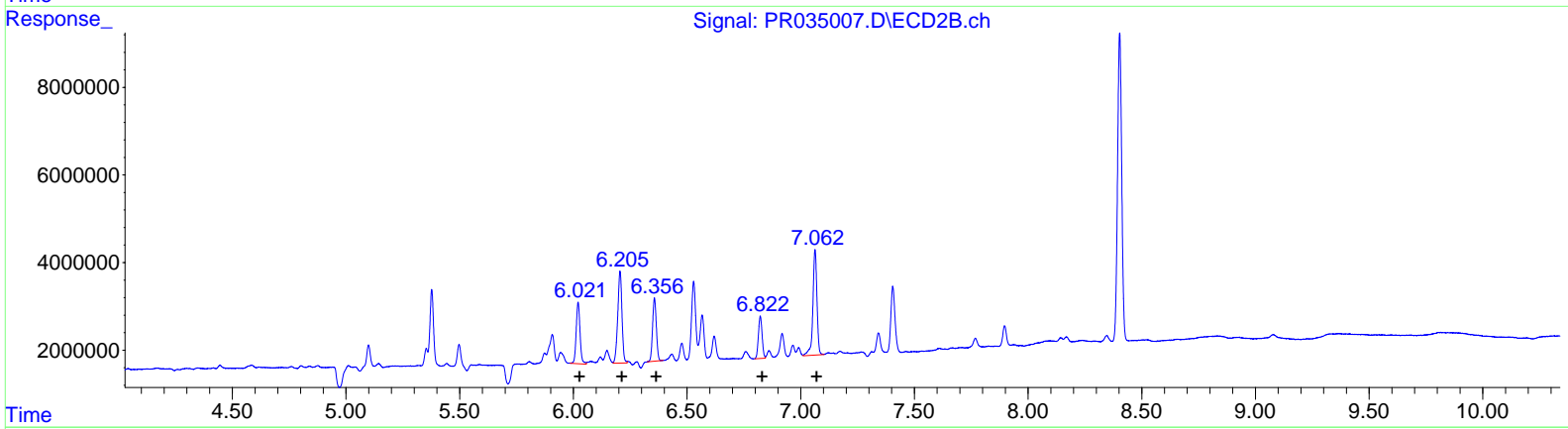
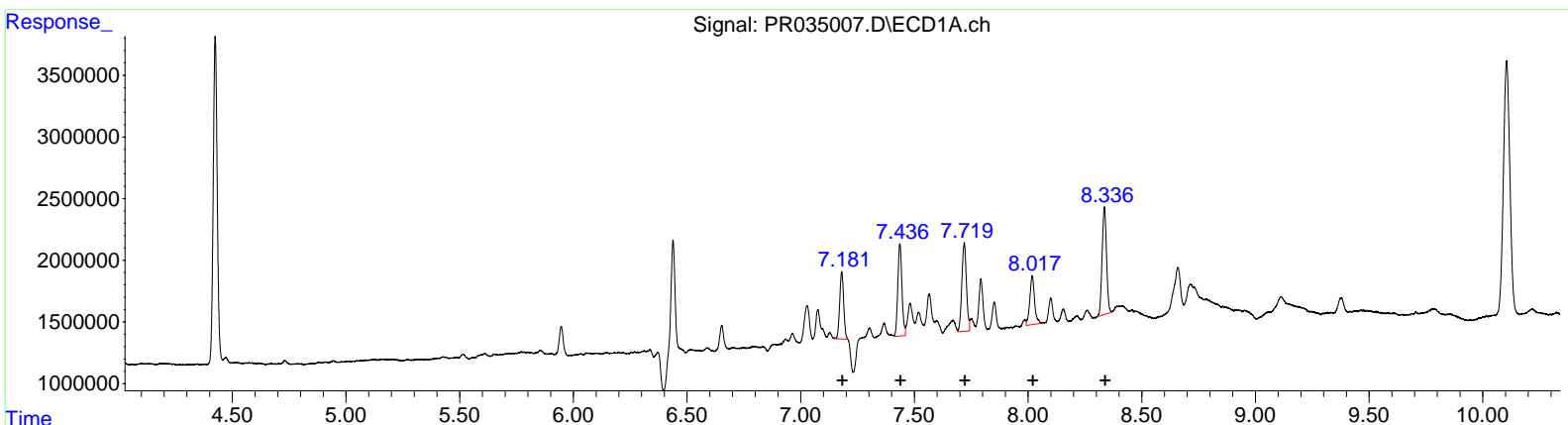
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:52
 Operator : SM\SJ
 Sample : J6432-11
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z0

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:31 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|-------|
| 7.18 | 6619183 | 70.41 |
| 7.44 | 9487558 | 81.72 |
| 7.72 | 10095010 | 72.34 |
| 8.02 | 5759111 | 66.68 |
| 8.34 | 11729139 | 64.96 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|-------|
| 6.02 | 16419132 | 76.38 |
| 6.20 | 27054008 | 99.42 |
| 6.36 | 16535980 | 66.61 |
| 6.82 | 10919528 | 63.86 |
| 7.06 | 29998192 | 62.03 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035007.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 23:52
 Operator : SM\SJ
 Sample : J6432-11
 Misc :
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z0

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:38 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:31 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 32051047 | 65372179 | 16.478 | 18.753 |
| 2) SA Decachlor... | 10.105 | 8.403 | 40717674 | 89669464 | 20.712 | 20.395 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 6619183 | 16419132 | 70.411m | 76.378 |
| 32) L7 AR-1260-2 | 7.436 | 6.205 | 9487558 | 27054008 | 81.718 | 99.419m |
| 33) L7 AR-1260-3 | 7.720 | 6.357 | 10095010 | 16535980 | 72.336 | 66.614 |
| 34) L7 AR-1260-4 | 8.018 | 6.822 | 5759111 | 10919528 | 66.684 | 63.861 |
| 35) L7 AR-1260-5 | 8.336 | 7.063 | 11729139 | 29998192 | 64.962 | 62.025 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z1

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-12
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035008.D
 % Solids : 75.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

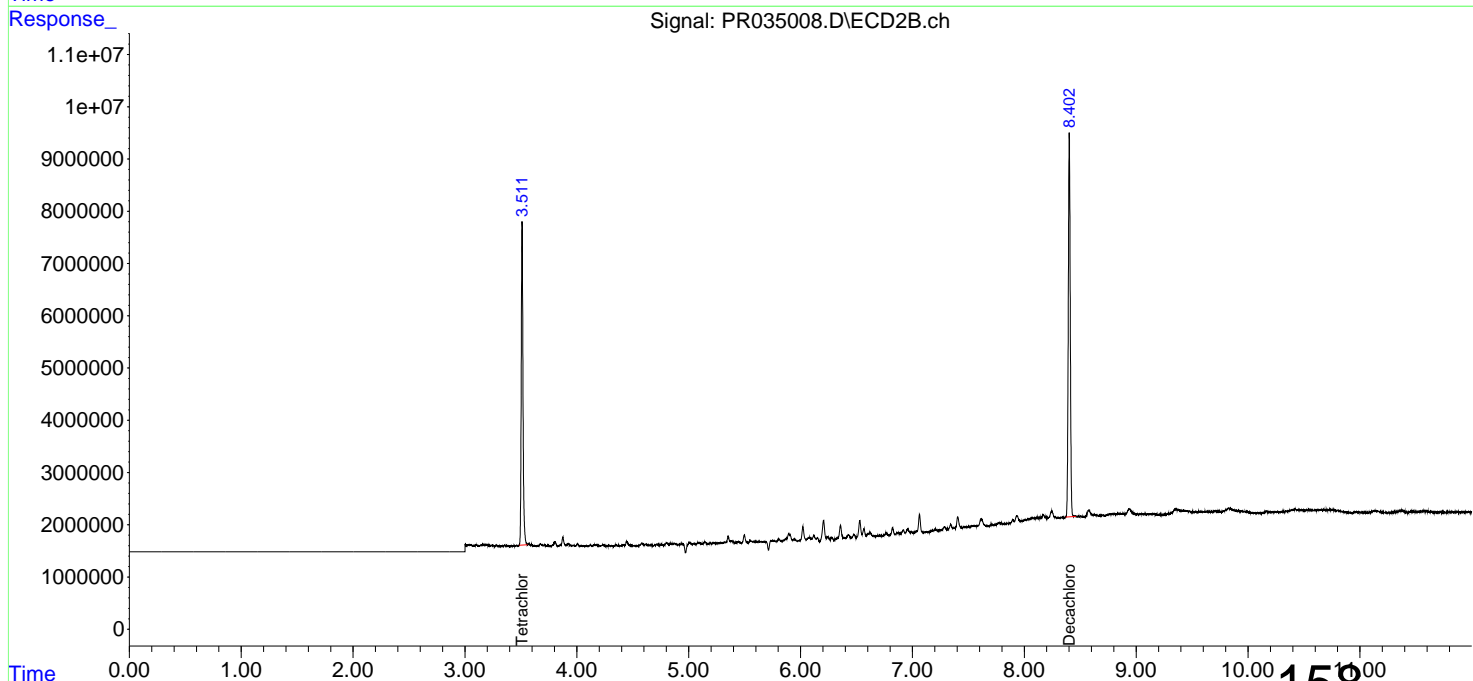
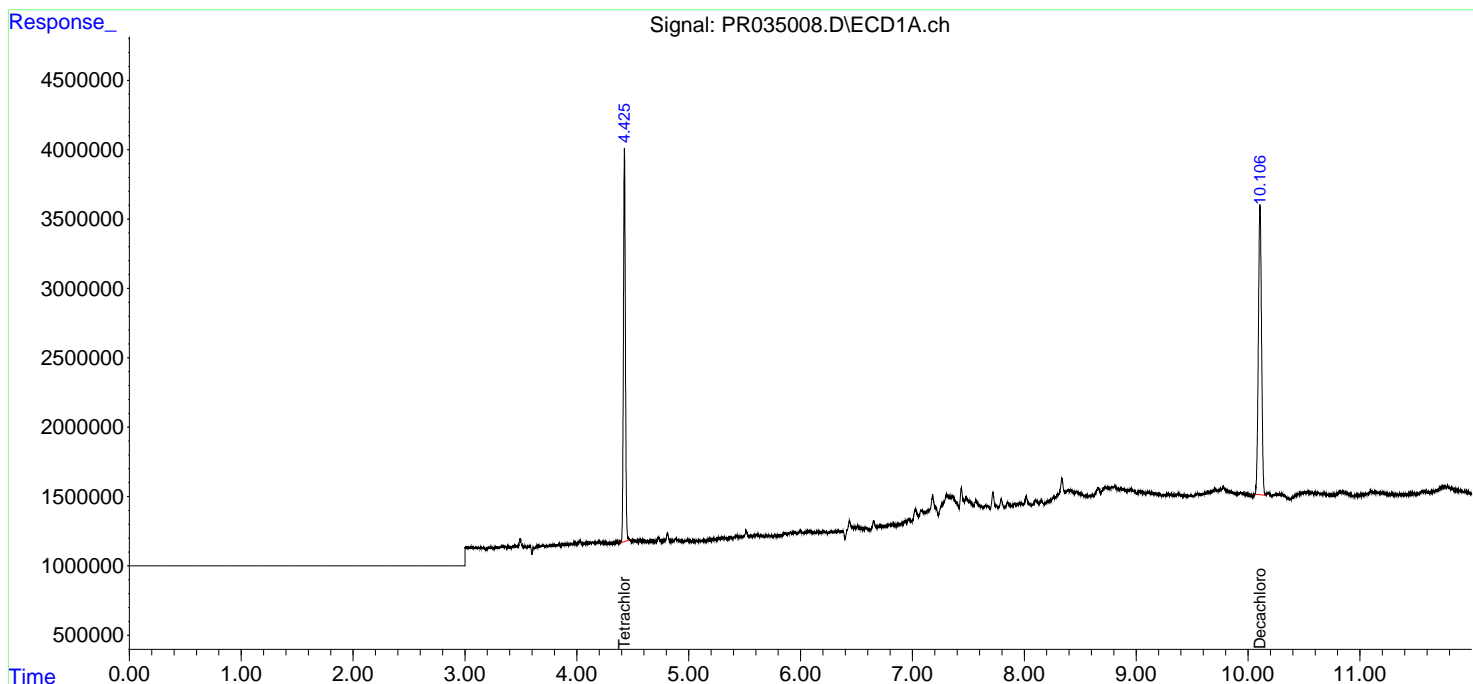
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 44 | U |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 44 | U |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035008.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:06
 Operator : SM\SJ
 Sample : J6432-12
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:48 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035008.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:06
 Operator : SM\SJ
 Sample : J6432-12
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Z1

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:41:48 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 34507818 | 67128039 | 17.742 | 19.256 |
| 2) SA Decachlor... | 10.107 | 8.402 | 41126190 | 90540038 | 20.920 | 20.593 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z2

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-13
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035082.D
 % Solids : 79 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 42 | U |
| 11097-69-1 | Aroclor-1254 | 59 | |
| 11096-82-5 | Aroclor-1260 | 90 | |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

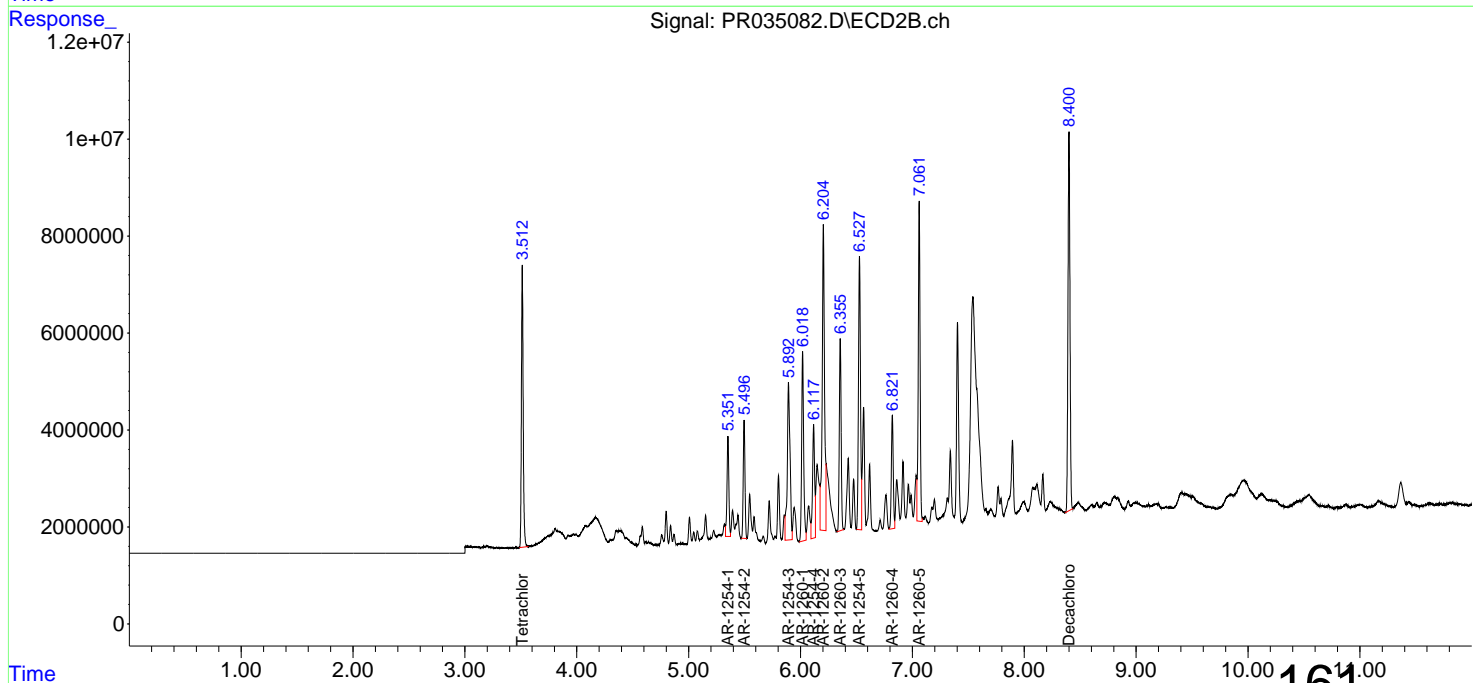
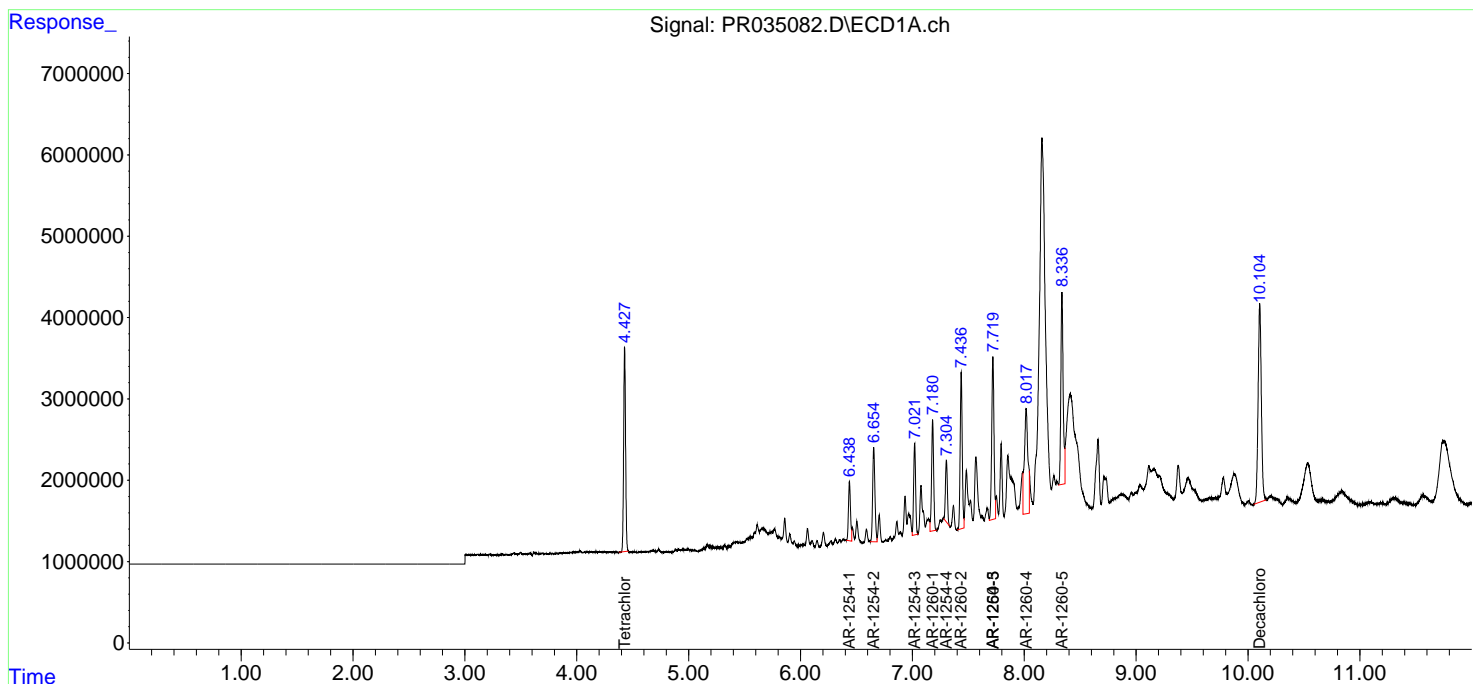
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035082.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:12
 Operator : SM\SJ
 Sample : J6432-13
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:45 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:46:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035082.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:12
 Operator : SM\SJ
 Sample : J6432-13
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41Z2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:45 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:46:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 30291059 | 64120766 | 15.574 | 18.394 |
| 2) SA Decachlor... | 10.105 | 8.400 | 48700350 | 96594185 | 24.772 | 21.970 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.438 | 5.351 | 9174462 | 23778145 | 112.288 | 97.175m |
| 27) L6 AR-1254-2 | 6.655 | 5.496 | 16416595 | 26185986 | 128.479 | 123.118m |
| 28) L6 AR-1254-3 | 7.021 | 5.892 | 13952930 | 55664521 | 103.376 | 155.784m# |
| 29) L6 AR-1254-4 | 7.304 | 6.117 | 9299479 | 30573109 | 87.667m | 129.443 # |
| 30) L6 AR-1254-5 | 7.720 | 6.527 | 28057740 | 70800901 | 261.871 | 221.987 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 17471982 | 48780282 | 185.856 | 226.914 |
| 32) L7 AR-1260-2 | 7.437 | 6.204 | 24443032 | 91855436 | 210.532 | 337.553m# |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 28057740 | 45056959 | 201.049 | 181.509 |
| 34) L7 AR-1260-4 | 8.017 | 6.821 | 28241469 | 27384526 | 327.007m | 160.152 # |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 33993844 | 74923326 | 188.276m | 154.914m |

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

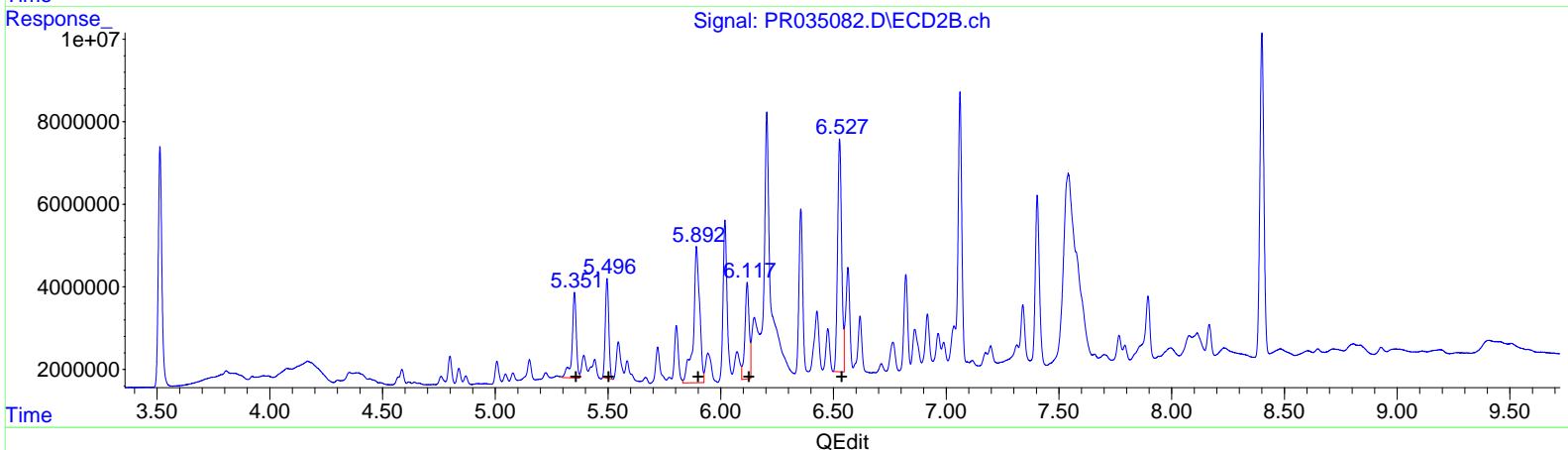
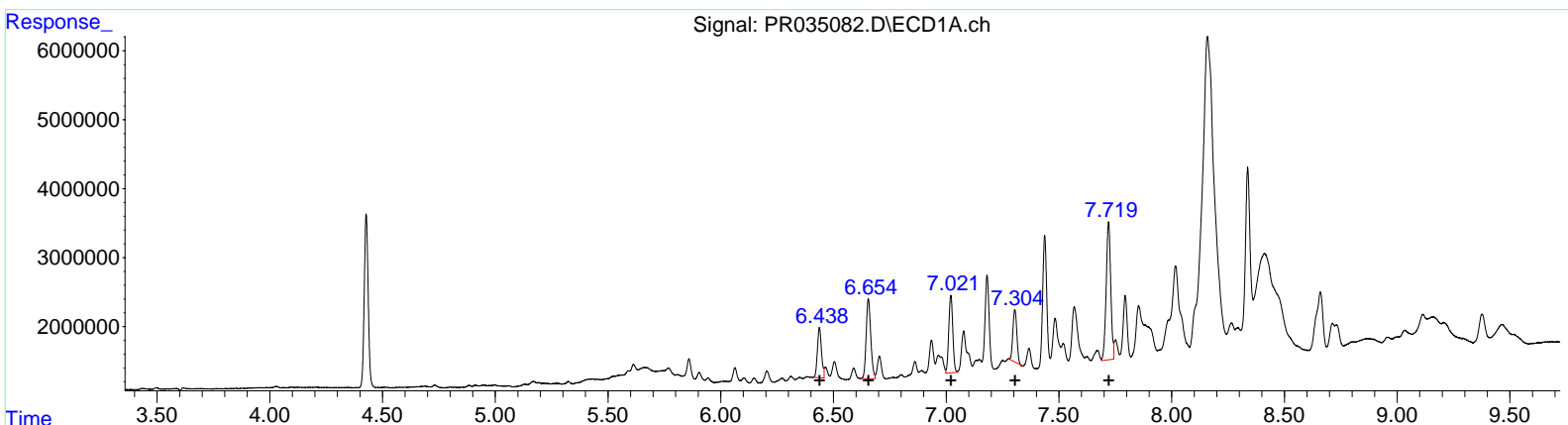
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035082.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:12
 Operator : SM\SJ
 Sample : J6432-13
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:45 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:46:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

| (26) AR-1254-1 (L6) | | |
|---------------------|----------|--------|
| R.T. | Response | Conc |
| 6.44 | 9174462 | 112.29 |
| 6.65 | 16416595 | 128.48 |
| 7.02 | 13952930 | 103.38 |
| 7.30 | 9288139 | 87.56 |
| 7.72 | 28057740 | 261.87 |

| (26) AR-1254-1 #2 (L6) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 5.35 | 27155168 | 110.98 |
| 5.50 | 25552169 | 120.14 |
| 5.89 | 63781991 | 178.50 |
| 6.12 | 30573109 | 129.44 |
| 6.53 | 70800901 | 221.99 |

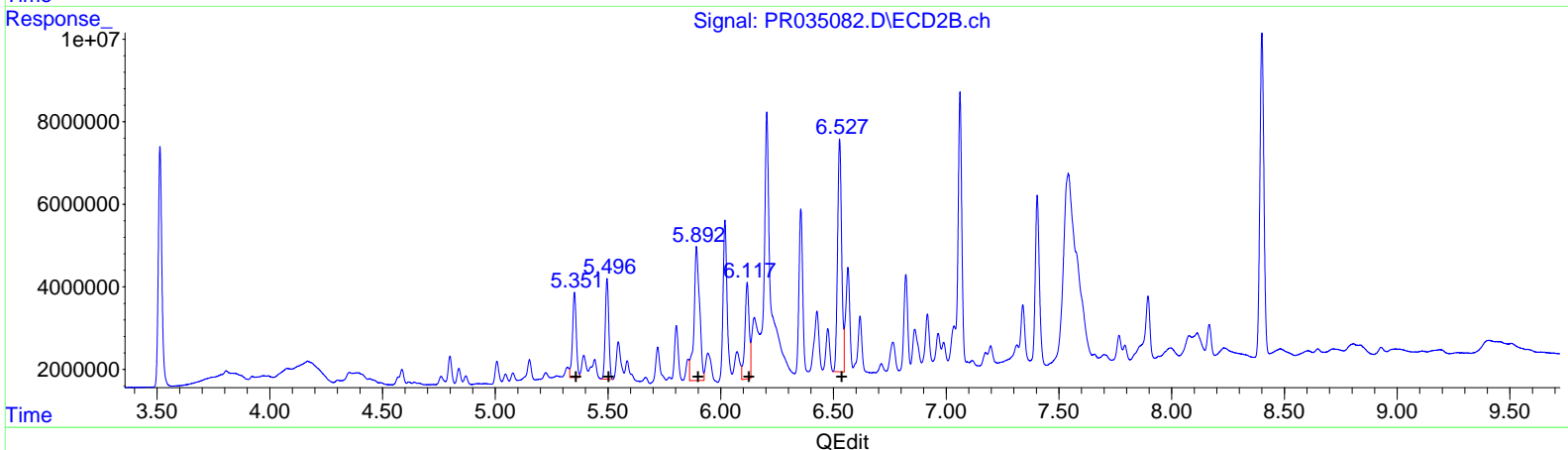
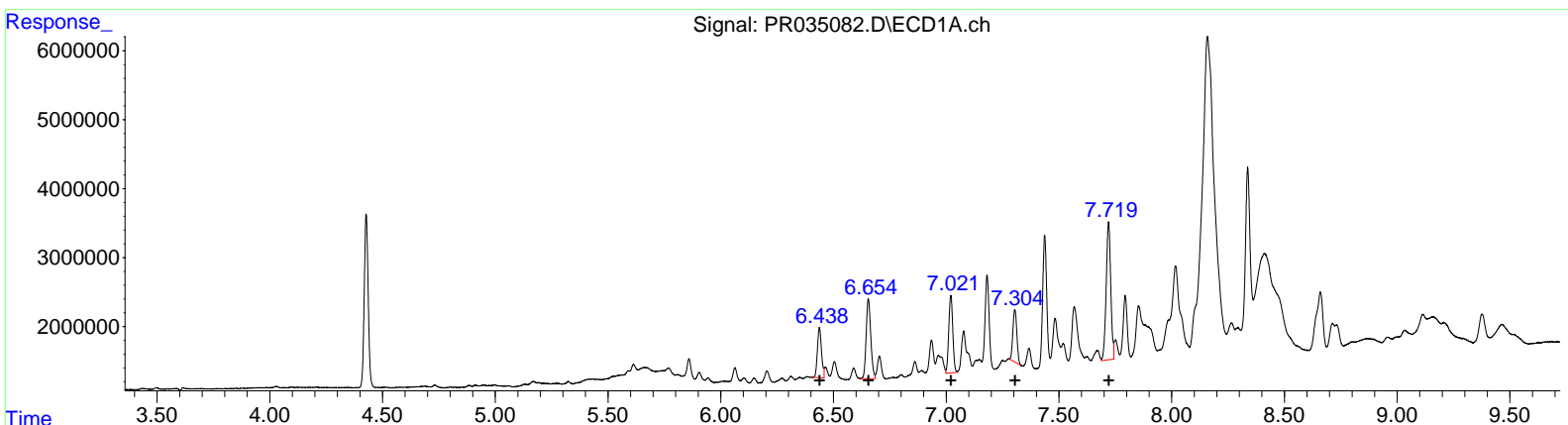
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035082.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:12
 Operator : SM\SJ
 Sample : J6432-13
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:45 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:46:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (26) AR-1254-1 (L6) | | |
|------------------------|----------|--------|
| R.T. | Response | Conc |
| 6.44 | 9174462 | 112.29 |
| 6.65 | 16416595 | 128.48 |
| 7.02 | 13952930 | 103.38 |
| 7.30 | 9299479 | 87.67 |
| 7.72 | 28057740 | 261.87 |
| (26) AR-1254-1 #2 (L6) | | |
| R.T. | Response | Conc |
| 5.35 | 23778145 | 97.18 |
| 5.50 | 26185986 | 123.12 |
| 5.89 | 55664521 | 155.78 |
| 6.12 | 30573109 | 129.44 |
| 6.53 | 70800901 | 221.99 |

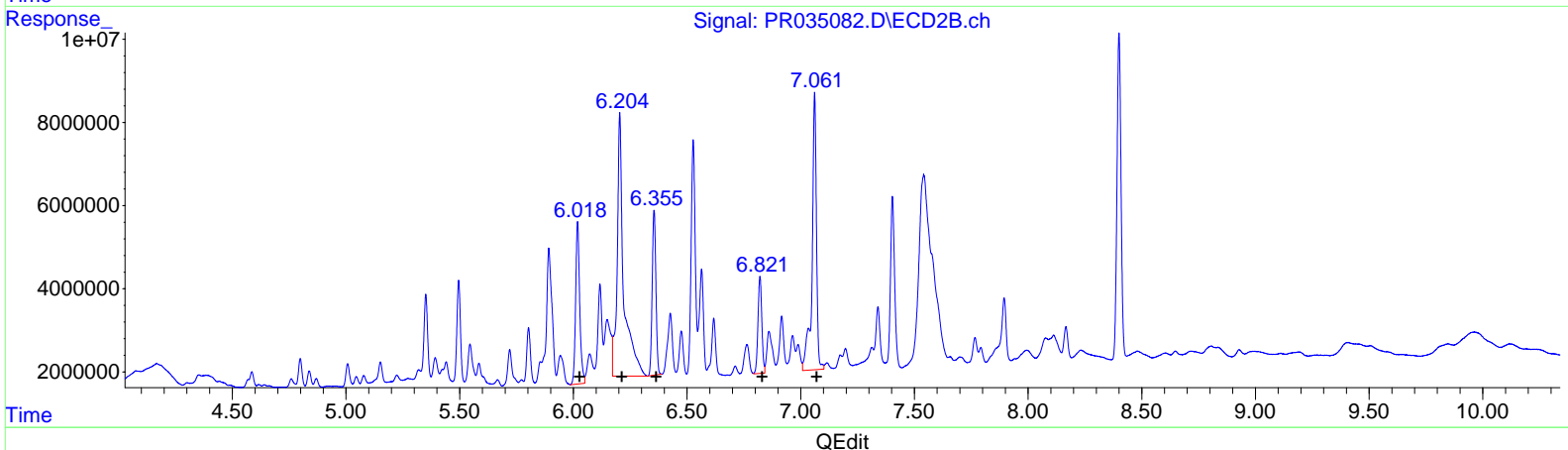
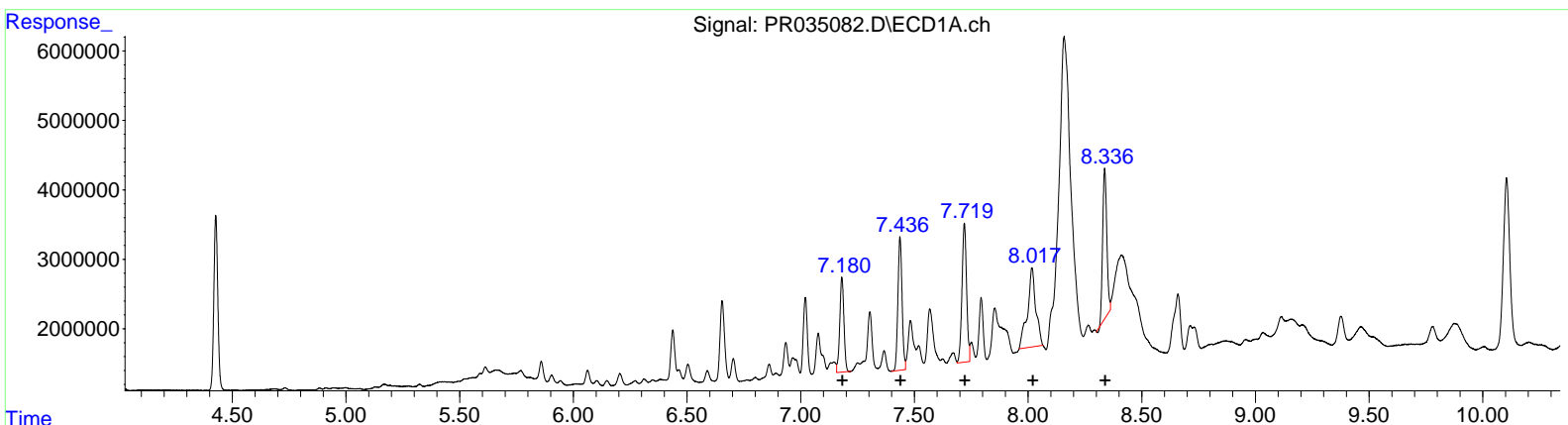
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035082.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:12
 Operator : SM\SJ
 Sample : J6432-13
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:45 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:46:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 17471982 | 185.86 |
| 7.44 | 24443032 | 210.53 |
| 7.72 | 28057740 | 201.05 |
| 8.02 | 29063143 | 336.52 |
| 8.34 | 27219974 | 150.76 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 48780282 | 226.91 |
| 6.20 | 131886800 | 484.66 |
| 6.36 | 45056959 | 181.51 |
| 6.82 | 27384526 | 160.15 |
| 7.06 | 90328686 | 186.77 |

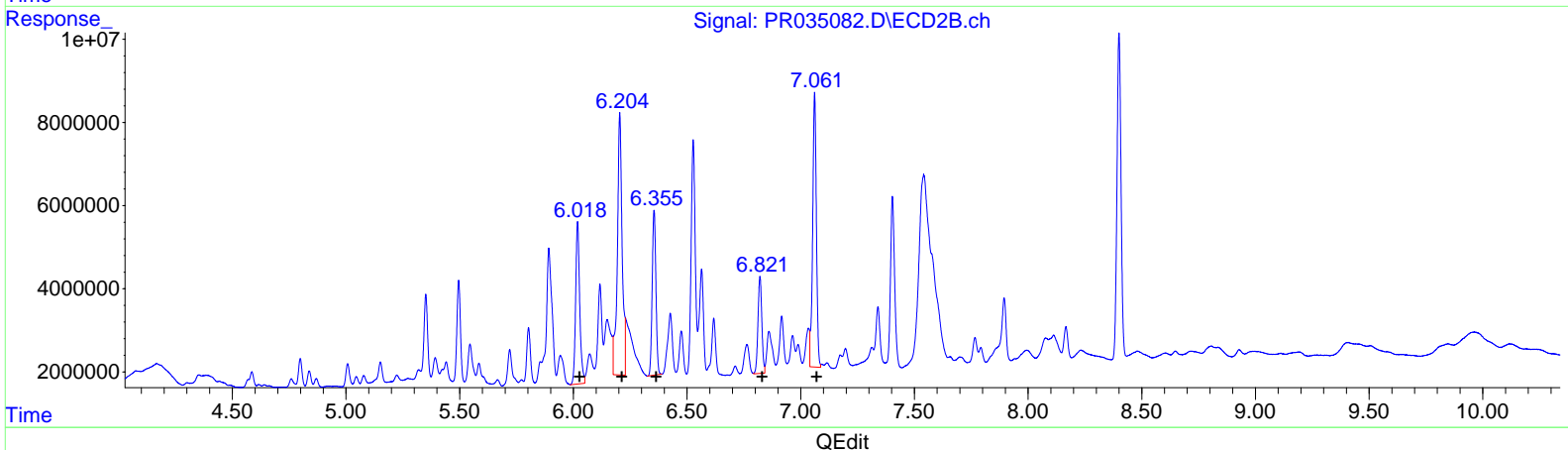
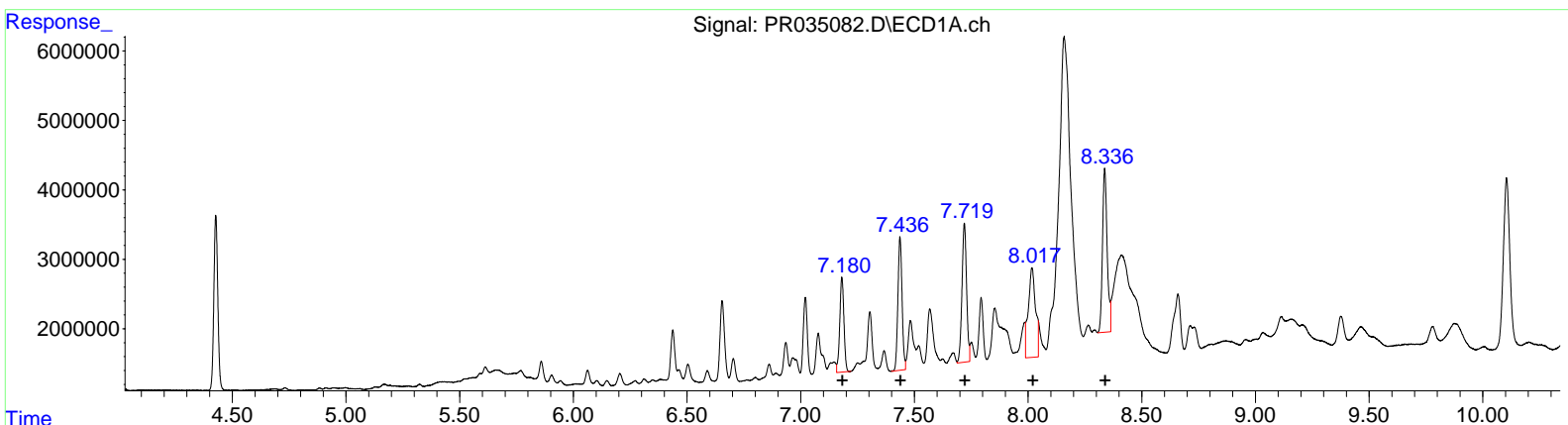
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035082.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:12
 Operator : SM\SJ
 Sample : J6432-13
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z2

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:45 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:46:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 17471982 | 185.86 |
| 7.44 | 24443032 | 210.53 |
| 7.72 | 28057740 | 201.05 |
| 8.02 | 28241469 | 327.01 |
| 8.34 | 33993844 | 188.28 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.02 | 48780282 | 226.91 |
| 6.20 | 91855436 | 337.55 |
| 6.36 | 45056959 | 181.51 |
| 6.82 | 27384526 | 160.15 |
| 7.06 | 74923326 | 154.91 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035082.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 12:12
 Operator : SM\SJ
 Sample : J6432-13
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 A41Z2

Manual Integrations
APPROVED

Sohil
 12/29/2018 12:17:45 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 03:46:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.427 | 3.513 | 30291059 | 64120766 | 15.574 | 18.394 |
| 2) SA Decachlor... | 10.105 | 8.400 | 48700350 | 96594185 | 24.772 | 21.970 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|----------|-----------|
| 26) L6 AR-1254-1 | 6.438 | 5.351 | 9174462 | 23778145 | 112.288 | 97.175m |
| 27) L6 AR-1254-2 | 6.655 | 5.496 | 16416595 | 26185986 | 128.479 | 123.118m |
| 28) L6 AR-1254-3 | 7.021 | 5.892 | 13952930 | 55664521 | 103.376 | 155.784m# |
| 29) L6 AR-1254-4 | 7.304 | 6.117 | 9299479 | 30573109 | 87.667m | 129.443 # |
| 30) L6 AR-1254-5 | 7.720 | 6.527 | 28057740 | 70800901 | 261.871 | 221.987 |
| 31) L7 AR-1260-1 | 7.181 | 6.019 | 17471982 | 48780282 | 185.856 | 226.914 |
| 32) L7 AR-1260-2 | 7.437 | 6.204 | 24443032 | 91855436 | 210.532 | 337.553m# |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 28057740 | 45056959 | 201.049 | 181.509 |
| 34) L7 AR-1260-4 | 8.017 | 6.821 | 28241469 | 27384526 | 327.007m | 160.152 # |
| 35) L7 AR-1260-5 | 8.336 | 7.061 | 33993844 | 74923326 | 188.276m | 154.914m |

SS
12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z5

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-14
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR035010.D
 % Solids : 100 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

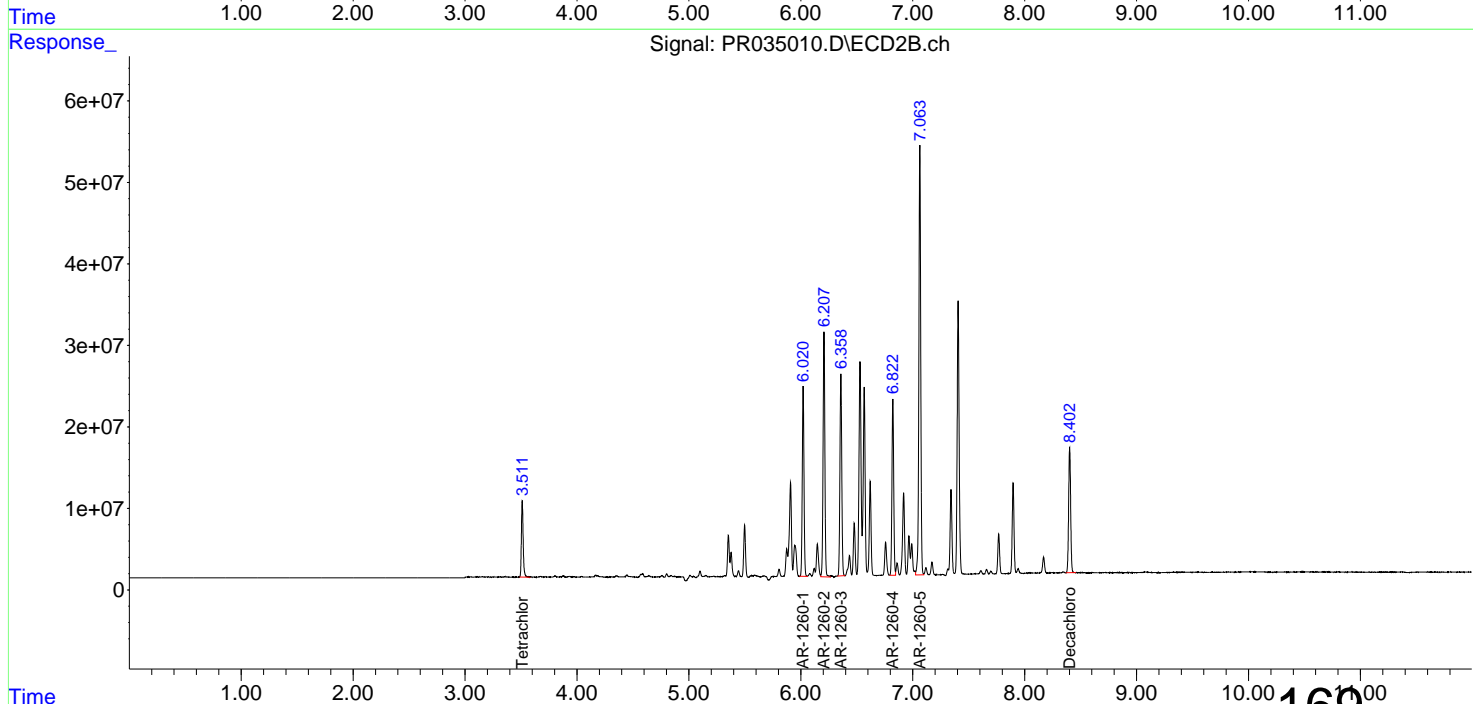
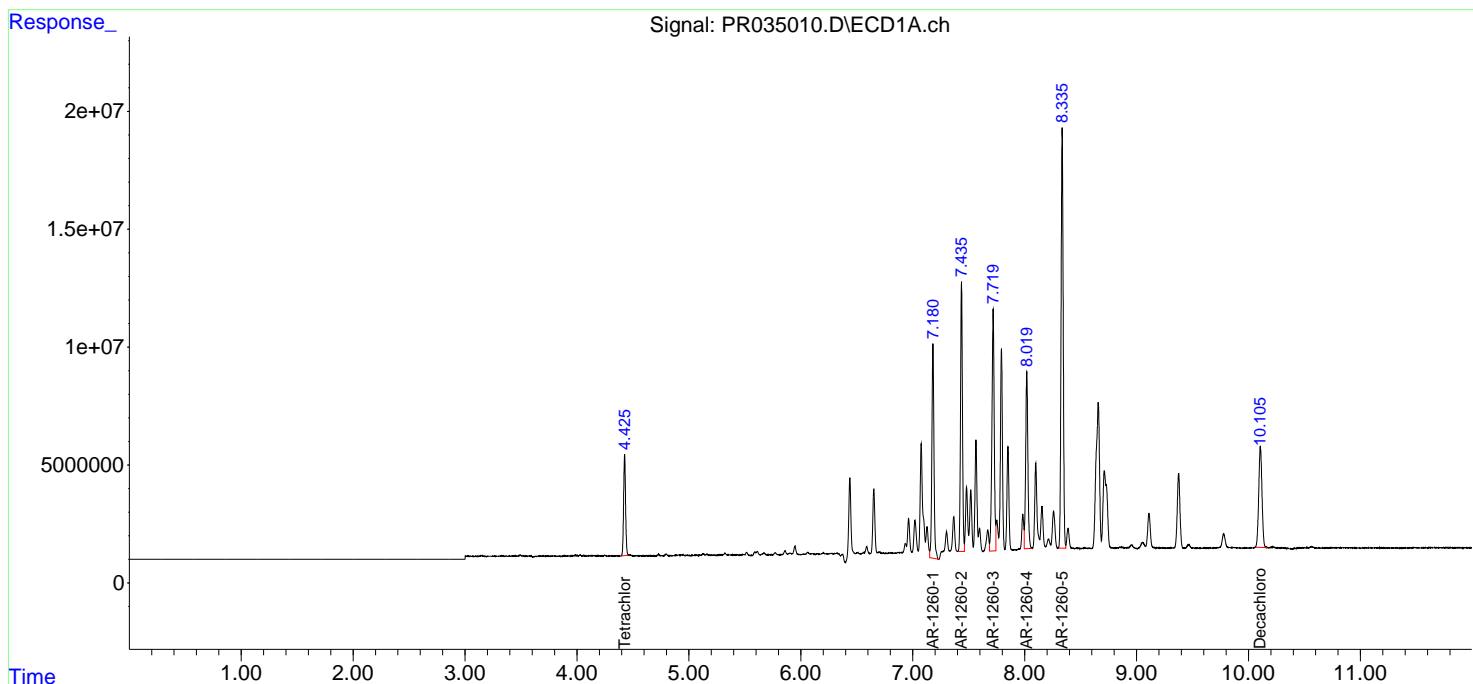
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 400 | |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035010.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:35
 Operator : SM\SJ
 Sample : J6432-14
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Z5

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035010.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:35
 Operator : SM\SJ
 Sample : J6432-14
 Misc :
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Z5

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 52069264 | 102.2E6 | 26.770 | 29.312 |
| 2) SA Decachlor... | 10.105 | 8.402 | 86137714 | 189.9E6 | 43.815 | 43.193 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 118.2E6 | 247.8E6 | 1257.496 | 1152.497 |
| 32) L7 AR-1260-2 | 7.436 | 6.207 | 136.6E6 | 333.4E6 | 1176.511 | 1225.201 |
| 33) L7 AR-1260-3 | 7.719 | 6.358 | 146.4E6 | 282.5E6 | 1049.210 | 1138.217 |
| 34) L7 AR-1260-4 | 8.019 | 6.822 | 103.5E6 | 236.5E6 | 1198.177 | 1383.038 |
| 35) L7 AR-1260-5 | 8.335 | 7.064 | 239.1E6 | 606.5E6 | 1324.241 | 1253.986 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z6

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-15
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035011.D
 % Solids : 76.7 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 43 | U |
| 11104-28-2 | Aroclor-1221 | 43 | U |
| 11141-16-5 | Aroclor-1232 | 43 | U |
| 53469-21-9 | Aroclor-1242 | 43 | U |
| 12672-29-6 | Aroclor-1248 | 43 | U |
| 11097-69-1 | Aroclor-1254 | 43 | U |
| 11096-82-5 | Aroclor-1260 | 250 | |
| 37324-23-5 | Aroclor-1262 | 43 | U |
| 11100-14-4 | Aroclor-1268 | 43 | U |

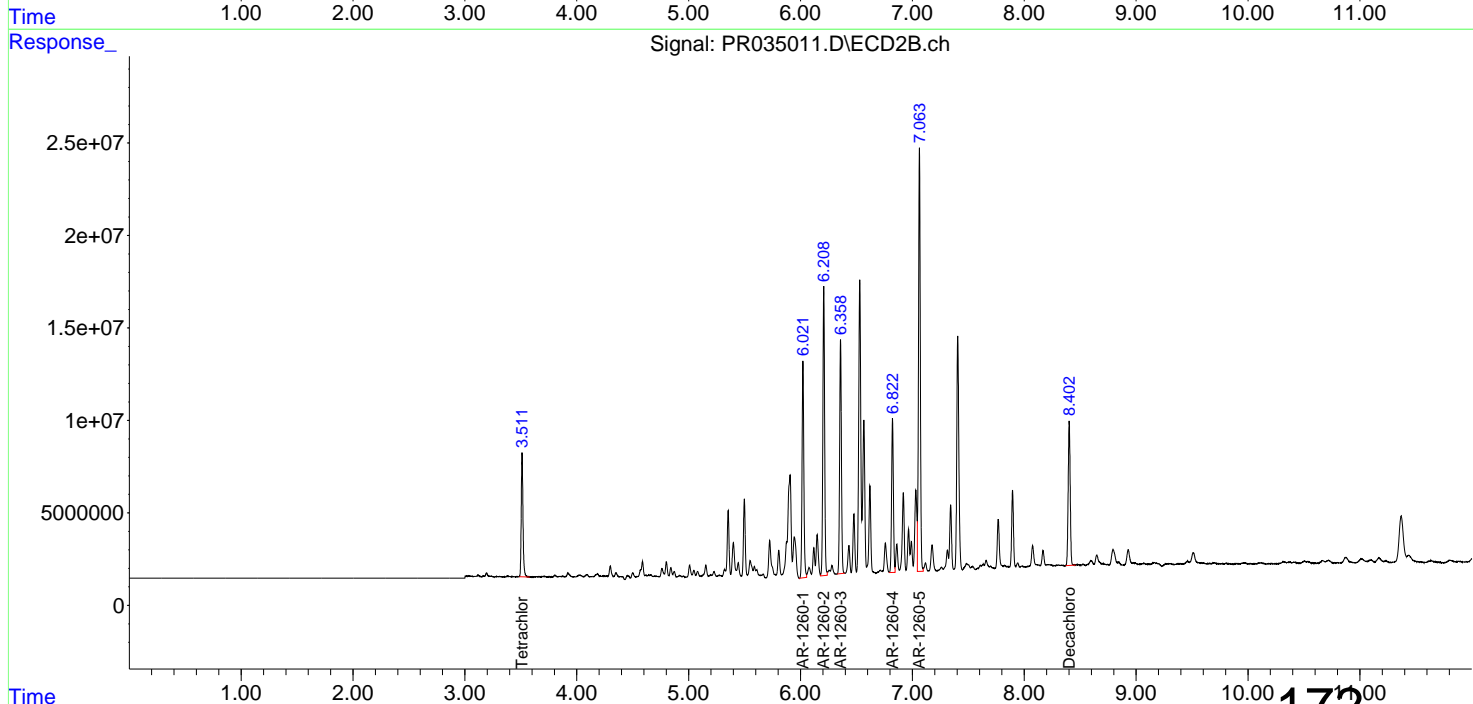
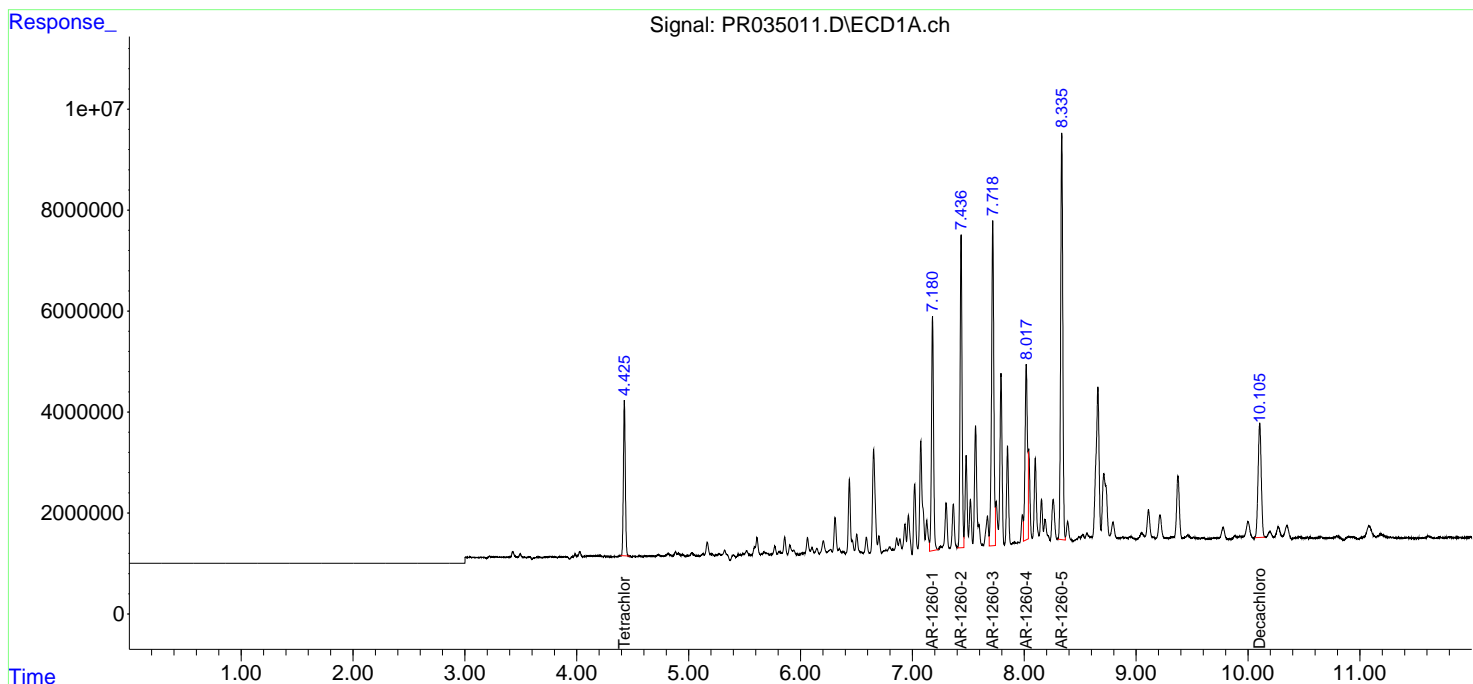
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:50
 Operator : SM\SJ
 Sample : J6432-15
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:34 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:50
 Operator : SM\SJ
 Sample : J6432-15
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:34 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 36507891 | 72709397 | 18.770 | 20.857 |
| 2) SA Decachlor... | 10.105 | 8.402 | 44554275 | 98059450 | 22.663 | 22.303 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.180 | 6.022 | 59645753 | 129.5E6 | 634.475 | 602.177 |
| 32) L7 AR-1260-2 | 7.436 | 6.208 | 75238453 | 172.7E6 | 648.042 | 634.632 |
| 33) L7 AR-1260-3 | 7.719 | 6.358 | 90273692 | 139.4E6 | 646.862 | 561.744 |
| 34) L7 AR-1260-4 | 8.017 | 6.823 | 52340303 | 92188036 | 606.046m | 539.142 |
| 35) L7 AR-1260-5 | 8.335 | 7.063 | 106.4E6 | 258.2E6 | 589.142 | 533.965 |
| ----- | | | | | | |

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

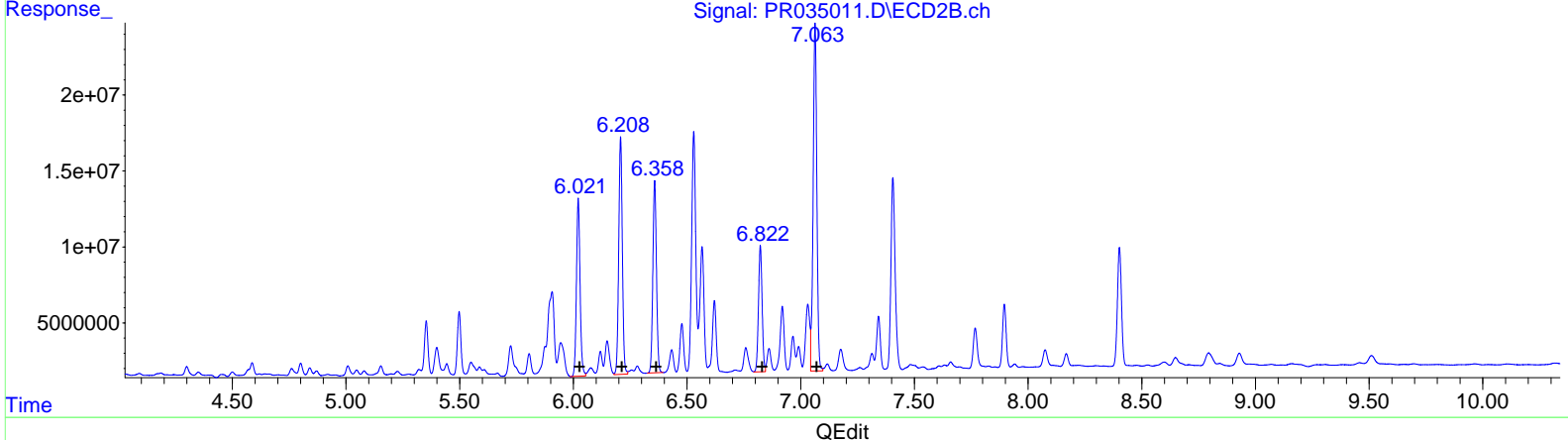
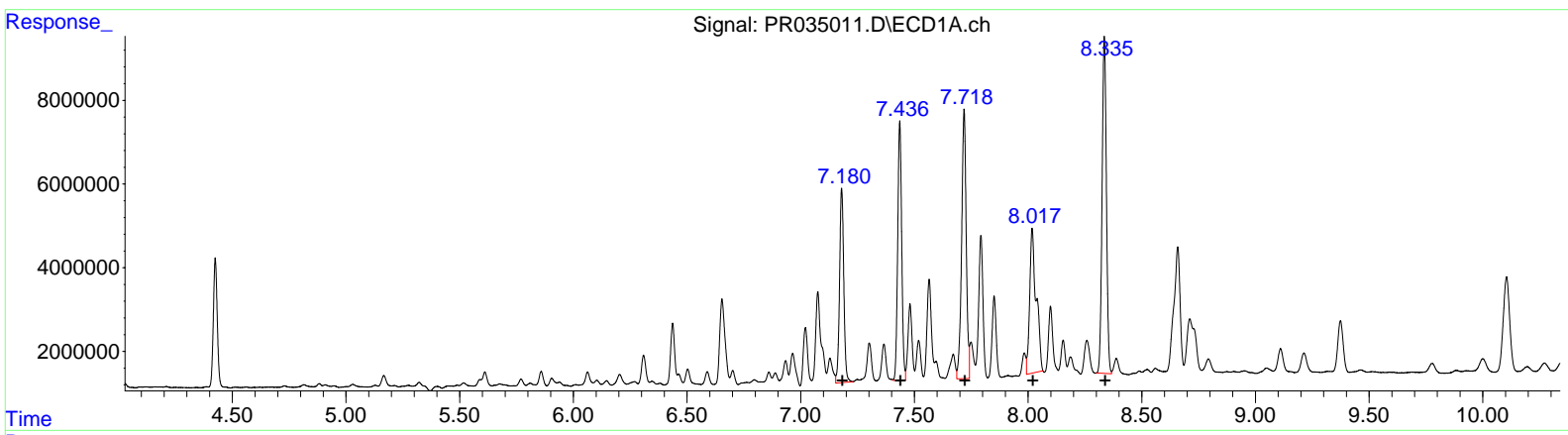
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:50
 Operator : SM\SJ
 Sample : J6432-15
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:34 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 7.18 | 59645753 | 634.48 |
| 7.44 | 75238453 | 648.04 |
| 7.72 | 90273692 | 646.86 |
| 8.02 | 68538533 | 793.60 |
| 8.34 | 106371832 | 589.14 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 129451211 | 602.18 |
| 6.21 | 172697011 | 634.63 |
| 6.36 | 139445046 | 561.74 |
| 6.82 | 92188036 | 539.14 |
| 7.06 | 258249676 | 533.96 |

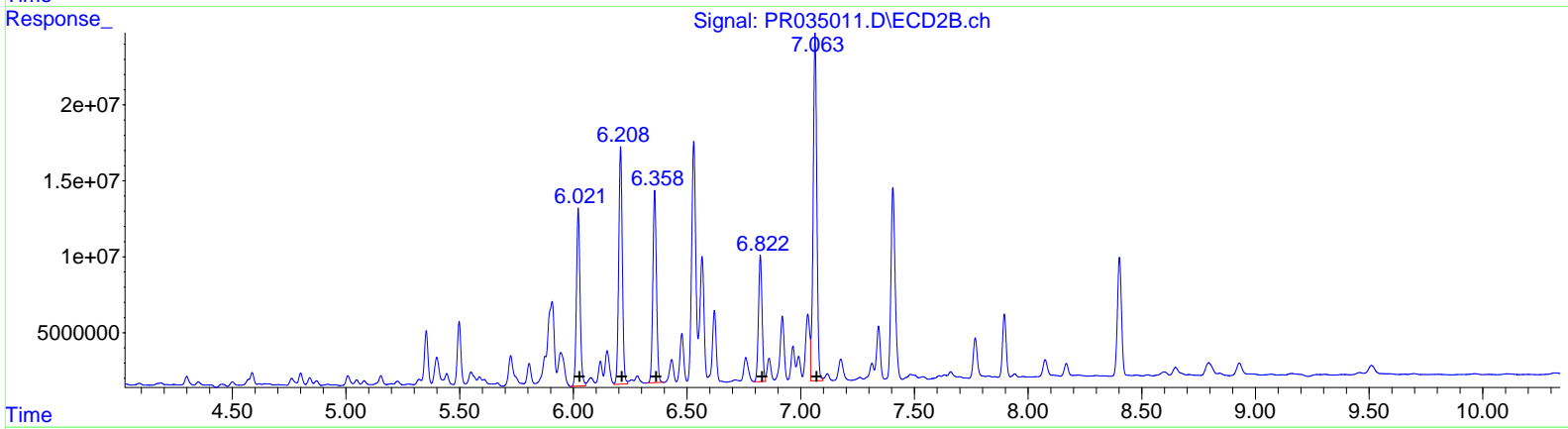
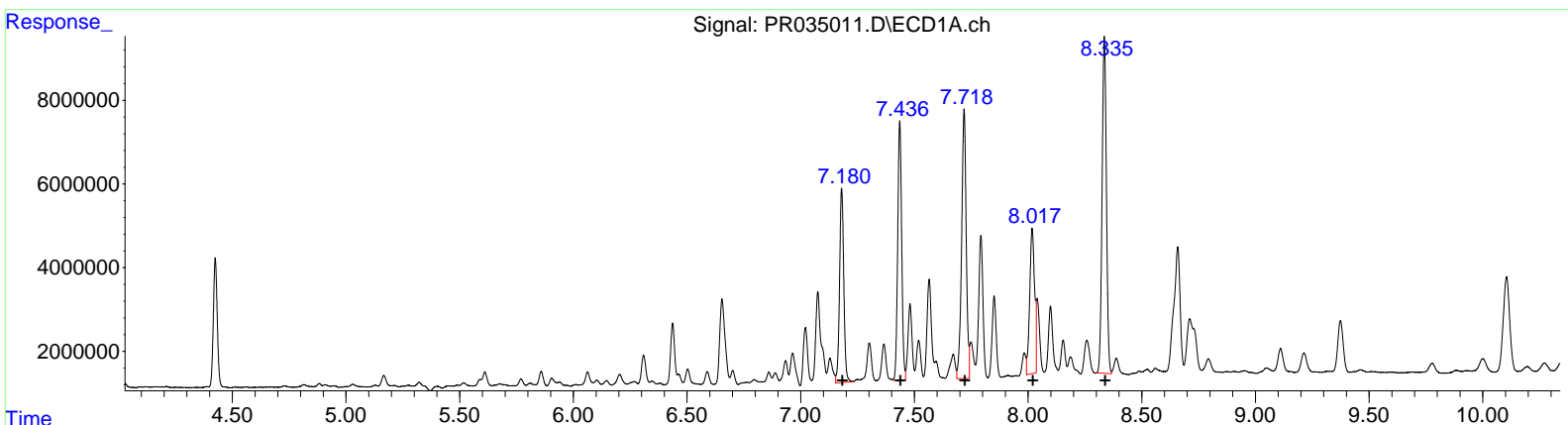
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:50
 Operator : SM\SJ
 Sample : J6432-15
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z6

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:34 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 7.18 | 59645753 | 634.48 |
| 7.44 | 75238453 | 648.04 |
| 7.72 | 90273692 | 646.86 |
| 8.02 | 52340303 | 606.05 |
| 8.34 | 106371832 | 589.14 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|--------|
| 6.02 | 129451211 | 602.18 |
| 6.21 | 172697011 | 634.63 |
| 6.36 | 139445046 | 561.74 |
| 6.82 | 92188036 | 539.14 |
| 7.06 | 258249676 | 533.96 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035011.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 00:50
 Operator : SM\SJ
 Sample : J6432-15
 Misc :
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Z6

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:20:34 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 36507891 | 72709397 | 18.770 | 20.857 |
| 2) SA Decachlor... | 10.105 | 8.402 | 44554275 | 98059450 | 22.663 | 22.303 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.180 | 6.022 | 59645753 | 129.5E6 | 634.475 | 602.177 |
| 32) L7 AR-1260-2 | 7.436 | 6.208 | 75238453 | 172.7E6 | 648.042 | 634.632 |
| 33) L7 AR-1260-3 | 7.719 | 6.358 | 90273692 | 139.4E6 | 646.862 | 561.744 |
| 34) L7 AR-1260-4 | 8.017 | 6.823 | 52340303 | 92188036 | 606.046m | 539.142 |
| 35) L7 AR-1260-5 | 8.335 | 7.063 | 106.4E6 | 258.2E6 | 589.142 | 533.965 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z7

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-16
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035012.D
 % Solids : 78.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 42 | U |
| 11104-28-2 | Aroclor-1221 | 42 | U |
| 11141-16-5 | Aroclor-1232 | 42 | U |
| 53469-21-9 | Aroclor-1242 | 42 | U |
| 12672-29-6 | Aroclor-1248 | 2200 | E |
| 11097-69-1 | Aroclor-1254 | 42 | U |
| 11096-82-5 | Aroclor-1260 | 2400 | E |
| 37324-23-5 | Aroclor-1262 | 42 | U |
| 11100-14-4 | Aroclor-1268 | 42 | U |

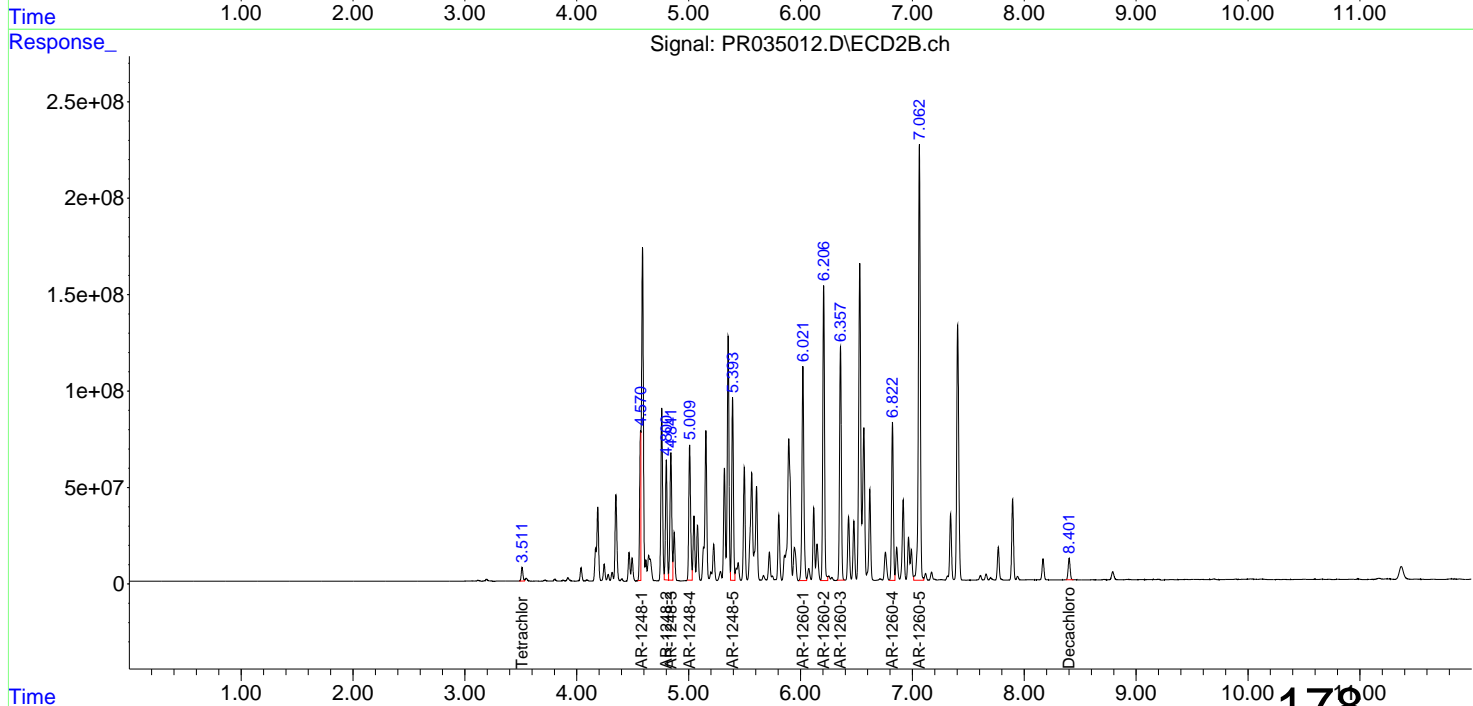
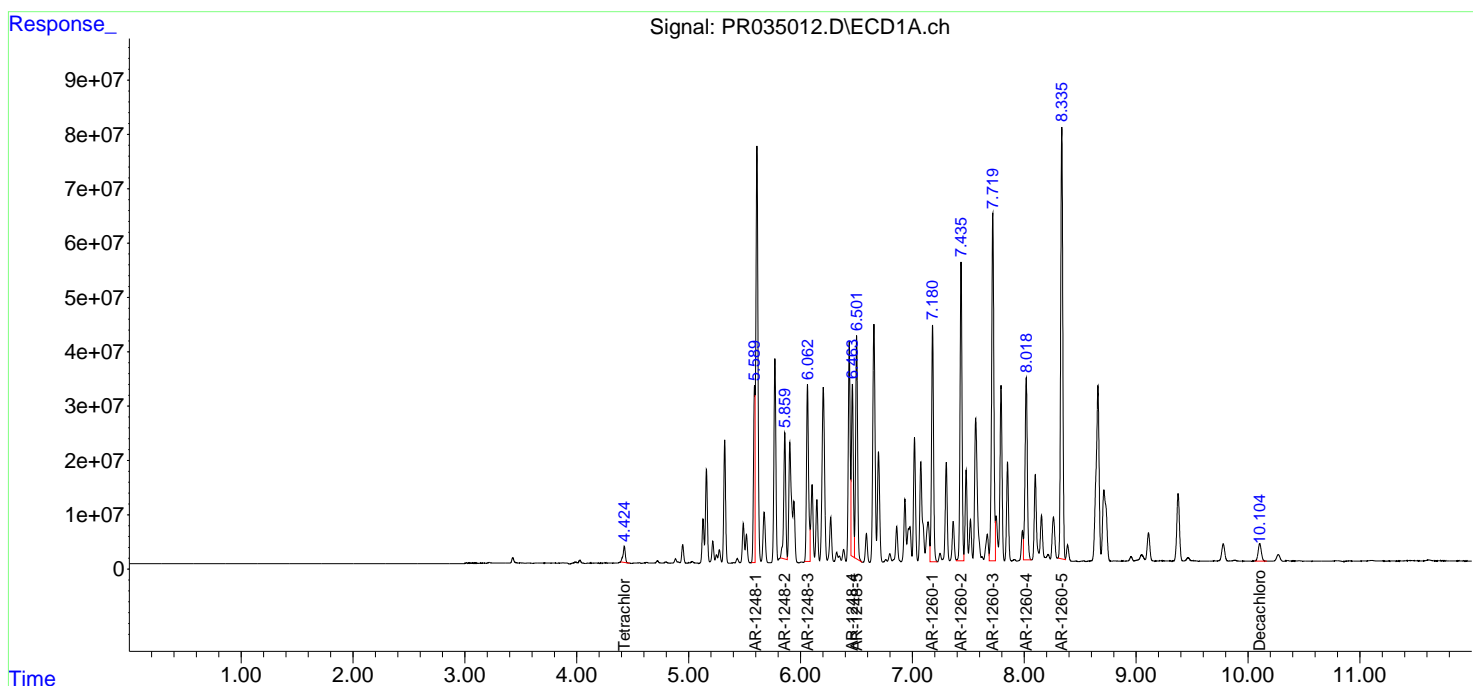
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:04
 Operator : SM\SJ
 Sample : J6432-16
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z7

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:36 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:30 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:04
 Operator : SM\SJ
 Sample : J6432-16
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z7

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:36 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:30 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| | Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|-----------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | | |
| System Monitoring Compounds | | | | | | | |
| 1) | SA Tetrachlo... | 4.425 | 3.511 | 41395415 | 74958134 | 21.283 | 21.502 |
| 2) | SA Decachlor... | 10.105 | 8.402 | 62897081 | 138.4E6 | 31.994 | 31.488 |
| Target Compounds | | | | | | | |
| 21) | L5 AR-1248-1 | 5.589 | 4.570 | 295.0E6 | 535.3E6 | 6078.813 | 5490.048m |
| 22) | L5 AR-1248-2 | 5.860 | 4.800 | 294.3E6 | 635.9E6 | 4453.454 | 4963.654 |
| 23) | L5 AR-1248-3 | 6.062 | 4.841 | 425.3E6 | 759.4E6 | 5692.371 | 5754.324 |
| 24) | L5 AR-1248-4 | 6.464 | 5.009 | 372.1E6 | 796.0E6 | 4164.914 | 4837.788 |
| 25) | L5 AR-1248-5 | 6.502 | 5.393 | 494.9E6 | 991.0E6 | 5914.801 | 5921.574 |
| 31) | L7 AR-1260-1 | 7.181 | 6.021 | 534.4E6 | 1315.3E6 | 5684.162 | 6118.491 |
| 32) | L7 AR-1260-2 | 7.435 | 6.207 | 670.0E6 | 1679.3E6 | 5771.239 | 6171.193 |
| 33) | L7 AR-1260-3 | 7.719 | 6.357 | 893.7E6 | 1349.2E6 | 6403.516 | 5435.270 |
| 34) | L7 AR-1260-4 | 8.018 | 6.822 | 482.4E6 | 896.4E6 | 5585.881 | 5242.514 |
| 35) | L7 AR-1260-5 | 8.336 | 7.063 | 1044.5E6 | 2700.6E6 | 5784.772 | 5583.892 |

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

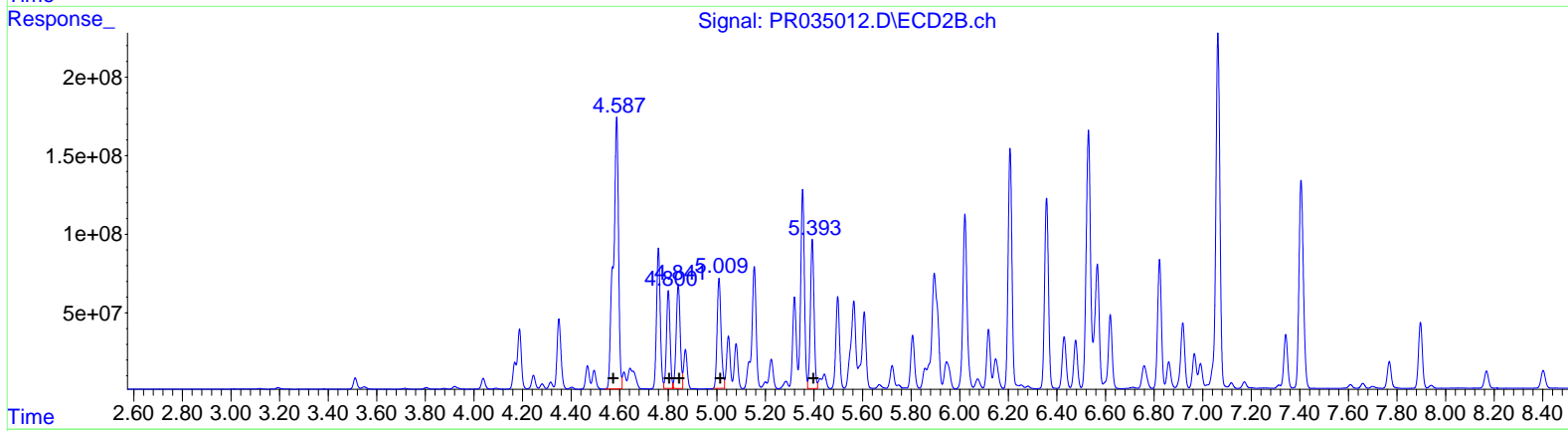
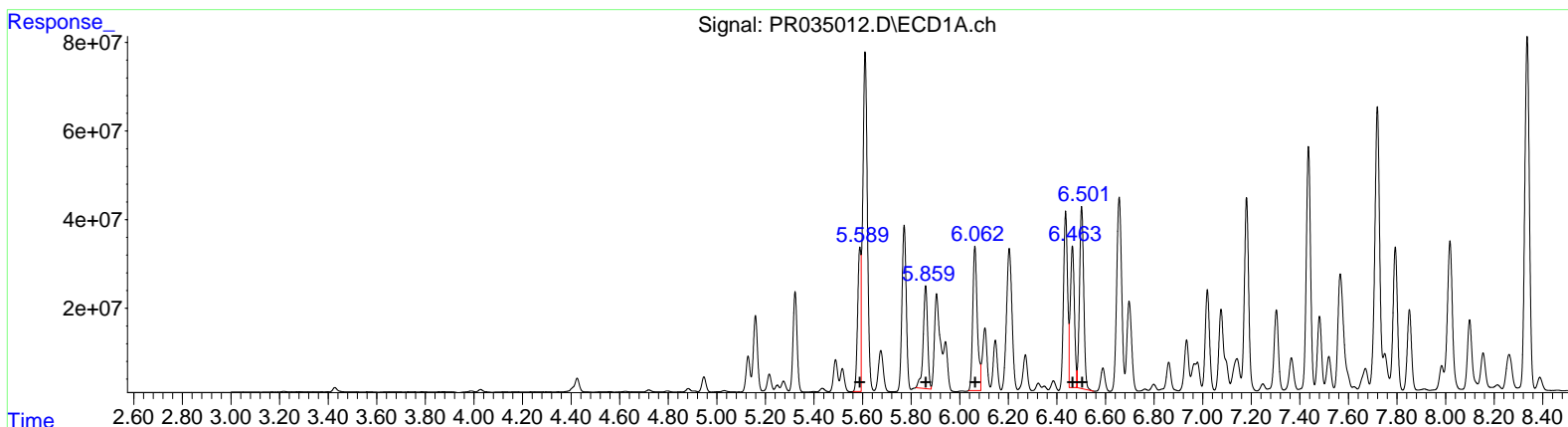
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:04
 Operator : SM\SJ
 Sample : J6432-16
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z7

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:36 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:30 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 294959968 | 6078.81 |
| 5.86 | 294255340 | 4453.45 |
| 6.06 | 425304995 | 5692.37 |
| 6.46 | 372118110 | 4164.91 |
| 6.50 | 494880971 | 5914.80 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|------------|----------|
| 4.59 | 2559488206 | 26250.71 |
| 4.80 | 635856087 | 4963.65 |
| 4.84 | 759439529 | 5754.32 |
| 5.01 | 795962701 | 4837.79 |
| 5.39 | 991009093 | 5921.57 |

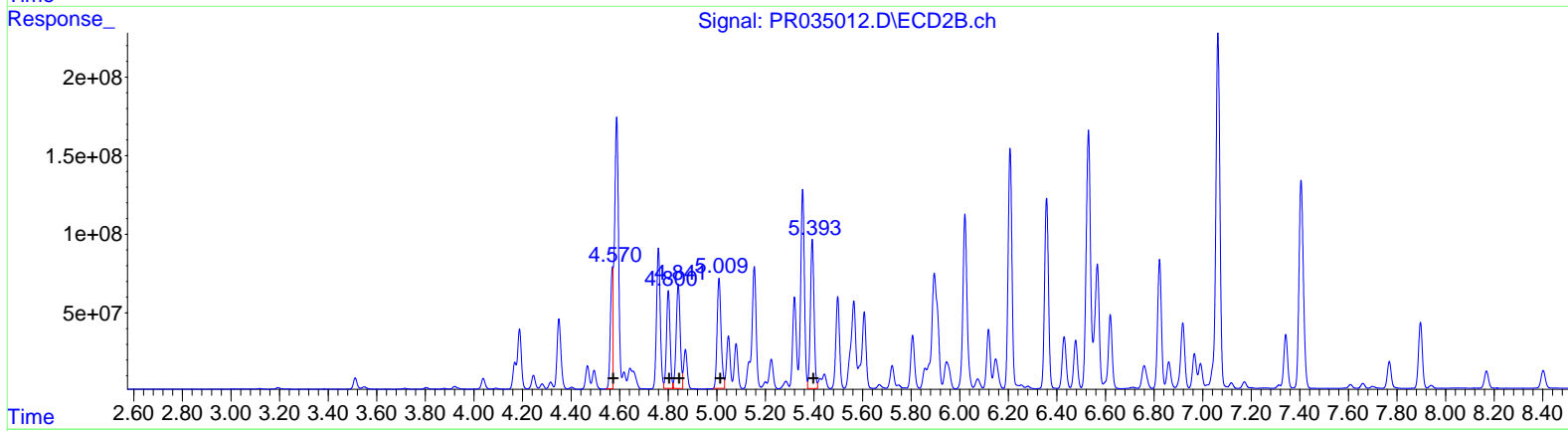
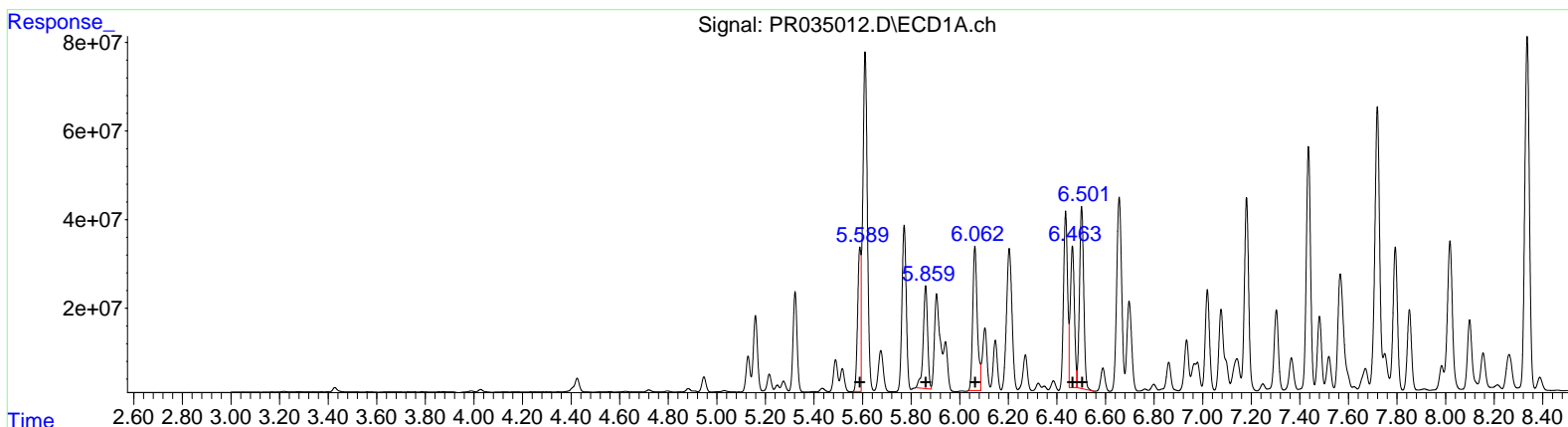
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:04
 Operator : SM\SJ
 Sample : J6432-16
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z7

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:36 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:30 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 5.59 | 294959968 | 6078.81 |
| 5.86 | 294255340 | 4453.45 |
| 6.06 | 425304995 | 5692.37 |
| 6.46 | 372118110 | 4164.91 |
| 6.50 | 494880971 | 5914.80 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 535288935 | 5490.05 |
| 4.80 | 635856087 | 4963.65 |
| 4.84 | 759439529 | 5754.32 |
| 5.01 | 795962701 | 4837.79 |
| 5.39 | 991009093 | 5921.57 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035012.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:04
 Operator : SM\SJ
 Sample : J6432-16
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Z7

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:30 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:36 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 41395415 | 74958134 | 21.283 | 21.502 |
| 2) SA Decachlor... | 10.105 | 8.402 | 62897081 | 138.4E6 | 31.994 | 31.488 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.570 | 295.0E6 | 535.3E6 | 6078.813 | 5490.048m |
| 22) L5 AR-1248-2 | 5.860 | 4.800 | 294.3E6 | 635.9E6 | 4453.454 | 4963.654 |
| 23) L5 AR-1248-3 | 6.062 | 4.841 | 425.3E6 | 759.4E6 | 5692.371 | 5754.324 |
| 24) L5 AR-1248-4 | 6.464 | 5.009 | 372.1E6 | 796.0E6 | 4164.914 | 4837.788 |
| 25) L5 AR-1248-5 | 6.502 | 5.393 | 494.9E6 | 991.0E6 | 5914.801 | 5921.574 |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 534.4E6 | 1315.3E6 | 5684.162 | 6118.491 |
| 32) L7 AR-1260-2 | 7.435 | 6.207 | 670.0E6 | 1679.3E6 | 5771.239 | 6171.193 |
| 33) L7 AR-1260-3 | 7.719 | 6.357 | 893.7E6 | 1349.2E6 | 6403.516 | 5435.270 |
| 34) L7 AR-1260-4 | 8.018 | 6.822 | 482.4E6 | 896.4E6 | 5585.881 | 5242.514 |
| 35) L7 AR-1260-5 | 8.336 | 7.063 | 1044.5E6 | 2700.6E6 | 5784.772 | 5583.892 |
| ----- | | | | | | |

> SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z7DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-16DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035086.D
 % Solids : 78.3 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 210 | U |
| 11104-28-2 | Aroclor-1221 | 210 | U |
| 11141-16-5 | Aroclor-1232 | 210 | U |
| 53469-21-9 | Aroclor-1242 | 210 | U |
| 12672-29-6 | Aroclor-1248 | 2200 | D |
| 11097-69-1 | Aroclor-1254 | 210 | U |
| 11096-82-5 | Aroclor-1260 | 2300 | D |
| 37324-23-5 | Aroclor-1262 | 210 | U |
| 11100-14-4 | Aroclor-1268 | 210 | U |

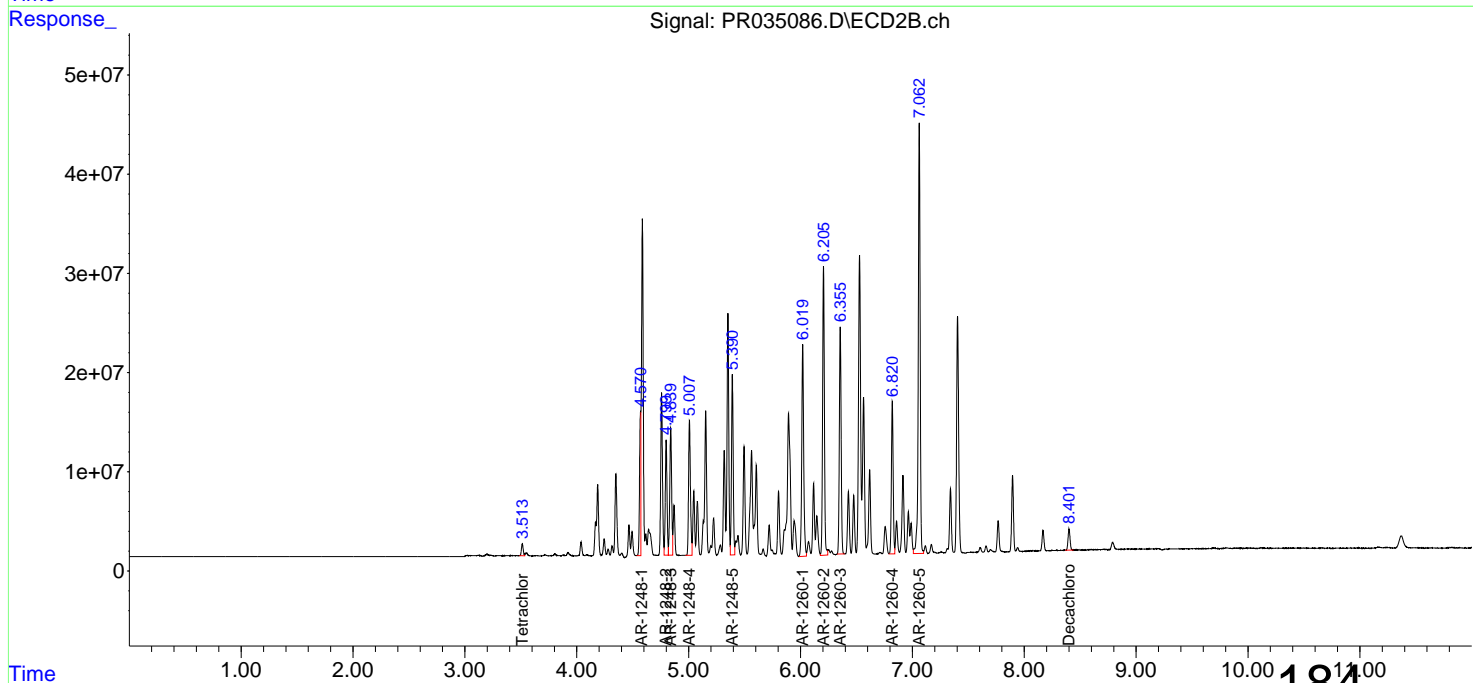
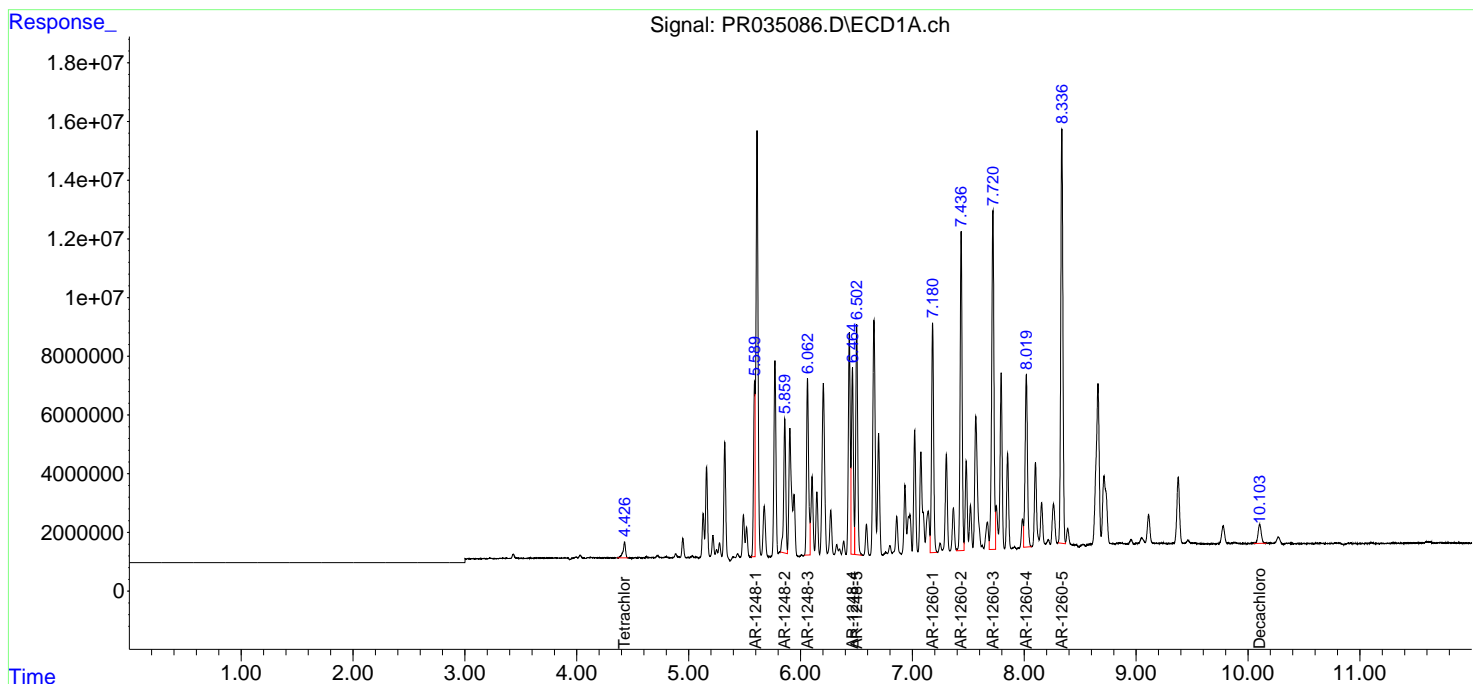
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035086.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:10
 Operator : SM\SJ
 Sample : J6432-16DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41Z7DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035086.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:10
 Operator : SM\SJ
 Sample : J6432-16DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z7DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 8428944 | 13570604 | 4.334 | 3.893 |
| 2) SA Decachlor... | 10.104 | 8.401 | 12697076 | 26519763 | 6.459 | 6.032 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.570 | 56385624 | 110.4E6 | 1162.048 | 1132.567m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 59881147 | 123.7E6 | 906.281 | 965.690 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 78961765 | 150.0E6 | 1056.841 | 1136.347 |
| 24) L5 AR-1248-4 | 6.464 | 5.007 | 76371795 | 157.7E6 | 854.788 | 958.538 |
| 25) L5 AR-1248-5 | 6.502 | 5.391 | 96268796 | 193.2E6 | 1150.601 | 1154.398 |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 100.7E6 | 256.8E6 | 1071.366 | 1194.525 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 133.1E6 | 324.5E6 | 1146.758 | 1192.569 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 162.4E6 | 254.8E6 | 1163.847 | 1026.559 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 86952525 | 167.5E6 | 1006.819 | 979.368 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 188.1E6 | 508.1E6 | 1041.903 | 1050.501 |

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

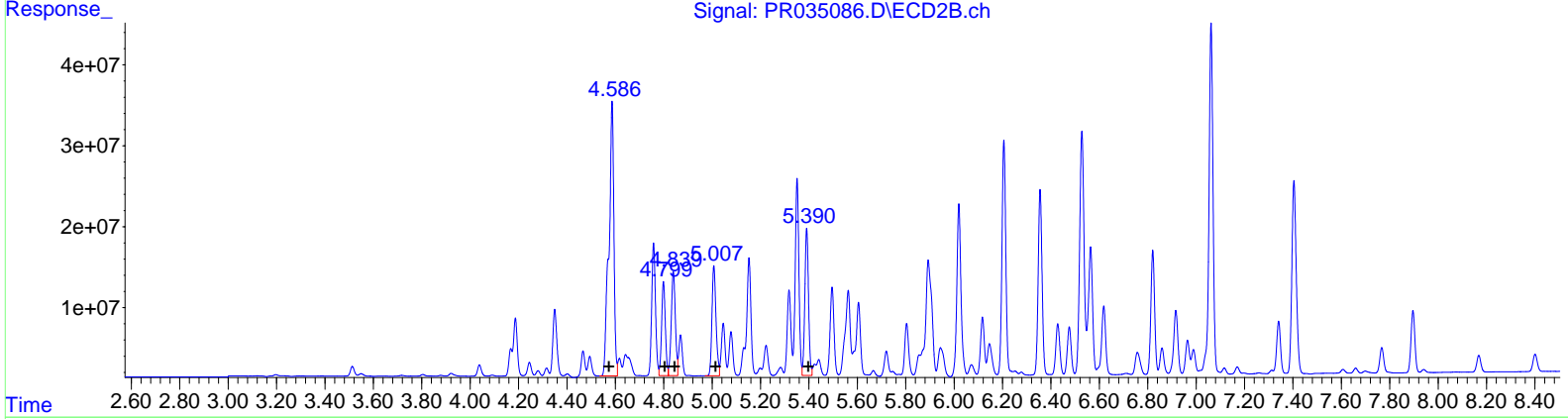
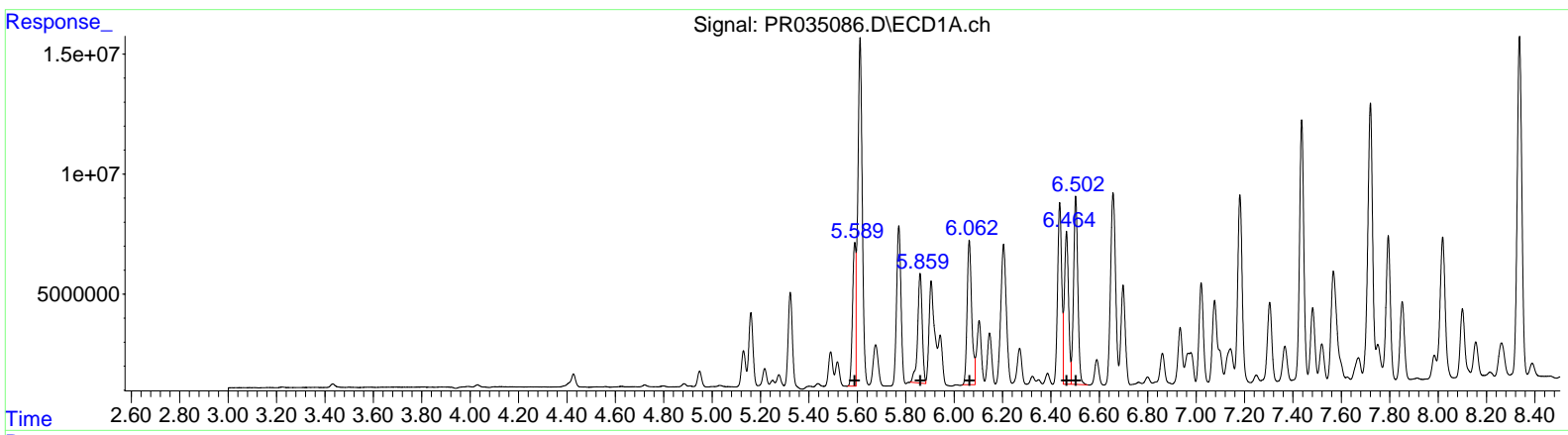
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 Data File : PR035086.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:10
 Operator : SM\SJ
 Sample : J6432-16DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z7DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|----------|---------|
| 5.59 | 56385624 | 1162.05 |
| 5.86 | 59881147 | 906.28 |
| 6.06 | 78961765 | 1056.84 |
| 6.46 | 76371795 | 854.79 |
| 6.50 | 96268796 | 1150.60 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.59 | 485637525 | 4980.81 |
| 4.80 | 123707196 | 965.69 |
| 4.84 | 149971838 | 1136.35 |
| 5.01 | 157708565 | 958.54 |
| 5.39 | 193195014 | 1154.40 |

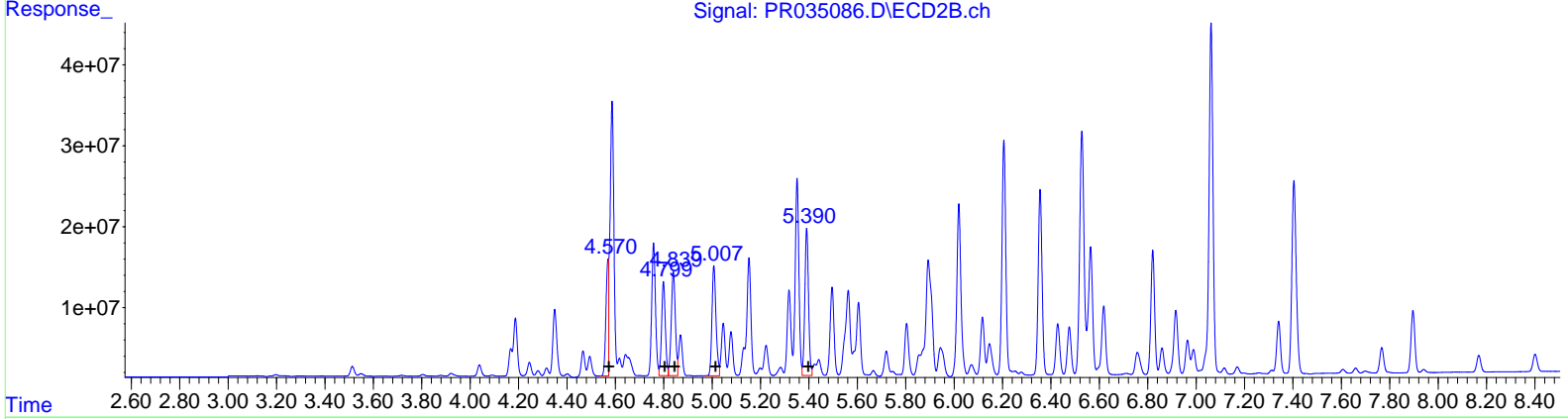
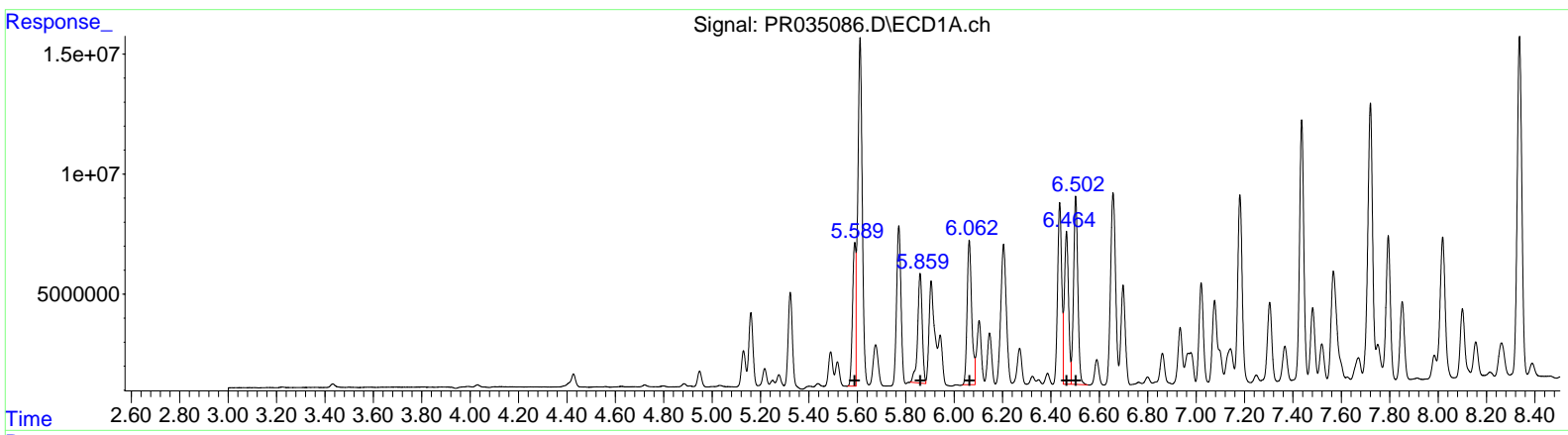
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035086.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:10
 Operator : SM\SJ
 Sample : J6432-16DL 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z7DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



QEdit

(21) AR-1248-1 (L5)

| R.T. | Response | Conc |
|------|----------|---------|
| 5.59 | 56385624 | 1162.05 |
| 5.86 | 59881147 | 906.28 |
| 6.06 | 78961765 | 1056.84 |
| 6.46 | 76371795 | 854.79 |
| 6.50 | 96268796 | 1150.60 |

(21) AR-1248-1 #2 (L5)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 110427236 | 1132.57 |
| 4.80 | 123707196 | 965.69 |
| 4.84 | 149971838 | 1136.35 |
| 5.01 | 157708565 | 958.54 |
| 5.39 | 193195014 | 1154.40 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035086.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:10
 Operator : SM\SJ
 Sample : J6432-16DL 5X
 Misc :

Instrument :
 ECD_R
 ClientSampled :
 A41Z7DL

ALS Vial : 18 Sample Multiplier: 1

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:17:47 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|-----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.513 | 8428944 | 13570604 | 4.334 | 3.893 |
| 2) SA Decachlor... | 10.104 | 8.401 | 12697076 | 26519763 | 6.459 | 6.032 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.570 | 56385624 | 110.4E6 | 1162.048 | 1132.567m |
| 22) L5 AR-1248-2 | 5.859 | 4.799 | 59881147 | 123.7E6 | 906.281 | 965.690 |
| 23) L5 AR-1248-3 | 6.063 | 4.840 | 78961765 | 150.0E6 | 1056.841 | 1136.347 |
| 24) L5 AR-1248-4 | 6.464 | 5.007 | 76371795 | 157.7E6 | 854.788 | 958.538 |
| 25) L5 AR-1248-5 | 6.502 | 5.391 | 96268796 | 193.2E6 | 1150.601 | 1154.398 |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 100.7E6 | 256.8E6 | 1071.366 | 1194.525 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 133.1E6 | 324.5E6 | 1146.758 | 1192.569 |
| 33) L7 AR-1260-3 | 7.720 | 6.355 | 162.4E6 | 254.8E6 | 1163.847 | 1026.559 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 86952525 | 167.5E6 | 1006.819 | 979.368 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 188.1E6 | 508.1E6 | 1041.903 | 1050.501 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z8

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-17
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035013.D
 % Solids : 59.8 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 55 | U |
| 11104-28-2 | Aroclor-1221 | 55 | U |
| 11141-16-5 | Aroclor-1232 | 55 | U |
| 53469-21-9 | Aroclor-1242 | 55 | U |
| 12672-29-6 | Aroclor-1248 | 55 | U |
| 11097-69-1 | Aroclor-1254 | 55 | U |
| 11096-82-5 | Aroclor-1260 | 32 | J |
| 37324-23-5 | Aroclor-1262 | 55 | U |
| 11100-14-4 | Aroclor-1268 | 55 | U |

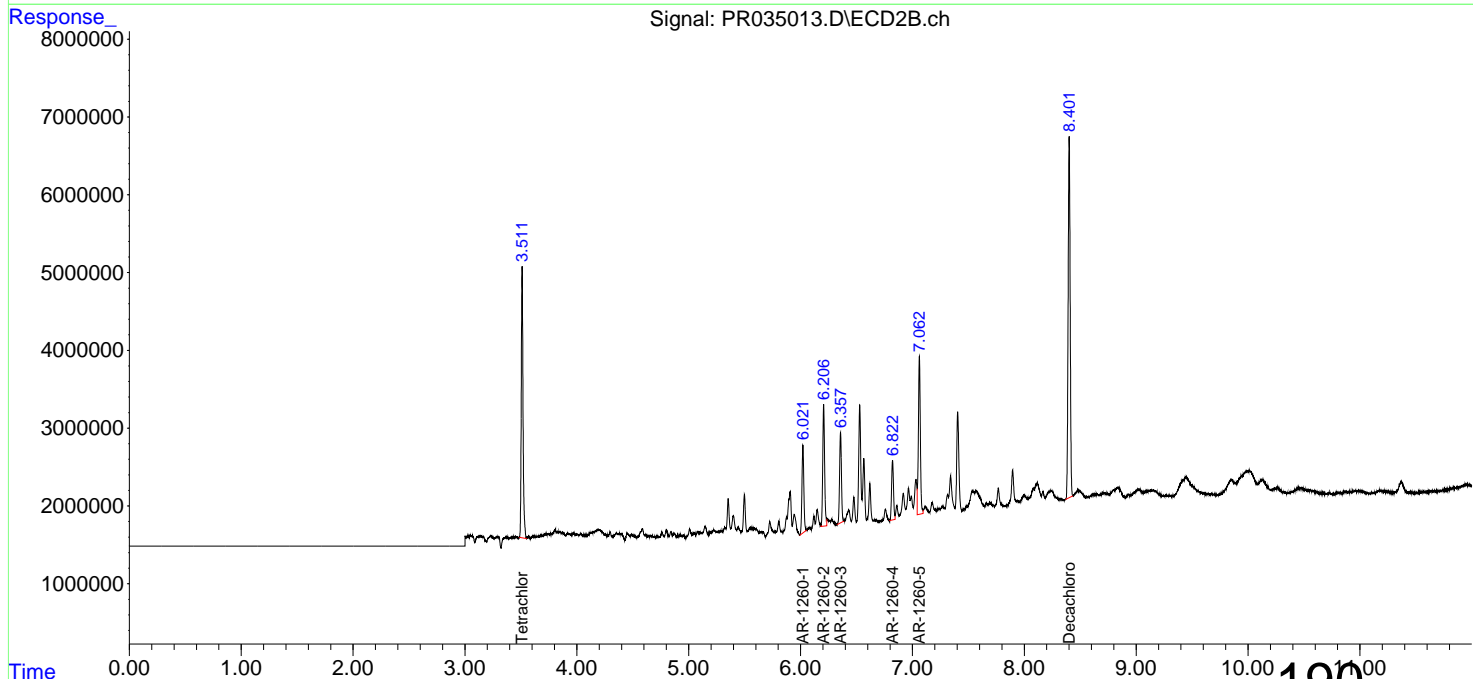
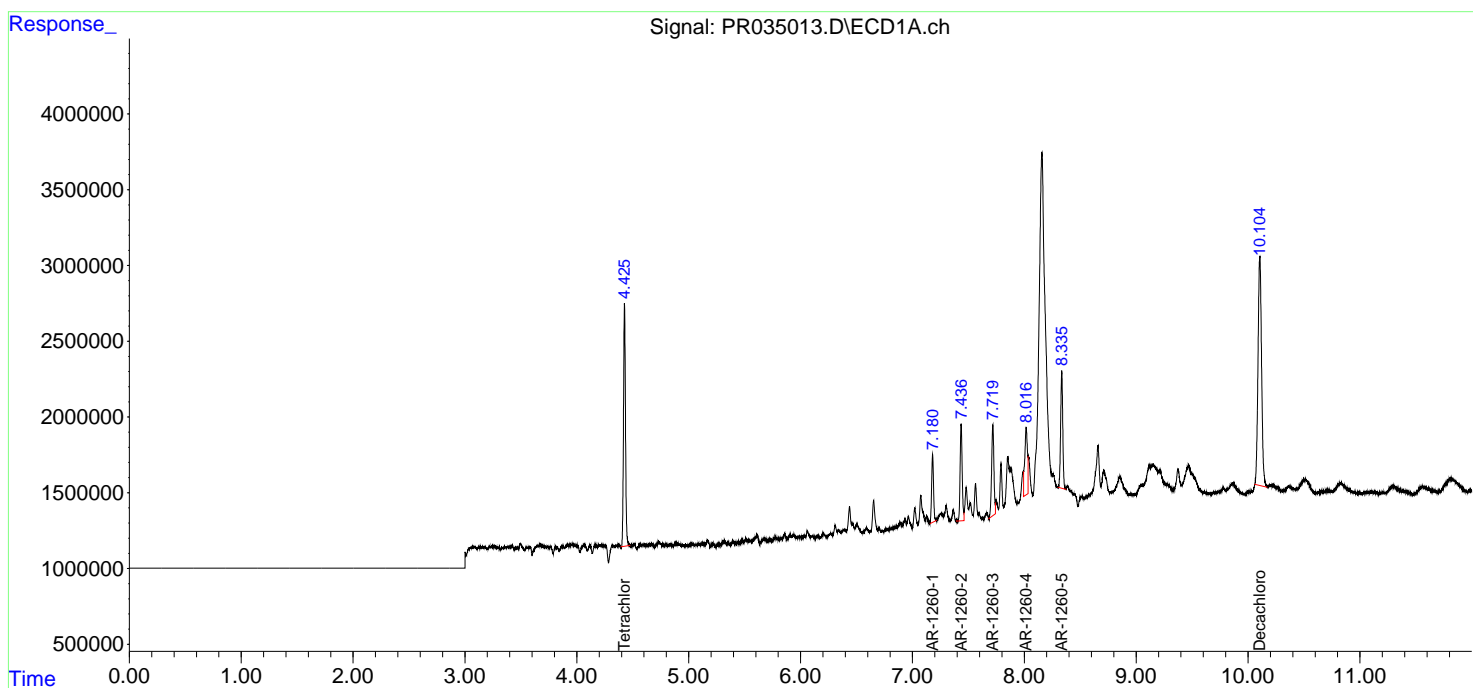
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035013.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:19
 Operator : SM\SJ
 Sample : J6432-17
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z8

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:38 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035013.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:19
 Operator : SM\SJ
 Sample : J6432-17
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z8

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:38 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 19532560 | 37893742 | 10.042 | 10.870 |
| 2) SA Decachlor... | 10.105 | 8.401 | 33315658 | 58638389 | 16.947 | 13.337 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 5313717 | 13271729 | 56.524 | 61.737m |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 8204203 | 18275506 | 70.664 | 67.159m |
| 33) L7 AR-1260-3 | 7.719 | 6.357 | 8524675 | 13395027 | 61.084 | 53.961 |
| 34) L7 AR-1260-4 | 8.016 | 6.822 | 7450161 | 9091723 | 86.265m | 53.171 # |
| 35) L7 AR-1260-5 | 8.335 | 7.062 | 10126474 | 24874193 | 56.086 | 51.431 |
| ----- | | | | | | |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035013.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:19
 Operator : SM\SJ
 Sample : J6432-17
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

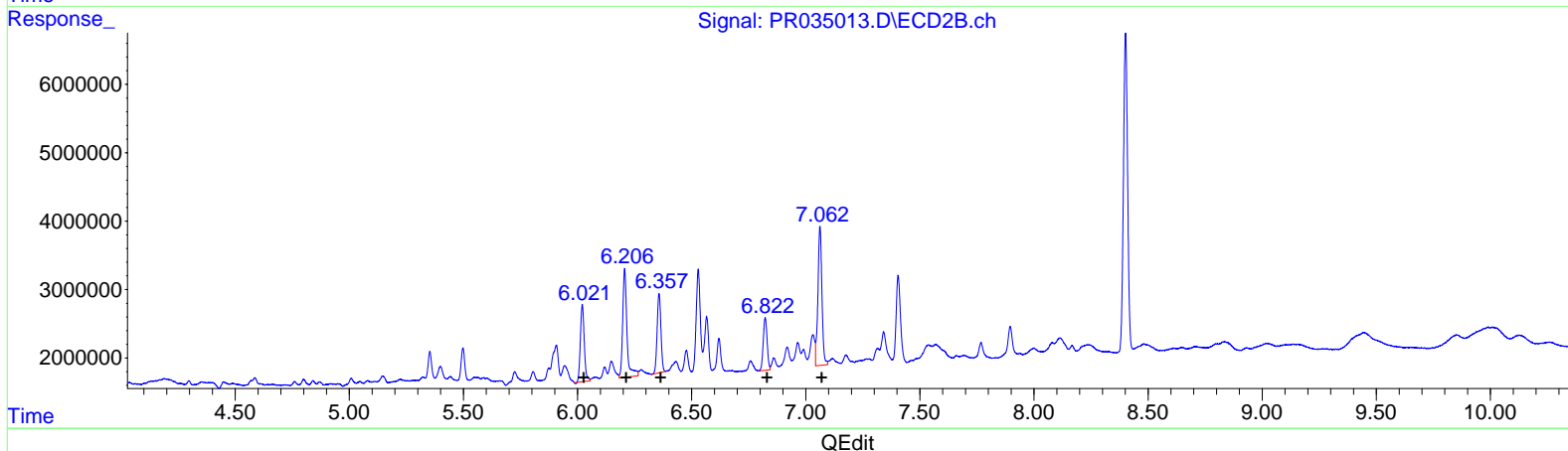
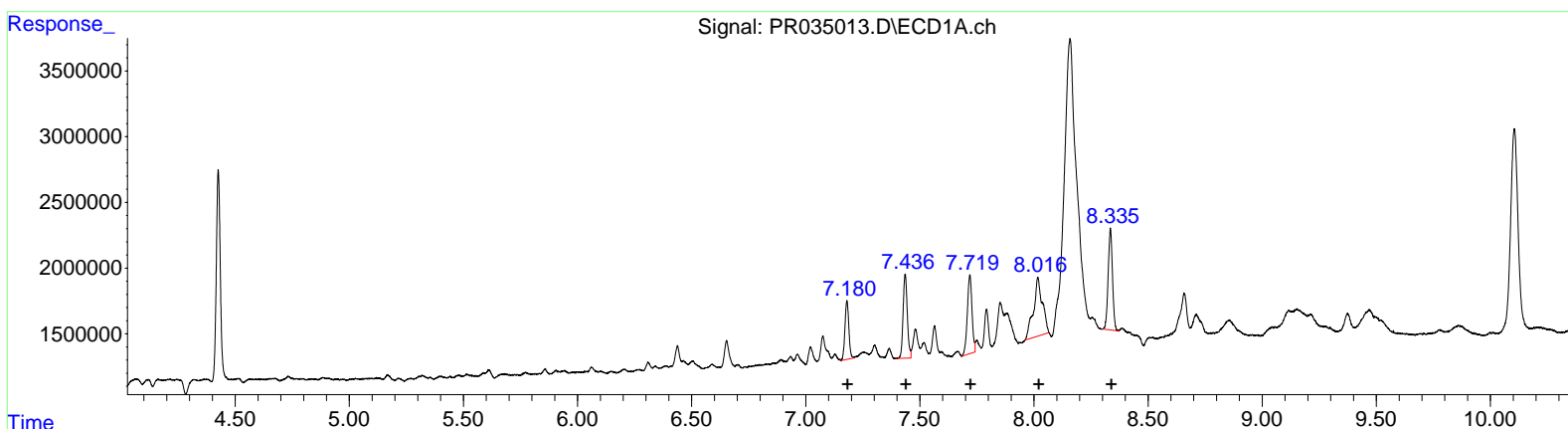
Instrument :
 ECD_R
 ClientSampled :
 A41Z8

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:20:38 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 5313717 | 56.52 |
| 7.44 | 8204203 | 70.66 |
| 7.72 | 8524675 | 61.08 |
| 8.02 | 12073371 | 139.80 |
| 8.34 | 10126474 | 56.09 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|-------|
| 6.02 | 13334128 | 62.03 |
| 6.21 | 20537035 | 75.47 |
| 6.36 | 13395027 | 53.96 |
| 6.82 | 9091723 | 53.17 |
| 7.06 | 24874193 | 51.43 |

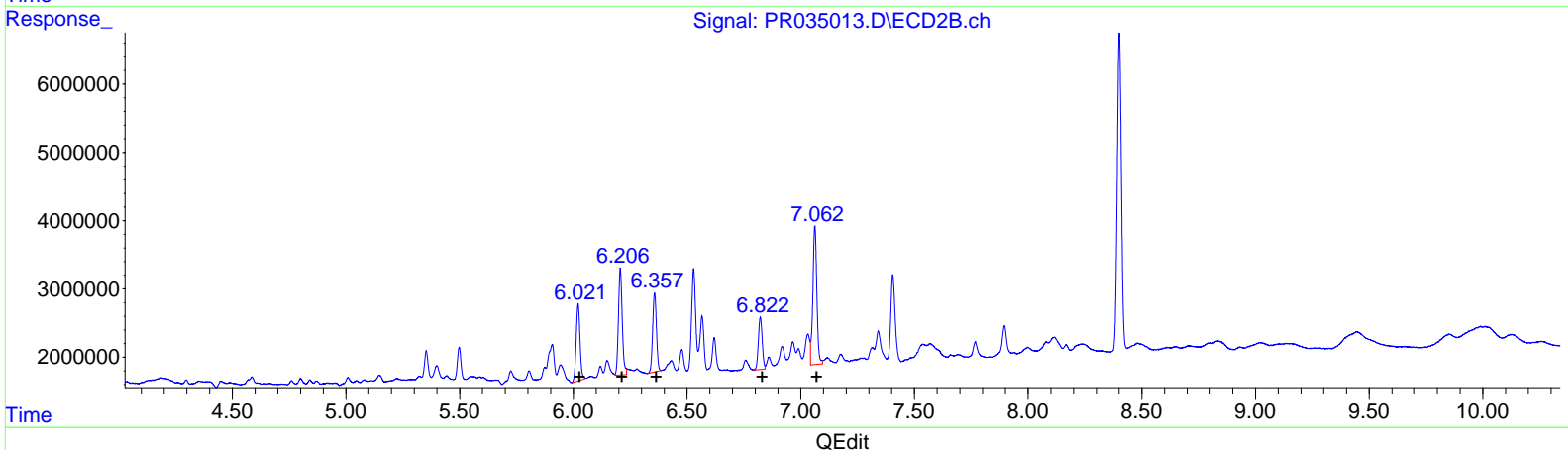
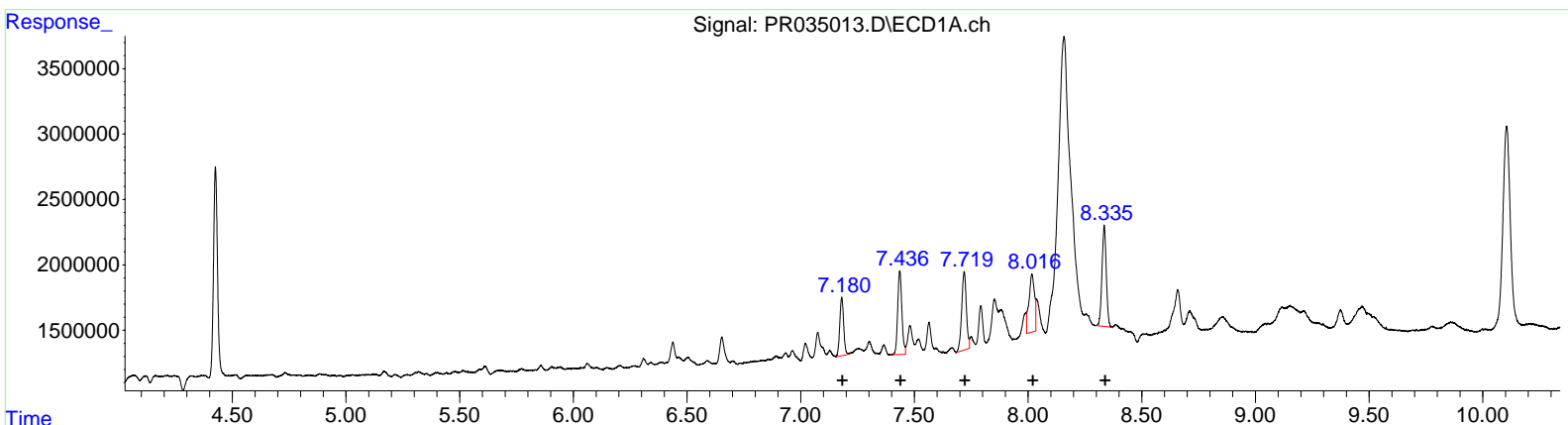
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035013.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:19
 Operator : SM\SJ
 Sample : J6432-17
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41Z8

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:38 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|-------|
| 7.18 | 5313717 | 56.52 |
| 7.44 | 8204203 | 70.66 |
| 7.72 | 8524675 | 61.08 |
| 8.02 | 7450161 | 86.27 |
| 8.34 | 10126474 | 56.09 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|-------|
| 6.02 | 13271729 | 61.74 |
| 6.21 | 18275506 | 67.16 |
| 6.36 | 13395027 | 53.96 |
| 6.82 | 9091723 | 53.17 |
| 7.06 | 24874193 | 51.43 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035013.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:19
 Operator : SM\SJ
 Sample : J6432-17
 Misc :
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41Z8

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:39 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

Sohil
 12/26/2018 8:20:38 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 19532560 | 37893742 | 10.042 | 10.870 |
| 2) SA Decachlor... | 10.105 | 8.401 | 33315658 | 58638389 | 16.947 | 13.337 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 5313717 | 13271729 | 56.524 | 61.737m |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 8204203 | 18275506 | 70.664 | 67.159m |
| 33) L7 AR-1260-3 | 7.719 | 6.357 | 8524675 | 13395027 | 61.084 | 53.961 |
| 34) L7 AR-1260-4 | 8.016 | 6.822 | 7450161 | 9091723 | 86.265m | 53.171 # |
| 35) L7 AR-1260-5 | 8.335 | 7.062 | 10126474 | 24874193 | 56.086 | 51.431 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41Z9

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-18
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035014.D
 % Solids : 64.6 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

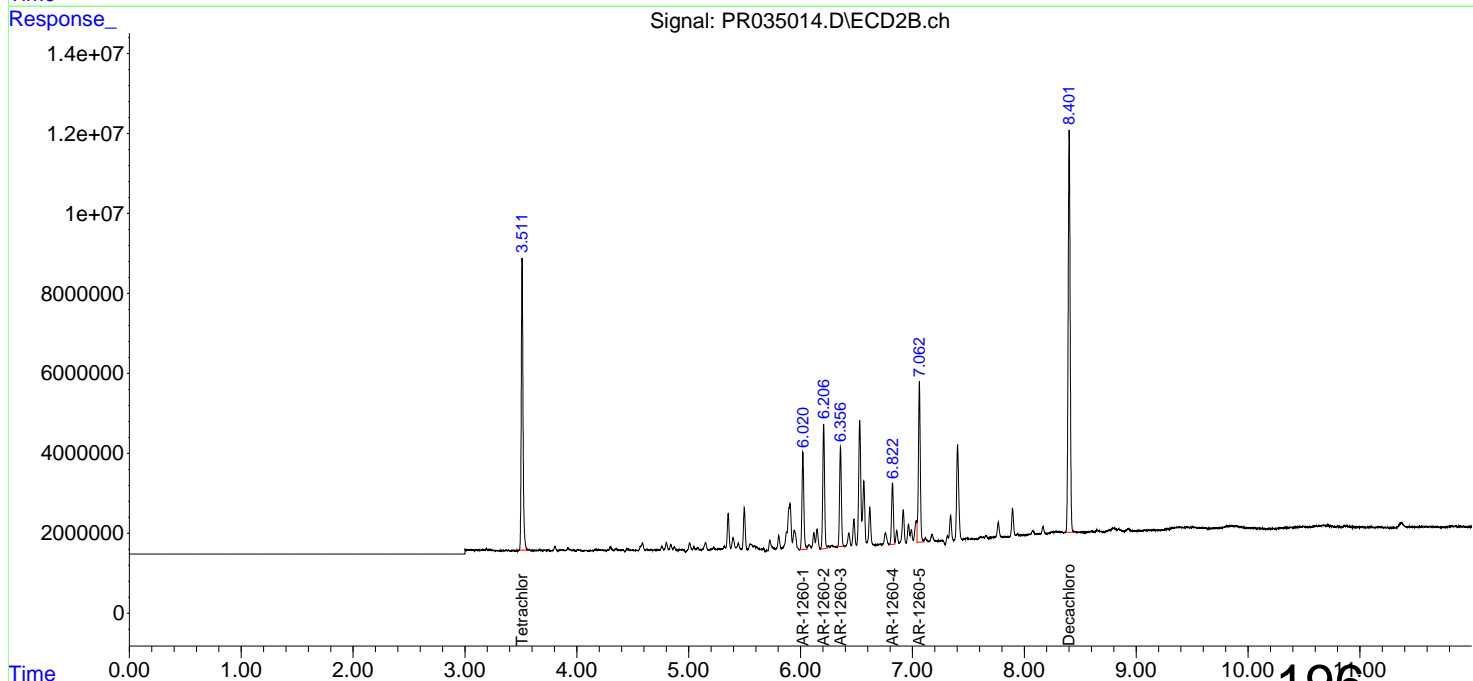
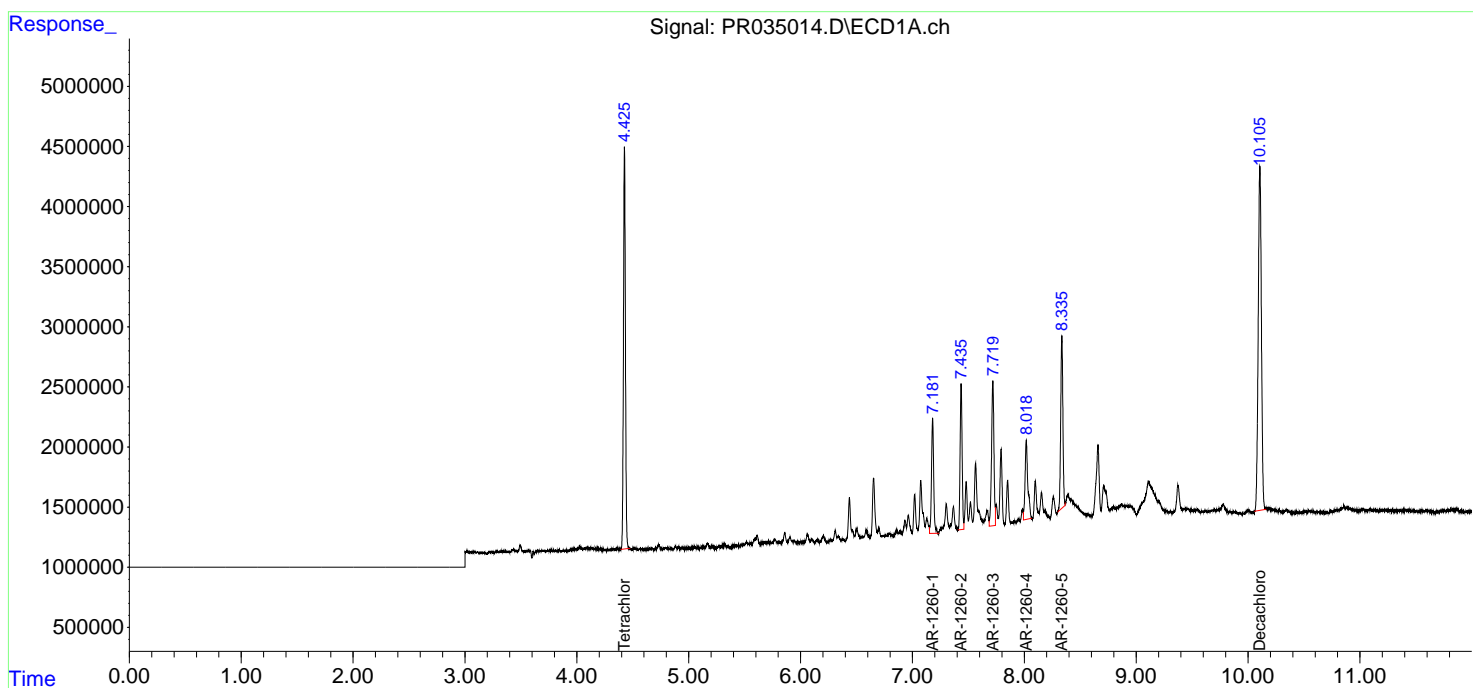
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 51 | U |
| 11104-28-2 | Aroclor-1221 | 51 | U |
| 11141-16-5 | Aroclor-1232 | 51 | U |
| 53469-21-9 | Aroclor-1242 | 51 | U |
| 12672-29-6 | Aroclor-1248 | 51 | U |
| 11097-69-1 | Aroclor-1254 | 51 | U |
| 11096-82-5 | Aroclor-1260 | 59 | |
| 37324-23-5 | Aroclor-1262 | 51 | U |
| 11100-14-4 | Aroclor-1268 | 51 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035014.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:33
 Operator : SM\SJ
 Sample : J6432-18
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41Z9

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:48 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035014.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:33
 Operator : SM\SJ
 Sample : J6432-18
 Misc :
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 A41Z9

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:42:48 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 40550519 | 79523813 | 20.848 | 22.812 |
| 2) SA Decachlor... | 10.106 | 8.401 | 56678728 | 126.7E6 | 28.831 | 28.807 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.021 | 13038770 | 27914383 | 138.699 | 129.851 |
| 32) L7 AR-1260-2 | 7.436 | 6.207 | 15053752 | 35328357 | 129.661 | 129.826 |
| 33) L7 AR-1260-3 | 7.719 | 6.357 | 17816161 | 28188292 | 127.663 | 113.554 |
| 34) L7 AR-1260-4 | 8.018 | 6.822 | 11363596 | 17507829 | 131.579 | 102.391 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 19253189 | 47220842 | 106.634 | 97.635 |
| ----- | | | | | | |

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A4200

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-19
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035015.D
 % Solids : 88.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 37 | U |
| 11104-28-2 | Aroclor-1221 | 37 | U |
| 11141-16-5 | Aroclor-1232 | 37 | U |
| 53469-21-9 | Aroclor-1242 | 37 | U |
| 12672-29-6 | Aroclor-1248 | 37 | U |
| 11097-69-1 | Aroclor-1254 | 37 | U |
| 11096-82-5 | Aroclor-1260 | 2100 | E |
| 37324-23-5 | Aroclor-1262 | 37 | U |
| 11100-14-4 | Aroclor-1268 | 37 | U |

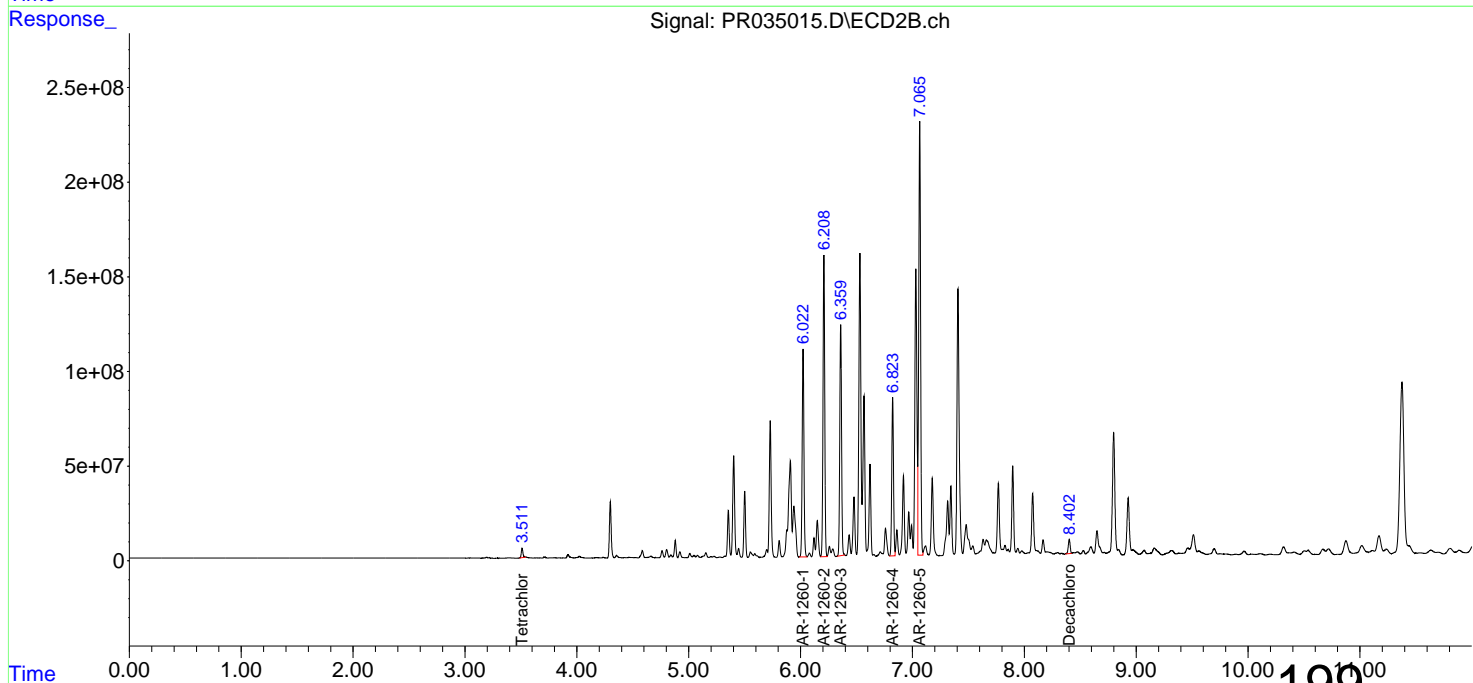
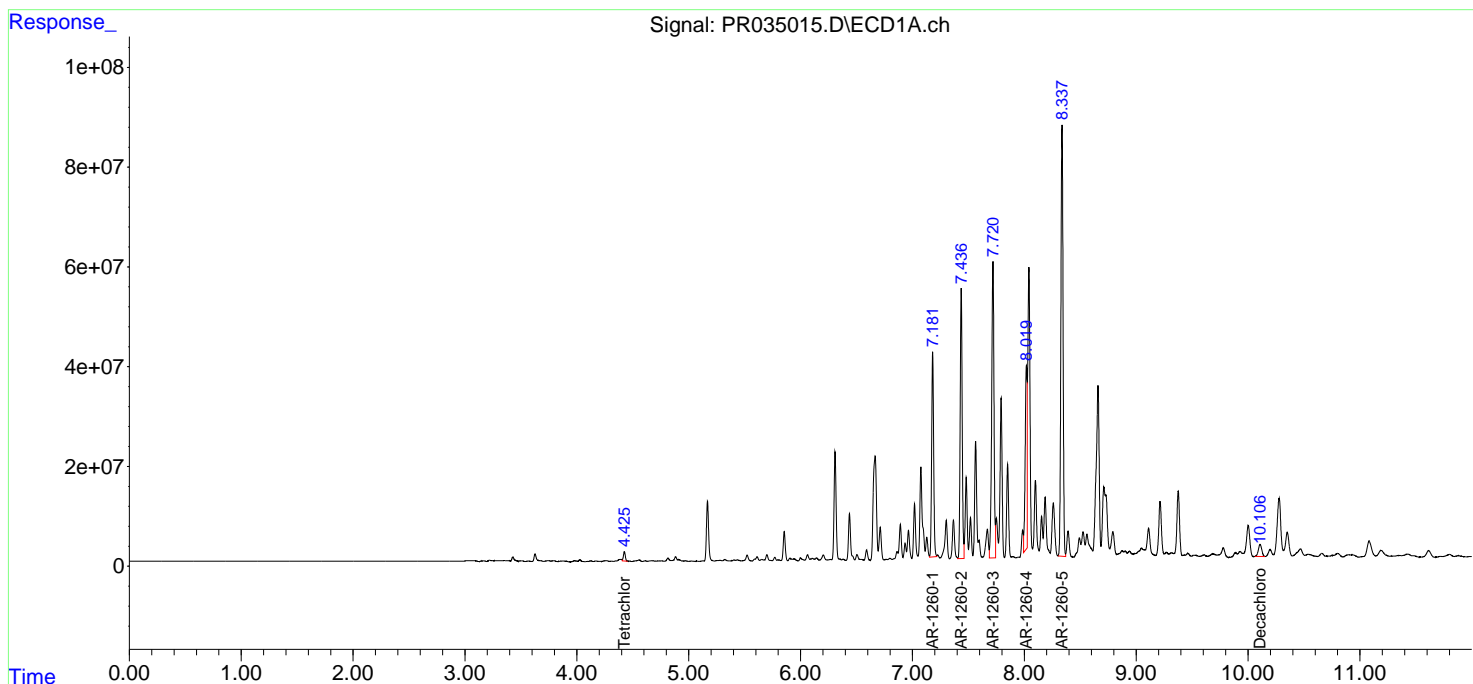
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 Data File : PR035015.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:47
 Operator : SM\SJ
 Sample : J6432-19
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A4200

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:40 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:43:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035015.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:47
 Operator : SM\SJ
 Sample : J6432-19
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A4200

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:40 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:43:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 22061593 | 51465011 | 11.343m | 14.763m# |
| 2) SA Decachlor... | 10.107 | 8.402 | 51356698 | 88203888 | 26.123 | 20.062 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.023 | 506.9E6 | 1198.0E6 | 5392.238 | 5572.650 |
| 32) L7 AR-1260-2 | 7.437 | 6.209 | 672.3E6 | 1704.9E6 | 5790.326 | 6265.394 |
| 33) L7 AR-1260-3 | 7.720 | 6.359 | 846.9E6 | 1352.2E6 | 6068.671 | 5447.078 |
| 34) L7 AR-1260-4 | 8.019 | 6.824 | 441.1E6 | 901.2E6 | 5106.968 | 5270.585 |
| 35) L7 AR-1260-5 | 8.337 | 7.066 | 1170.7E6 | 2690.3E6 | 6484.099 | 5562.462 |
| ----- | | | | | | |

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

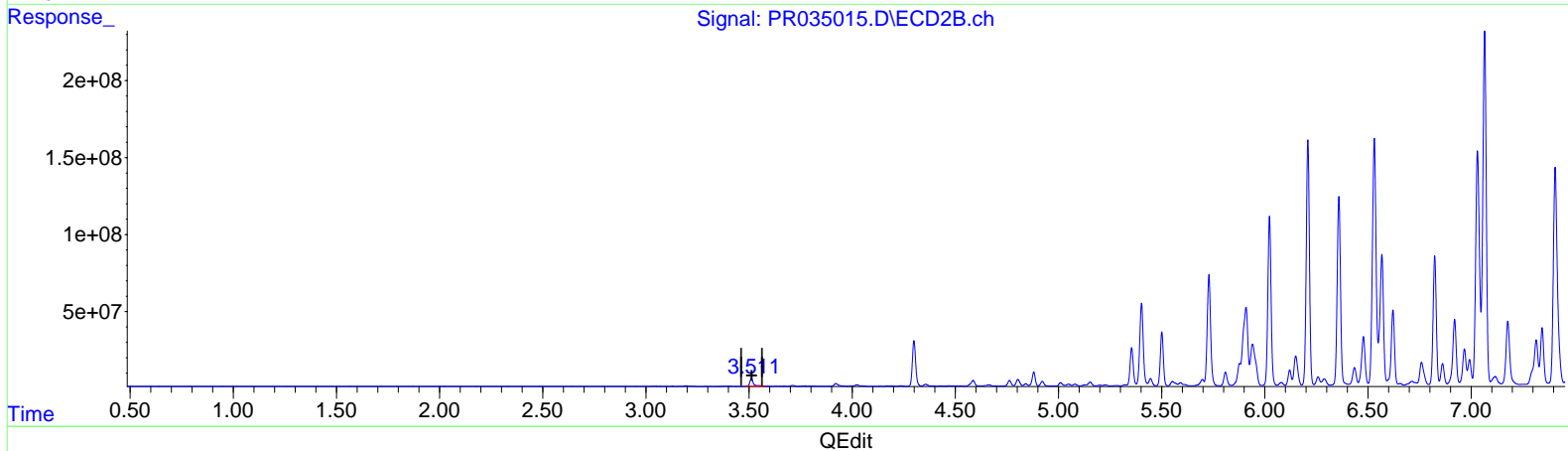
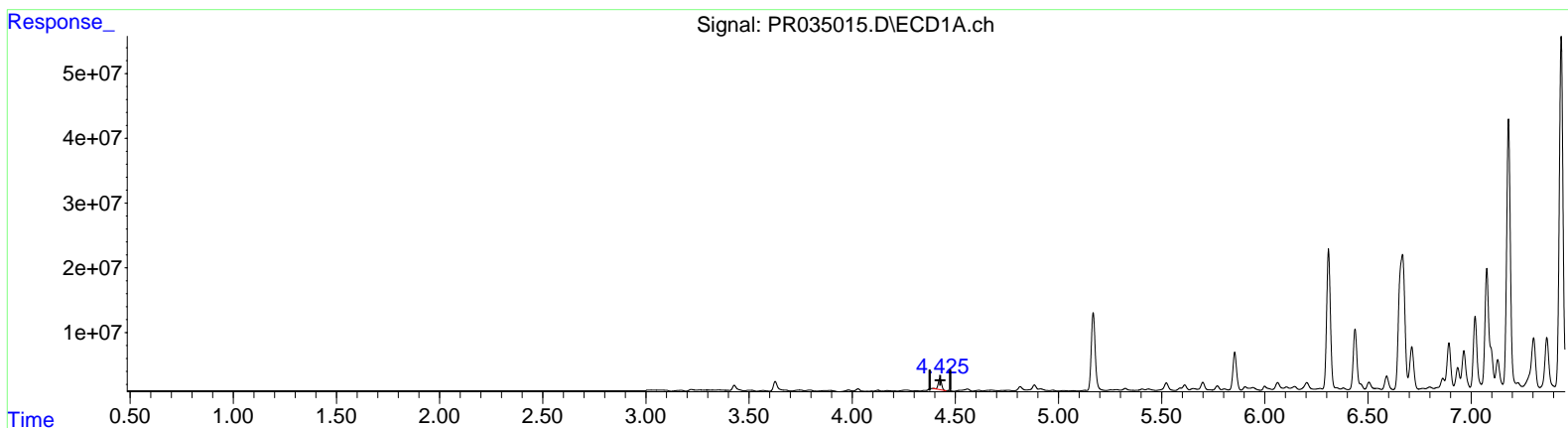
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 Data File : PR035015.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:47
 Operator : SM\SJ
 Sample : J6432-19
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A4200

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:40 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:43:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.425min 9.887 ng/ml
 response 19229832

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 18.247 ng/ml
 response 63611198

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035015.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:47
 Operator : SM\SJ
 Sample : J6432-19
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

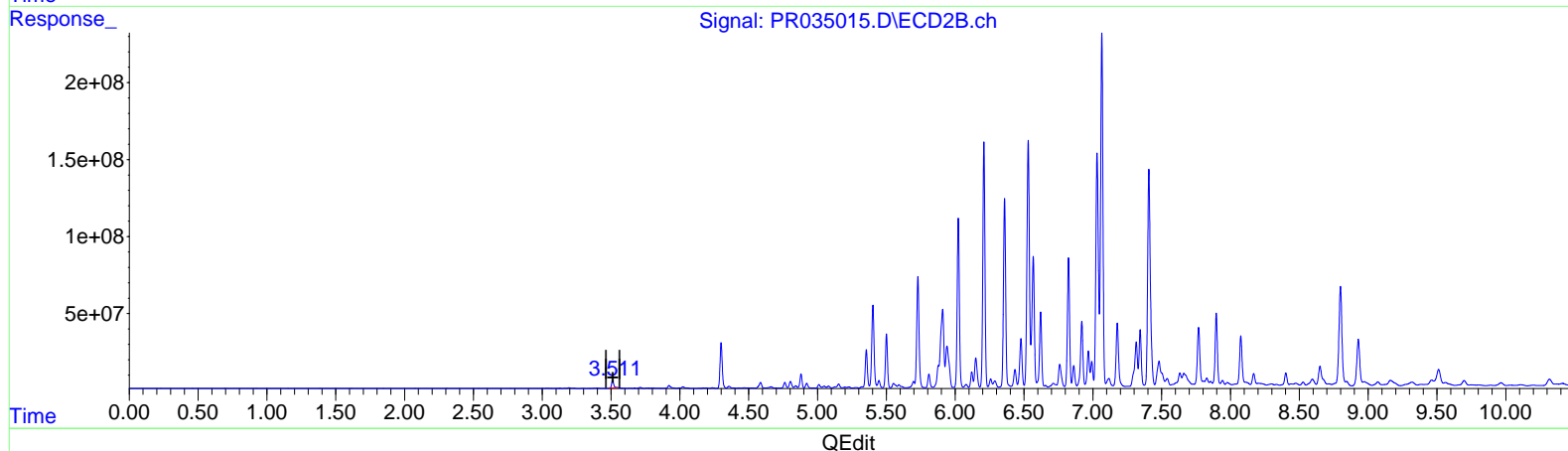
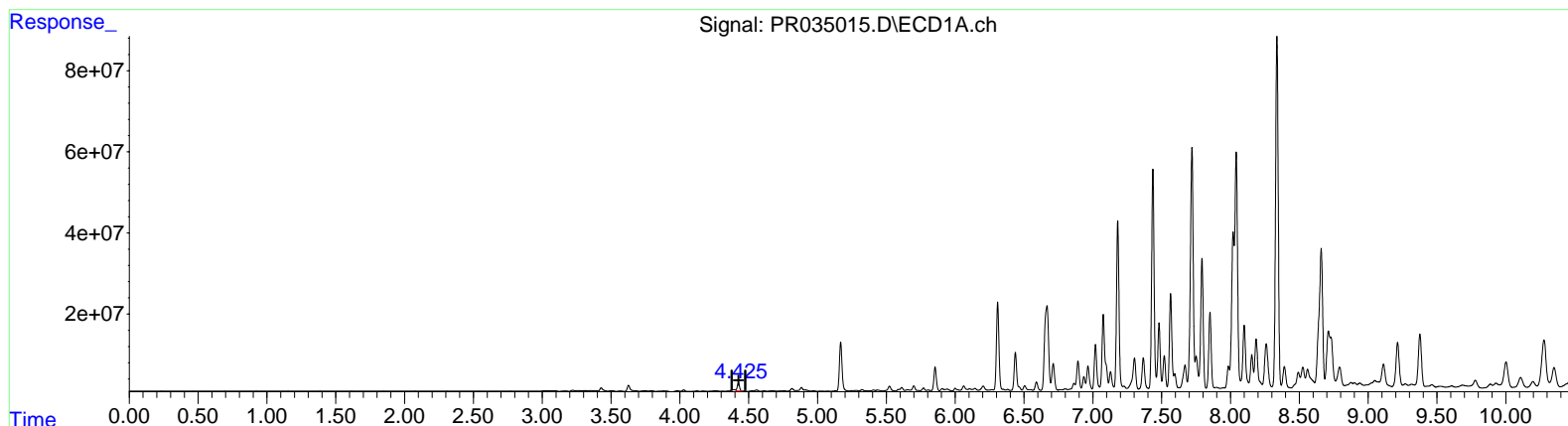
Instrument :
 ECD_R
 ClientSampled :
 A4200

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:20:40 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:43:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.425min 11.343 ng/ml m

response 22061593

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 14.763 ng/ml m

response 51465011

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035015.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 01:47
 Operator : SM\SJ
 Sample : J6432-19
 Misc :
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A4200

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:43:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:40 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 22061593 | 51465011 | 11.343m | 14.763m# |
| 2) SA Decachlor... | 10.107 | 8.402 | 51356698 | 88203888 | 26.123 | 20.062 |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.023 | 506.9E6 | 1198.0E6 | 5392.238 | 5572.650 |
| 32) L7 AR-1260-2 | 7.437 | 6.209 | 672.3E6 | 1704.9E6 | 5790.326 | 6265.394 |
| 33) L7 AR-1260-3 | 7.720 | 6.359 | 846.9E6 | 1352.2E6 | 6068.671 | 5447.078 |
| 34) L7 AR-1260-4 | 8.019 | 6.824 | 441.1E6 | 901.2E6 | 5106.968 | 5270.585 |
| 35) L7 AR-1260-5 | 8.337 | 7.066 | 1170.7E6 | 2690.3E6 | 6484.099 | 5562.462 |
| ----- | | | | | | |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A4200DL

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-19DL
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR035087.D
 % Solids : 88.2 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 5.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 190 | U |
| 11104-28-2 | Aroclor-1221 | 190 | U |
| 11141-16-5 | Aroclor-1232 | 190 | U |
| 53469-21-9 | Aroclor-1242 | 190 | U |
| 12672-29-6 | Aroclor-1248 | 190 | U |
| 11097-69-1 | Aroclor-1254 | 190 | U |
| 11096-82-5 | Aroclor-1260 | 2000 | D |
| 37324-23-5 | Aroclor-1262 | 190 | U |
| 11100-14-4 | Aroclor-1268 | 190 | U |

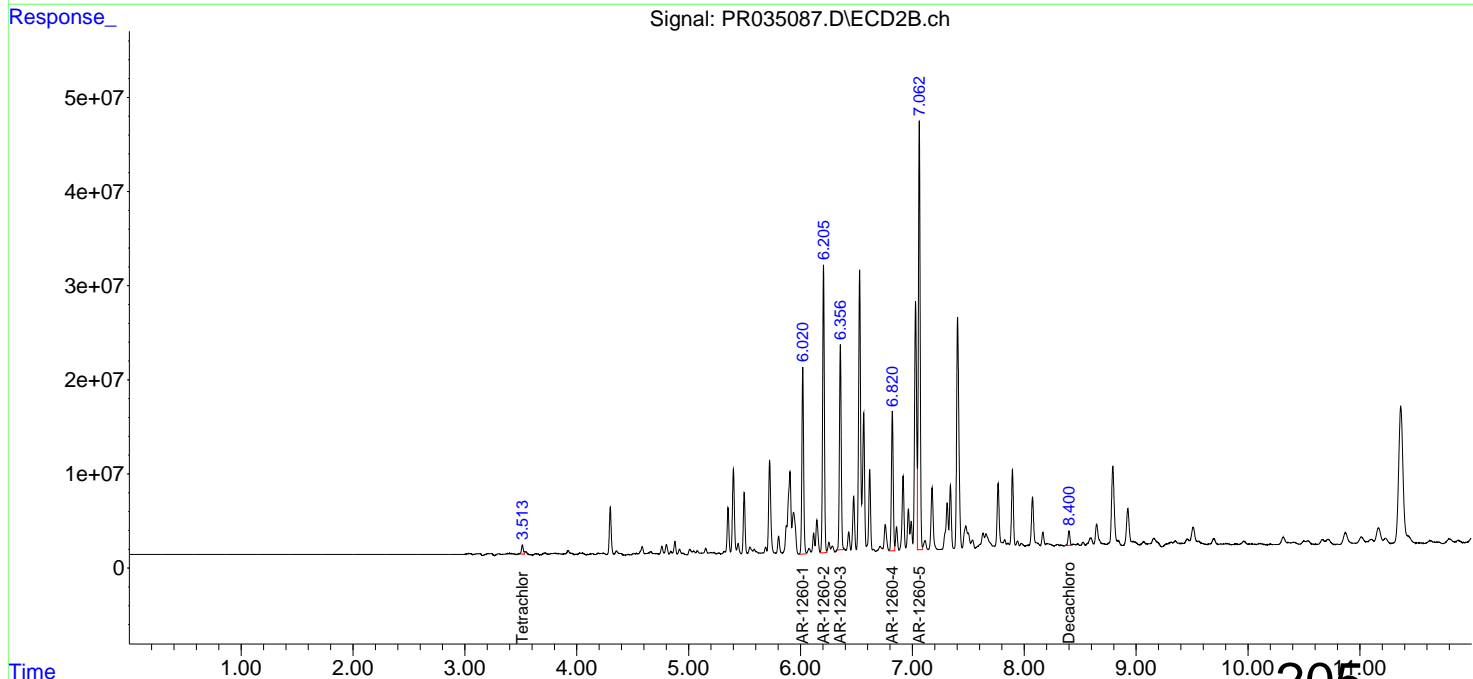
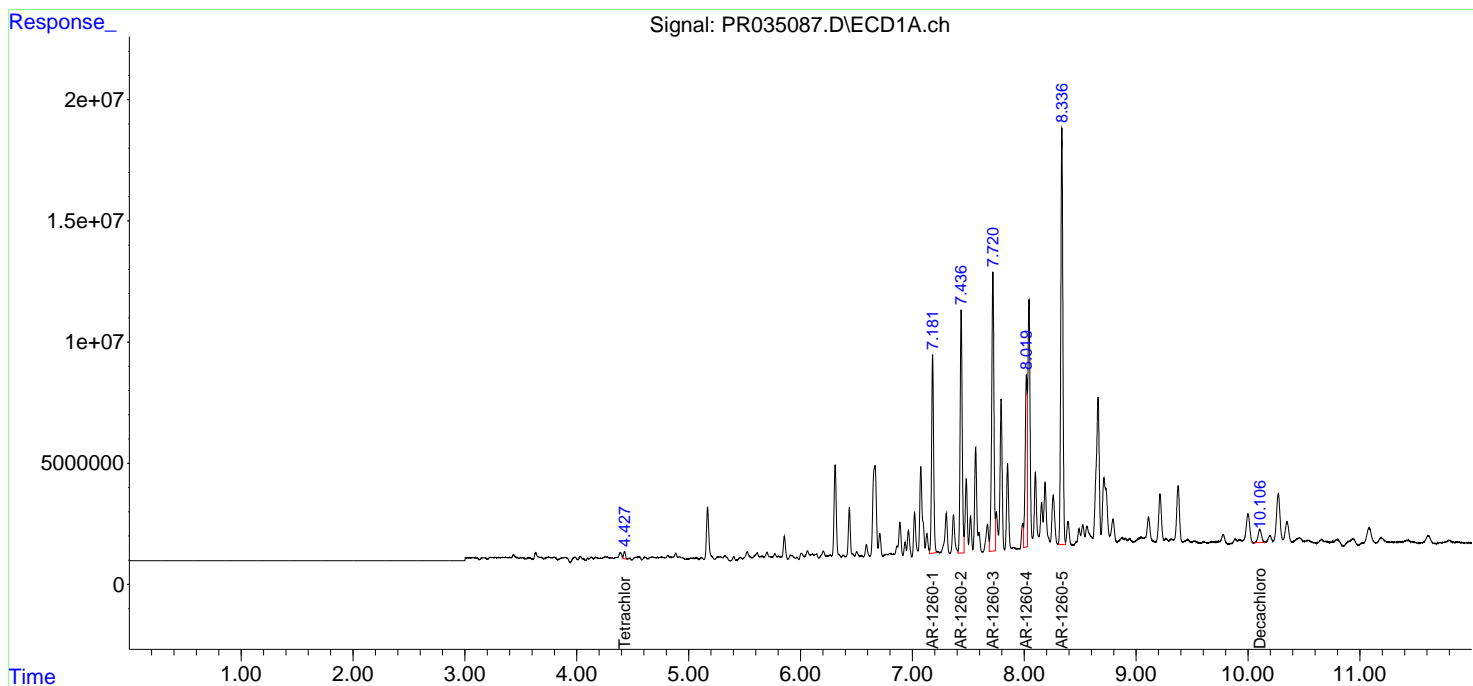
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035087.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:24
 Operator : SM\SJ
 Sample : J6432-19DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A4200DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:48 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035087.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:24
 Operator : SM\SJ
 Sample : J6432-19DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A4200DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:48 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.514 | 3515116 | 11081760 | 1.807 | 3.179 # |
| 2) SA Decachlor... | 10.105 | 8.400 | 11447945 | 17974089 | 5.823 | 4.088 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 103.3E6 | 217.2E6 | 1098.877 | 1010.393 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 128.5E6 | 334.2E6 | 1107.073 | 1228.283 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 162.7E6 | 241.5E6 | 1165.513 | 972.729 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 91625025 | 165.0E6 | 1060.922m | 964.723 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 223.4E6 | 512.4E6 | 1237.453 | 1059.426 |
| ----- | | | | | | |

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

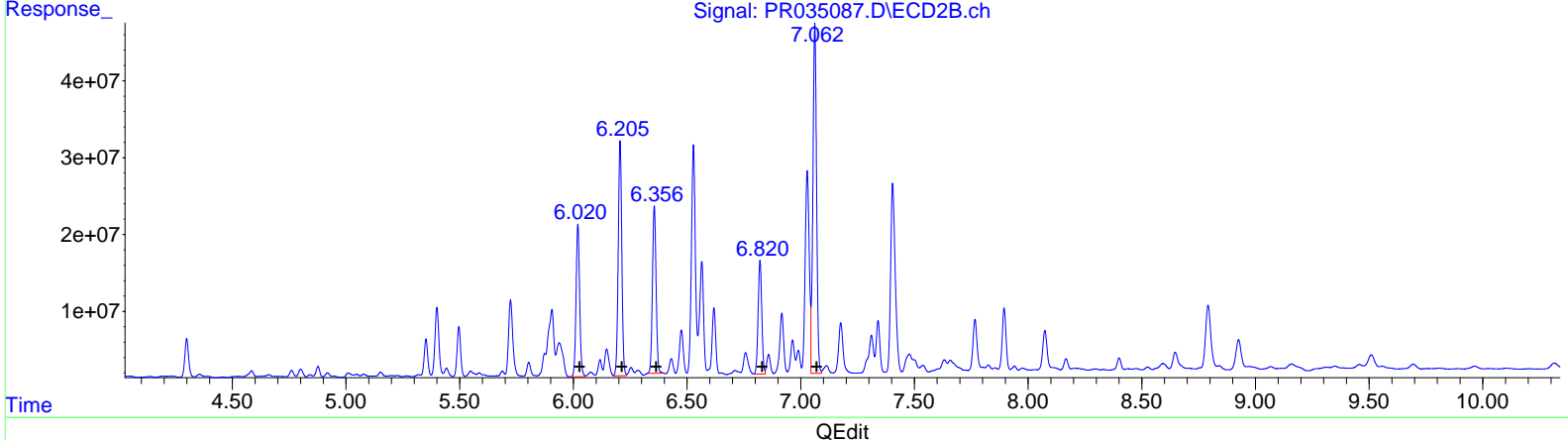
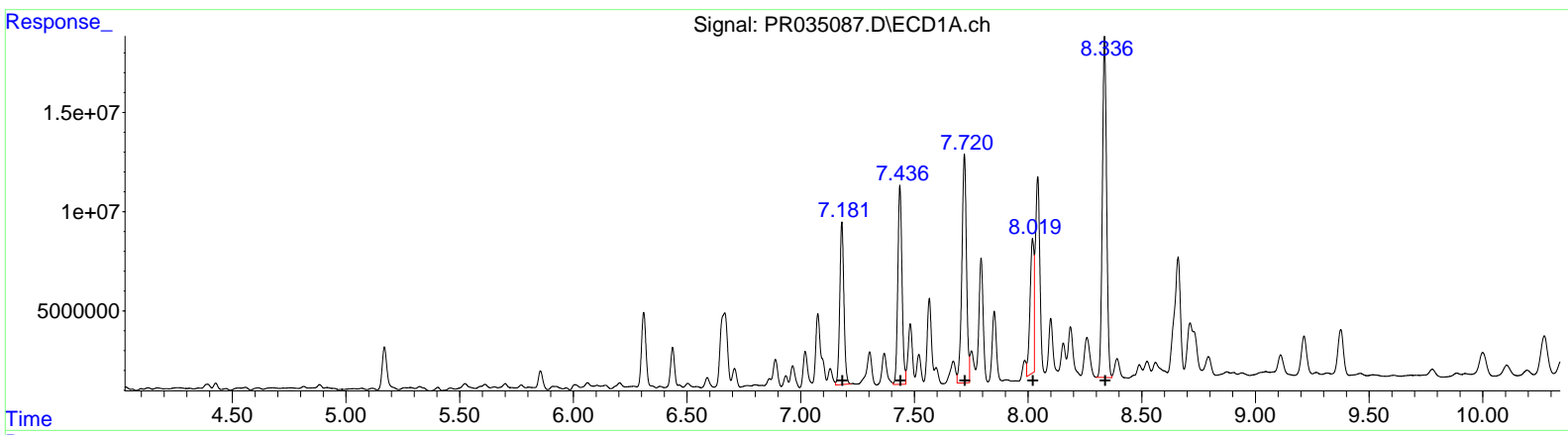
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035087.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:24
 Operator : SM\SJ
 Sample : J6432-19DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A4200DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:48 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 103303241 | 1098.88 |
| 7.44 | 128532487 | 1107.07 |
| 7.72 | 162654832 | 1165.51 |
| 8.02 | 82761704 | 958.29 |
| 8.34 | 223426805 | 1237.45 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 217206317 | 1010.39 |
| 6.21 | 334242279 | 1228.28 |
| 6.36 | 241466145 | 972.73 |
| 6.82 | 164958226 | 964.72 |
| 7.06 | 512386262 | 1059.43 |

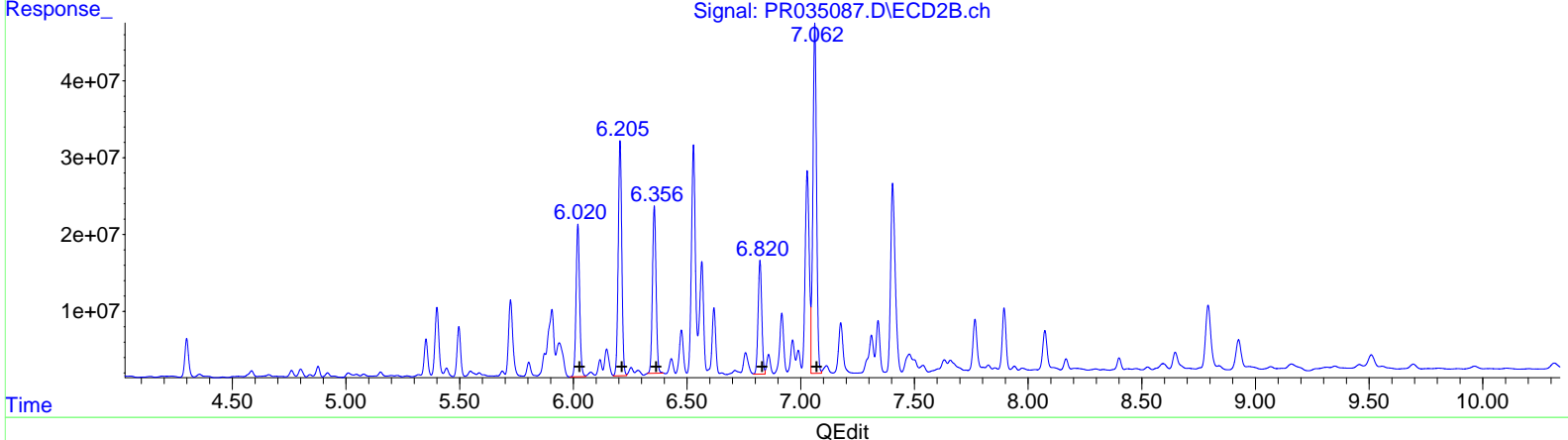
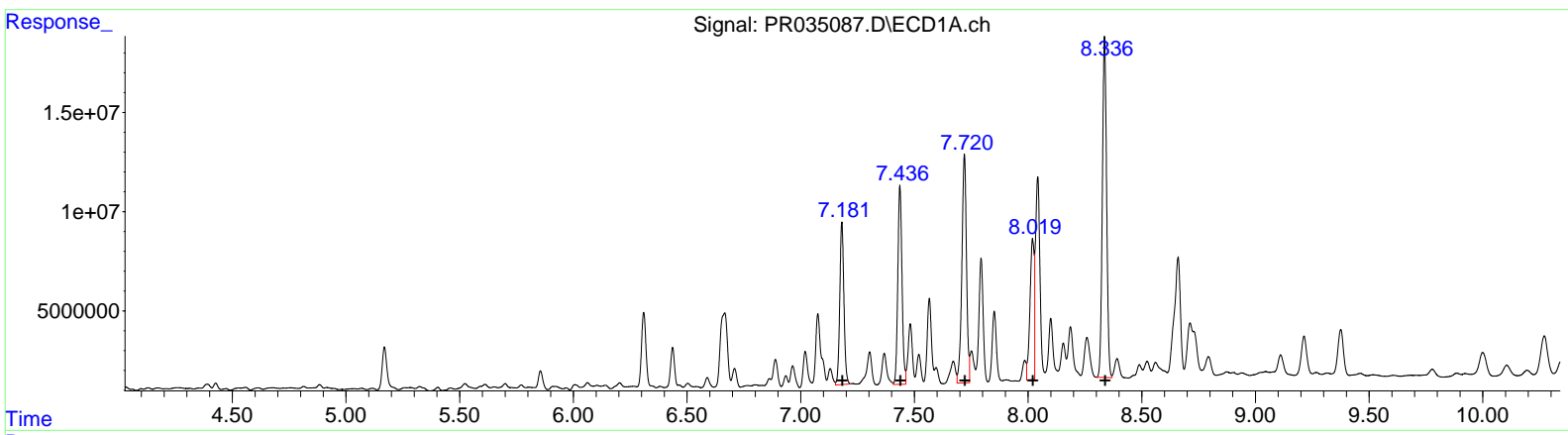
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035087.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:24
 Operator : SM\SJ
 Sample : J6432-19DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A4200DL

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:48 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 7.18 | 103303241 | 1098.88 |
| 7.44 | 128532487 | 1107.07 |
| 7.72 | 162654832 | 1165.51 |
| 8.02 | 91625025 | 1060.92 |
| 8.34 | 223426805 | 1237.45 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|-----------|---------|
| 6.02 | 217206317 | 1010.39 |
| 6.21 | 334242279 | 1228.28 |
| 6.36 | 241466145 | 972.73 |
| 6.82 | 164958226 | 964.72 |
| 7.06 | 512386262 | 1059.43 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035087.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 13:24
 Operator : SM\SJ
 Sample : J6432-19DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A4200DL

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:03:45 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:17:48 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|-----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.514 | 3515116 | 11081760 | 1.807 | 3.179 # |
| 2) SA Decachlor... | 10.105 | 8.400 | 11447945 | 17974089 | 5.823 | 4.088 # |
| Target Compounds | | | | | | |
| 31) L7 AR-1260-1 | 7.181 | 6.020 | 103.3E6 | 217.2E6 | 1098.877 | 1010.393 |
| 32) L7 AR-1260-2 | 7.436 | 6.206 | 128.5E6 | 334.2E6 | 1107.073 | 1228.283 |
| 33) L7 AR-1260-3 | 7.720 | 6.356 | 162.7E6 | 241.5E6 | 1165.513 | 972.729 |
| 34) L7 AR-1260-4 | 8.019 | 6.821 | 91625025 | 165.0E6 | 1060.922m | 964.723 |
| 35) L7 AR-1260-5 | 8.336 | 7.062 | 223.4E6 | 512.4E6 | 1237.453 | 1059.426 |

} SJ
 12/28/18

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

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|-------|-------|-------|-------|-------|-----------|-------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1016 | 1 | 5.60 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1016 | 2 | 5.62 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.54 | 5.68 |
| Aroclor-1016 | 3 | 5.68 | 5.68 | 5.68 | 5.67 | 5.67 | 5.68 | 5.61 | 5.75 |
| Aroclor-1016 | 4 | 5.78 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.70 | 5.84 |
| Aroclor-1016 | 5 | 6.07 | 6.07 | 6.07 | 6.07 | 6.06 | 6.07 | 6.00 | 6.14 |
| Aroclor-1260 | 1 | 7.19 | 7.18 | 7.18 | 7.18 | 7.18 | 7.19 | 7.12 | 7.26 |
| Aroclor-1260 | 2 | 7.45 | 7.44 | 7.44 | 7.44 | 7.44 | 7.44 | 7.37 | 7.51 |
| Aroclor-1260 | 3 | 7.73 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.65 | 7.79 |
| Aroclor-1260 | 4 | 8.03 | 8.02 | 8.02 | 8.02 | 8.02 | 8.02 | 7.95 | 8.09 |
| Aroclor-1260 | 5 | 8.35 | 8.34 | 8.34 | 8.34 | 8.34 | 8.34 | 8.27 | 8.41 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.13 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1242 | 1 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1242 | 2 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.61 | 5.54 | 5.68 |
| Aroclor-1242 | 3 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.67 | 5.60 | 5.74 |
| Aroclor-1242 | 4 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.77 | 5.70 | 5.84 |
| Aroclor-1242 | 5 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.43 | 6.57 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1248 | 1 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.59 | 5.52 | 5.66 |
| Aroclor-1248 | 2 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.79 | 5.93 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|-------|-------|-------|-------|-------|-----------|-------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1248 | 3 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 6.06 | 5.99 | 6.13 |
| Aroclor-1248 | 4 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.40 | 6.54 |
| Aroclor-1248 | 5 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.50 | 6.43 | 6.57 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |
| Aroclor-1254 | 1 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.44 | 6.37 | 6.51 |
| Aroclor-1254 | 2 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.66 | 6.59 | 6.73 |
| Aroclor-1254 | 3 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.95 | 7.09 |
| Aroclor-1254 | 4 | 7.31 | 7.31 | 7.31 | 7.31 | 7.31 | 7.30 | 7.23 | 7.37 |
| Aroclor-1254 | 5 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.72 | 7.65 | 7.79 |
| TCX | | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.43 | 4.38 | 4.48 |
| DCB | | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.11 | 10.01 | 10.21 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date (s): 12/17/18 12/17/18
 Calibration Time (s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|------|------|------|------|------|-----------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1016 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1016 | 2 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.52 | 4.66 |
| Aroclor-1016 | 3 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.69 | 4.83 |
| Aroclor-1016 | 4 | 4.81 | 4.81 | 4.81 | 4.81 | 4.81 | 4.80 | 4.73 | 4.87 |
| Aroclor-1016 | 5 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.94 | 5.08 |
| Aroclor-1260 | 1 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 6.03 | 5.96 | 6.10 |
| Aroclor-1260 | 2 | 6.22 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.14 | 6.28 |
| Aroclor-1260 | 3 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.37 | 6.30 | 6.44 |
| Aroclor-1260 | 4 | 6.83 | 6.83 | 6.83 | 6.83 | 6.83 | 6.83 | 6.76 | 6.90 |
| Aroclor-1260 | 5 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.00 | 7.14 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.42 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1242 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1242 | 2 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.59 | 4.52 | 4.66 |
| Aroclor-1242 | 3 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.69 | 4.83 |
| Aroclor-1242 | 4 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.84 | 4.77 | 4.91 |
| Aroclor-1242 | 5 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.29 | 5.43 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.42 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1248 | 1 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.50 | 4.64 |
| Aroclor-1248 | 2 | 4.80 | 4.80 | 4.81 | 4.81 | 4.80 | 4.80 | 4.73 | 4.87 |

FORM 6D-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | RT OF STANDARDS | | | | | RT | RT WINDOW | |
|--------------|------|-----------------|------|------|------|------|------|-----------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | FROM | TO |
| Aroclor-1248 | 3 | 4.85 | 4.85 | 4.85 | 4.85 | 4.85 | 4.84 | 4.77 | 4.91 |
| Aroclor-1248 | 4 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.94 | 5.08 |
| Aroclor-1248 | 5 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.40 | 5.33 | 5.47 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |
| Aroclor-1254 | 1 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.29 | 5.43 |
| Aroclor-1254 | 2 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.50 | 5.43 | 5.57 |
| Aroclor-1254 | 3 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.90 | 5.83 | 5.97 |
| Aroclor-1254 | 4 | 6.12 | 6.12 | 6.13 | 6.12 | 6.12 | 6.12 | 6.05 | 6.19 |
| Aroclor-1254 | 5 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.47 | 6.61 |
| TCX | | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.51 | 3.46 | 3.56 |
| DCB | | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | CF | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1016 | 1 | 85496790 | 67391880 | 61120593 | 65173403 | 58333319 | 67503197 | 15.8 |
| Aroclor-1016 | 2 | 121198880 | 98315265 | 90585548 | 96852955 | 88181963 | 99026922 | 13.2 |
| Aroclor-1016 | 3 | 71272310 | 60687515 | 54189475 | 57025470 | 51103869 | 58855728 | 13.2 |
| Aroclor-1016 | 4 | 58247010 | 46212995 | 43465063 | 46938168 | 42321286 | 47436904 | 13.4 |
| Aroclor-1016 | 5 | 59138380 | 46227095 | 44167588 | 46864665 | 41740051 | 47627556 | 14.2 |
| Aroclor-1260 | 1 | 116211160 | 94822230 | 87790395 | 87821795 | 83394446 | 94008005 | 13.9 |
| Aroclor-1260 | 2 | 136268590 | 117692900 | 110776323 | 108674915 | 107093126 | 116101171 | 10.3 |
| Aroclor-1260 | 3 | 149970600 | 144422430 | 136454755 | 133014001 | 133920246 | 139556407 | 5.3 |
| Aroclor-1260 | 4 | 99037500 | 89528380 | 82993353 | 79578783 | 80679901 | 86363583 | 9.3 |
| Aroclor-1260 | 5 | 199787780 | 185931315 | 174704768 | 166706504 | 175638296 | 180553733 | 7.1 |
| TCX | | 2315065600 | 1821388000 | 1801669700 | 1966341425 | 1820690275 | 1945031000 | 11.2 |
| DCB | | 2253143000 | 2070602500 | 1905299975 | 1759567075 | 1841000256 | 1965922561 | 10.0 |
| Aroclor-1242 | 1 | 73434920 | 59234540 | 56752480 | 51612086 | 48984377 | 58003681 | 16.4 |
| Aroclor-1242 | 2 | 107284840 | 84459955 | 83467020 | 75928881 | 72075621 | 84643264 | 16.2 |
| Aroclor-1242 | 3 | 63402990 | 50756345 | 49480828 | 44905008 | 42008516 | 50110737 | 16.4 |
| Aroclor-1242 | 4 | 50455360 | 40723785 | 40716393 | 37261200 | 35165084 | 40864364 | 14.4 |
| Aroclor-1242 | 5 | 56608810 | 47261120 | 45390703 | 41863173 | 39170793 | 46058920 | 14.5 |
| TCX | | 2532855800 | 2067425400 | 2135748100 | 1952182600 | 1906279725 | 2118898325 | 11.7 |
| DCB | | 2523157100 | 2270970250 | 2117249300 | 1998509113 | 1912162075 | 2164409568 | 11.2 |
| Aroclor-1248 | 1 | 56446150 | 50668385 | 47893945 | 44288589 | 43316076 | 48522629 | 10.9 |
| Aroclor-1248 | 2 | 78551880 | 68784645 | 64666478 | 60080586 | 58283929 | 66073504 | 12.2 |
| Aroclor-1248 | 3 | 86628030 | 77695080 | 73424098 | 68721280 | 67106099 | 74714917 | 10.5 |
| Aroclor-1248 | 4 | 107588580 | 92661375 | 86666585 | 81118309 | 78694835 | 89345937 | 12.9 |
| Aroclor-1248 | 5 | 99982150 | 85728530 | 81640875 | 76624205 | 74365419 | 83668236 | 12.1 |
| TCX | | 2119301800 | 1931145800 | 1894169450 | 1829214000 | 1870424638 | 1928851138 | 5.8 |
| DCB | | 2426017300 | 2156027800 | 1998708200 | 1877127413 | 1845799963 | 2060736135 | 11.5 |
| Aroclor-1254 | 1 | 95947180 | 87934265 | 80881718 | 73353954 | 70408014 | 81705026 | 12.8 |
| Aroclor-1254 | 2 | 150975500 | 136739780 | 124792905 | 115012931 | 111362033 | 127776630 | 12.7 |
| Aroclor-1254 | 3 | 157134160 | 143459175 | 130546753 | 122456906 | 121263259 | 134972051 | 11.3 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | \overline{CF} | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|-----------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1254 | 4 | 124749530 | 113413365 | 102506298 | 95696304 | 94023850 | 106077869 | 12.2 |
| Aroclor-1254 | 5 | 120773060 | 111491880 | 104908598 | 99416665 | 99126570 | 107143355 | 8.5 |
| TCX | | 1983569800 | 1929948300 | 1982881200 | 1868043500 | 1746908775 | 1902270315 | 5.2 |
| DCB | | 2377497600 | 2168056400 | 1958465425 | 1845521300 | 1828161931 | 2035540531 | 11.5 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030

Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3

Analytical Method: ARO

Instrument ID: ECD_R

Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0

GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18

Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | CF | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1016 | 1 | 157117160 | 127028410 | 119146060 | 128645489 | 118685290 | 130124482 | 12.1 |
| Aroclor-1016 | 2 | 232414680 | 189037150 | 182058538 | 199857899 | 184883003 | 197650254 | 10.4 |
| Aroclor-1016 | 3 | 113573320 | 92047760 | 88926370 | 96564743 | 89467639 | 96115966 | 10.6 |
| Aroclor-1016 | 4 | 91010360 | 74229715 | 70253605 | 74532966 | 67718408 | 75549011 | 12.0 |
| Aroclor-1016 | 5 | 125099600 | 100573425 | 95000830 | 100803125 | 92652112 | 102825818 | 12.6 |
| Aroclor-1260 | 1 | 255381590 | 211874845 | 201181418 | 204229259 | 202193869 | 214972196 | 10.7 |
| Aroclor-1260 | 2 | 314486160 | 268605460 | 257464270 | 257754575 | 262297405 | 272121574 | 8.9 |
| Aroclor-1260 | 3 | 284780880 | 242578275 | 234240683 | 237008906 | 242570535 | 248235856 | 8.4 |
| Aroclor-1260 | 4 | 191773850 | 171225865 | 164201450 | 159643493 | 168106943 | 170990320 | 7.3 |
| Aroclor-1260 | 5 | 539882330 | 489288430 | 458191698 | 447259764 | 483604640 | 483645372 | 7.4 |
| TCX | | 4031338000 | 3299133900 | 3194921700 | 3553827150 | 3350929650 | 3486030080 | 9.5 |
| DCB | | 4808872200 | 4521520750 | 4239536000 | 4047548875 | 4365854869 | 4396666539 | 6.6 |
| Aroclor-1242 | 1 | 142359350 | 113228610 | 110551130 | 102524343 | 98904065 | 113513500 | 15.1 |
| Aroclor-1242 | 2 | 209373620 | 166559435 | 168793028 | 157202891 | 151710909 | 170727977 | 13.3 |
| Aroclor-1242 | 3 | 103521700 | 84110860 | 83411880 | 77954895 | 74657106 | 84731288 | 13.2 |
| Aroclor-1242 | 4 | 105626630 | 82959070 | 80620505 | 74195453 | 69984393 | 82677210 | 16.7 |
| Aroclor-1242 | 5 | 138269220 | 107619185 | 108833723 | 103115814 | 98289064 | 111225401 | 14.1 |
| TCX | | 4532430400 | 3719463500 | 3921157250 | 3646815475 | 3608610813 | 3885695488 | 9.8 |
| DCB | | 5549508500 | 5035108650 | 4786424650 | 4685774675 | 4585200031 | 4928403301 | 7.8 |
| Aroclor-1248 | 1 | 113959240 | 99457945 | 95561473 | 89848276 | 88681523 | 97501691 | 10.4 |
| Aroclor-1248 | 2 | 150379560 | 131285520 | 125359555 | 117592488 | 115894935 | 128102412 | 10.9 |
| Aroclor-1248 | 3 | 154831880 | 135077550 | 129110145 | 121291318 | 119575024 | 131977183 | 10.8 |
| Aroclor-1248 | 4 | 192259690 | 166553390 | 160485315 | 152238820 | 151114278 | 164530299 | 10.2 |
| Aroclor-1248 | 5 | 191977840 | 168997935 | 163767980 | 156372539 | 155662157 | 167355690 | 8.9 |
| TCX | | 4111601600 | 3775626600 | 3742002750 | 3611638450 | 3738220563 | 3795817993 | 4.9 |
| DCB | | 5349726300 | 4793425200 | 4565132225 | 4416972063 | 4435183488 | 4712087855 | 8.2 |
| Aroclor-1254 | 1 | 281480250 | 258431750 | 241837580 | 223585224 | 218133568 | 244693674 | 10.6 |
| Aroclor-1254 | 2 | 246735360 | 224872385 | 207186038 | 194074703 | 190579085 | 212689514 | 11.0 |
| Aroclor-1254 | 3 | 402913790 | 374137370 | 345484603 | 331728594 | 332327092 | 357318290 | 8.6 |

FORM 6E-OR

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 Level (x CS1): CS1 1.0 CS2 2.0 CS3 4.0 CS4 8.0 CS5 16.0
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | PEAK | CF OF STANDARDS | | | | | $\overline{\text{CF}}$ | %RSD |
|--------------|------|-----------------|------------|------------|------------|------------|------------------------|------|
| | | CS1 | CS2 | CS3 | CS4 | CS5 | | |
| Aroclor-1254 | 4 | 271819590 | 248194315 | 225145143 | 217542819 | 218249933 | 236190360 | 9.9 |
| Aroclor-1254 | 5 | 361503220 | 335875350 | 303818353 | 294825795 | 298686214 | 318941786 | 9.0 |
| TCX | | 4024984000 | 3819388600 | 3917264450 | 3731199000 | 3508785813 | 3800324373 | 5.2 |
| DCB | | 5319766400 | 4887795050 | 4504330775 | 4367435300 | 4429745281 | 4701814561 | 8.5 |

FORM 6F-OR

INITIAL CALIBRATION (SINGLE POINT) OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 GC Column: ZB-MR1 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | AMOUNT (ng) | PEAK | RT | RT WINDOW | | CALIBRATION FACTOR |
|--------------|----------------|------|------|-----------|------|-----------------------|
| | | | | FROM | TO | |
| Aroclor-1221 | 100 | 1 | 4.64 | 4.56 | 4.71 | 22012600 |
| | | 2 | 4.72 | 4.65 | 4.79 | 15330800 |
| | | 3 | 4.80 | 4.73 | 4.87 | 54089100 |
| | | 4 | 0.00 | | | |
| | | 5 | 0.00 | | | |
| Aroclor-1232 | 100 | 1 | 4.80 | 4.73 | 4.87 | 44835200 |
| | | 2 | 5.32 | 5.25 | 5.39 | 23143800 |
| | | 3 | 5.61 | 5.54 | 5.68 | 51315200 |
| | | 4 | 5.77 | 5.70 | 5.84 | 23313700 |
| | | 5 | 5.86 | 5.79 | 5.93 | 15810600 |
| Aroclor-1262 | 100 | 1 | 7.80 | 7.72 | 7.87 | 162403000 |
| | | 2 | 8.34 | 8.27 | 8.41 | 282800000 |
| | | 3 | 8.64 | 8.57 | 8.71 | 194325000 |
| | | 4 | 8.73 | 8.66 | 8.80 | 147575000 |
| | | 5 | 9.38 | 9.31 | 9.45 | 106070000 |
| Aroclor-1268 | 100 | 1 | 8.64 | 8.57 | 8.71 | 379935000 |
| | | 2 | 8.73 | 8.66 | 8.80 | 341435000 |
| | | 3 | 8.96 | 8.89 | 9.03 | 303208000 |
| | | 4 | 9.38 | 9.31 | 9.45 | 124505000 |
| | | 5 | 9.78 | 9.71 | 9.85 | 925832000 |

FORM 6F-OR

INITIAL CALIBRATION (SINGLE POINT) OF MULTICOMPONENT ANALYTES

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO
 Instrument ID: ECD_R
 GC Column: ZB-MR2 ID: 0.32 (mm) Calibration Date(s): 12/17/18 12/17/18
 Calibration Time(s): 15:11 20:43

| ANALYTE | AMOUNT (ng) | PEAK | RT | RT WINDOW | | CALIBRATION FACTOR |
|--------------|----------------|------|------|-----------|------|-----------------------|
| | | | | FROM | TO | |
| Aroclor-1221 | 100 | 1 | 3.72 | 3.65 | 3.79 | 42248700 |
| | | 2 | 3.81 | 3.74 | 3.88 | 30735800 |
| | | 3 | 3.88 | 3.81 | 3.95 | 110938000 |
| | | 4 | 0.00 | | | |
| | | 5 | 0.00 | | | |
| Aroclor-1232 | 100 | 1 | 3.88 | 3.81 | 3.95 | 91385300 |
| | | 2 | 4.59 | 4.52 | 4.66 | 103290000 |
| | | 3 | 4.76 | 4.69 | 4.83 | 48300900 |
| | | 4 | 4.85 | 4.77 | 4.92 | 44778300 |
| | | 5 | 5.01 | 4.94 | 5.08 | 49702800 |
| Aroclor-1262 | 100 | 1 | 6.57 | 6.50 | 6.64 | 388537000 |
| | | 2 | 7.07 | 7.00 | 7.14 | 711808000 |
| | | 3 | 7.35 | 7.28 | 7.42 | 305574000 |
| | | 4 | 7.41 | 7.34 | 7.48 | 523551000 |
| | | 5 | 7.90 | 7.83 | 7.97 | 244501000 |
| Aroclor-1268 | 100 | 1 | 7.35 | 7.28 | 7.42 | 910284000 |
| | | 2 | 7.41 | 7.34 | 7.48 | 839937000 |
| | | 3 | 7.62 | 7.55 | 7.69 | 732198000 |
| | | 4 | 7.90 | 7.83 | 7.97 | 290430000 |
| | | 5 | 8.18 | 8.11 | 8.25 | 2251790000 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK95 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK95 Time Analyzed: 08:41
 EPA Sample No.: AR1660328 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 09:14
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.60 | 5.52 | 5.66 | 67503200 | 67826200 | 0.48 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 99584800 | 0.56 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 57975500 | -1.5 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 48703000 | 2.7 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 49724300 | 4.4 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 102869000 | 9.4 |
| Aroclor-1260 | 2 | 7.45 | 7.37 | 7.51 | 116101168 | 136303008 | 17 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 164671008 | 18 |
| Aroclor-1260 | 4 | 8.03 | 7.95 | 8.09 | 86363584 | 97101400 | 12 |
| Aroclor-1260 | 5 | 8.35 | 8.27 | 8.41 | 180553728 | 209856000 | 16 |
| TCX | | 4.44 | 4.38 | 4.48 | 1945031040 | 1836569984 | -5.6 |
| DCB | | 10.12 | 10.01 | 10.21 | 1965922560 | 2012679936 | 2.4 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK95 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK95 Time Analyzed: 08:41
 EPA Sample No.: AR1660328 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 09:14
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 122857000 | -5.6 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 188288000 | -4.7 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 95013504 | -1.1 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 74656200 | -1.2 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 100051000 | -2.7 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 228084000 | 6.1 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 313273984 | 15 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 274140000 | 10 |
| Aroclor-1260 | 4 | 6.83 | 6.76 | 6.90 | 170990320 | 199594000 | 17 |
| Aroclor-1260 | 5 | 7.07 | 7.00 | 7.14 | 483645376 | 573340032 | 19 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 3476509952 | -0.25 |
| DCB | | 8.41 | 8.31 | 8.51 | 4396666368 | 4698970112 | 6.9 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK96 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK96 Time Analyzed: 15:23
 EPA Sample No.: AR1660329 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 15:54
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.60 | 5.52 | 5.66 | 67503200 | 63636200 | -5.7 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 90019696 | -9.1 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 53581300 | -9 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 45142100 | -4.8 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 45933200 | -3.6 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 94726200 | 0.77 |
| Aroclor-1260 | 2 | 7.45 | 7.37 | 7.51 | 116101168 | 122373000 | 5.4 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 146796992 | 5.2 |
| Aroclor-1260 | 4 | 8.03 | 7.95 | 8.09 | 86363584 | 86662704 | 0.35 |
| Aroclor-1260 | 5 | 8.35 | 8.27 | 8.41 | 180553728 | 185684992 | 2.8 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 1695049984 | -13 |
| DCB | | 10.12 | 10.01 | 10.21 | 1965922560 | 1722940032 | -12 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK96 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK96 Time Analyzed: 15:23
 EPA Sample No.: AR1660329 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 15:54
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 115227000 | -11 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 169540992 | -14 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 86402800 | -10 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 66997100 | -11 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 90519104 | -12 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 203374000 | -5.4 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 276182016 | 1.5 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 243939008 | -1.7 |
| Aroclor-1260 | 4 | 6.83 | 6.76 | 6.90 | 170990320 | 173927008 | 1.7 |
| Aroclor-1260 | 5 | 7.07 | 7.00 | 7.14 | 483645376 | 490715008 | 1.5 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 3046579968 | -13 |
| DCB | | 8.41 | 8.31 | 8.51 | 4396666368 | 3835480064 | -13 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1660330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 21:42
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 74605104 | 11 |
| Aroclor-1016 | 2 | 5.61 | 5.54 | 5.68 | 99026920 | 104842000 | 5.9 |
| Aroclor-1016 | 3 | 5.67 | 5.61 | 5.75 | 58855728 | 62439900 | 6.1 |
| Aroclor-1016 | 4 | 5.77 | 5.70 | 5.84 | 47436904 | 51682800 | 9.0 |
| Aroclor-1016 | 5 | 6.06 | 6.00 | 6.14 | 47627556 | 50680000 | 6.4 |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 94008008 | 93751504 | -0.27 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 118115000 | 1.7 |
| Aroclor-1260 | 3 | 7.72 | 7.65 | 7.79 | 139556400 | 138546000 | -0.73 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 81220896 | -6 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 178392000 | -1.2 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 2237550080 | 15 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 1632550016 | -17 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1660330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 21:42
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 140051008 | 7.6 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 205152000 | 3.8 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 104406000 | 8.6 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 80828400 | 7.0 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 106600000 | 3.7 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 205735008 | -4.3 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 269635008 | -0.92 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 239396992 | -3.6 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 164700000 | -3.7 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 492592992 | 1.9 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4263340032 | 22 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3679810048 | -16 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1248330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 22:11
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 58149900 | 20 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 77362304 | 17 |
| Aroclor-1248 | 3 | 6.06 | 5.99 | 6.13 | 74714920 | 86966200 | 16 |
| Aroclor-1248 | 4 | 6.46 | 6.40 | 6.54 | 89345936 | 100143000 | 12 |
| Aroclor-1248 | 5 | 6.50 | 6.43 | 6.57 | 83668240 | 92519504 | 11 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2318540032 | 19 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1658089984 | -16 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK97 Date Analyzed: 12/21/2018
 Instrument Blank Lab ID: AIBLK97 Time Analyzed: 21:27
 EPA Sample No.: AR1248330 Date Analyzed: 12/21/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 22:11
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 112930000 | 16 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 142696000 | 11 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 146819008 | 11 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 184002000 | 12 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 195972992 | 17 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4411279872 | 27 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3766789888 | -14 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK98 Date Analyzed: 12/22/2018
 Instrument Blank Lab ID: AIBLK98 Time Analyzed: 02:02
 EPA Sample No.: AR1660331 Date Analyzed: 12/22/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 02:16
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 67503200 | 76658400 | 14 |
| Aroclor-1016 | 2 | 5.61 | 5.54 | 5.68 | 99026920 | 110896000 | 12 |
| Aroclor-1016 | 3 | 5.67 | 5.61 | 5.75 | 58855728 | 65646000 | 12 |
| Aroclor-1016 | 4 | 5.77 | 5.70 | 5.84 | 47436904 | 54318900 | 15 |
| Aroclor-1016 | 5 | 6.06 | 6.00 | 6.14 | 47627556 | 53780400 | 13 |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 94008008 | 101622000 | 8.1 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 131072000 | 13 |
| Aroclor-1260 | 3 | 7.72 | 7.65 | 7.79 | 139556400 | 150396000 | 7.8 |
| Aroclor-1260 | 4 | 8.02 | 7.95 | 8.09 | 86363584 | 85051504 | -1.5 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 201264992 | 12 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 2266050048 | 17 |
| DCB | | 10.10 | 10.01 | 10.21 | 1965922560 | 1523900032 | -23 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK98 Date Analyzed: 12/22/2018
 Instrument Blank Lab ID: AIBLK98 Time Analyzed: 02:02
 EPA Sample No.: AR1660331 Date Analyzed: 12/22/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 02:16
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 149079008 | 15 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 217004000 | 9.8 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 110902000 | 15 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 85617904 | 13 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 115328000 | 12 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 229111008 | 6.6 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 299737984 | 10 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 266328000 | 7.3 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 172568992 | 0.92 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 551886976 | 14 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4375909888 | 26 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3514419968 | -20 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK98 Date Analyzed: 12/22/2018
 Instrument Blank Lab ID: AIBLK98 Time Analyzed: 02:02
 EPA Sample No.: AR1248331 Date Analyzed: 12/22/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 02:45
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 57839800 | 19 |
| Aroclor-1248 | 2 | 5.86 | 5.79 | 5.93 | 66073504 | 75705104 | 15 |
| Aroclor-1248 | 3 | 6.06 | 5.99 | 6.13 | 74714920 | 84776496 | 14 |
| Aroclor-1248 | 4 | 6.46 | 6.40 | 6.54 | 89345936 | 98621296 | 10 |
| Aroclor-1248 | 5 | 6.50 | 6.43 | 6.57 | 83668240 | 91237296 | 9.0 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2242500096 | 15 |
| DCB | | 10.10 | 10.01 | 10.21 | 2060736128 | 1613949952 | -18 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK98 Date Analyzed: 12/22/2018
 Instrument Blank Lab ID: AIBLK98 Time Analyzed: 02:02
 EPA Sample No.: AR1248331 Date Analyzed: 12/22/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 02:45
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 111125000 | 14 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 141568992 | 11 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 145779008 | 11 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 183054000 | 11 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 198130000 | 18 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4461100032 | 28 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3681679872 | -16 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1660335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 08:11
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.60 | 5.52 | 5.66 | 67503200 | 72781600 | 7.8 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 105012000 | 6.0 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 61702800 | 4.8 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 51880300 | 9.4 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 50437300 | 5.9 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 98198200 | 4.5 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 126915000 | 9.3 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 146912992 | 5.3 |
| Aroclor-1260 | 4 | 8.03 | 7.95 | 8.09 | 86363584 | 85981696 | -0.44 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 185851008 | 2.9 |
| TCX | | 4.44 | 4.38 | 4.48 | 1945031040 | 1993980032 | 2.5 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 1728809984 | -12 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1660335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 08:11
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 145231008 | 12 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 215146000 | 8.9 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 109367000 | 14 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 84403296 | 12 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 117820000 | 15 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 233238000 | 8.5 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 319756992 | 18 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 267723008 | 7.9 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 181816000 | 6.3 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 505232992 | 4.5 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 3980150016 | 14 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3788260096 | -14 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1248335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 09:16
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 55218000 | 14 |
| Aroclor-1248 | 2 | 5.87 | 5.79 | 5.93 | 66073504 | 73625400 | 11 |
| Aroclor-1248 | 3 | 6.07 | 5.99 | 6.13 | 74714920 | 82439000 | 10 |
| Aroclor-1248 | 4 | 6.47 | 6.40 | 6.54 | 89345936 | 95760400 | 7.2 |
| Aroclor-1248 | 5 | 6.51 | 6.43 | 6.57 | 83668240 | 88825800 | 6.2 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2149779968 | 11 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1634690048 | -17 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1248335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 09:16
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 110467000 | 13 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 140156000 | 9.4 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 144052992 | 9.2 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 175920992 | 6.9 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 181280000 | 8.3 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4343969792 | 25 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3563610112 | -19 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1254335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 09:47
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.45 | 6.37 | 6.51 | 81705024 | 94229104 | 15 |
| Aroclor-1254 | 2 | 6.66 | 6.59 | 6.73 | 127776632 | 133750000 | 4.7 |
| Aroclor-1254 | 3 | 7.03 | 6.95 | 7.09 | 134972048 | 137859008 | 2.1 |
| Aroclor-1254 | 4 | 7.31 | 7.23 | 7.37 | 106077872 | 108736000 | 2.5 |
| Aroclor-1254 | 5 | 7.73 | 7.65 | 7.79 | 107143352 | 106527000 | -0.57 |
| TCX | | 4.44 | 4.38 | 4.48 | 1902270336 | 2087890048 | 7.4 |
| DCB | | 10.11 | 10.01 | 10.21 | 2035540480 | 1589529984 | -19 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK52 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK52 Time Analyzed: 07:54
 EPA Sample No.: AR1254335 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 09:47
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.35 | 5.29 | 5.43 | 244693680 | 259867008 | 6.2 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 218208992 | 2.6 |
| Aroclor-1254 | 3 | 5.89 | 5.83 | 5.97 | 357318304 | 367036992 | 2.7 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 243367008 | 3.0 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 315920000 | -0.95 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 4217629952 | 21 |
| DCB | | 8.40 | 8.31 | 8.51 | 4701814784 | 3499879936 | -20 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1660336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 16:09
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 5.60 | 5.52 | 5.66 | 67503200 | 77309800 | 15 |
| Aroclor-1016 | 2 | 5.62 | 5.54 | 5.68 | 99026920 | 110016000 | 11 |
| Aroclor-1016 | 3 | 5.68 | 5.61 | 5.75 | 58855728 | 65214400 | 11 |
| Aroclor-1016 | 4 | 5.78 | 5.70 | 5.84 | 47436904 | 54350800 | 15 |
| Aroclor-1016 | 5 | 6.07 | 6.00 | 6.14 | 47627556 | 53755200 | 13 |
| Aroclor-1260 | 1 | 7.19 | 7.12 | 7.26 | 94008008 | 99888496 | 6.3 |
| Aroclor-1260 | 2 | 7.44 | 7.37 | 7.51 | 116101168 | 126156000 | 8.7 |
| Aroclor-1260 | 3 | 7.73 | 7.65 | 7.79 | 139556400 | 143086000 | 2.5 |
| Aroclor-1260 | 4 | 8.03 | 7.95 | 8.09 | 86363584 | 82751104 | -4.2 |
| Aroclor-1260 | 5 | 8.34 | 8.27 | 8.41 | 180553728 | 171240992 | -5.2 |
| TCX | | 4.43 | 4.38 | 4.48 | 1945031040 | 2210500096 | 14 |
| DCB | | 10.11 | 10.01 | 10.21 | 1965922560 | 1503020032 | -24 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1660336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1660CCC400 Time Analyzed: 16:09
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1016 | 1 | 4.57 | 4.50 | 4.64 | 130124480 | 150402000 | 16 |
| Aroclor-1016 | 2 | 4.59 | 4.52 | 4.66 | 197650256 | 221156992 | 12 |
| Aroclor-1016 | 3 | 4.76 | 4.69 | 4.83 | 96115968 | 109893000 | 14 |
| Aroclor-1016 | 4 | 4.80 | 4.73 | 4.87 | 75549008 | 85353104 | 13 |
| Aroclor-1016 | 5 | 5.01 | 4.94 | 5.08 | 102825816 | 116706000 | 14 |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 214972192 | 222523008 | 3.5 |
| Aroclor-1260 | 2 | 6.21 | 6.14 | 6.28 | 272121568 | 301385984 | 11 |
| Aroclor-1260 | 3 | 6.36 | 6.30 | 6.44 | 248235856 | 251848000 | 1.5 |
| Aroclor-1260 | 4 | 6.82 | 6.76 | 6.90 | 170990320 | 167995008 | -1.8 |
| Aroclor-1260 | 5 | 7.06 | 7.00 | 7.14 | 483645376 | 448768000 | -7.2 |
| TCX | | 3.51 | 3.46 | 3.56 | 3486030080 | 4327269888 | 24 |
| DCB | | 8.40 | 8.31 | 8.51 | 4396666368 | 3262670080 | -26 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1248336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 16:40
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 48522628 | 54717000 | 13 |
| Aroclor-1248 | 2 | 5.87 | 5.79 | 5.93 | 66073504 | 72227104 | 9.3 |
| Aroclor-1248 | 3 | 6.07 | 5.99 | 6.13 | 74714920 | 80880704 | 8.3 |
| Aroclor-1248 | 4 | 6.47 | 6.40 | 6.54 | 89345936 | 93285000 | 4.4 |
| Aroclor-1248 | 5 | 6.51 | 6.43 | 6.57 | 83668240 | 86658000 | 3.6 |
| TCX | | 4.43 | 4.38 | 4.48 | 1928851200 | 2173289984 | 12 |
| DCB | | 10.11 | 10.01 | 10.21 | 2060736128 | 1467430016 | -25 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1248336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1248CCC400 Time Analyzed: 16:40
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|-----|
| | | RT | FROM | TO | | | |
| Aroclor-1248 | 1 | 4.57 | 4.50 | 4.64 | 97501688 | 108911000 | 12 |
| Aroclor-1248 | 2 | 4.80 | 4.73 | 4.87 | 128102416 | 136155008 | 6.3 |
| Aroclor-1248 | 3 | 4.84 | 4.77 | 4.91 | 131977184 | 139252000 | 5.5 |
| Aroclor-1248 | 4 | 5.01 | 4.94 | 5.08 | 164530304 | 170426000 | 3.6 |
| Aroclor-1248 | 5 | 5.39 | 5.33 | 5.47 | 167355696 | 173268000 | 3.5 |
| TCX | | 3.51 | 3.46 | 3.56 | 3795817984 | 4385019904 | 26 |
| DCB | | 8.40 | 8.31 | 8.51 | 4712088064 | 3169339904 | -28 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1254336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 17:10
 GC Column: ZB-MR1 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|-------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 81705024 | 98306600 | 20 |
| Aroclor-1254 | 2 | 6.66 | 6.59 | 6.73 | 127776632 | 136947008 | 7.2 |
| Aroclor-1254 | 3 | 7.02 | 6.95 | 7.09 | 134972048 | 141044000 | 4.5 |
| Aroclor-1254 | 4 | 7.31 | 7.23 | 7.37 | 106077872 | 108336000 | 2.1 |
| Aroclor-1254 | 5 | 7.73 | 7.65 | 7.79 | 107143352 | 104469000 | -2.5 |
| TCX | | 4.43 | 4.38 | 4.48 | 1902270336 | 2216509952 | 14 |
| DCB | | 10.11 | 10.01 | 10.21 | 2035540480 | 1500269952 | -24 |

FORM 7D-OR

MULTICOMPONENT CONTINUING CALIBRATION VERIFICATION SUMMARY

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init. Calib Date(s): 12/17/2018 12/17/2018
 Instrument Blank EPA Sample No.: AIBLK53 Date Analyzed: 12/28/2018
 Instrument Blank Lab ID: AIBLK53 Time Analyzed: 15:22
 EPA Sample No.: AR1254336 Date Analyzed: 12/28/2018
 Lab Sample ID: AR1254CCC400 Time Analyzed: 17:10
 GC Column: ZB-MR2 ID: 0.32 (mm)

| ANALYTE | PEAK | RETENTION | RT WINDOW | | CF | CF | %D |
|--------------|------|-----------|-----------|------|------------|------------|------|
| | | RT | FROM | TO | | | |
| Aroclor-1254 | 1 | 5.35 | 5.29 | 5.43 | 244693680 | 274982016 | 12 |
| Aroclor-1254 | 2 | 5.50 | 5.43 | 5.57 | 212689520 | 225144000 | 5.9 |
| Aroclor-1254 | 3 | 5.89 | 5.83 | 5.97 | 357318304 | 358953984 | 0.46 |
| Aroclor-1254 | 4 | 6.12 | 6.05 | 6.19 | 236190368 | 231380000 | -2 |
| Aroclor-1254 | 5 | 6.53 | 6.47 | 6.61 | 318941792 | 295832992 | -7.2 |
| TCX | | 3.51 | 3.46 | 3.56 | 3800324352 | 4424589824 | 27 |
| DCB | | 8.40 | 8.31 | 8.51 | 4701814784 | 3257449984 | -26 |

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AIBLK82 | PR034706.D | 12/17/2018 | 14:52 | 4.43 | 10.12 |
| AR1660101 | PR034707.D | 12/17/2018 | 15:11 | 4.43 | 10.13 |
| AR1660201 | PR034708.D | 12/17/2018 | 15:25 | 4.43 | 10.11 |
| AR1660301 | PR034709.D | 12/17/2018 | 15:40 | 4.43 | 10.11 |
| AR1660401 | PR034710.D | 12/17/2018 | 15:54 | 4.43 | 10.11 |
| AR1660501 | PR034711.D | 12/17/2018 | 16:09 | 4.43 | 10.11 |
| AR1221101 | PR034712.D | 12/17/2018 | 16:23 | 4.43 | 10.11 |
| AR1232201 | PR034713.D | 12/17/2018 | 16:37 | 4.43 | 10.11 |
| AR1242101 | PR034714.D | 12/17/2018 | 16:52 | 4.43 | 10.11 |
| AR1242201 | PR034715.D | 12/17/2018 | 17:06 | 4.43 | 10.11 |
| AR1242301 | PR034716.D | 12/17/2018 | 17:21 | 4.43 | 10.11 |
| AR1242401 | PR034717.D | 12/17/2018 | 17:35 | 4.43 | 10.11 |
| AR1242501 | PR034718.D | 12/17/2018 | 17:50 | 4.43 | 10.11 |
| AR1248101 | PR034719.D | 12/17/2018 | 18:04 | 4.43 | 10.11 |
| AR1248201 | PR034720.D | 12/17/2018 | 18:19 | 4.43 | 10.11 |
| AR1248301 | PR034721.D | 12/17/2018 | 18:33 | 4.43 | 10.11 |
| AR1248401 | PR034722.D | 12/17/2018 | 18:48 | 4.43 | 10.11 |
| AR1248501 | PR034723.D | 12/17/2018 | 19:02 | 4.43 | 10.11 |
| AR1254101 | PR034724.D | 12/17/2018 | 19:16 | 4.43 | 10.11 |
| AR1254201 | PR034725.D | 12/17/2018 | 19:31 | 4.43 | 10.11 |
| AR1254301 | PR034726.D | 12/17/2018 | 19:45 | 4.43 | 10.11 |
| AR1254401 | PR034727.D | 12/17/2018 | 20:00 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1254501 | PR034728.D | 12/17/2018 | 20:14 | 4.43 | 10.11 |
| AR1262101 | PR034729.D | 12/17/2018 | 20:29 | 4.43 | 10.11 |
| AR1268101 | PR034730.D | 12/17/2018 | 20:43 | 4.43 | 10.11 |
| AIBLK83 | PR034731.D | 12/17/2018 | 20:58 | 4.43 | 10.11 |
| AR1660316 | PR034732.D | 12/17/2018 | 21:12 | 4.43 | 10.11 |
| AR1242316 | PR034733.D | 12/17/2018 | 21:27 | 4.43 | 10.11 |
| AR1248316 | PR034734.D | 12/17/2018 | 21:41 | 4.43 | 10.11 |
| AR1254316 | PR034735.D | 12/17/2018 | 21:56 | 4.43 | 10.11 |
| AIBLK84 | PR034760.D | 12/18/2018 | 03:57 | 4.43 | 10.11 |
| AR1660317 | PR034761.D | 12/18/2018 | 04:11 | 4.43 | 10.11 |
| AR1242317 | PR034762.D | 12/18/2018 | 04:26 | 4.43 | 10.11 |
| AR1248317 | PR034763.D | 12/18/2018 | 04:40 | 4.43 | 10.11 |
| AR1254317 | PR034764.D | 12/18/2018 | 04:55 | 4.43 | 10.11 |
| AIBLK95 | PR034952.D | 12/21/2018 | 08:41 | 4.44 | 10.14 |
| AR1660328 | PR034953.D | 12/21/2018 | 09:14 | 4.43 | 10.12 |
| AR1242328 | PR034954.D | 12/21/2018 | 09:28 | 4.43 | 10.11 |
| AR1248328 | PR034955.D | 12/21/2018 | 09:43 | 4.43 | 10.11 |
| AR1254328 | PR034956.D | 12/21/2018 | 09:57 | 4.43 | 10.11 |
| ABLK57 | PR034957.D | 12/21/2018 | 10:12 | 4.43 | 10.11 |
| ALCS57 | PR034958.D | 12/21/2018 | 10:26 | 4.43 | 10.11 |
| A41T3 | PR034959.D | 12/21/2018 | 10:41 | 4.43 | 10.11 |
| ZZZZZZ | PR034960.D | 12/21/2018 | 10:55 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR034961.D | 12/21/2018 | 11:10 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034962.D | 12/21/2018 | 11:31 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034963.D | 12/21/2018 | 11:45 | 4.43 | 10.11 |
| ZZZZZZ | PR034964.D | 12/21/2018 | 12:00 | 4.43 | 10.11 |
| ZZZZZZ | PR034965.D | 12/21/2018 | 12:14 | 4.43 | 10.11 |
| ZZZZZZ | PR034966.D | 12/21/2018 | 12:29 | 4.43 | 10.11 |
| ZZZZZZ | PR034967.D | 12/21/2018 | 12:43 | 4.43 | 10.11 |
| ZZZZZZ | PR034968.D | 12/21/2018 | 12:58 | 4.43 | 10.11 |
| ZZZZZZ | PR034969.D | 12/21/2018 | 13:12 | 4.43 | 10.11 |
| A41X0 | PR034970.D | 12/21/2018 | 13:27 | 4.43 | 10.11 |
| A41X0MS | PR034971.D | 12/21/2018 | 13:41 | 4.43 | 10.11 |
| A41X0MSD | PR034972.D | 12/21/2018 | 13:56 | 4.43 | 10.11 |
| A41Y4 | PR034973.D | 12/21/2018 | 14:10 | 4.43 | 10.11 |
| ZZZZZZ | PR034974.D | 12/21/2018 | 14:25 | 4.43 | 10.11 |
| ZZZZZZ | PR034975.D | 12/21/2018 | 14:39 | 4.43 | 10.11 |
| ZZZZZZ | PR034976.D | 12/21/2018 | 14:54 | 4.43 | 10.11 |
| ZZZZZZ | PR034977.D | 12/21/2018 | 15:08 | 4.43 | 10.11 |
| AIBLK96 | PR034978.D | 12/21/2018 | 15:23 | 4.43 | 10.11 |
| AR1660329 | PR034979.D | 12/21/2018 | 15:54 | 4.43 | 10.12 |
| AR1242329 | PR034980.D | 12/21/2018 | 16:10 | 4.43 | 10.11 |
| AR1248329 | PR034981.D | 12/21/2018 | 17:02 | 4.43 | 10.11 |
| AR1254329 | PR034982.D | 12/21/2018 | 17:51 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR034983.D | 12/21/2018 | 18:05 | 4.43 | 10.11 |
| ZZZZZZ | PR034984.D | 12/21/2018 | 18:20 | 4.43 | 10.11 |
| ZZZZZZ | PR034985.D | 12/21/2018 | 18:34 | 4.42 | 10.11 |
| ZZZZZZ | PR034986.D | 12/21/2018 | 18:48 | 4.42 | 10.11 |
| ZZZZZZ | PR034987.D | 12/21/2018 | 19:03 | 4.43 | 10.11 |
| ZZZZZZ | PR034988.D | 12/21/2018 | 19:17 | 4.43 | 10.11 |
| ZZZZZZ | PR034989.D | 12/21/2018 | 19:32 | 4.43 | 10.11 |
| ZZZZZZ | PR034990.D | 12/21/2018 | 19:46 | 4.43 | 10.11 |
| ZZZZZZ | PR034991.D | 12/21/2018 | 20:01 | 4.43 | 10.11 |
| ZZZZZZ | PR034992.D | 12/21/2018 | 20:15 | 4.43 | 10.11 |
| ZZZZZZ | PR034993.D | 12/21/2018 | 20:30 | 4.43 | 10.11 |
| ZZZZZZ | PR034994.D | 12/21/2018 | 20:44 | 4.43 | 10.11 |
| ZZZZZZ | PR034995.D | 12/21/2018 | 20:59 | 4.43 | 10.11 |
| ZZZZZZ | PR034996.D | 12/21/2018 | 21:13 | 4.43 | 10.11 |
| AIBLK97 | PR034997.D | 12/21/2018 | 21:27 | 4.43 | 10.11 |
| AR1660330 | PR034998.D | 12/21/2018 | 21:42 | 4.43 | 10.11 |
| AR1242330 | PR034999.D | 12/21/2018 | 21:56 | 4.43 | 10.11 |
| AR1248330 | PR035000.D | 12/21/2018 | 22:11 | 4.43 | 10.11 |
| AR1254330 | PR035001.D | 12/21/2018 | 22:25 | 4.43 | 10.11 |
| A41Y5 | PR035002.D | 12/21/2018 | 22:40 | 4.43 | 10.11 |
| A41Y6 | PR035003.D | 12/21/2018 | 22:54 | 4.43 | 10.11 |
| A41Y7 | PR035004.D | 12/21/2018 | 23:09 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41Y8 | PR035005.D | 12/21/2018 | 23:23 | 4.43 | 10.11 |
| A41Y9 | PR035006.D | 12/21/2018 | 23:37 | 4.43 | 10.11 |
| A41Z0 | PR035007.D | 12/21/2018 | 23:52 | 4.43 | 10.10 |
| A41Z1 | PR035008.D | 12/22/2018 | 00:06 | 4.43 | 10.11 |
| ZZZZZZ | PR035009.D | 12/22/2018 | 00:21 | 4.43 | 10.10 |
| A41Z5 | PR035010.D | 12/22/2018 | 00:35 | 4.43 | 10.10 |
| A41Z6 | PR035011.D | 12/22/2018 | 00:50 | 4.43 | 10.10 |
| A41Z7 | PR035012.D | 12/22/2018 | 01:04 | 4.43 | 10.10 |
| A41Z8 | PR035013.D | 12/22/2018 | 01:19 | 4.43 | 10.10 |
| A41Z9 | PR035014.D | 12/22/2018 | 01:33 | 4.43 | 10.11 |
| A4200 | PR035015.D | 12/22/2018 | 01:47 | 4.43 | 10.11 |
| AIBLK98 | PR035016.D | 12/22/2018 | 02:02 | 4.43 | 10.10 |
| AR1660331 | PR035017.D | 12/22/2018 | 02:16 | 4.43 | 10.10 |
| AR1242331 | PR035018.D | 12/22/2018 | 02:31 | 4.43 | 10.10 |
| AR1248331 | PR035019.D | 12/22/2018 | 02:45 | 4.43 | 10.10 |
| AR1254331 | PR035020.D | 12/22/2018 | 03:00 | 4.43 | 10.10 |
| AIBLK51 | PR035050.D | 12/28/2018 | 02:43 | 4.43 | 10.11 |
| AR1660334 | PR035051.D | 12/28/2018 | 03:03 | 4.44 | 10.11 |
| AR1248334 | PR035052.D | 12/28/2018 | 03:17 | 4.43 | 10.10 |
| AR1254334 | PR035053.D | 12/28/2018 | 03:31 | 4.43 | 10.10 |
| ZZZZZZ | PR035054.D | 12/28/2018 | 04:18 | 4.43 | 10.11 |
| ZZZZZZ | PR035055.D | 12/28/2018 | 04:32 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035056.D | 12/28/2018 | 04:46 | 4.43 | 10.10 |
| ZZZZZZ | PR035057.D | 12/28/2018 | 05:01 | 4.43 | 10.10 |
| ZZZZZZ | PR035058.D | 12/28/2018 | 05:15 | 4.43 | 10.10 |
| ZZZZZZ | PR035059.D | 12/28/2018 | 05:30 | 4.43 | 10.10 |
| ZZZZZZ | PR035060.D | 12/28/2018 | 05:44 | 4.43 | 10.10 |
| ZZZZZZ | PR035061.D | 12/28/2018 | 05:58 | 4.43 | 10.10 |
| ZZZZZZ | PR035062.D | 12/28/2018 | 06:13 | 4.43 | 10.10 |
| ZZZZZZ | PR035063.D | 12/28/2018 | 06:27 | 4.43 | 10.11 |
| ZZZZZZ | PR035064.D | 12/28/2018 | 06:42 | 4.43 | 10.10 |
| ZZZZZZ | PR035065.D | 12/28/2018 | 06:56 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035066.D | 12/28/2018 | 07:11 | 4.43 | 10.10 |
| ZZZZZZ | PR035067.D | 12/28/2018 | 07:25 | 4.43 | 10.10 |
| ZZZZZZ | PR035068.D | 12/28/2018 | 07:40 | * 0.00 | * 0.00 |
| AIBLK52 | PR035069.D | 12/28/2018 | 07:54 | 4.43 | 10.10 |
| AR1660335 | PR035070.D | 12/28/2018 | 08:11 | 4.43 | 10.11 |
| AR1248335 | PR035071.D | 12/28/2018 | 09:16 | 4.43 | 10.11 |
| AR1254335 | PR035072.D | 12/28/2018 | 09:47 | 4.43 | 10.11 |
| ZZZZZZ | PR035073.D | 12/28/2018 | 10:02 | 4.43 | 10.11 |
| ZZZZZZ | PR035074.D | 12/28/2018 | 10:17 | 4.43 | 10.10 |
| ZZZZZZ | PR035075.D | 12/28/2018 | 10:31 | 4.43 | 10.10 |
| ZZZZZZ | PR035076.D | 12/28/2018 | 10:46 | 4.43 | 10.10 |
| ZZZZZZ | PR035077.D | 12/28/2018 | 11:00 | 4.43 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035078.D | 12/28/2018 | 11:14 | 4.43 | 10.11 |
| ZZZZZZ | PR035079.D | 12/28/2018 | 11:29 | 4.43 | 10.10 |
| ZZZZZZ | PR035080.D | 12/28/2018 | 11:43 | 4.43 | 10.10 |
| ZZZZZZ | PR035081.D | 12/28/2018 | 11:58 | 4.43 | 10.10 |
| A41Z2 | PR035082.D | 12/28/2018 | 12:12 | 4.43 | 10.10 |
| A41X0DL | PR035083.D | 12/28/2018 | 12:27 | 4.43 | 10.10 |
| ZZZZZZ | PR035084.D | 12/28/2018 | 12:41 | 4.43 | 10.10 |
| A41Y8DL | PR035085.D | 12/28/2018 | 12:56 | 4.43 | 10.10 |
| A41Z7DL | PR035086.D | 12/28/2018 | 13:10 | 4.43 | 10.10 |
| A4200DL | PR035087.D | 12/28/2018 | 13:24 | 4.43 | 10.10 |
| A41T3DL | PR035088.D | 12/28/2018 | 13:39 | 4.43 | 10.11 |
| A41T3DL2 | PR035089.D | 12/28/2018 | 13:53 | 4.43 | 10.10 |
| A41Y6DL | PR035090.D | 12/28/2018 | 14:08 | 4.43 | 10.11 |
| A41Y6DL2 | PR035091.D | 12/28/2018 | 14:22 | 4.43 | 10.11 |
| A41Y7DL | PR035092.D | 12/28/2018 | 14:37 | 4.43 | 10.10 |
| A41Y7DL2 | PR035093.D | 12/28/2018 | 14:51 | * 0.00 | * 0.00 |
| AIBLK53 | PR035094.D | 12/28/2018 | 15:22 | 4.43 | 10.11 |
| AR1660336 | PR035095.D | 12/28/2018 | 16:09 | 4.43 | 10.11 |
| AR1248336 | PR035096.D | 12/28/2018 | 16:40 | 4.43 | 10.11 |
| AR1254336 | PR035097.D | 12/28/2018 | 17:10 | 4.43 | 10.11 |
| ZZZZZZ | PR035098.D | 12/28/2018 | 17:25 | 4.43 | 10.11 |
| ZZZZZZ | PR035099.D | 12/28/2018 | 17:39 | 4.43 | 10.11 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035100.D | 12/28/2018 | 17:54 | 4.43 | 10.11 |
| ZZZZZZ | PR035101.D | 12/28/2018 | 18:08 | 4.43 | 10.10 |
| ZZZZZZ | PR035102.D | 12/28/2018 | 18:22 | 4.43 | 10.11 |
| ZZZZZZ | PR035103.D | 12/28/2018 | 18:37 | * 0.00 | 10.11 |
| ZZZZZZ | PR035104.D | 12/28/2018 | 18:51 | 4.43 | 10.11 |
| ZZZZZZ | PR035105.D | 12/28/2018 | 19:06 | 4.43 | 10.11 |
| ZZZZZZ | PR035106.D | 12/28/2018 | 19:20 | 4.43 | 10.11 |
| ZZZZZZ | PR035107.D | 12/28/2018 | 19:35 | 4.43 | 10.10 |
| ZZZZZZ | PR035108.D | 12/28/2018 | 19:49 | 4.43 | 10.10 |
| ZZZZZZ | PR035109.D | 12/28/2018 | 20:04 | 4.43 | 10.10 |
| ZZZZZZ | PR035110.D | 12/28/2018 | 20:18 | 4.43 | 10.11 |
| ZZZZZZ | PR035111.D | 12/28/2018 | 20:32 | 4.43 | 10.10 |
| ZZZZZZ | PR035112.D | 12/28/2018 | 20:47 | 4.43 | 10.10 |
| ZZZZZZ | PR035113.D | 12/28/2018 | 21:01 | 4.43 | 10.10 |
| ZZZZZZ | PR035114.D | 12/28/2018 | 21:16 | 4.43 | 10.10 |
| ZZZZZZ | PR035115.D | 12/28/2018 | 21:30 | 4.43 | 10.10 |
| ZZZZZZ | PR035116.D | 12/28/2018 | 21:45 | 4.43 | 10.10 |
| ZZZZZZ | PR035117.D | 12/28/2018 | 21:59 | 4.43 | 10.10 |
| ZZZZZZ | PR035118.D | 12/28/2018 | 22:13 | 4.43 | 10.10 |
| ZZZZZZ | PR035119.D | 12/28/2018 | 22:28 | 4.43 | 10.10 |
| ZZZZZZ | PR035120.D | 12/28/2018 | 22:42 | 4.43 | 10.10 |
| ZZZZZZ | PR035121.D | 12/28/2018 | 22:57 | 4.43 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR1 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>4.43</u> | | | |
| SURROGATE 2 (DCB): | | <u>10.11</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035122.D | 12/28/2018 | 23:11 | 4.43 | 10.10 |
| ZZZZZZ | PR035123.D | 12/28/2018 | 23:26 | 4.43 | 10.11 |
| AIBLK54 | PR035124.D | 12/29/2018 | 00:09 | 4.43 | 10.10 |
| AR1660337 | PR035125.D | 12/29/2018 | 00:23 | 4.43 | 10.10 |
| AR1248337 | PR035126.D | 12/29/2018 | 00:38 | 4.43 | 10.10 |
| AR1254337 | PR035127.D | 12/29/2018 | 00:52 | 4.43 | 10.10 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AIBLK82 | PR034706.D-2 | 12/17/2018 | 14:52 | 3.51 | 8.42 |
| AR1660101 | PR034707.D-2 | 12/17/2018 | 15:11 | 3.51 | 8.42 |
| AR1660201 | PR034708.D-2 | 12/17/2018 | 15:25 | 3.51 | 8.41 |
| AR1660301 | PR034709.D-2 | 12/17/2018 | 15:40 | 3.51 | 8.41 |
| AR1660401 | PR034710.D-2 | 12/17/2018 | 15:54 | 3.51 | 8.41 |
| AR1660501 | PR034711.D-2 | 12/17/2018 | 16:09 | 3.51 | 8.41 |
| AR1221101 | PR034712.D-2 | 12/17/2018 | 16:23 | 3.51 | 8.41 |
| AR1232201 | PR034713.D-2 | 12/17/2018 | 16:37 | 3.51 | 8.41 |
| AR1242101 | PR034714.D-2 | 12/17/2018 | 16:52 | 3.51 | 8.41 |
| AR1242201 | PR034715.D-2 | 12/17/2018 | 17:06 | 3.51 | 8.41 |
| AR1242301 | PR034716.D-2 | 12/17/2018 | 17:21 | 3.51 | 8.41 |
| AR1242401 | PR034717.D-2 | 12/17/2018 | 17:35 | 3.51 | 8.41 |
| AR1242501 | PR034718.D-2 | 12/17/2018 | 17:50 | 3.51 | 8.41 |
| AR1248101 | PR034719.D-2 | 12/17/2018 | 18:04 | 3.51 | 8.41 |
| AR1248201 | PR034720.D-2 | 12/17/2018 | 18:19 | 3.51 | 8.41 |
| AR1248301 | PR034721.D-2 | 12/17/2018 | 18:33 | 3.51 | 8.41 |
| AR1248401 | PR034722.D-2 | 12/17/2018 | 18:48 | 3.51 | 8.41 |
| AR1248501 | PR034723.D-2 | 12/17/2018 | 19:02 | 3.51 | 8.41 |
| AR1254101 | PR034724.D-2 | 12/17/2018 | 19:16 | 3.51 | 8.41 |
| AR1254201 | PR034725.D-2 | 12/17/2018 | 19:31 | 3.51 | 8.41 |
| AR1254301 | PR034726.D-2 | 12/17/2018 | 19:45 | 3.51 | 8.41 |
| AR1254401 | PR034727.D-2 | 12/17/2018 | 20:00 | 3.51 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| AR1254501 | PR034728.D-2 | 12/17/2018 | 20:14 | 3.51 | 8.41 |
| AR1262101 | PR034729.D-2 | 12/17/2018 | 20:29 | 3.51 | 8.41 |
| AR1268101 | PR034730.D-2 | 12/17/2018 | 20:43 | 3.51 | 8.41 |
| AIBLK83 | PR034731.D-2 | 12/17/2018 | 20:58 | 3.51 | 8.41 |
| AR1660316 | PR034732.D-2 | 12/17/2018 | 21:12 | 3.51 | 8.41 |
| AR1242316 | PR034733.D-2 | 12/17/2018 | 21:27 | 3.51 | 8.41 |
| AR1248316 | PR034734.D-2 | 12/17/2018 | 21:41 | 3.51 | 8.41 |
| AR1254316 | PR034735.D-2 | 12/17/2018 | 21:56 | 3.51 | 8.41 |
| AIBLK84 | PR034760.D-2 | 12/18/2018 | 03:57 | 3.51 | 8.41 |
| AR1660317 | PR034761.D-2 | 12/18/2018 | 04:11 | 3.51 | 8.41 |
| AR1242317 | PR034762.D-2 | 12/18/2018 | 04:26 | 3.51 | 8.41 |
| AR1248317 | PR034763.D-2 | 12/18/2018 | 04:40 | 3.51 | 8.41 |
| AR1254317 | PR034764.D-2 | 12/18/2018 | 04:55 | 3.51 | 8.41 |
| AIBLK95 | PR034952.D-2 | 12/21/2018 | 08:41 | 3.51 | 8.42 |
| AR1660328 | PR034953.D-2 | 12/21/2018 | 09:14 | 3.51 | 8.41 |
| AR1242328 | PR034954.D-2 | 12/21/2018 | 09:28 | 3.51 | 8.41 |
| AR1248328 | PR034955.D-2 | 12/21/2018 | 09:43 | 3.51 | 8.40 |
| AR1254328 | PR034956.D-2 | 12/21/2018 | 09:57 | 3.51 | 8.41 |
| ABLK57 | PR034957.D-2 | 12/21/2018 | 10:12 | 3.51 | 8.40 |
| ALCS57 | PR034958.D-2 | 12/21/2018 | 10:26 | 3.51 | 8.40 |
| A41T3 | PR034959.D-2 | 12/21/2018 | 10:41 | 3.51 | 8.41 |
| ZZZZZZ | PR034960.D-2 | 12/21/2018 | 10:55 | 3.51 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR034961.D-2 | 12/21/2018 | 11:10 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034962.D-2 | 12/21/2018 | 11:31 | * 0.00 | * 0.00 |
| ZZZZZZ | PR034963.D-2 | 12/21/2018 | 11:45 | 3.51 | 8.41 |
| ZZZZZZ | PR034964.D-2 | 12/21/2018 | 12:00 | 3.51 | 8.41 |
| ZZZZZZ | PR034965.D-2 | 12/21/2018 | 12:14 | 3.51 | 8.41 |
| ZZZZZZ | PR034966.D-2 | 12/21/2018 | 12:29 | 3.51 | 8.41 |
| ZZZZZZ | PR034967.D-2 | 12/21/2018 | 12:43 | 3.51 | 8.40 |
| ZZZZZZ | PR034968.D-2 | 12/21/2018 | 12:58 | 3.51 | 8.40 |
| ZZZZZZ | PR034969.D-2 | 12/21/2018 | 13:12 | 3.51 | 8.40 |
| A41X0 | PR034970.D-2 | 12/21/2018 | 13:27 | 3.51 | 8.40 |
| A41X0MS | PR034971.D-2 | 12/21/2018 | 13:41 | 3.51 | 8.40 |
| A41X0MSD | PR034972.D-2 | 12/21/2018 | 13:56 | 3.51 | 8.41 |
| A41Y4 | PR034973.D-2 | 12/21/2018 | 14:10 | 3.51 | 8.40 |
| ZZZZZZ | PR034974.D-2 | 12/21/2018 | 14:25 | 3.51 | 8.41 |
| ZZZZZZ | PR034975.D-2 | 12/21/2018 | 14:39 | 3.51 | 8.40 |
| ZZZZZZ | PR034976.D-2 | 12/21/2018 | 14:54 | 3.51 | 8.40 |
| ZZZZZZ | PR034977.D-2 | 12/21/2018 | 15:08 | 3.51 | 8.41 |
| AIBLK96 | PR034978.D-2 | 12/21/2018 | 15:23 | 3.51 | 8.41 |
| AR1660329 | PR034979.D-2 | 12/21/2018 | 15:54 | 3.51 | 8.41 |
| AR1242329 | PR034980.D-2 | 12/21/2018 | 16:10 | 3.51 | 8.41 |
| AR1248329 | PR034981.D-2 | 12/21/2018 | 17:02 | 3.51 | 8.41 |
| AR1254329 | PR034982.D-2 | 12/21/2018 | 17:51 | 3.51 | 8.41 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR034983.D-2 | 12/21/2018 | 18:05 | 3.51 | 8.41 |
| ZZZZZZ | PR034984.D-2 | 12/21/2018 | 18:20 | 3.51 | 8.41 |
| ZZZZZZ | PR034985.D-2 | 12/21/2018 | 18:34 | 3.51 | 8.41 |
| ZZZZZZ | PR034986.D-2 | 12/21/2018 | 18:48 | 3.51 | 8.41 |
| ZZZZZZ | PR034987.D-2 | 12/21/2018 | 19:03 | 3.51 | 8.41 |
| ZZZZZZ | PR034988.D-2 | 12/21/2018 | 19:17 | 3.51 | 8.41 |
| ZZZZZZ | PR034989.D-2 | 12/21/2018 | 19:32 | 3.51 | 8.41 |
| ZZZZZZ | PR034990.D-2 | 12/21/2018 | 19:46 | 3.51 | 8.41 |
| ZZZZZZ | PR034991.D-2 | 12/21/2018 | 20:01 | 3.51 | 8.41 |
| ZZZZZZ | PR034992.D-2 | 12/21/2018 | 20:15 | 3.51 | 8.41 |
| ZZZZZZ | PR034993.D-2 | 12/21/2018 | 20:30 | 3.51 | 8.40 |
| ZZZZZZ | PR034994.D-2 | 12/21/2018 | 20:44 | 3.51 | 8.41 |
| ZZZZZZ | PR034995.D-2 | 12/21/2018 | 20:59 | 3.51 | 8.40 |
| ZZZZZZ | PR034996.D-2 | 12/21/2018 | 21:13 | 3.51 | 8.40 |
| AIBLK97 | PR034997.D-2 | 12/21/2018 | 21:27 | 3.51 | 8.40 |
| AR1660330 | PR034998.D-2 | 12/21/2018 | 21:42 | 3.51 | 8.40 |
| AR1242330 | PR034999.D-2 | 12/21/2018 | 21:56 | 3.51 | 8.40 |
| AR1248330 | PR035000.D-2 | 12/21/2018 | 22:11 | 3.51 | 8.40 |
| AR1254330 | PR035001.D-2 | 12/21/2018 | 22:25 | 3.51 | 8.40 |
| A41Y5 | PR035002.D-2 | 12/21/2018 | 22:40 | 3.51 | 8.40 |
| A41Y6 | PR035003.D-2 | 12/21/2018 | 22:54 | 3.51 | 8.40 |
| A41Y7 | PR035004.D-2 | 12/21/2018 | 23:09 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| A41Y8 | PR035005.D-2 | 12/21/2018 | 23:23 | 3.51 | 8.40 |
| A41Y9 | PR035006.D-2 | 12/21/2018 | 23:37 | 3.51 | 8.40 |
| A41Z0 | PR035007.D-2 | 12/21/2018 | 23:52 | 3.51 | 8.40 |
| A41Z1 | PR035008.D-2 | 12/22/2018 | 00:06 | 3.51 | 8.40 |
| ZZZZZZ | PR035009.D-2 | 12/22/2018 | 00:21 | 3.51 | 8.40 |
| A41Z5 | PR035010.D-2 | 12/22/2018 | 00:35 | 3.51 | 8.40 |
| A41Z6 | PR035011.D-2 | 12/22/2018 | 00:50 | 3.51 | 8.40 |
| A41Z7 | PR035012.D-2 | 12/22/2018 | 01:04 | 3.51 | 8.40 |
| A41Z8 | PR035013.D-2 | 12/22/2018 | 01:19 | 3.51 | 8.40 |
| A41Z9 | PR035014.D-2 | 12/22/2018 | 01:33 | 3.51 | 8.40 |
| A4200 | PR035015.D-2 | 12/22/2018 | 01:47 | 3.51 | 8.40 |
| AIBLK98 | PR035016.D-2 | 12/22/2018 | 02:02 | 3.51 | 8.40 |
| AR1660331 | PR035017.D-2 | 12/22/2018 | 02:16 | 3.51 | 8.40 |
| AR1242331 | PR035018.D-2 | 12/22/2018 | 02:31 | 3.51 | 8.40 |
| AR1248331 | PR035019.D-2 | 12/22/2018 | 02:45 | 3.51 | 8.40 |
| AR1254331 | PR035020.D-2 | 12/22/2018 | 03:00 | 3.51 | 8.40 |
| AIBLK51 | PR035050.D-2 | 12/28/2018 | 02:43 | 3.51 | 8.40 |
| AR1660334 | PR035051.D-2 | 12/28/2018 | 03:03 | 3.51 | 8.40 |
| AR1248334 | PR035052.D-2 | 12/28/2018 | 03:17 | 3.51 | 8.40 |
| AR1254334 | PR035053.D-2 | 12/28/2018 | 03:31 | 3.51 | 8.40 |
| ZZZZZZ | PR035054.D-2 | 12/28/2018 | 04:18 | 3.52 | 8.40 |
| ZZZZZZ | PR035055.D-2 | 12/28/2018 | 04:32 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035056.D-2 | 12/28/2018 | 04:46 | 3.51 | 8.40 |
| ZZZZZZ | PR035057.D-2 | 12/28/2018 | 05:01 | 3.51 | 8.40 |
| ZZZZZZ | PR035058.D-2 | 12/28/2018 | 05:15 | 3.51 | 8.40 |
| ZZZZZZ | PR035059.D-2 | 12/28/2018 | 05:30 | 3.51 | 8.40 |
| ZZZZZZ | PR035060.D-2 | 12/28/2018 | 05:44 | 3.52 | 8.40 |
| ZZZZZZ | PR035061.D-2 | 12/28/2018 | 05:58 | 3.51 | 8.40 |
| ZZZZZZ | PR035062.D-2 | 12/28/2018 | 06:13 | 3.51 | 8.40 |
| ZZZZZZ | PR035063.D-2 | 12/28/2018 | 06:27 | 3.52 | 8.40 |
| ZZZZZZ | PR035064.D-2 | 12/28/2018 | 06:42 | 3.51 | 8.40 |
| ZZZZZZ | PR035065.D-2 | 12/28/2018 | 06:56 | * 0.00 | * 0.00 |
| ZZZZZZ | PR035066.D-2 | 12/28/2018 | 07:11 | 3.51 | 8.40 |
| ZZZZZZ | PR035067.D-2 | 12/28/2018 | 07:25 | 3.51 | 8.40 |
| ZZZZZZ | PR035068.D-2 | 12/28/2018 | 07:40 | * 0.00 | * 0.00 |
| AIBLK52 | PR035069.D-2 | 12/28/2018 | 07:54 | 3.51 | 8.40 |
| AR1660335 | PR035070.D-2 | 12/28/2018 | 08:11 | 3.51 | 8.40 |
| AR1248335 | PR035071.D-2 | 12/28/2018 | 09:16 | 3.51 | 8.40 |
| AR1254335 | PR035072.D-2 | 12/28/2018 | 09:47 | 3.51 | 8.40 |
| ZZZZZZ | PR035073.D-2 | 12/28/2018 | 10:02 | 3.51 | 8.40 |
| ZZZZZZ | PR035074.D-2 | 12/28/2018 | 10:17 | 3.51 | 8.40 |
| ZZZZZZ | PR035075.D-2 | 12/28/2018 | 10:31 | 3.51 | 8.40 |
| ZZZZZZ | PR035076.D-2 | 12/28/2018 | 10:46 | 3.51 | 8.40 |
| ZZZZZZ | PR035077.D-2 | 12/28/2018 | 11:00 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035078.D-2 | 12/28/2018 | 11:14 | 3.51 | 8.40 |
| ZZZZZZ | PR035079.D-2 | 12/28/2018 | 11:29 | 3.51 | 8.40 |
| ZZZZZZ | PR035080.D-2 | 12/28/2018 | 11:43 | 3.51 | 8.40 |
| ZZZZZZ | PR035081.D-2 | 12/28/2018 | 11:58 | 3.51 | 8.40 |
| A41Z2 | PR035082.D-2 | 12/28/2018 | 12:12 | 3.51 | 8.40 |
| A41X0DL | PR035083.D-2 | 12/28/2018 | 12:27 | 3.51 | 8.40 |
| ZZZZZZ | PR035084.D-2 | 12/28/2018 | 12:41 | 3.51 | 8.40 |
| A41Y8DL | PR035085.D-2 | 12/28/2018 | 12:56 | 3.51 | 8.40 |
| A41Z7DL | PR035086.D-2 | 12/28/2018 | 13:10 | 3.51 | 8.40 |
| A4200DL | PR035087.D-2 | 12/28/2018 | 13:24 | 3.51 | 8.40 |
| A41T3DL | PR035088.D-2 | 12/28/2018 | 13:39 | 3.51 | 8.40 |
| A41T3DL2 | PR035089.D-2 | 12/28/2018 | 13:53 | 3.51 | 8.40 |
| A41Y6DL | PR035090.D-2 | 12/28/2018 | 14:08 | 3.51 | 8.40 |
| A41Y6DL2 | PR035091.D-2 | 12/28/2018 | 14:22 | 3.51 | 8.40 |
| A41Y7DL | PR035092.D-2 | 12/28/2018 | 14:37 | 3.51 | 8.40 |
| A41Y7DL2 | PR035093.D-2 | 12/28/2018 | 14:51 | * 0.00 | * 0.00 |
| AIBLK53 | PR035094.D-2 | 12/28/2018 | 15:22 | 3.51 | 8.40 |
| AR1660336 | PR035095.D-2 | 12/28/2018 | 16:09 | 3.51 | 8.40 |
| AR1248336 | PR035096.D-2 | 12/28/2018 | 16:40 | 3.51 | 8.40 |
| AR1254336 | PR035097.D-2 | 12/28/2018 | 17:10 | 3.51 | 8.40 |
| ZZZZZZ | PR035098.D-2 | 12/28/2018 | 17:25 | 3.51 | 8.40 |
| ZZZZZZ | PR035099.D-2 | 12/28/2018 | 17:39 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035100.D-2 | 12/28/2018 | 17:54 | 3.51 | 8.40 |
| ZZZZZZ | PR035101.D-2 | 12/28/2018 | 18:08 | 3.51 | 8.40 |
| ZZZZZZ | PR035102.D-2 | 12/28/2018 | 18:22 | 3.52 | 8.41 |
| ZZZZZZ | PR035103.D-2 | 12/28/2018 | 18:37 | 3.52 | 8.40 |
| ZZZZZZ | PR035104.D-2 | 12/28/2018 | 18:51 | 3.51 | 8.40 |
| ZZZZZZ | PR035105.D-2 | 12/28/2018 | 19:06 | 3.51 | 8.40 |
| ZZZZZZ | PR035106.D-2 | 12/28/2018 | 19:20 | 3.51 | 8.40 |
| ZZZZZZ | PR035107.D-2 | 12/28/2018 | 19:35 | 3.51 | 8.40 |
| ZZZZZZ | PR035108.D-2 | 12/28/2018 | 19:49 | 3.51 | 8.40 |
| ZZZZZZ | PR035109.D-2 | 12/28/2018 | 20:04 | 3.51 | 8.40 |
| ZZZZZZ | PR035110.D-2 | 12/28/2018 | 20:18 | 3.51 | 8.40 |
| ZZZZZZ | PR035111.D-2 | 12/28/2018 | 20:32 | 3.51 | 8.40 |
| ZZZZZZ | PR035112.D-2 | 12/28/2018 | 20:47 | 3.51 | 8.40 |
| ZZZZZZ | PR035113.D-2 | 12/28/2018 | 21:01 | 3.51 | 8.40 |
| ZZZZZZ | PR035114.D-2 | 12/28/2018 | 21:16 | 3.51 | 8.40 |
| ZZZZZZ | PR035115.D-2 | 12/28/2018 | 21:30 | 3.51 | 8.40 |
| ZZZZZZ | PR035116.D-2 | 12/28/2018 | 21:45 | 3.51 | 8.40 |
| ZZZZZZ | PR035117.D-2 | 12/28/2018 | 21:59 | 3.51 | 8.40 |
| ZZZZZZ | PR035118.D-2 | 12/28/2018 | 22:13 | 3.51 | 8.40 |
| ZZZZZZ | PR035119.D-2 | 12/28/2018 | 22:28 | 3.51 | 8.40 |
| ZZZZZZ | PR035120.D-2 | 12/28/2018 | 22:42 | 3.51 | 8.40 |
| ZZZZZZ | PR035121.D-2 | 12/28/2018 | 22:57 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 8B-OR
ANALYTICAL SEQUENCE

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No.: 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Init.Calib.Date(s): 12/17/2018 12/17/2018
 Instrument ID: ECD_R Init.Calib.Time(s): 15:11 20:43
 GC Column : ZB-MR2 ID: 0.32 (mm)

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/ MSDs, and LCSS
IS GIVEN BELOW:

| SURROGATE MEAN RT FROM INITIAL CALIBRATION | | | | | |
|--|----------------|------------------|------------------|---------------|---------------|
| SURROGATE 1 (TCX): | | <u>3.51</u> | | | |
| SURROGATE 2 (DCB): | | <u>8.41</u> | | | |
| EPA SAMPLE NO. | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | SUR 1 RT # | SUR 2 RT # |
| ZZZZZZ | PR035122.D-2 | 12/28/2018 | 23:11 | 3.51 | 8.40 |
| ZZZZZZ | PR035123.D-2 | 12/28/2018 | 23:26 | 3.51 | 8.40 |
| AIBLK54 | PR035124.D-2 | 12/29/2018 | 00:09 | 3.51 | 8.40 |
| AR1660337 | PR035125.D-2 | 12/29/2018 | 00:23 | 3.51 | 8.40 |
| AR1248337 | PR035126.D-2 | 12/29/2018 | 00:38 | 3.51 | 8.40 |
| AR1254337 | PR035127.D-2 | 12/29/2018 | 00:52 | 3.51 | 8.40 |

Column used to flag RT values with an asterisk.

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T3

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-01
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 8119.6899 | 8800 | 2.60 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 8356.7500 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 9115.0000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 9477.2197 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 8820.9805 | | |
| | 1 | 6.02 | 5.96 | 6.10 | 8984.0303 | 9000 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 8881.4502 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 8756.4697 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 9423.2803 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 8973.9297 | | |
| | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|---------|
| A41T3DL |
|---------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-01DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 8384.4102 | 8900 | 0.30 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 8679.6201 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 9060.7598 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 9038.4004 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 9153.3203 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 8934.0596 | 8900 | |
| | 2 | 6.21 | 6.14 | 6.28 | 9158.8604 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 8674.4502 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 8792.9600 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 8892.6904 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41T3DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-01DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 11149.4004 | 12000 | 0.90 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 12111.0000 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 11959.0996 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 11827.2998 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 12076.5000 | | |
| | 1 | 6.02 | 5.96 | 6.10 | 11941.5000 | 12000 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 12468.0996 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 11281.4004 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 11191.2002 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 11714.7002 | | |
| | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X0

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-02
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 1491.4100 | 1700 | 3.60 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 1690.3600 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 1774.2200 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1660.0000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 1807.6200 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 1521.6600 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 1728.5601 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 1546.3600 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1591.2800 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 1746.2500 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X0DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-02DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 1557.4700 | 1600 | 0.30 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 1670.1300 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 1631.4600 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1469.6500 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 1472.9100 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 1634.9800 | 1600 | |
| | 2 | 6.21 | 6.14 | 6.28 | 1743.6801 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 1524.8000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1464.1000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 1458.6000 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X0MS

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-03MS
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 233.1920 | 250 | 8.30 |
| COLUMN 1 | 2 | 5.61 | 5.54 | 5.68 | 208.1270 | | |
| | 3 | 5.67 | 5.61 | 5.75 | 171.7770 | | |
| | 4 | 5.77 | 5.70 | 5.84 | 195.5920 | | |
| | 5 | 6.06 | 6.00 | 6.14 | 451.4460 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 229.1960 | 270 | |
| | 2 | 4.59 | 4.52 | 4.66 | 185.5630 | | |
| | 3 | 4.76 | 4.69 | 4.83 | 162.9810 | | |
| | 4 | 4.80 | 4.73 | 4.87 | 497.9970 | | |
| | 5 | 5.01 | 4.94 | 5.08 | 289.3250 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2041.6500 | 2200 | 2.90 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 2145.6299 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2324.5300 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2101.9800 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2230.5200 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2030.0000 | 2100 | |
| | 2 | 6.21 | 6.14 | 6.28 | 2313.0601 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2022.1899 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 1994.3900 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 2177.0200 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41X0MSD

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-04MSD
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units (µg/L, mg/L, µg/kg): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 257.2600 | 280 | 7.80 |
| | 2 | 5.61 | 5.54 | 5.68 | 227.9540 | | |
| | 3 | 5.67 | 5.61 | 5.75 | 197.0780 | | |
| | 4 | 5.77 | 5.70 | 5.84 | 221.0920 | | |
| | 5 | 6.06 | 6.00 | 6.14 | 483.2760 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 247.4130 | 300 | |
| | 2 | 4.59 | 4.52 | 4.66 | 202.0900 | | |
| | 3 | 4.76 | 4.69 | 4.83 | 196.2660 | | |
| | 4 | 4.80 | 4.73 | 4.87 | 537.6340 | | |
| | 5 | 5.01 | 4.94 | 5.08 | 311.9420 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2158.3101 | 2300 | |
| | 2 | 7.44 | 7.37 | 7.51 | 2258.8799 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2414.5100 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2181.6599 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2254.8999 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2152.4900 | 2200 | |
| | 2 | 6.21 | 6.14 | 6.28 | 2396.3000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2131.6499 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 2058.0200 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 2205.2600 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y4

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-05
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 275.1640 | 300 | 2.30 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 301.1110 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 310.4670 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 310.8910 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 298.3200 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 285.1690 | |
| | 2 | 6.21 | 6.14 | 6.28 | 311.7230 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 283.9940 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 278.4270 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 302.3300 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y5

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-06
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 62.5582 | 57 | 0.70 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 64.5780 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 61.2099 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 43.4081 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 55.1047 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 61.8205 | 57 | |
| | 2 | 6.21 | 6.14 | 6.28 | 68.1292 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 54.1228 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 52.0063 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 48.6942 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41Y6 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-07
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 8069.8701 | 8300 | 2.30 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 8013.9902 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 8734.0596 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 9118.5596 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 7449.8901 | | |
| | 1 | 6.02 | 5.96 | 6.10 | 8508.0596 | 8100 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 8724.3896 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 8277.7002 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 7713.1499 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 7213.3799 | | |
| | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y6DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-07DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 7489.9600 | 7900 | 3.10 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 7867.2300 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 8320.4404 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 8295.5000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 7422.9702 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 7858.0200 | 7600 | |
| | 2 | 6.21 | 6.14 | 6.28 | 8533.1104 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 7722.9302 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 7003.7700 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 7088.6802 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y6DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-07DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 8582.9102 | 8700 | 1.60 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 9171.9600 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 8741.6904 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 9119.8496 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 7815.1299 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 8962.5303 | 8600 | |
| | 2 | 6.21 | 6.14 | 6.28 | 9715.2500 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 8405.4004 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 7421.5000 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 8251.1699 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y7

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-08
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|------------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 15284.5996 | 16000 | 4.60 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 15381.9004 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 17297.5000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 15847.9004 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 14633.7998 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 16812.5000 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 16632.6992 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 16336.4004 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 17150.5996 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 15085.4004 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y7DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-08DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 17915.0996 | 19000 | 5.50 |
| | 2 | 7.44 | 7.37 | 7.51 | 19859.0000 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 18931.0000 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 17057.9004 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 18792.3008 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 19528.5996 | 20000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 21101.5000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 19245.5000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 18698.8008 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 19092.3008 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y7DL2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-08DL2
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|-------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 20994.3008 | 21000 | 2.80 |
| | 2 | 7.44 | 7.37 | 7.51 | 23332.8008 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 21547.3008 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 18849.0000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 20821.6992 | | |
| COLUMN 1 | 1 | 6.02 | 5.96 | 6.10 | 22158.5000 | 22000 | |
| | 2 | 6.21 | 6.14 | 6.28 | 24066.9004 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 21199.5000 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 20099.9004 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 20961.1992 | | |
| COLUMN 2 | | | | | | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41Y8 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-09
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2597.2700 | 2700 | 3.30 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 2813.5801 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2827.1001 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2538.5601 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2661.1101 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2784.9099 | 2800 | |
| | 2 | 6.21 | 6.14 | 6.28 | 3012.4099 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2738.6201 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 2623.2500 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 2716.6699 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Y8DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-09DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2508.3101 | 2500 | 2.20 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 2739.4800 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2612.7900 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2305.8000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2432.3501 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2602.1001 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 2861.7800 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2523.1499 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 2389.4399 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 2493.2800 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z0

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-11
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 32.3541 | 33 | 3.40 |
| | 2 | 7.44 | 7.37 | 7.51 | 37.5512 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 33.2410 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 30.6401 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 29.8498 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 35.0974 | 34 | |
| | 2 | 6.21 | 6.14 | 6.28 | 45.6845 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 30.6080 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 29.3443 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 28.5034 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z2

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-13
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units (µg/L, mg/L, µg/kg): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1254 | 1 | 6.44 | 6.37 | 6.51 | 47.3797 | 59 | 4.90 |
| | 2 | 6.66 | 6.59 | 6.73 | 54.2110 | | |
| | 3 | 7.02 | 6.95 | 7.09 | 43.6203 | | |
| | 4 | 7.30 | 7.23 | 7.37 | 36.9916 | | |
| | 5 | 7.72 | 7.65 | 7.79 | 110.4940 | | |
| COLUMN 1 | 1 | 5.35 | 5.29 | 5.43 | 41.0042 | 61 | |
| | 2 | 5.50 | 5.43 | 5.57 | 51.9494 | | |
| | 3 | 5.89 | 5.83 | 5.97 | 65.7300 | | |
| | 4 | 6.12 | 6.05 | 6.19 | 54.6160 | | |
| | 5 | 6.53 | 6.47 | 6.61 | 93.6667 | | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 78.4219 | 94 | |
| | 2 | 7.44 | 7.37 | 7.51 | 88.8312 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 84.8312 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 137.9790 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 79.4430 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 95.7426 | 90 | |
| | 2 | 6.20 | 6.14 | 6.28 | 142.4260 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 76.5865 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 67.5738 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 65.3629 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A41Z5 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-14
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/22/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 419.1670 | 400 | 2.50 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 392.1700 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 349.7370 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 399.3930 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 441.4130 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 384.1670 | 410 | |
| | 2 | 6.21 | 6.14 | 6.28 | 408.4000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 379.4070 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 461.0130 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 417.9970 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z6

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-15
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/22/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 274.8250 | 270 | 8.80 |
| | 2 | 7.44 | 7.37 | 7.51 | 280.6980 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 280.1870 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 262.5100 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 255.1860 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 260.8340 | 250 | |
| | 2 | 6.21 | 6.14 | 6.28 | 274.8900 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 243.3180 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 233.5280 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 231.2850 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z7

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-16
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/22/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units (µg/L, mg/L, µg/kg): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 COLUMN 1 | 1 | 5.59 | 5.52 | 5.66 | 2579.2300 | 2200 | 2.50 |
| | 2 | 5.86 | 5.79 | 5.93 | 1889.5900 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 2415.2700 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 1767.1700 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 2509.6399 | | |
| COLUMN 2 | 1 | 4.57 | 4.50 | 4.64 | 2329.4199 | 2300 | |
| | 2 | 4.80 | 4.73 | 4.87 | 2106.0701 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 2441.5500 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 2052.6699 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 2512.5100 | | |
| Aroclor-1260 COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 2411.7800 | 2500 | |
| | 2 | 7.44 | 7.37 | 7.51 | 2448.7300 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2717.0100 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2370.0801 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2454.4700 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2596.0701 | 2400 | |
| | 2 | 6.21 | 6.14 | 6.28 | 2618.4299 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2306.1799 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 2224.3899 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 2369.2400 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z7DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-16DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1248 | 1 | 5.59 | 5.52 | 5.66 | 2465.2800 | 2200 | 4.20 |
| | 2 | 5.86 | 5.79 | 5.93 | 1922.6700 | | |
| | 3 | 6.06 | 5.99 | 6.13 | 2242.0801 | | |
| | 4 | 6.46 | 6.40 | 6.54 | 1813.4301 | | |
| | 5 | 6.50 | 6.43 | 6.57 | 2440.9900 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 2402.7400 | 2300 | |
| | 2 | 4.80 | 4.73 | 4.87 | 2048.7100 | | |
| | 3 | 4.84 | 4.77 | 4.91 | 2410.7600 | | |
| | 4 | 5.01 | 4.94 | 5.08 | 2033.5400 | | |
| | 5 | 5.39 | 5.33 | 5.47 | 2449.0500 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 2272.8999 | 2300 | |
| | 2 | 7.44 | 7.37 | 7.51 | 2432.8401 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2469.1001 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2135.9600 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2210.3799 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 2534.1899 | 2300 | 0.20 |
| | 2 | 6.21 | 6.14 | 6.28 | 2530.0300 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2177.8401 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 2077.7300 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 2228.6299 | | |
| COLUMN 1 | 1 | 7.18 | 7.12 | 7.26 | 2272.8999 | 2300 | |
| | 2 | 7.44 | 7.37 | 7.51 | 2432.8401 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2469.1001 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 2135.9600 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2210.3799 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2534.1899 | 2300 | |
| | 2 | 6.21 | 6.14 | 6.28 | 2530.0300 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2177.8401 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 2077.7300 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 2228.6299 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z8

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-17
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/22/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 31.4003 | 37 | 15.00 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 39.2560 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 33.9337 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 47.9283 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 31.1615 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 34.3004 | 32 | |
| | 2 | 6.21 | 6.14 | 6.28 | 37.3115 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 29.9781 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 29.5392 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 28.5725 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A41Z9

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-18
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/22/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|-------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 71.3309 | 65 | 10.60 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 66.6818 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 65.6532 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 67.6692 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 54.8378 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 66.7795 | 59 | |
| | 2 | 6.21 | 6.14 | 6.28 | 66.7692 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 58.3967 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 52.6573 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 50.2145 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

| |
|-------|
| A4200 |
|-------|

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-19
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/22/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2031.1100 | 2200 | 2.60 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 2181.0601 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2285.9099 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1923.6600 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2442.3899 | | |
| COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 2099.0701 | 2100 | |
| | 2 | 6.21 | 6.14 | 6.28 | 2360.0100 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 2051.7700 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1985.2900 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 2095.2300 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

A4200DL

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: J6432-19DL
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/28/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|----------|------|-----------|------|---------------|-----------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1260 | 1 | 7.18 | 7.12 | 7.26 | 2069.5901 | 2100 | 8.30 |
| COLUMN 1 | 2 | 7.44 | 7.37 | 7.51 | 2085.0200 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 2195.0801 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 1998.1000 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 2330.5701 | | |
| | COLUMN 2 | 1 | 6.02 | 5.96 | 6.10 | 1902.9399 | |
| COLUMN 2 | 2 | 6.21 | 6.14 | 6.28 | 2313.3000 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 1832.0100 | | |
| | 4 | 6.82 | 6.76 | 6.90 | 1816.9200 | | |
| | 5 | 7.06 | 7.00 | 7.14 | 1995.3000 | | |

FORM 10B-OR
IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

EPA SAMPLE NO.

ALCS57

Lab Name: Chemtech Consulting Group Contract: EPW14030
 Lab Code: CHM Case No. 48033 MA No.: _____ SDG No.: A41T3
 Analytical Method: ARO Lab Sample ID: PB115757BS
 Instrument ID (1): ECD_R Date(s) Analyzed : 12/21/2018
 Instrument ID (2): ECD_R
 GC Column(1): ZB-MR1 ID: 0.32 (mm) GC Column(2): ZB-MR2 ID: 0.32 (mm)
 Concentration Units ($\mu\text{g/L}$, mg/L , $\mu\text{g/kg}$): ug/Kg

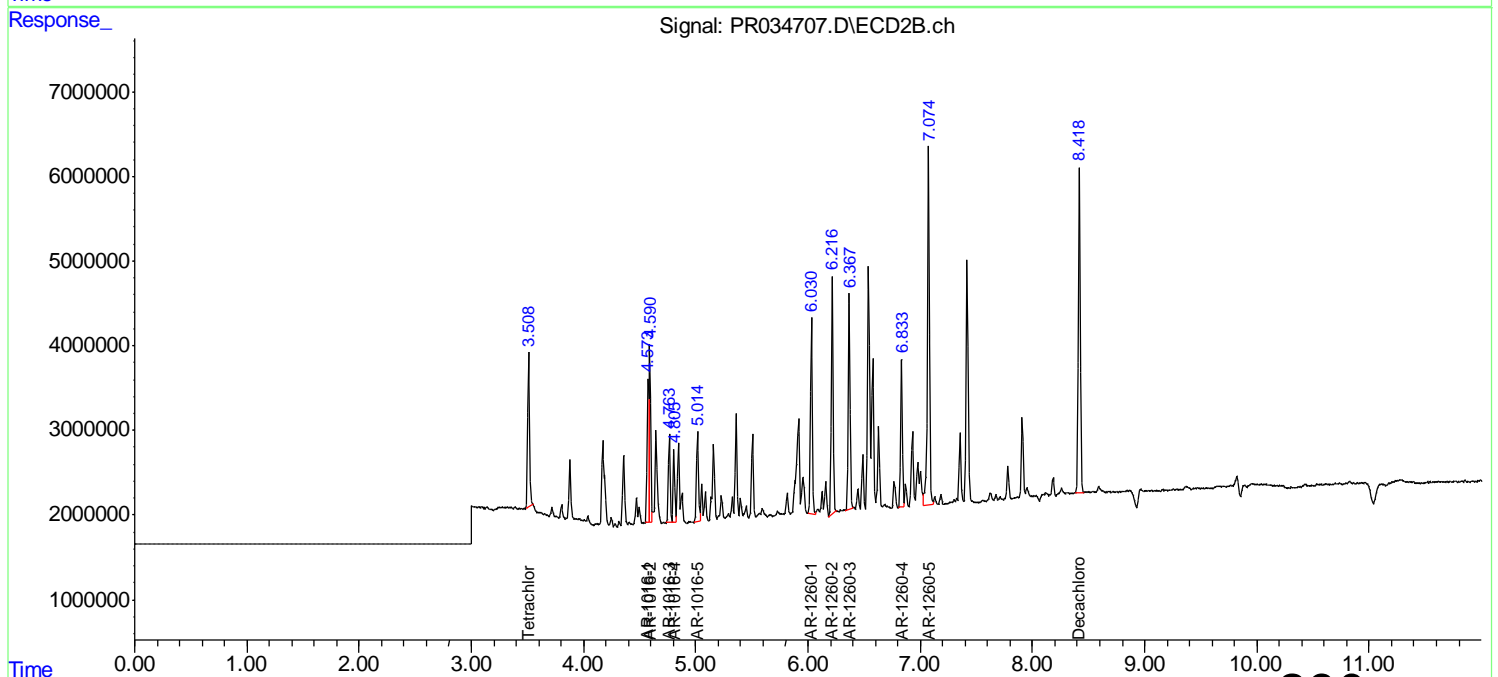
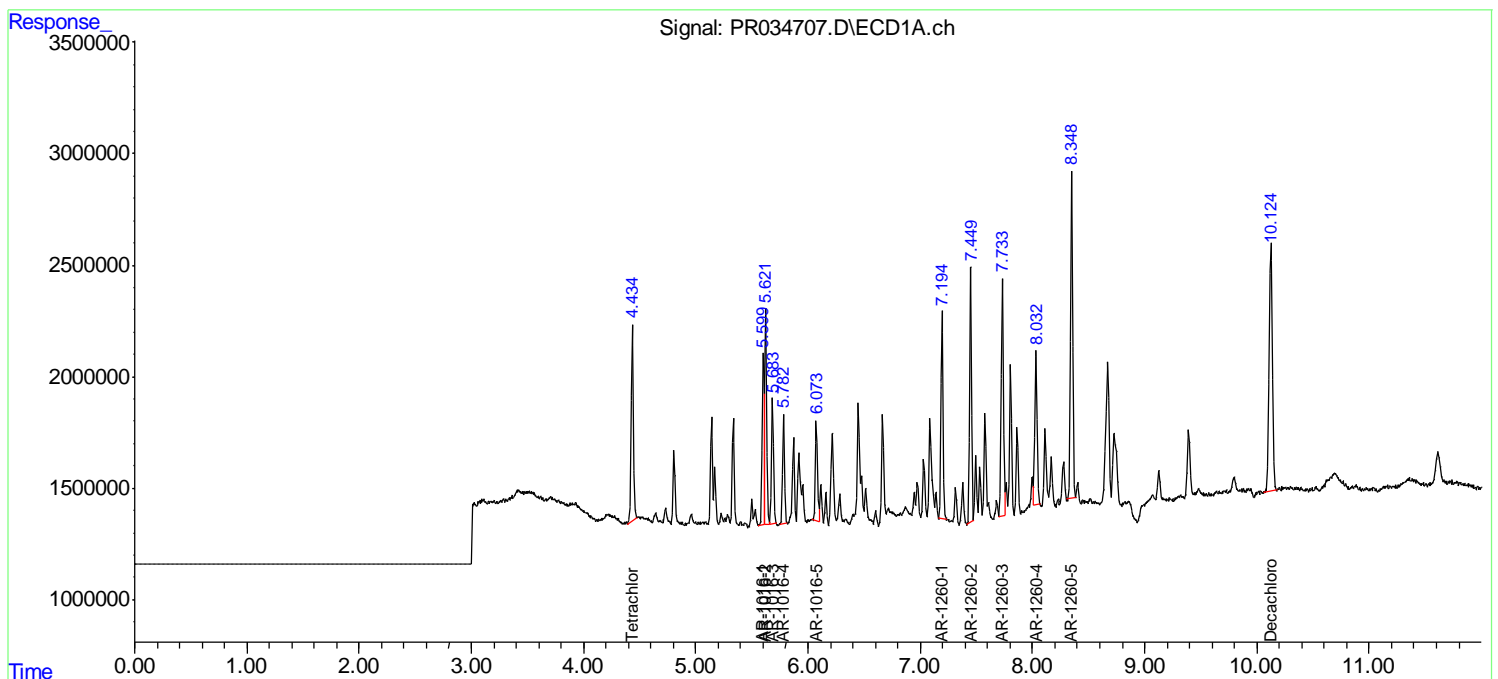
| ANALYTE | PEAK | RT | RT WINDOW | | CONCENTRATION | | %D |
|--------------|------|------|-----------|------|---------------|------|------|
| | | | FROM | TO | PEAK | MEAN | |
| Aroclor-1016 | 1 | 5.59 | 5.52 | 5.66 | 48.5933 | 48 | 8.60 |
| | 2 | 5.61 | 5.54 | 5.68 | 47.2000 | | |
| | 3 | 5.67 | 5.61 | 5.75 | 47.0400 | | |
| | 4 | 5.77 | 5.70 | 5.84 | 47.7100 | | |
| | 5 | 6.06 | 6.00 | 6.14 | 48.2033 | | |
| COLUMN 1 | 1 | 4.57 | 4.50 | 4.64 | 43.7967 | 44 | |
| | 2 | 4.59 | 4.52 | 4.66 | 42.8667 | | |
| | 3 | 4.76 | 4.69 | 4.83 | 44.0833 | | |
| | 4 | 4.80 | 4.73 | 4.87 | 44.3167 | | |
| | 5 | 5.01 | 4.94 | 5.08 | 44.7300 | | |
| COLUMN 2 | 1 | 7.18 | 7.12 | 7.26 | 49.7167 | 49 | 0.40 |
| | 2 | 7.44 | 7.37 | 7.51 | 48.9467 | | |
| | 3 | 7.72 | 7.65 | 7.79 | 48.6733 | | |
| | 4 | 8.02 | 7.95 | 8.09 | 48.6600 | | |
| | 5 | 8.34 | 8.27 | 8.41 | 47.6333 | | |
| Aroclor-1260 | 1 | 6.02 | 5.96 | 6.10 | 45.2767 | 49 | |
| | 2 | 6.21 | 6.14 | 6.28 | 56.6633 | | |
| | 3 | 6.36 | 6.30 | 6.44 | 44.7967 | | |
| | 4 | 6.83 | 6.76 | 6.90 | 49.2300 | | |
| | 5 | 7.07 | 7.00 | 7.14 | 46.7900 | | |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034707.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:11
 Operator : SM\SJ
 Sample : AR1660ICC100
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:44:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034707.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:11
 Operator : SM\SJ
 Sample : AR1660ICC100
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1660101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:44:51 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.434 | 3.509 | 11575328 | 20156690 | 5.951 | 5.782 |
| 2) SA Decachlor... | 10.125 | 8.418 | 22531430 | 48088722 | 11.461 | 10.938 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.600 | 4.574 | 8549679 | 15711716 | 126.656 | 120.744 |
| 4) L1 AR-1016-2 | 5.622 | 4.591 | 12119888 | 23241468 | 122.390 | 117.589 |
| 5) L1 AR-1016-3 | 5.684 | 4.763 | 7127231 | 11357332 | 121.097 | 118.163 |
| 6) L1 AR-1016-4 | 5.782 | 4.805 | 5824701 | 9101036 | 122.788 | 120.465 |
| 7) L1 AR-1016-5 | 6.074 | 5.014 | 5913838 | 12509960 | 124.168 | 121.662 |
| 31) L7 AR-1260-1 | 7.194 | 6.030 | 11621116 | 25538159 | 123.618 | 118.797 |
| 32) L7 AR-1260-2 | 7.449 | 6.216 | 13626859 | 31448616 | 117.371 | 115.568 |
| 33) L7 AR-1260-3 | 7.733 | 6.367 | 14997060 | 28478088 | 107.462 | 114.722 |
| 34) L7 AR-1260-4 | 8.032 | 6.833 | 9903750 | 19177385 | 114.675 | 112.155 |
| 35) L7 AR-1260-5 | 8.349 | 7.074 | 19978778 | 53988233 | 110.653 | 111.628 |
| ----- | | | | | | |

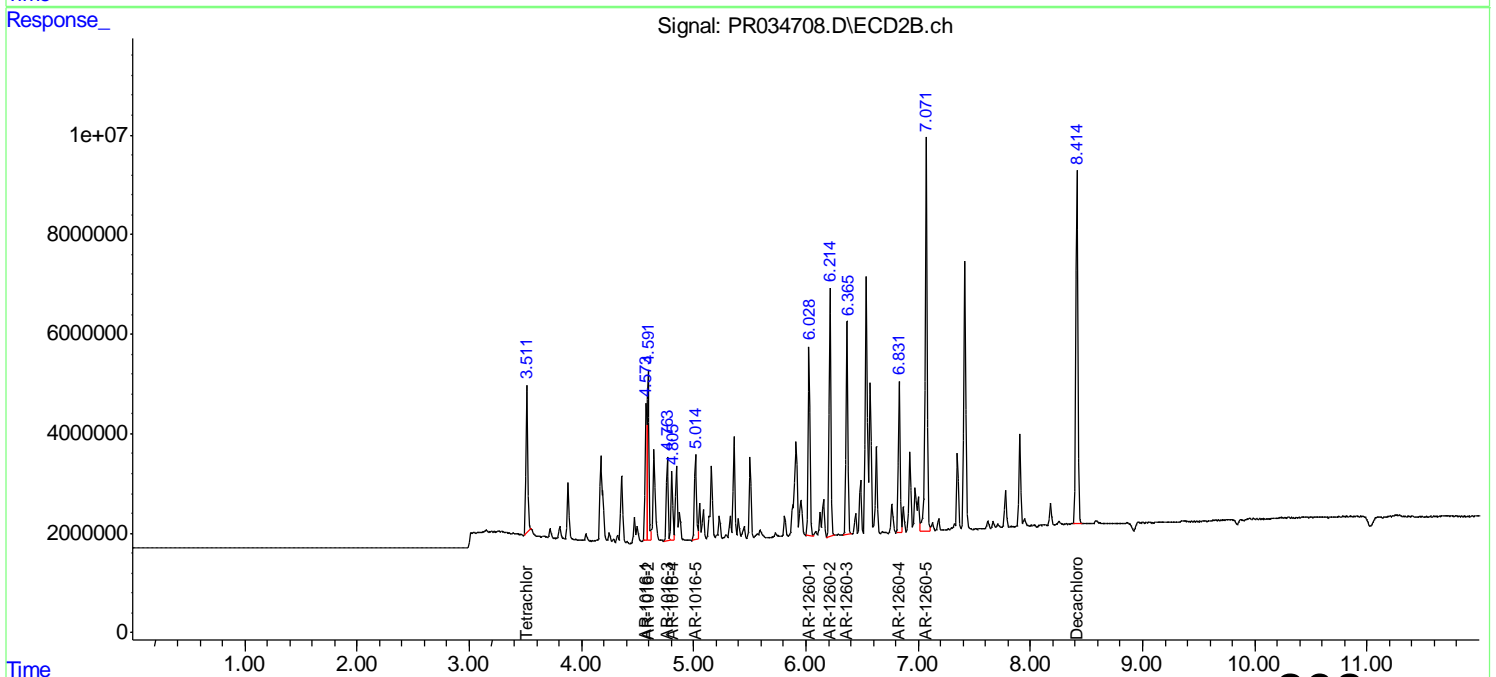
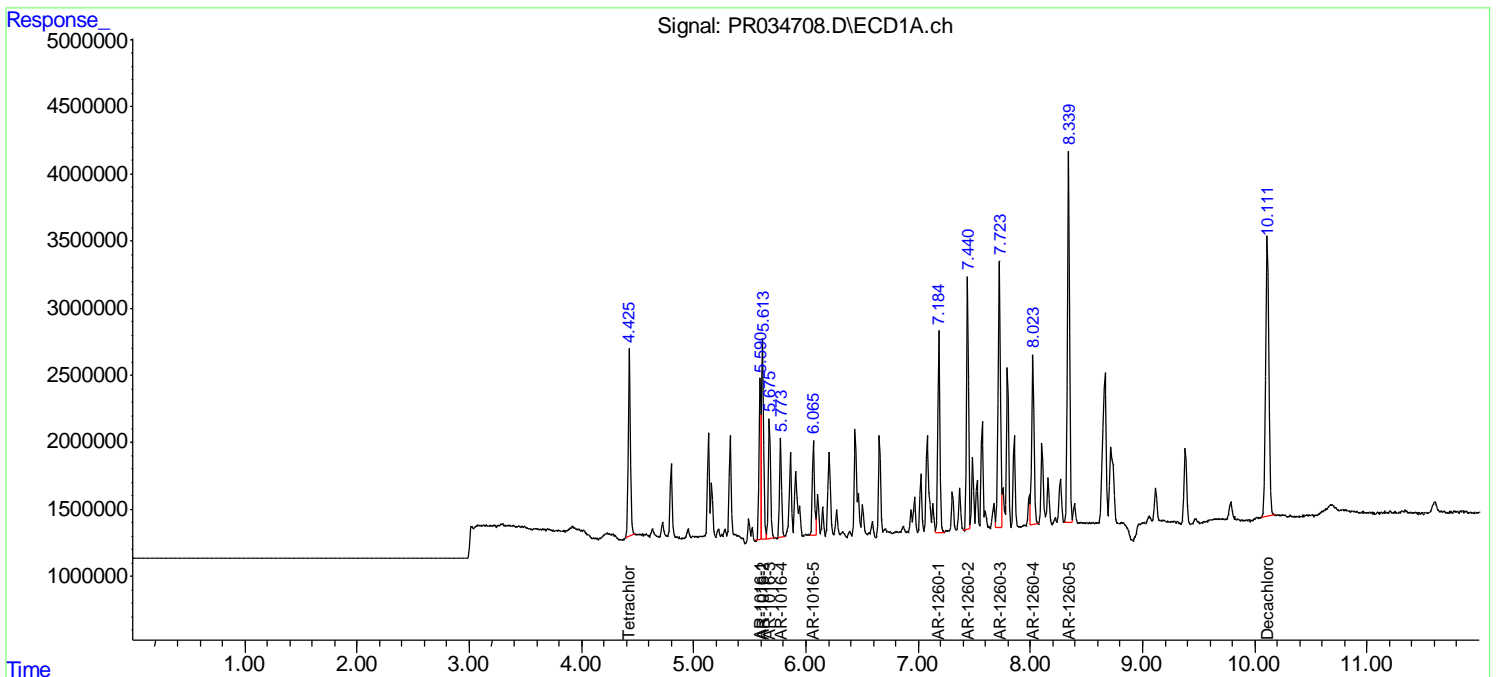
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034708.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:25
 Operator : SM\SJ
 Sample : AR1660ICC200
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:43:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034708.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:25
 Operator : SM\SJ
 Sample : AR1660ICC200
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:43:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 18213880 | 32991339 | 9.832 | 9.849 |
| 2) SA Decachlor... | 10.111 | 8.414 | 41412050 | 90430415 | 21.864 | 21.062 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.591 | 4.574 | 13478376 | 25405682 | 213.926 | 205.920 |
| 4) L1 AR-1016-2 | 5.613 | 4.591 | 19663053 | 37807430 | 210.336 | 200.083 |
| 5) L1 AR-1016-3 | 5.675 | 4.764 | 12137503 | 18409552 | 217.707 | 200.646 |
| 6) L1 AR-1016-4 | 5.773 | 4.805 | 9242599 | 14845943 | 206.611 | 207.104 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 9245419 | 20114685 | 206.602 | 206.819 |
| 31) L7 AR-1260-1 | 7.184 | 6.028 | 18964446 | 42374969 | 214.391 | 206.838 |
| 32) L7 AR-1260-2 | 7.440 | 6.214 | 23538580 | 53721092 | 211.946 | 205.410 |
| 33) L7 AR-1260-3 | 7.723 | 6.365 | 28884486 | 48515655 | 210.908 | 202.910 |
| 34) L7 AR-1260-4 | 8.023 | 6.831 | 17905676 | 34245173 | 215.225 | 206.552 |
| 35) L7 AR-1260-5 | 8.340 | 7.072 | 37186263 | 97857686 | 211.592 | 208.391 |
| ----- | | | | | | |

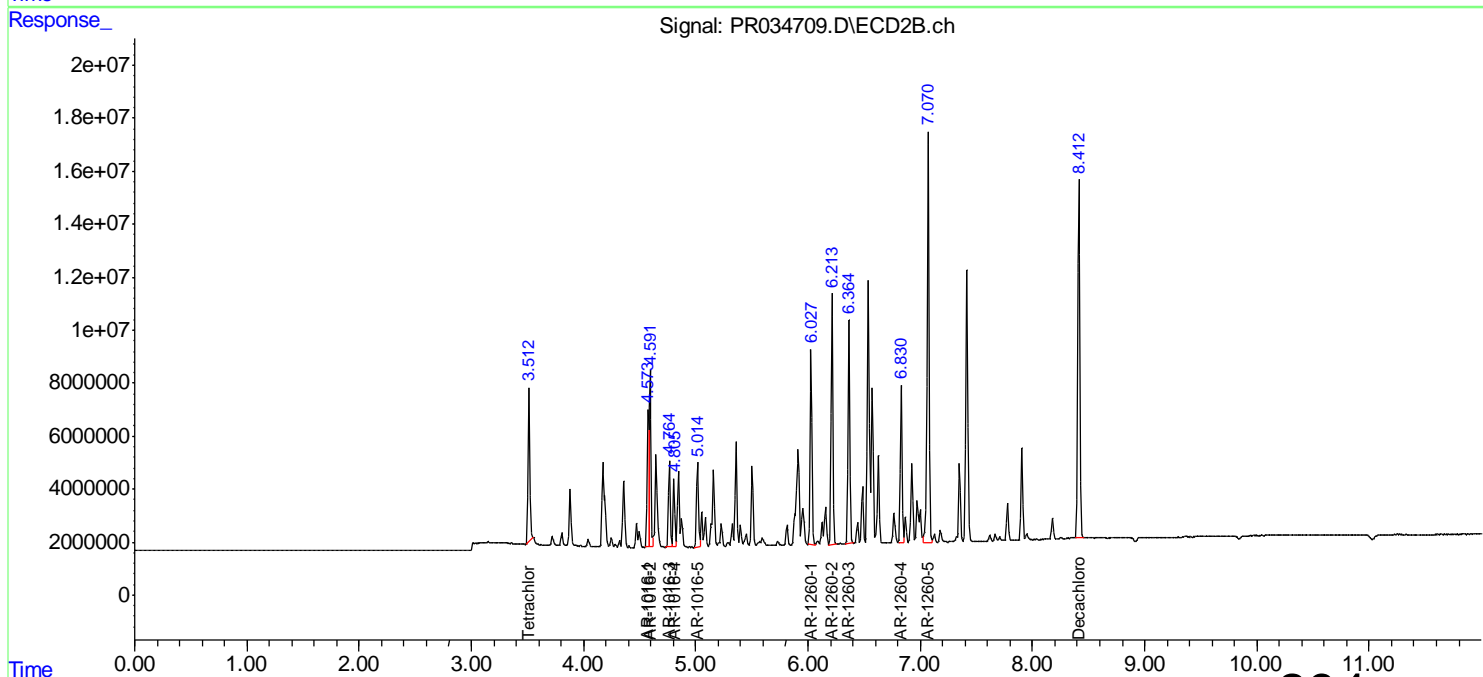
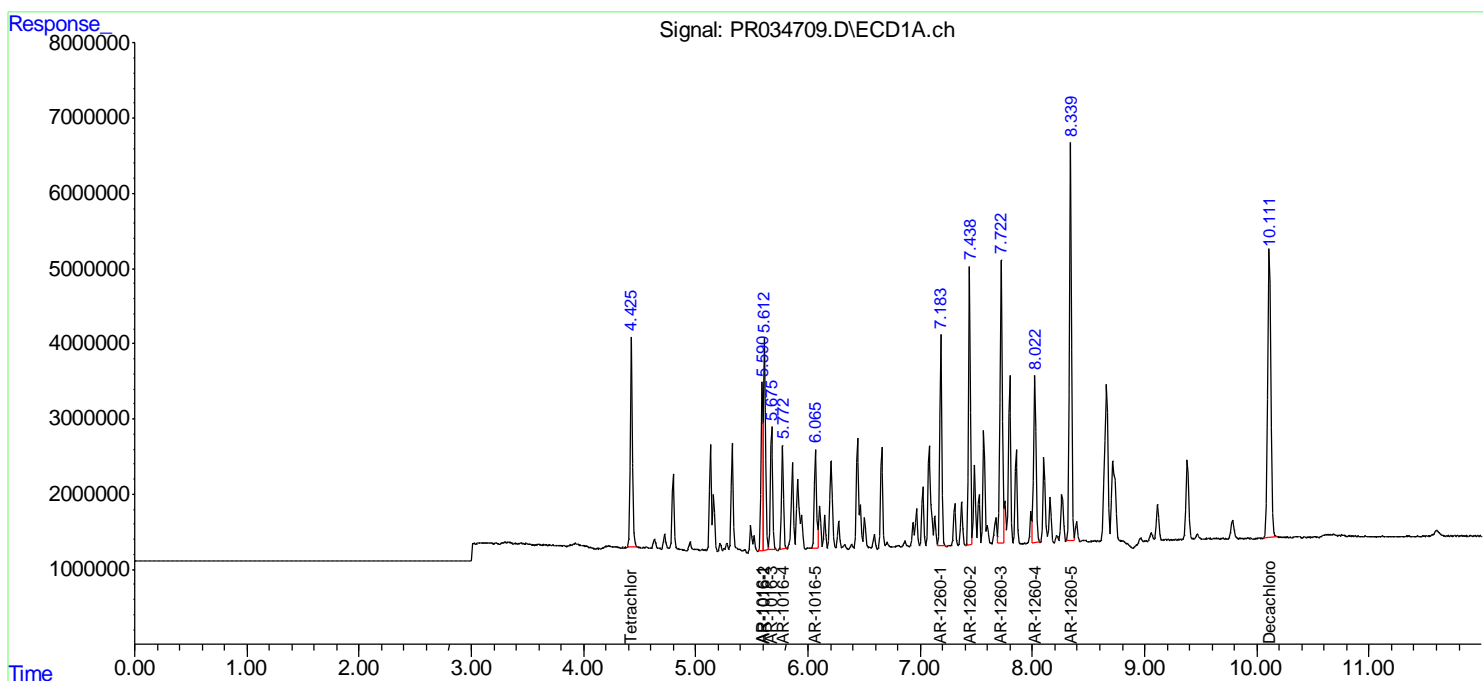
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034709.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:40
 Operator : SM\SJ
 Sample : AR1660ICC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:34:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034709.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:40
 Operator : SM\SJ
 Sample : AR1660ICC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1660301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:34:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 36033394 | 63898434 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.111 | 8.413 | 76211999 | 169.6E6 | 40.000 | 40.000 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.574 | 24448237 | 47658424 | 400.000 | 400.000 |
| 4) L1 AR-1016-2 | 5.612 | 4.591 | 36234219 | 72823415 | 400.000 | 400.000 |
| 5) L1 AR-1016-3 | 5.675 | 4.764 | 21675790 | 35570548 | 400.000 | 400.000 |
| 6) L1 AR-1016-4 | 5.773 | 4.805 | 17386025 | 28101442 | 400.000 | 400.000 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 17667035 | 38000332 | 400.000 | 400.000 |
| 31) L7 AR-1260-1 | 7.183 | 6.028 | 35116158 | 80472567 | 400.000 | 400.000 |
| 32) L7 AR-1260-2 | 7.439 | 6.214 | 44310529 | 103.0E6 | 400.000 | 400.000 |
| 33) L7 AR-1260-3 | 7.722 | 6.365 | 54581902 | 93696273 | 400.000 | 400.000 |
| 34) L7 AR-1260-4 | 8.022 | 6.831 | 33197341 | 65680580 | 400.000 | 400.000 |
| 35) L7 AR-1260-5 | 8.339 | 7.071 | 69881907 | 183.3E6 | 400.000 | 400.000 |

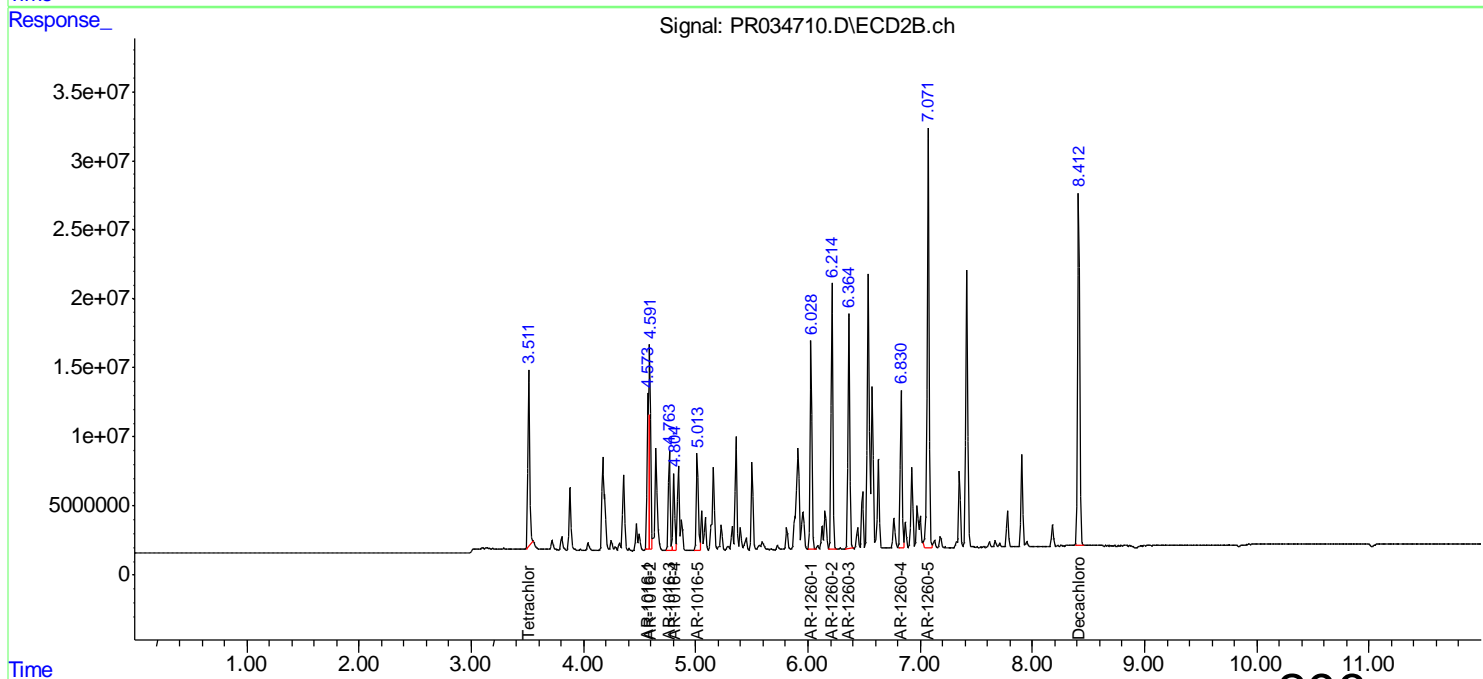
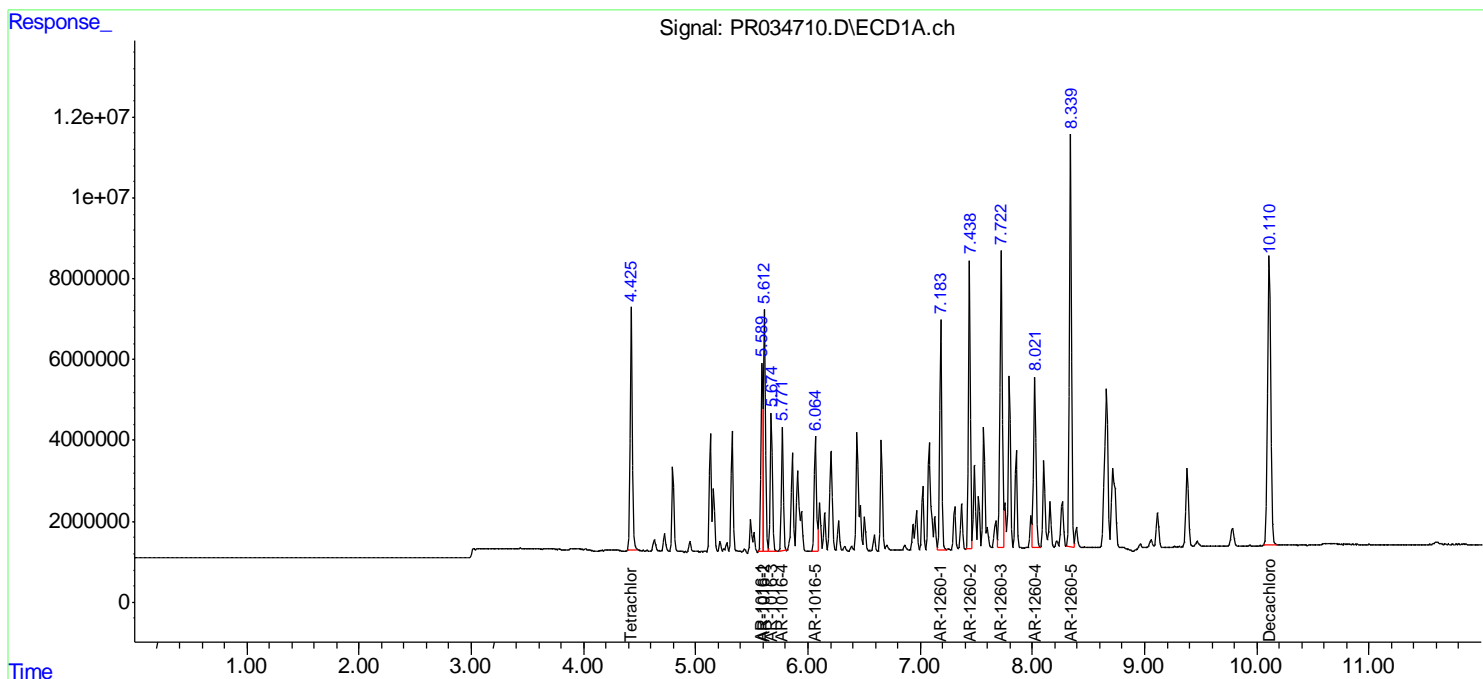
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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034710.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660ICC800
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AR1660401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:41:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034710.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660ICC800
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:41:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 78653657 | 142.2E6 | 42.221 | 42.225 |
| 2) SA Decachlor... | 10.111 | 8.413 | 140.8E6 | 323.8E6 | 76.699 | 76.774 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.574 | 52138722 | 102.9E6 | 847.199 | 842.479 |
| 4) L1 AR-1016-2 | 5.613 | 4.591 | 77482364 | 159.9E6 | 843.359 | 846.259 |
| 5) L1 AR-1016-3 | 5.674 | 4.764 | 45620376 | 77251794 | 843.162 | 842.873 |
| 6) L1 AR-1016-4 | 5.772 | 4.805 | 37550534 | 59626373 | 848.763 | 841.764 |
| 7) L1 AR-1016-5 | 6.065 | 5.014 | 37491732 | 80642500 | 847.128 | 838.698 |
| 31) L7 AR-1260-1 | 7.183 | 6.028 | 70257436 | 163.4E6 | 813.772 | 806.693 |
| 32) L7 AR-1260-2 | 7.439 | 6.214 | 86939932 | 206.2E6 | 798.727 | 795.625 |
| 33) L7 AR-1260-3 | 7.722 | 6.365 | 106.4E6 | 189.6E6 | 791.379 | 796.869 |
| 34) L7 AR-1260-4 | 8.022 | 6.831 | 63663026 | 127.7E6 | 785.149 | 778.825 |
| 35) L7 AR-1260-5 | 8.339 | 7.072 | 133.4E6 | 357.8E6 | 773.805 | 772.772 |
| ----- | | | | | | |

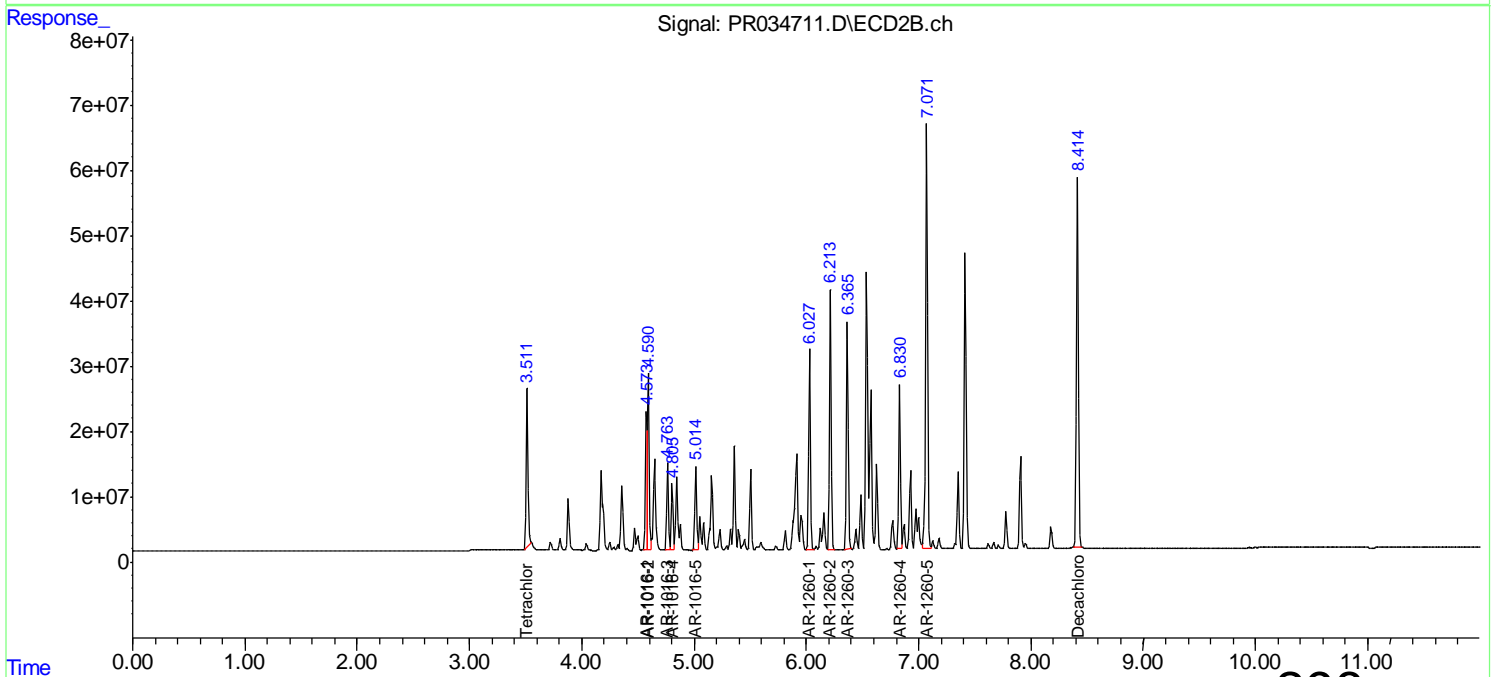
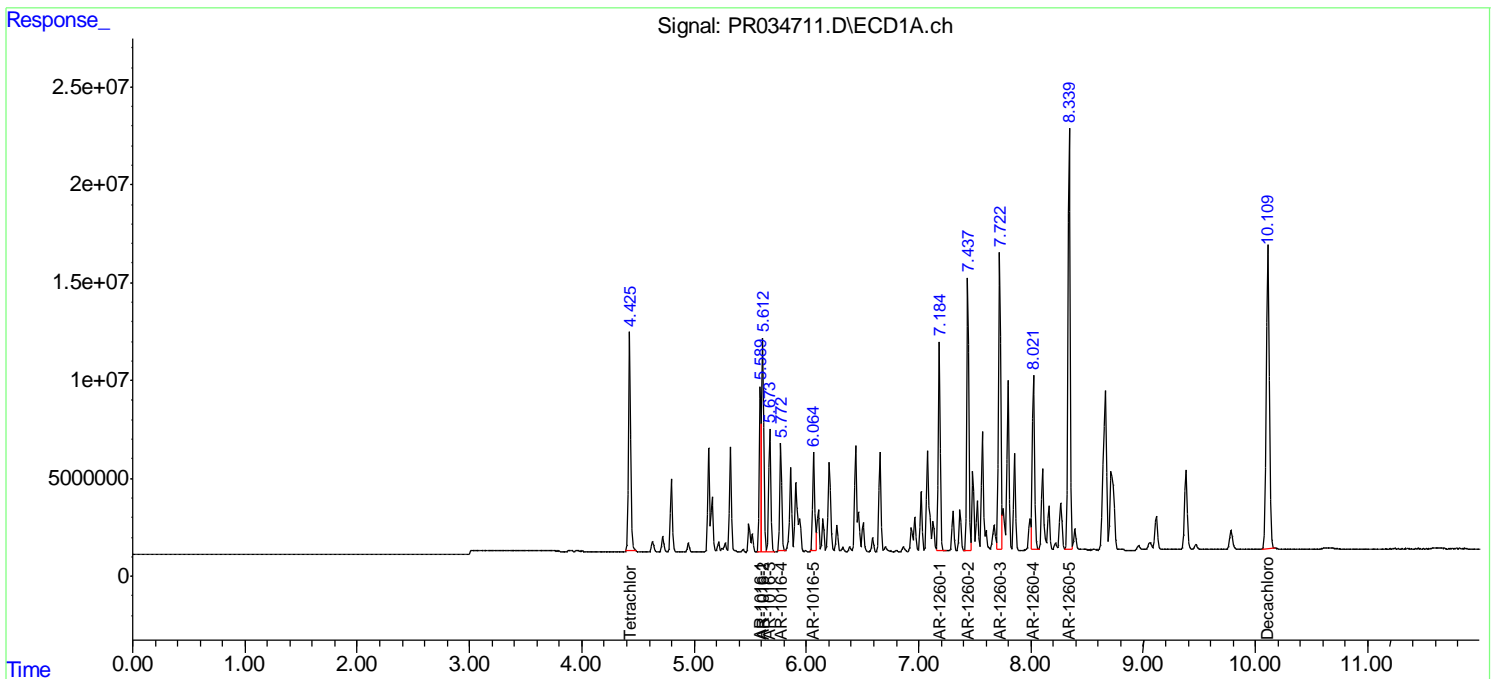
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Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034711.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660ICC1600
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1660501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:38:56 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034711.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660ICCC1600
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:38:56 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:19:25 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.512 | 145.7E6 | 268.1E6 | 80.420 | 81.907 |
| 2) SA Decachlor... | 10.110 | 8.414 | 294.6E6 | 698.5E6 | 157.254 | 162.349 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.574 | 93333310 | 189.9E6 | 1562.666 | 1596.900 |
| 4) L1 AR-1016-2 | 5.612 | 4.591 | 141.1E6 | 295.8E6 | 1578.487 | 1612.316 |
| 5) L1 AR-1016-3 | 5.674 | 4.763 | 81766190 | 143.1E6 | 1553.112 | 1604.855 |
| 6) L1 AR-1016-4 | 5.772 | 4.805 | 67714057 | 108.3E6 | 1578.667 | 1570.600 |
| 7) L1 AR-1016-5 | 6.064 | 5.014 | 66784081 | 148.2E6 | 1554.788 | 1579.974 |
| 31) L7 AR-1260-1 | 7.184 | 6.028 | 133.4E6 | 323.5E6 | 1558.913 | 1604.016 |
| 32) L7 AR-1260-2 | 7.438 | 6.213 | 171.3E6 | 419.7E6 | 1572.951 | 1614.878 |
| 33) L7 AR-1260-3 | 7.722 | 6.365 | 214.3E6 | 388.1E6 | 1585.002 | 1627.952 |
| 34) L7 AR-1260-4 | 8.022 | 6.831 | 129.1E6 | 269.0E6 | 1577.385 | 1618.804 |
| 35) L7 AR-1260-5 | 8.340 | 7.072 | 281.0E6 | 773.8E6 | 1604.263 | 1643.174 |
| ----- | | | | | | |

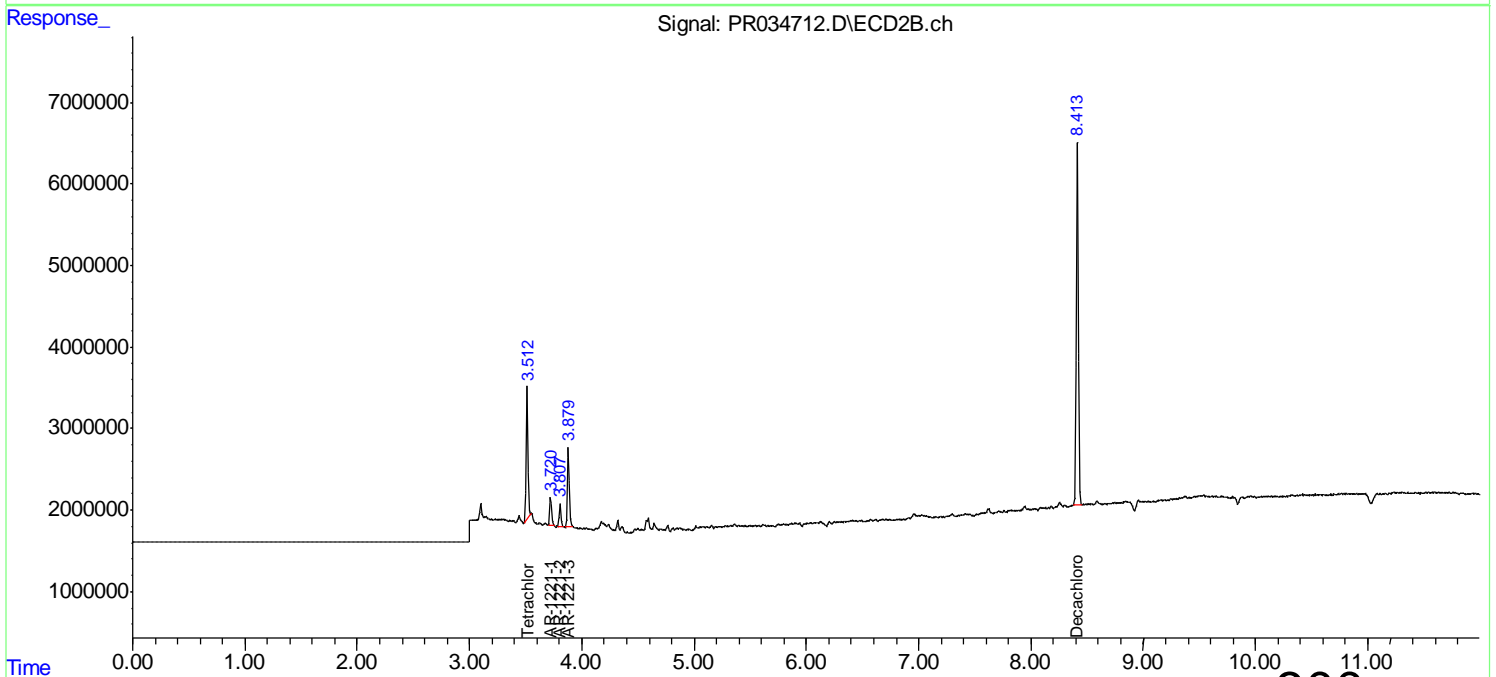
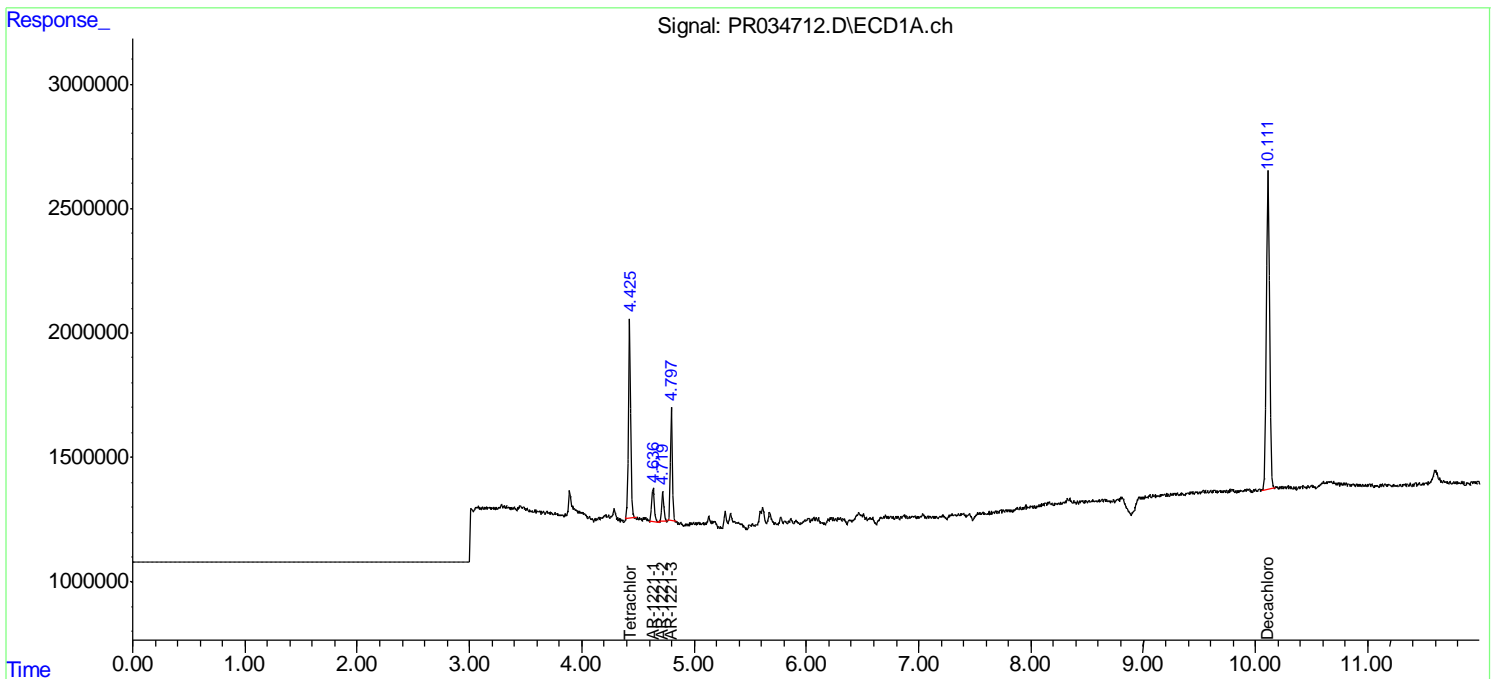
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034712.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 16:23
Operator : SM\SJ
Sample : AR1221ICC100
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR1221101

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:50:47 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:33:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034712.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:23
 Operator : SM\SJ
 Sample : AR1221ICC100
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1221101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:50:47 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 10660622 | 17609836 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.111 | 8.414 | 25823530 | 55835928 | 10.000 | 10.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|----------|---------|---------|
| 8) L2 AR-1221-1 | 4.635 | 3.722 | 2201259 | 4224872 | 100.000 | 100.000 |
| 9) L2 AR-1221-2 | 4.720 | 3.806 | 1533078 | 3073584 | 100.000 | 100.000 |
| 10) L2 AR-1221-3 | 4.797 | 3.880 | 5408912 | 11093751 | 100.000 | 100.000 |

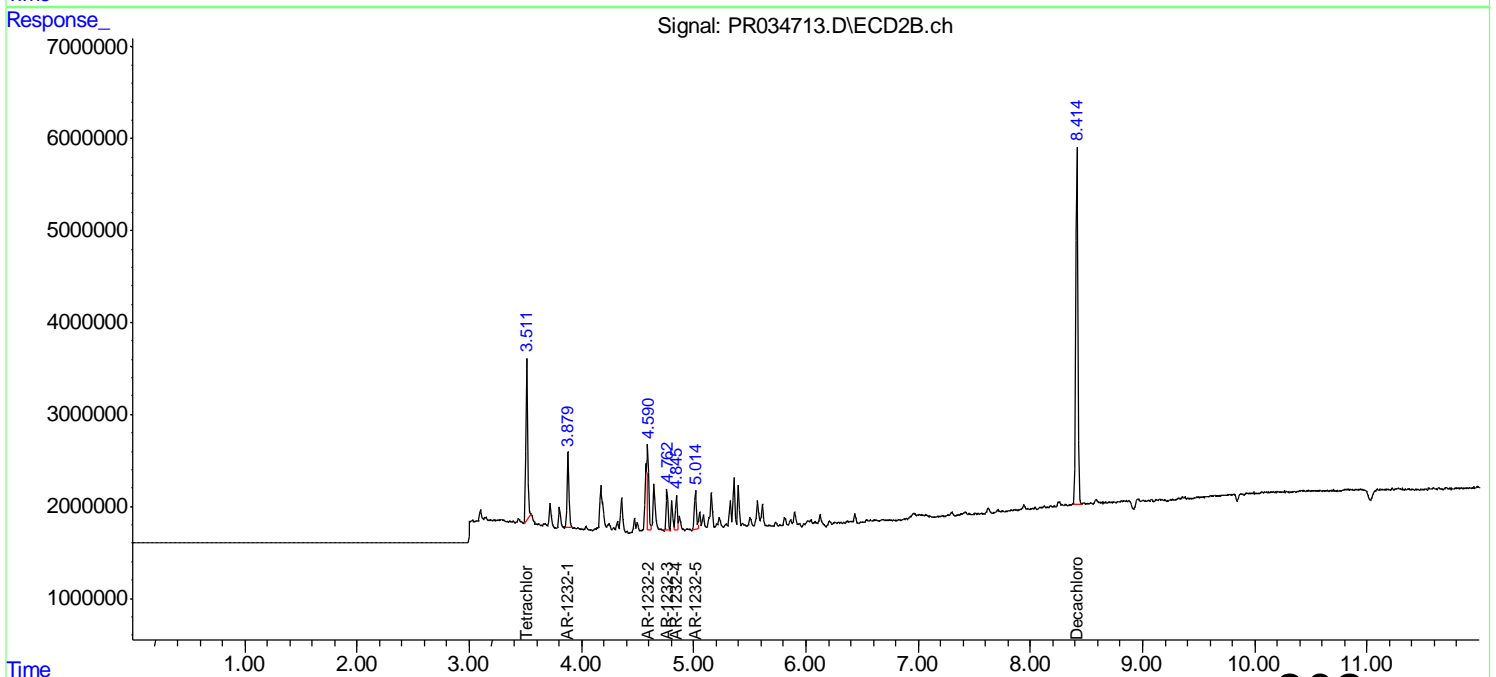
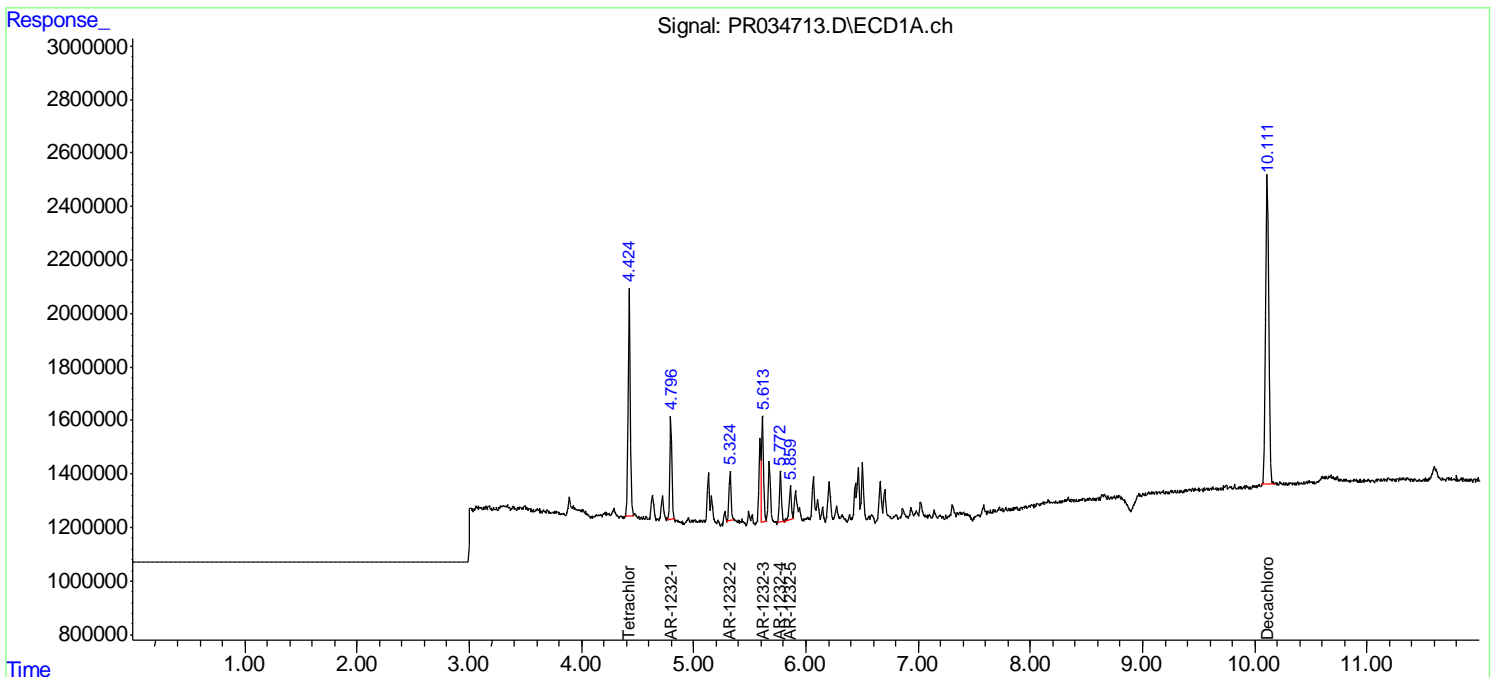
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034713.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:37
 Operator : SM\SJ
 Sample : AR1232ICC100
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1232201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:45:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034713.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:37
 Operator : SM\SJ
 Sample : AR1232ICC100
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1232201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:45:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 11081067 | 18964552 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.110 | 8.414 | 22915956 | 50165798 | 10.000 | 10.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|----------|---------|---------|
| 11) L3 AR-1232-1 | 4.797 | 3.879 | 4483522 | 9138526 | 100.000 | 100.000 |
| 12) L3 AR-1232-2 | 5.323 | 4.591 | 2314380 | 10328991 | 100.000 | 100.000 |
| 13) L3 AR-1232-3 | 5.612 | 4.763 | 5131517 | 4830087 | 100.000 | 100.000 |
| 14) L3 AR-1232-4 | 5.773 | 4.845 | 2331372 | 4477834 | 100.000 | 100.000 |
| 15) L3 AR-1232-5 | 5.861 | 5.014 | 1581063 | 4970275 | 100.000 | 100.000 |

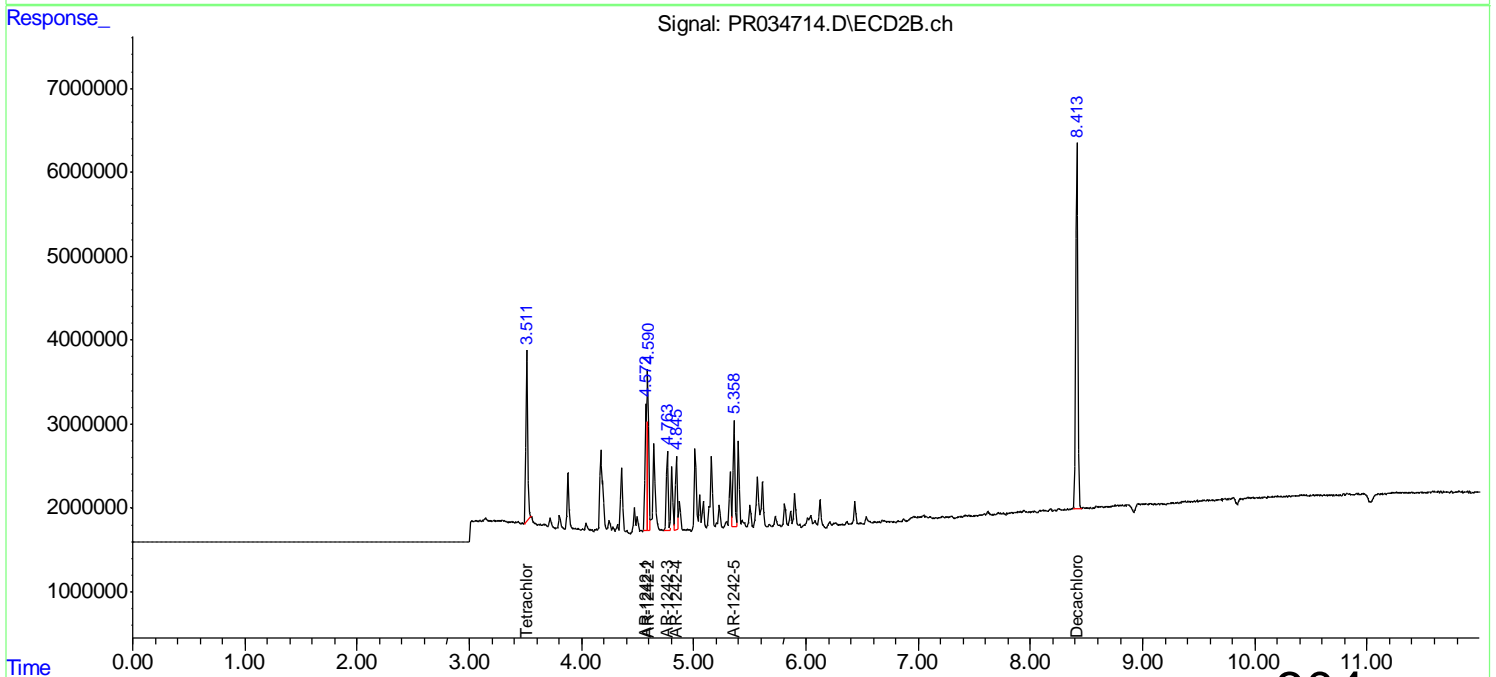
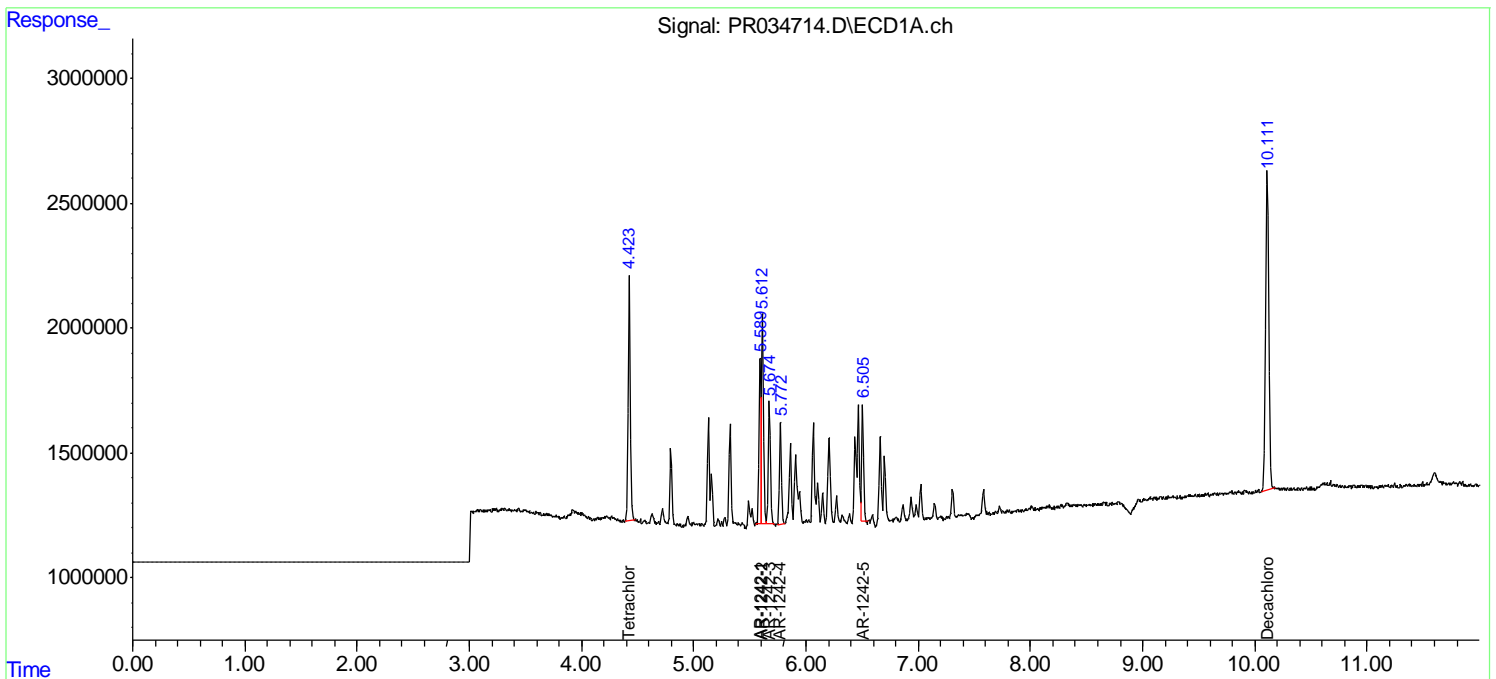
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034714.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:52
 Operator : SM\SJ
 Sample : AR1242ICC100
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:27:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034714.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 16:52
 Operator : SM\SJ
 Sample : AR1242ICC100
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:27:23 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 12664279 | 22662152 | 5.977 | 5.832 |
| 2) SA Decachlor... | 10.110 | 8.413 | 25231571 | 55495085 | 11.657 | 11.260 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 7343492 | 14235935 | 126.604 | 125.412 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 10728484 | 20937362 | 126.749 | 122.636 |
| 18) L4 AR-1242-3 | 5.674 | 4.763 | 6340299 | 10352170 | 126.526 | 122.176 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 5045536 | 10562663 | 123.470 | 127.758 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 5660881 | 13826922 | 122.905 | 124.314 |

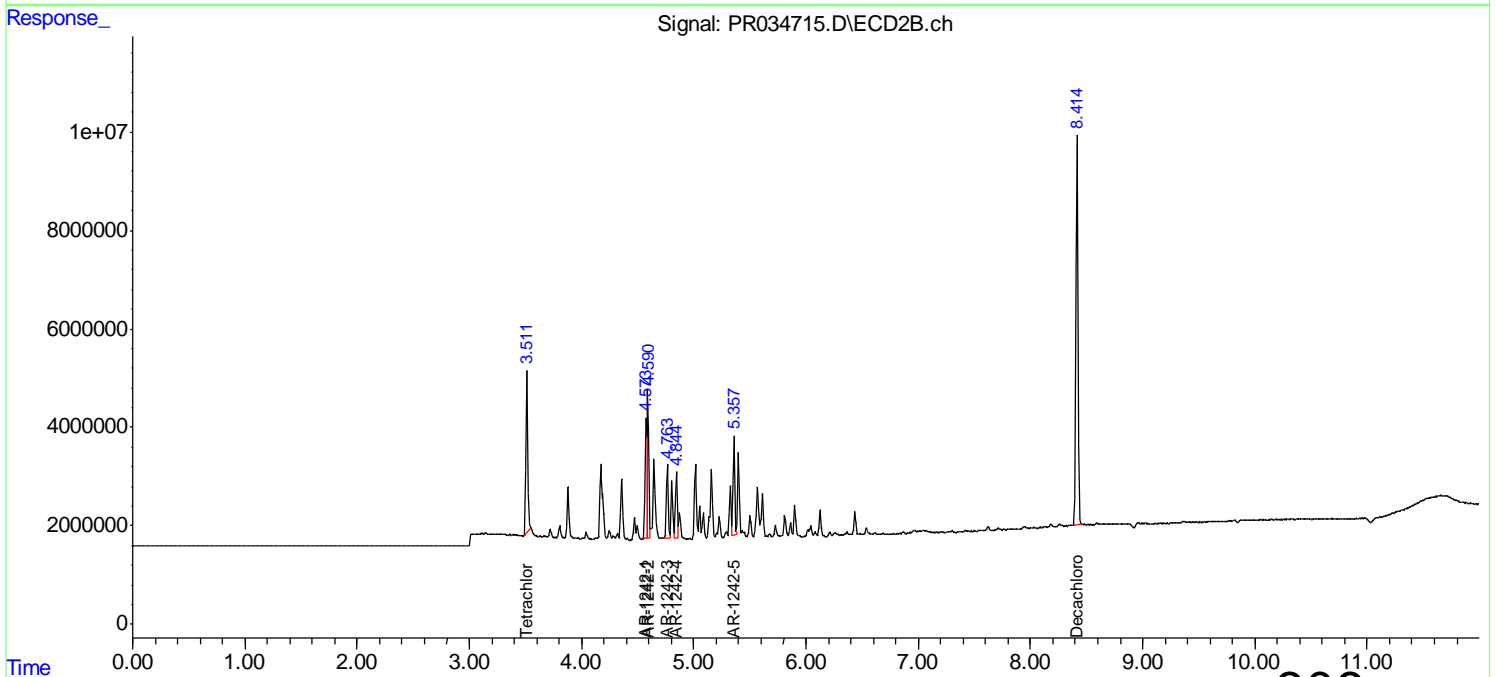
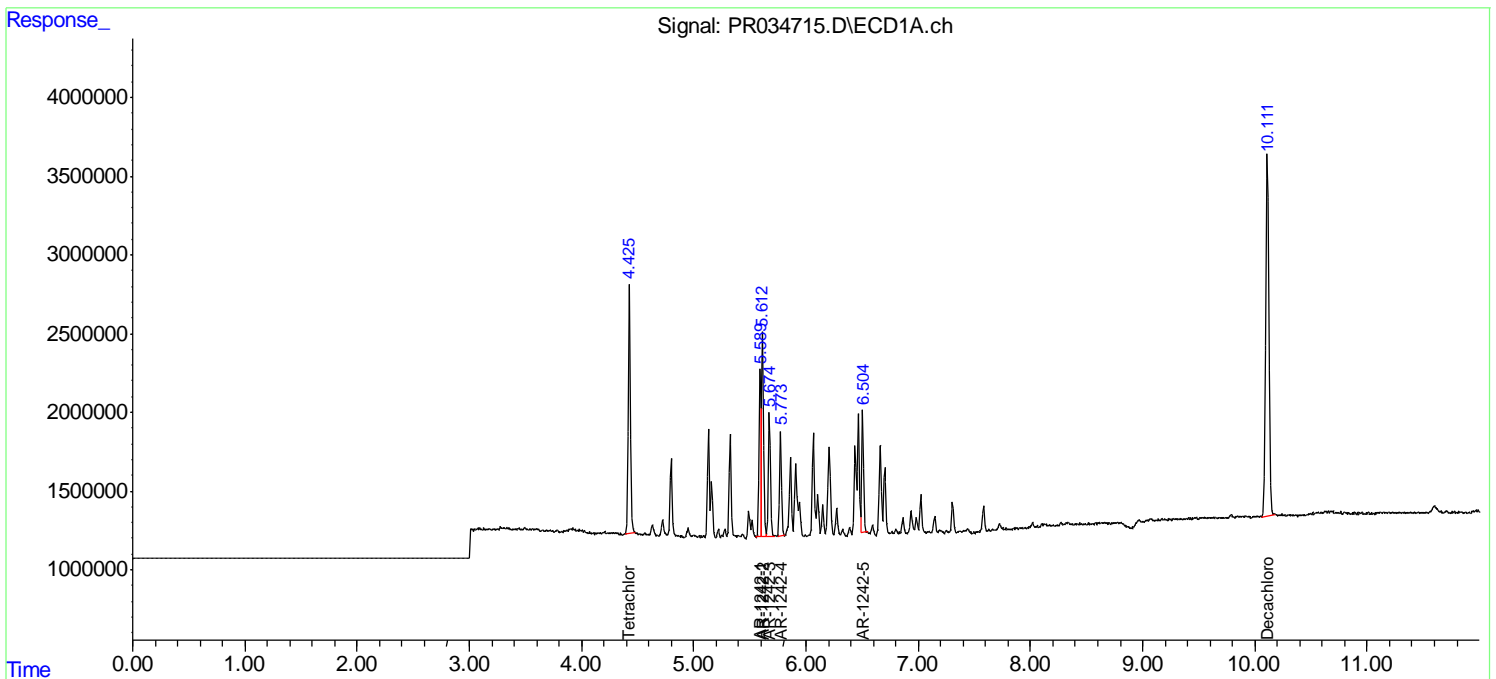
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034715.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:06
 Operator : SM\SJ
 Sample : AR1242ICC200
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:25:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034715.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:06
 Operator : SM\SJ
 Sample : AR1242ICC200
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:25:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.511 | 20674254 | 37194635 | 10.258 | 9.988 |
| 2) SA Decachlor... | 10.111 | 8.415 | 45419405 | 100.7E6 | 21.892 | 21.098 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 11846908 | 22645722 | 218.796 | 213.032 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 16891991 | 33311887 | 213.869 | 206.821 |
| 18) L4 AR-1242-3 | 5.674 | 4.764 | 10151269 | 16822172 | 216.965 | 210.189 |
| 19) L4 AR-1242-4 | 5.773 | 4.845 | 8144757 | 16591814 | 211.736 | 215.647 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 9452224 | 21523837 | 217.686 | 206.040 |

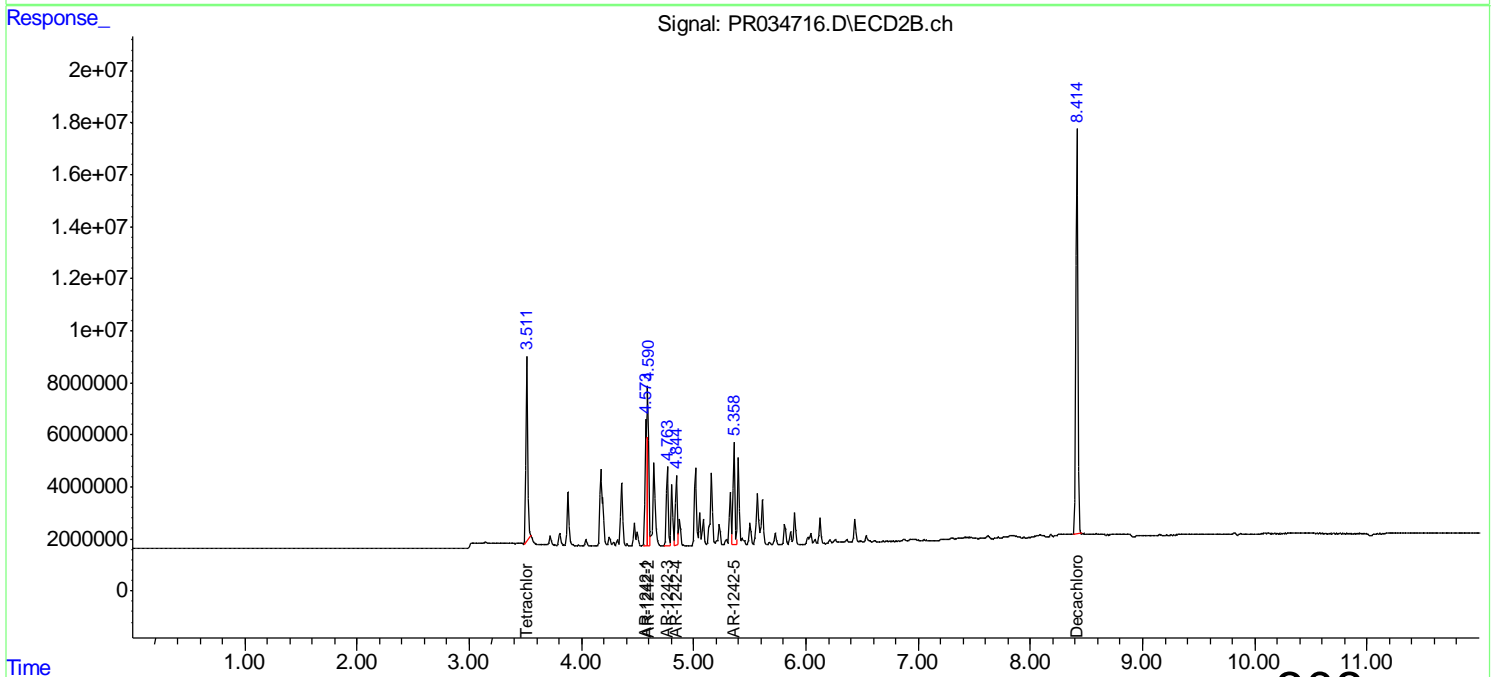
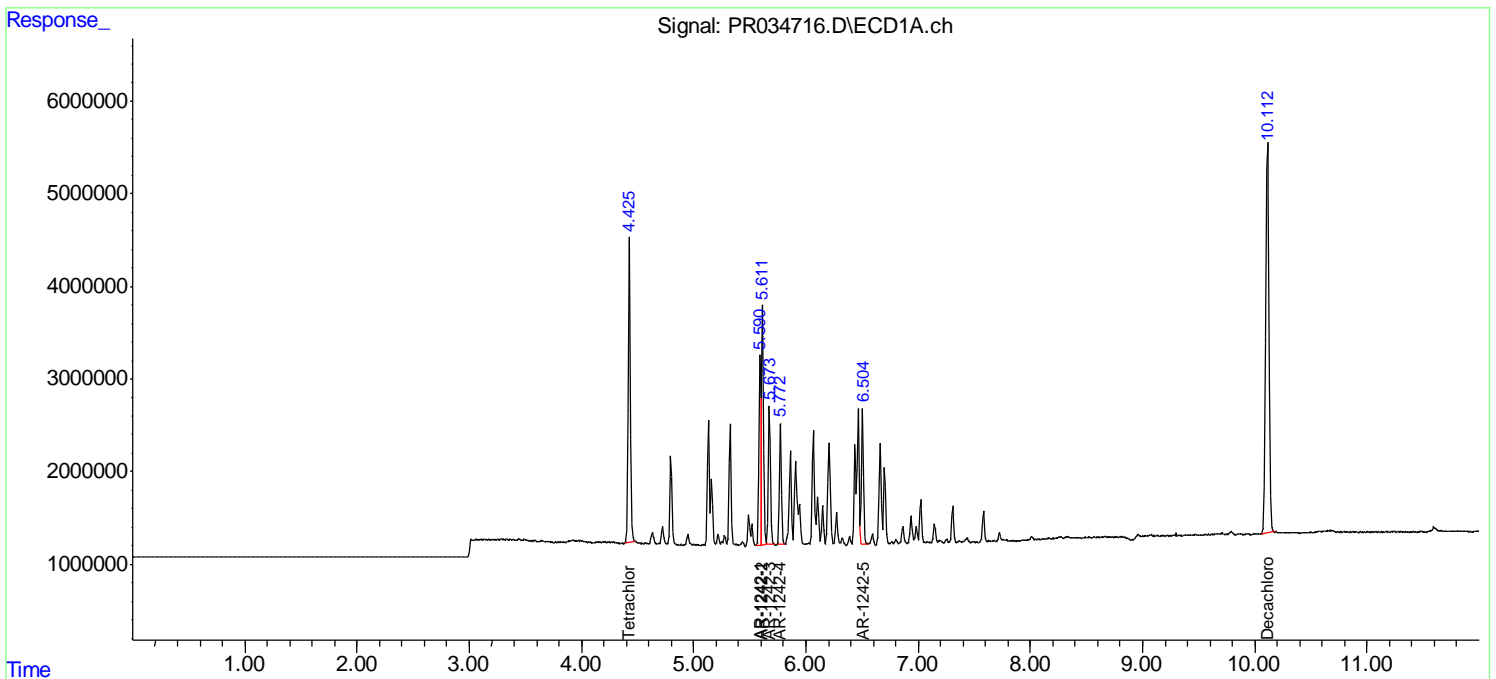
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034716.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:21
 Operator : SM\SJ
 Sample : AR1242ICC400
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:19:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034716.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:21
 Operator : SM\SJ
 Sample : AR1242ICC400
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:19:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 42714962 | 78423145 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.112 | 8.414 | 84689972 | 191.5E6 | 40.000 | 40.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.574 | 22700992 | 44220452 | 400.000 | 400.000 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 33386808 | 67517211 | 400.000 | 400.000 |
| 18) L4 AR-1242-3 | 5.674 | 4.764 | 19792331 | 33364752 | 400.000 | 400.000 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 16286557 | 32248202 | 400.000 | 400.000 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 18156281 | 43533489 | 400.000 | 400.000 |

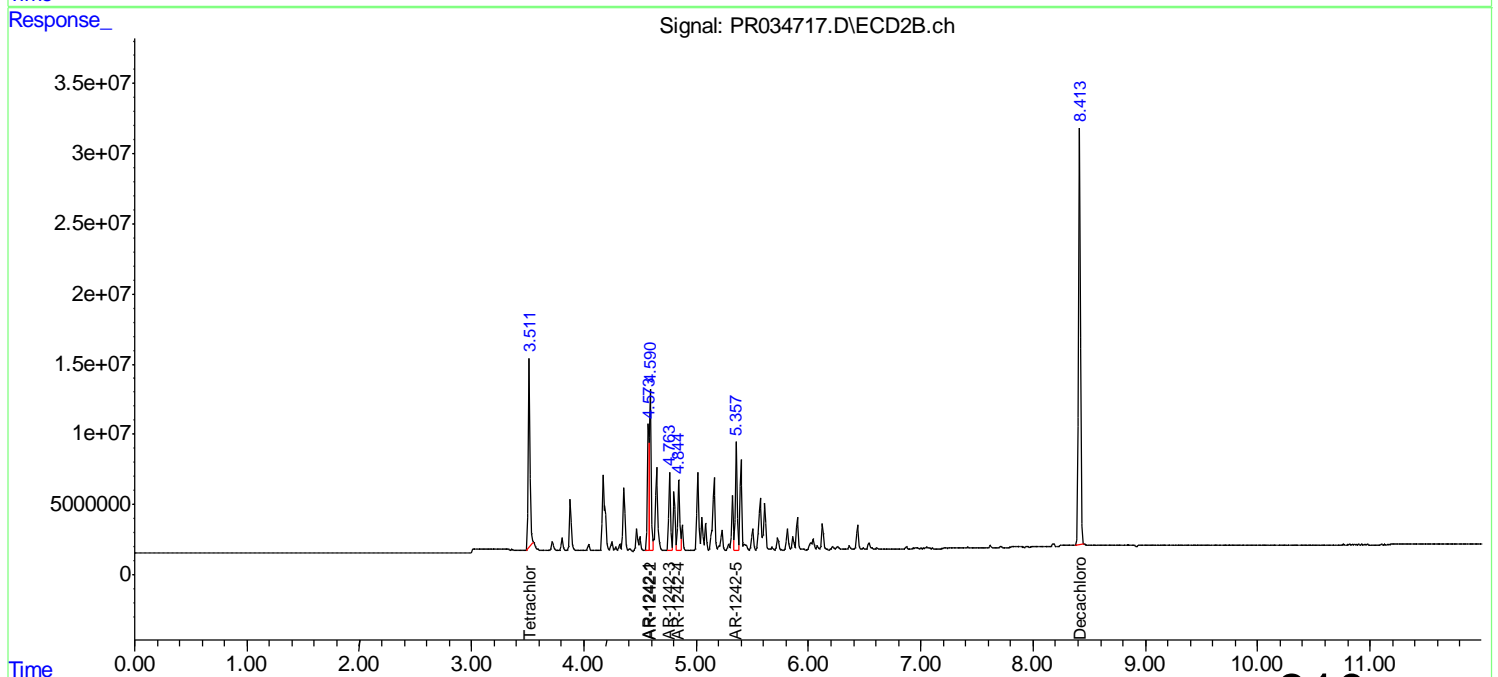
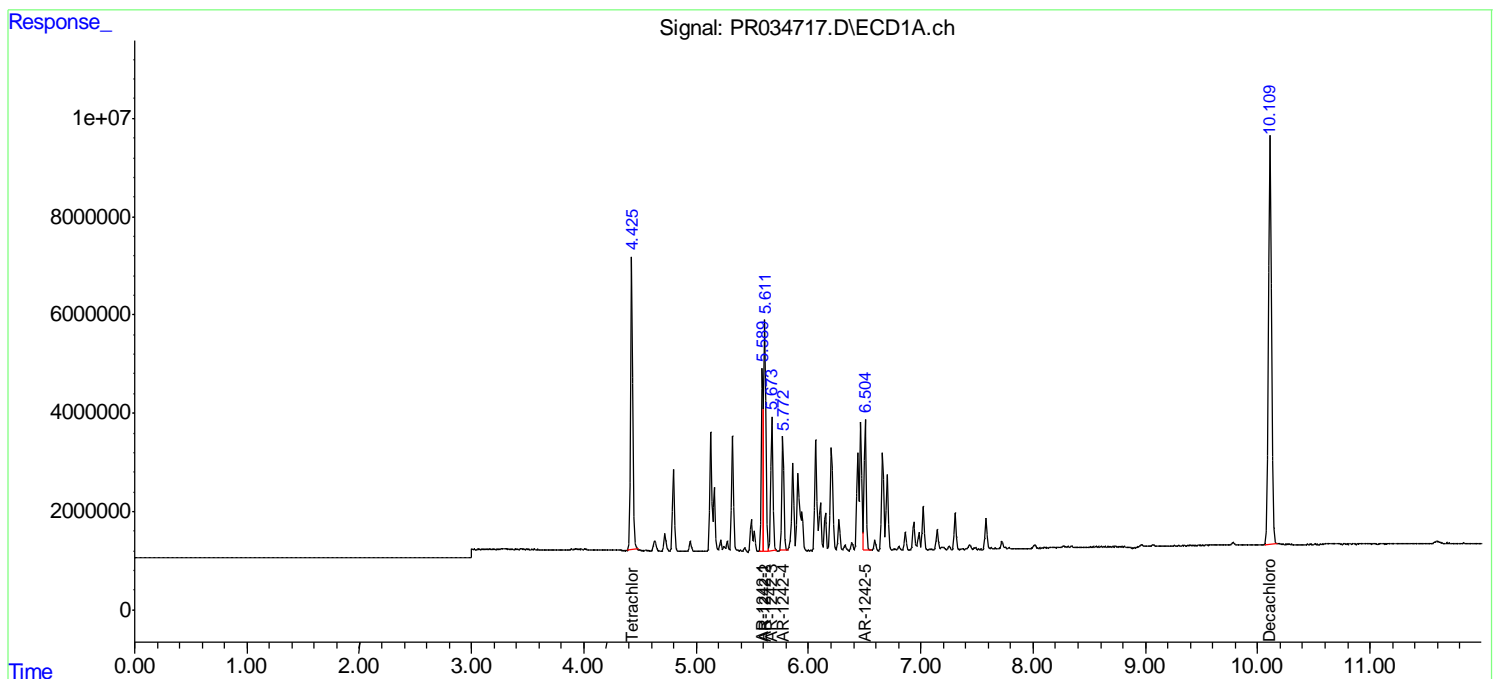
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034717.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:35
 Operator : SM\SJ
 Sample : AR1242ICC800
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:24:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034717.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:35
 Operator : SM\SJ
 Sample : AR1242ICC800
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:24:06 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|---------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 78087304 | 145.9E6 | 39.081 | 39.155 |
| 2) SA Decachlor... | 10.110 | 8.413 | 159.9E6 | 374.9E6 | 79.570 | 80.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 16) L4 AR-1242-1 | 5.590 | 4.573 | 41289669 | 82019474 | 787.225 | 788.701 |
| 17) L4 AR-1242-2 | 5.611 | 4.590 | 60743105 | 125.8E6 | 787.265 | 789.788 |
| 18) L4 AR-1242-3 | 5.674 | 4.763 | 35924006 | 62363916 | 790.150 | 792.681 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 29808960 | 59356362 | 790.390 | 792.121 |
| 20) L4 AR-1242-5 | 6.504 | 5.357 | 33490538 | 82492651 | 794.715 | 797.702 |

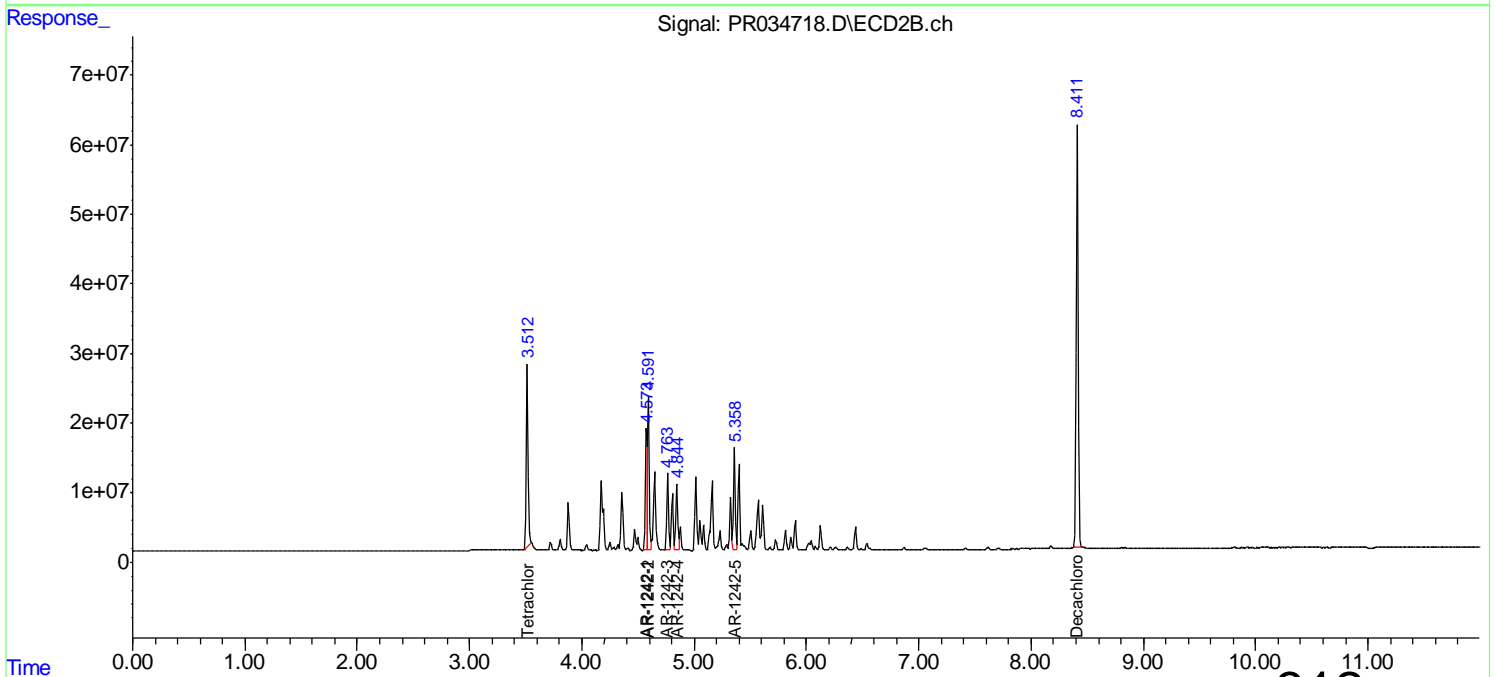
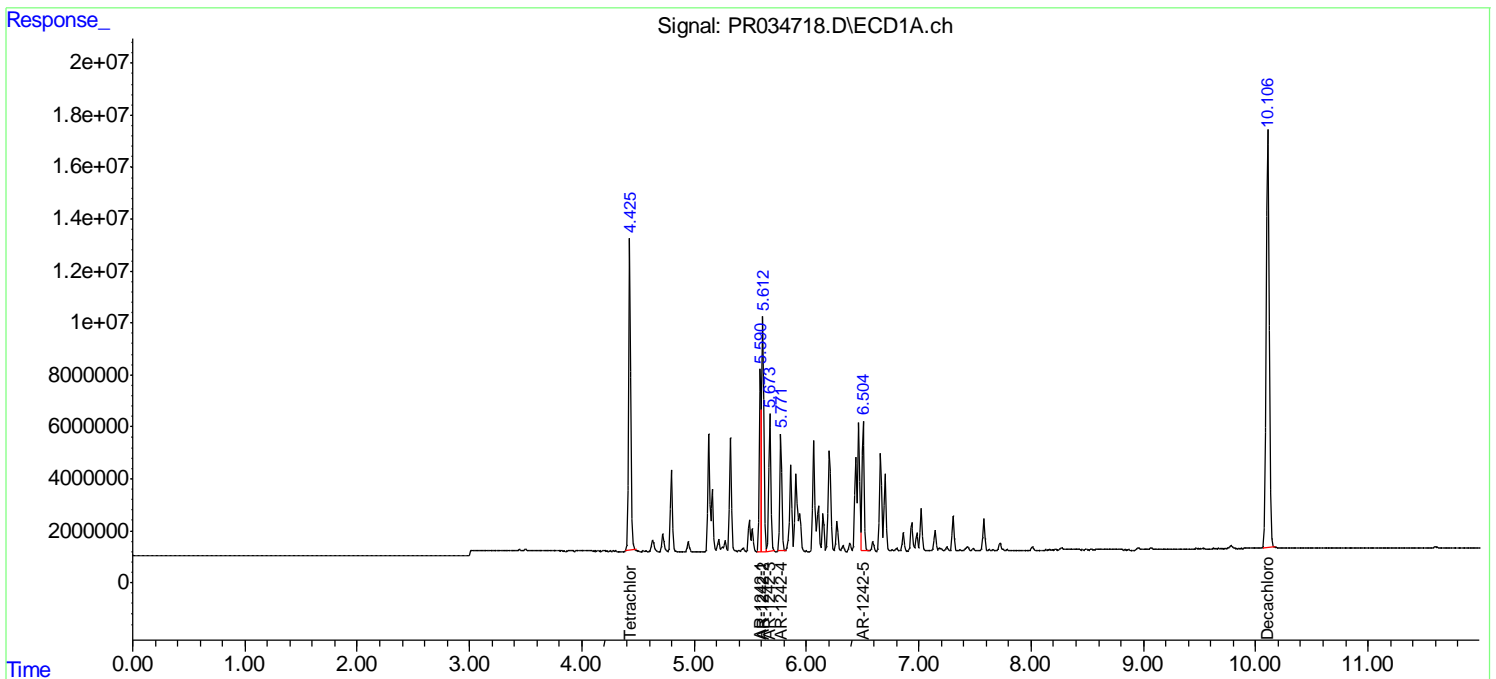
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034718.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:50
 Operator : SM\SJ
 Sample : AR1242ICC1600
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1242501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:22:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034718.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 17:50
 Operator : SM\SJ
 Sample : AR1242IC1600
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:22:05 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:18:27 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|---------|---------|---------|---------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 152.5E6 | 288.7E6 | 75.458 | 76.679 |
| 2) SA Decachlor... | 10.107 | 8.411 | 305.9E6 | 733.6E6 | 151.856 | 156.565 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|---------|----------|----------|
| 16) L4 AR-1242-1 | 5.590 | 4.574 | 78375003 | 158.2E6 | 1482.454 | 1511.030 |
| 17) L4 AR-1242-2 | 5.612 | 4.591 | 115.3E6 | 242.7E6 | 1482.822 | 1514.724 |
| 18) L4 AR-1242-3 | 5.673 | 4.763 | 67213626 | 119.5E6 | 1469.321 | 1511.383 |
| 19) L4 AR-1242-4 | 5.772 | 4.845 | 56264135 | 112.0E6 | 1482.948 | 1487.004 |
| 20) L4 AR-1242-5 | 6.504 | 5.358 | 62673269 | 157.3E6 | 1482.312 | 1518.544 |

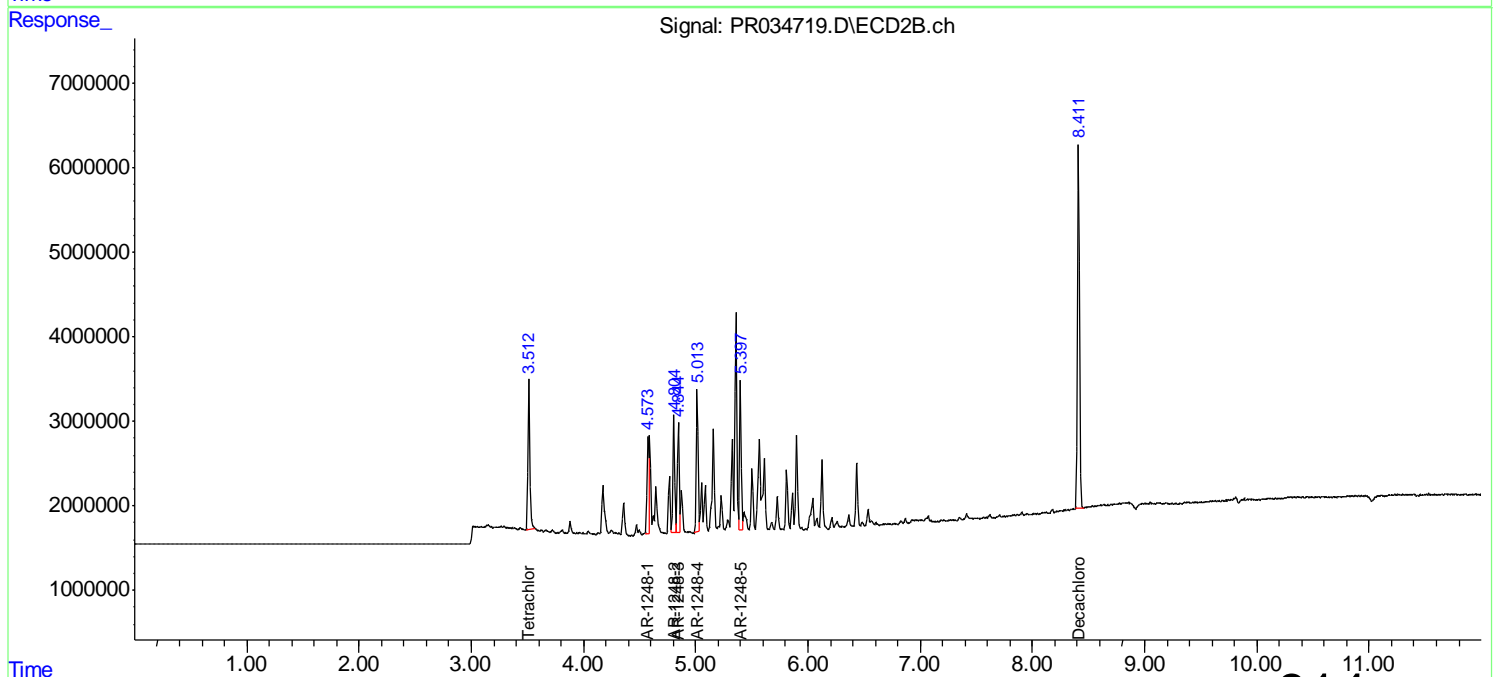
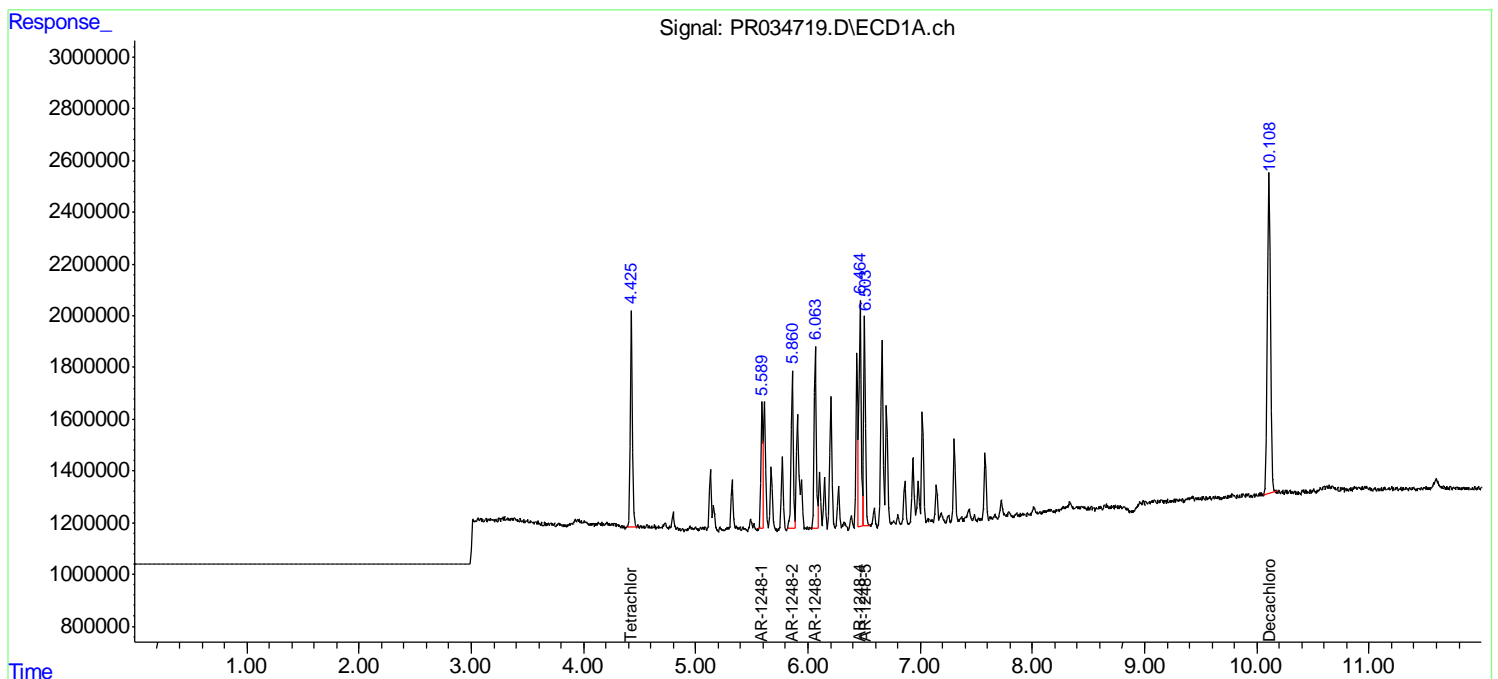
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034719.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 18:04
Operator : SM\SJ
Sample : AR1248ICC100
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1248101

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:14:24 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034719.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:04
 Operator : SM\SJ
 Sample : AR1248ICC100
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:14:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 10596509 | 20558008 | 5.494 | 5.416 |
| 2) SA Decachlor... | 10.108 | 8.411 | 24260173 | 53497263 | 11.773 | 11.353 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 5644615 | 11395924 | 116.330 | 116.879 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 7855188 | 15037956 | 118.886 | 117.390 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 8662803 | 15483188 | 115.945 | 117.317 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 10758858 | 19225969 | 120.418 | 116.854 |
| 25) L5 AR-1248-5 | 6.503 | 5.397 | 9998215 | 19197784 | 119.498 | 114.712 |
| ----- | | | | | | |

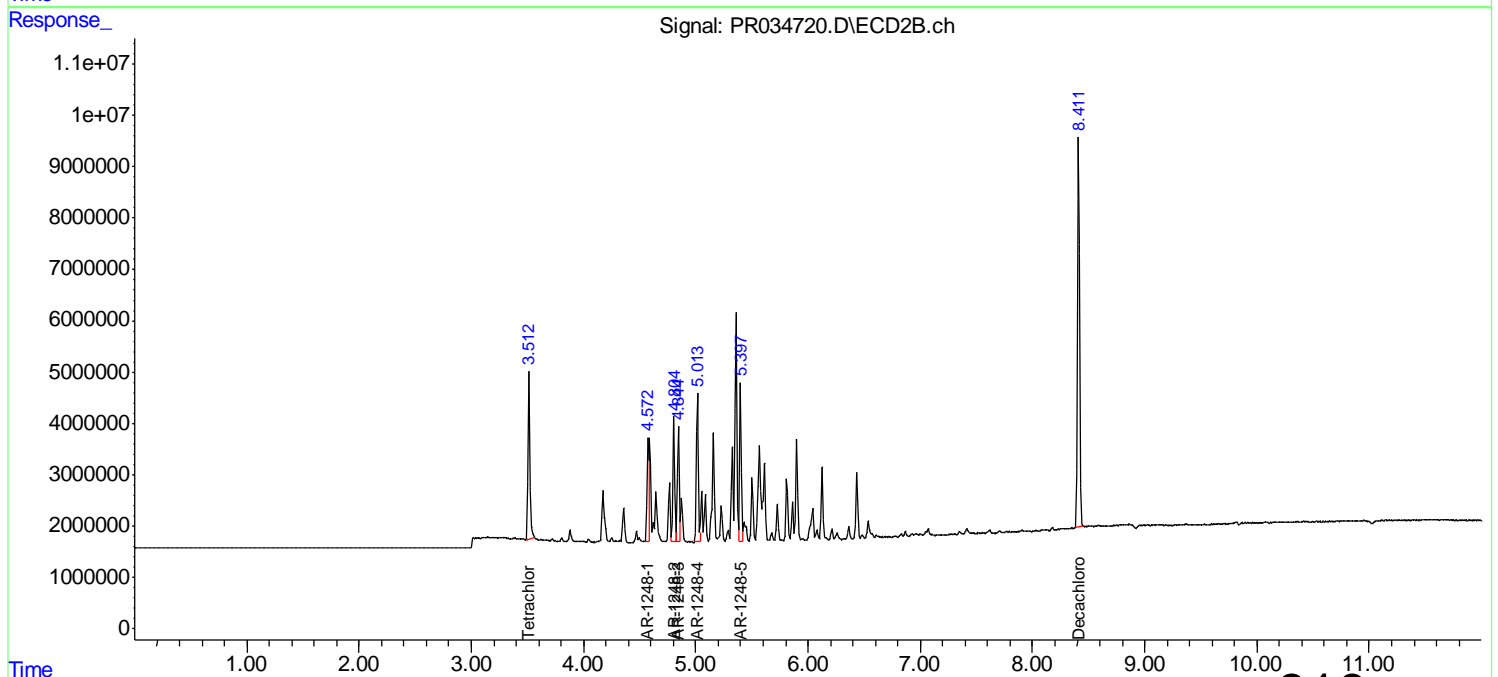
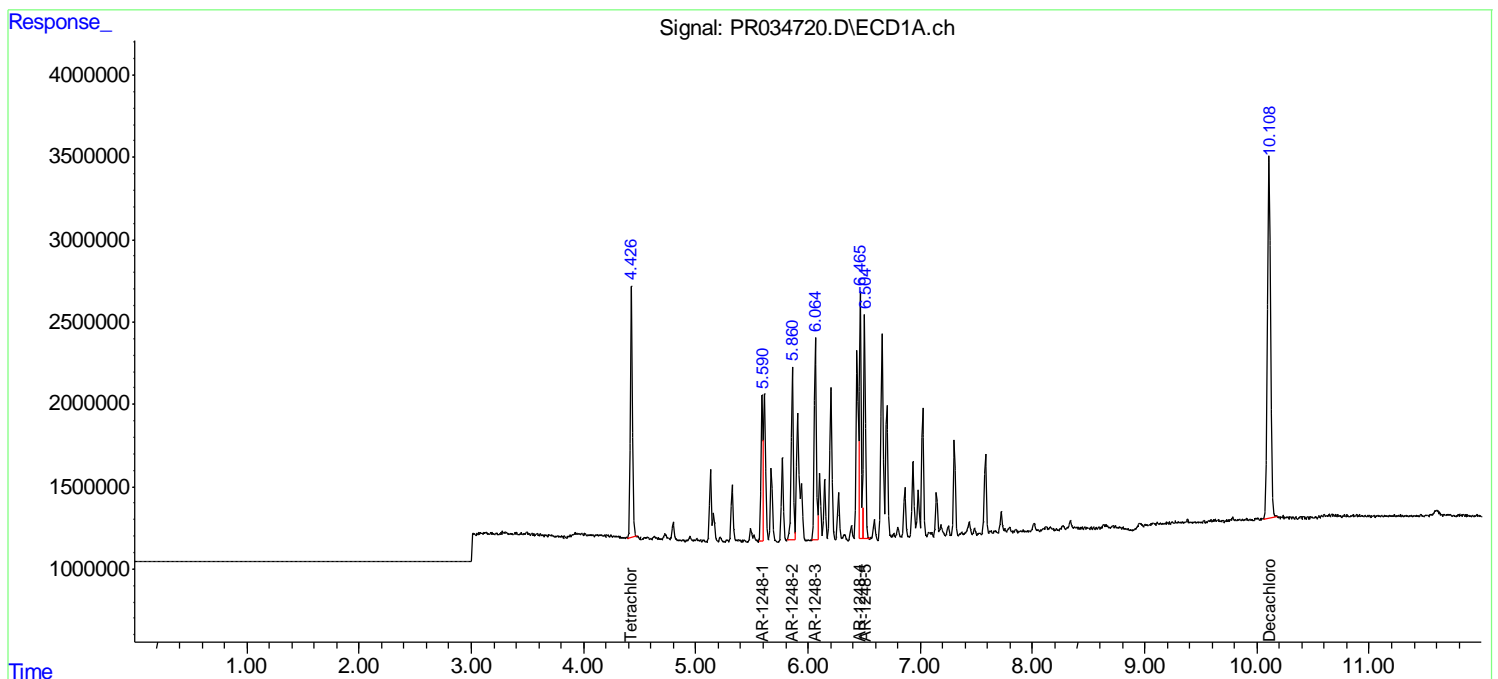
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034720.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:19
 Operator : SM\SJ
 Sample : AR1248ICC200
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:12:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034720.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:19
 Operator : SM\SJ
 Sample : AR1248ICC200
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:12:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 19311458 | 37756266 | 10.265 | 10.158 |
| 2) SA Decachlor... | 10.108 | 8.411 | 43120556 | 95868504 | 21.895 | 21.058 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.573 | 10133677 | 19891589 | 217.733 | 213.001 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 13756929 | 26257104 | 218.524 | 214.286 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 15539016 | 27015510 | 216.612 | 213.961 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 18532275 | 33310678 | 218.579 | 211.365 |
| 25) L5 AR-1248-5 | 6.503 | 5.398 | 17145706 | 33799587 | 215.426 | 209.675 |

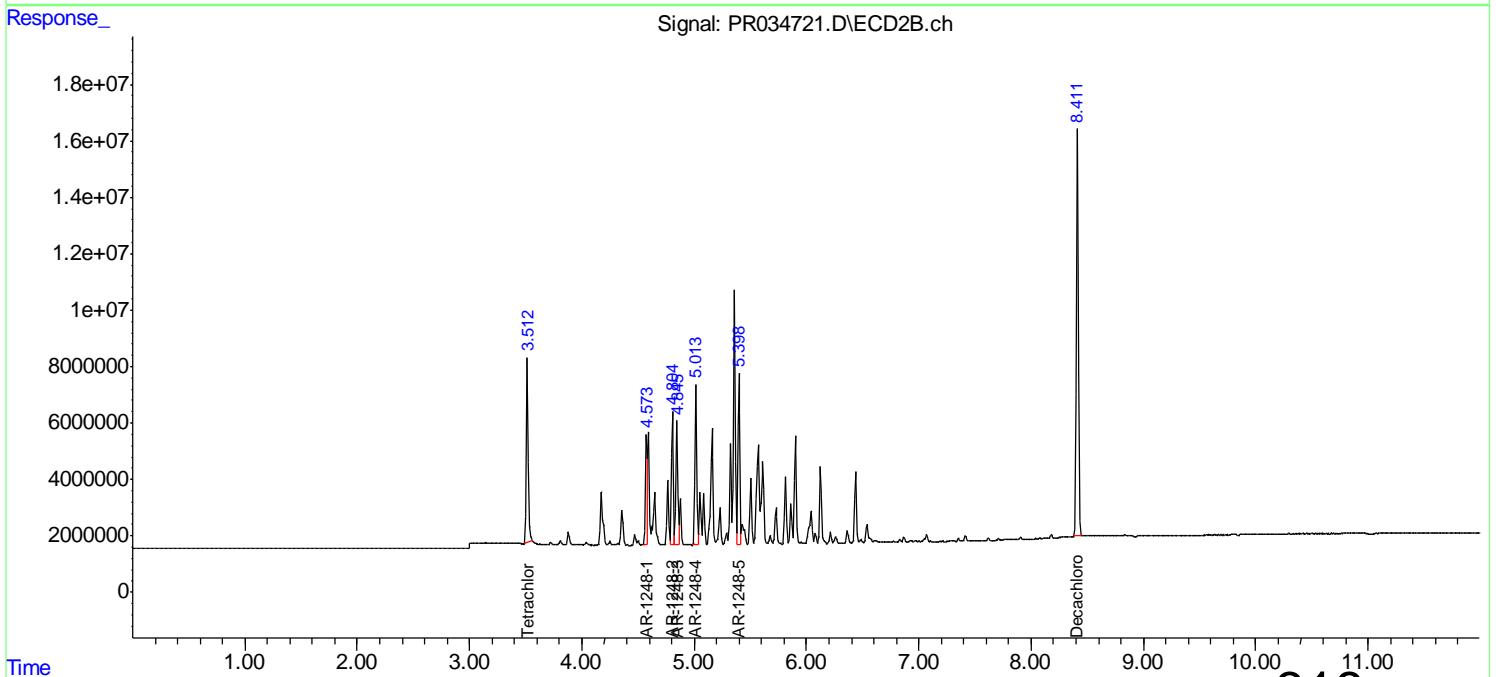
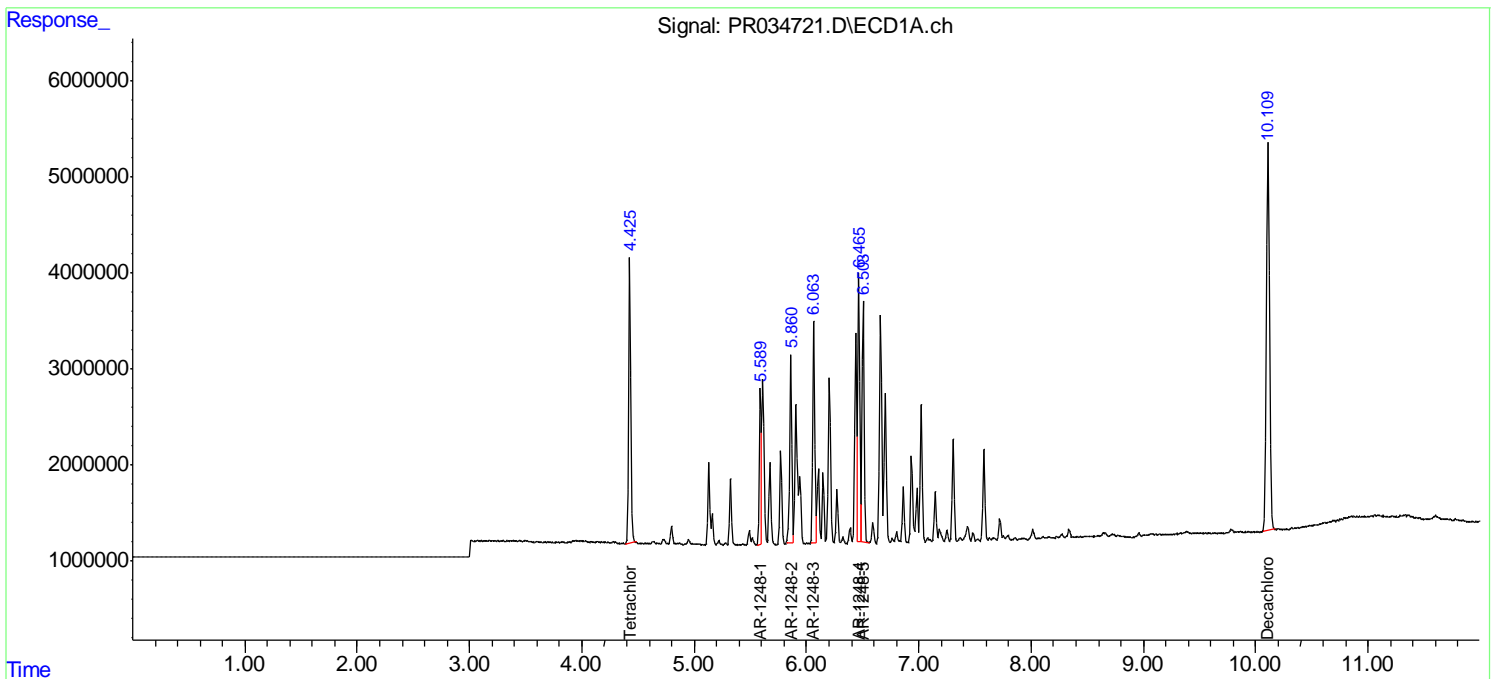
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034721.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 18:33
Operator : SM\SJ
Sample : AR1248ICC400
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_R
Client Sampled :
AR1248301

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:07:02 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034721.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:33
 Operator : SM\SJ
 Sample : AR1248ICC400
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:07:02 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.513 | 37883389 | 74840055 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.109 | 8.412 | 79948328 | 182.6E6 | 40.000 | 40.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 21) L5 AR-1248-1 | 5.590 | 4.574 | 19157578 | 38224589 | 400.000 | 400.000 |
| 22) L5 AR-1248-2 | 5.861 | 4.805 | 25866591 | 50143822 | 400.000 | 400.000 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 29369639 | 51644058 | 400.000 | 400.000 |
| 24) L5 AR-1248-4 | 6.466 | 5.014 | 34666634 | 64194126 | 400.000 | 400.000 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 32656350 | 65507192 | 400.000 | 400.000 |

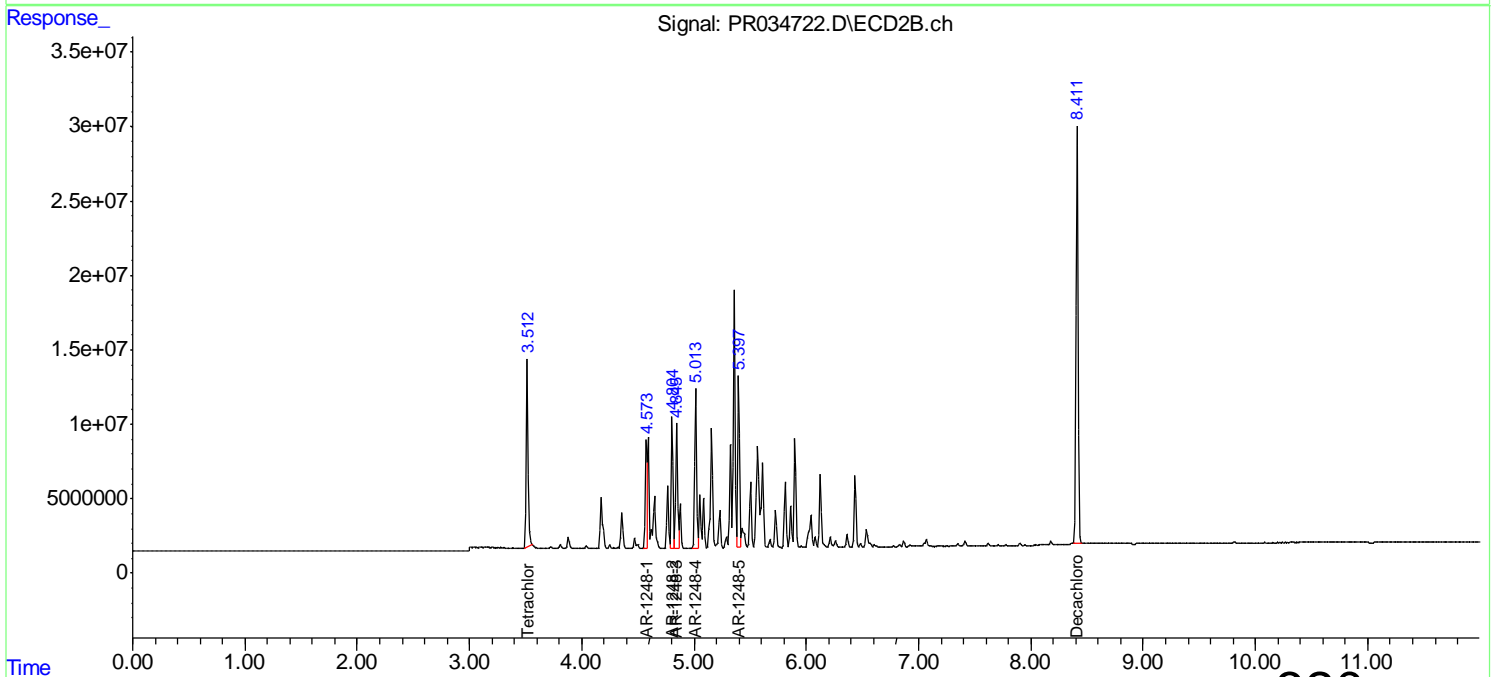
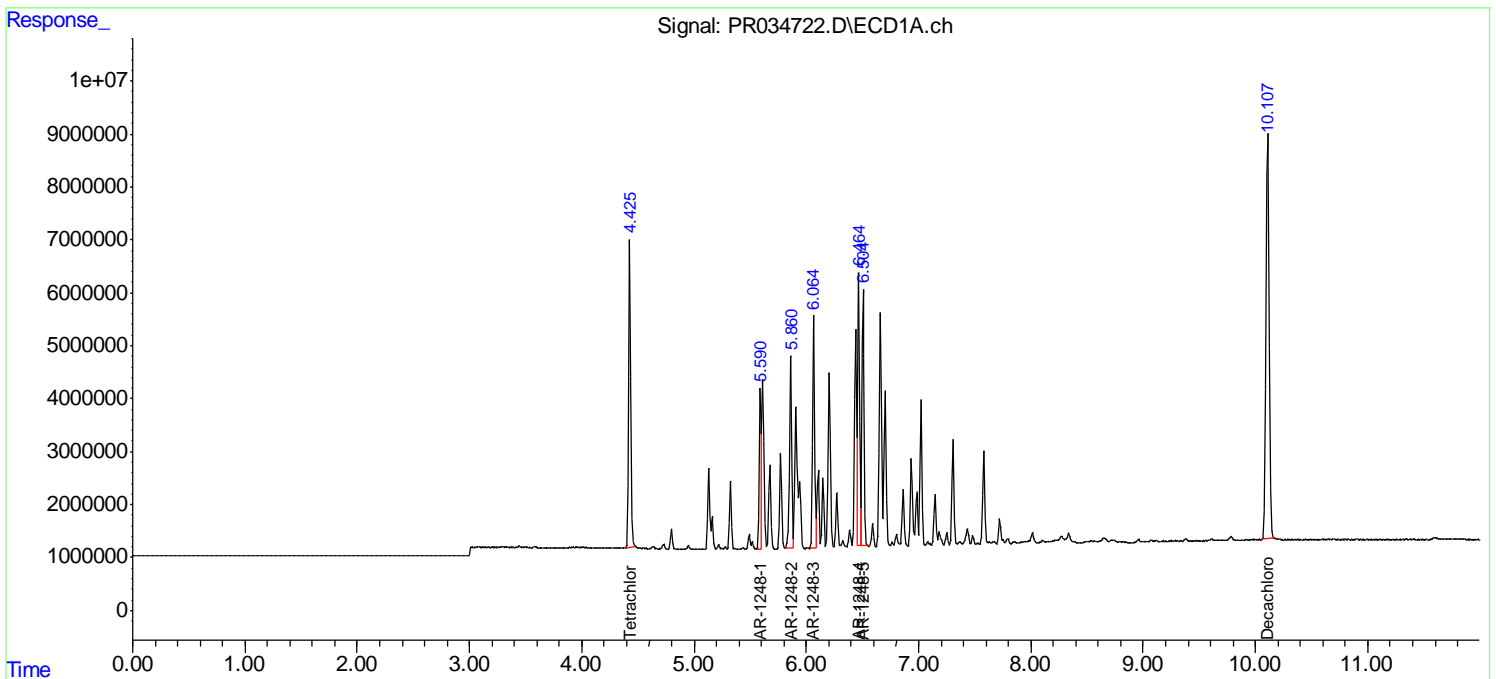
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034722.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:48
 Operator : SM\SJ
 Sample : AR1248ICC800
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:10:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034722.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 18:48
 Operator : SM\SJ
 Sample : AR1248ICC800
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:10:26 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.513 | 73168560 | 144.5E6 | 39.241 | 39.073 |
| 2) SA Decachlor... | 10.107 | 8.411 | 150.2E6 | 353.4E6 | 78.738 | 79.008 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.590 | 4.574 | 35430871 | 71878621 | 784.455 | 786.730 |
| 22) L5 AR-1248-2 | 5.861 | 4.805 | 48064469 | 94073990 | 787.809 | 786.469 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 54977024 | 97033054 | 788.196 | 786.804 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 64894647 | 121.8E6 | 789.858 | 787.716 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 61299364 | 125.1E6 | 790.516 | 788.760 |
| ----- | | | | | | |

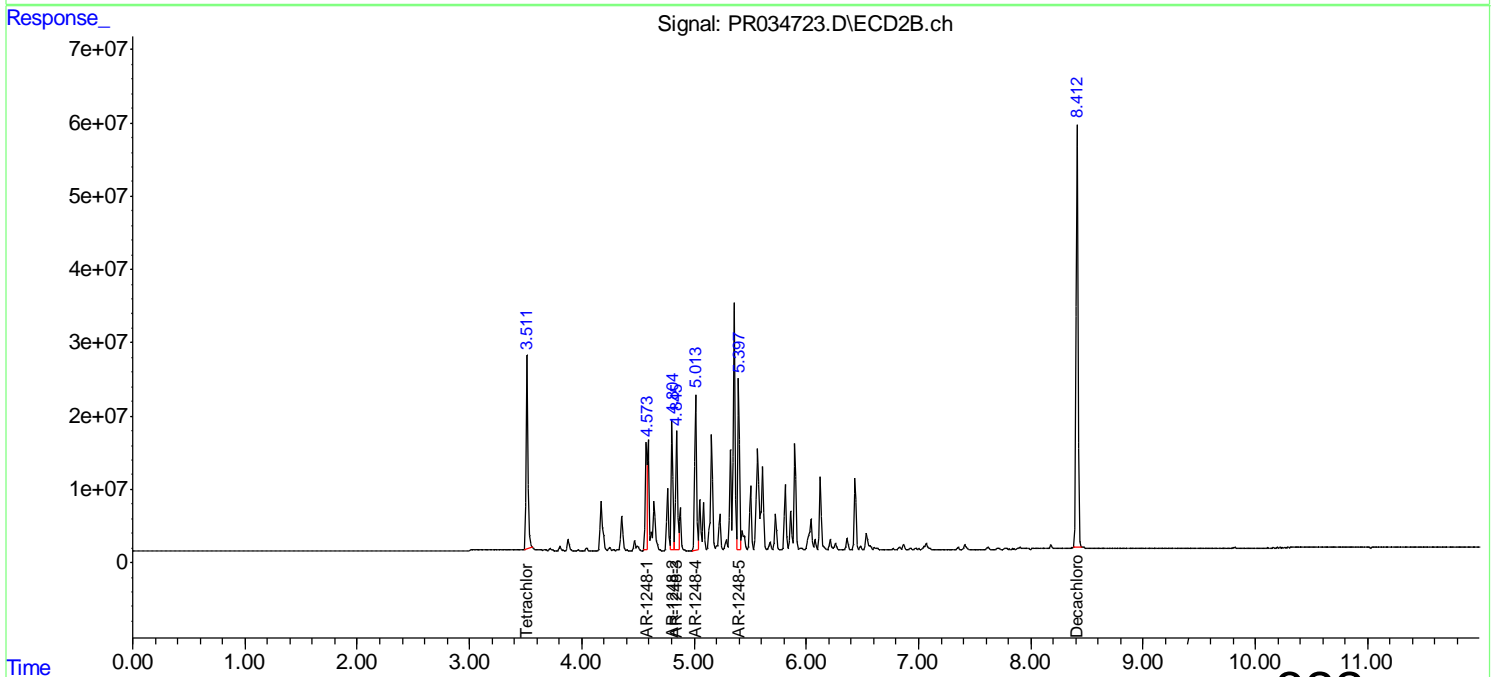
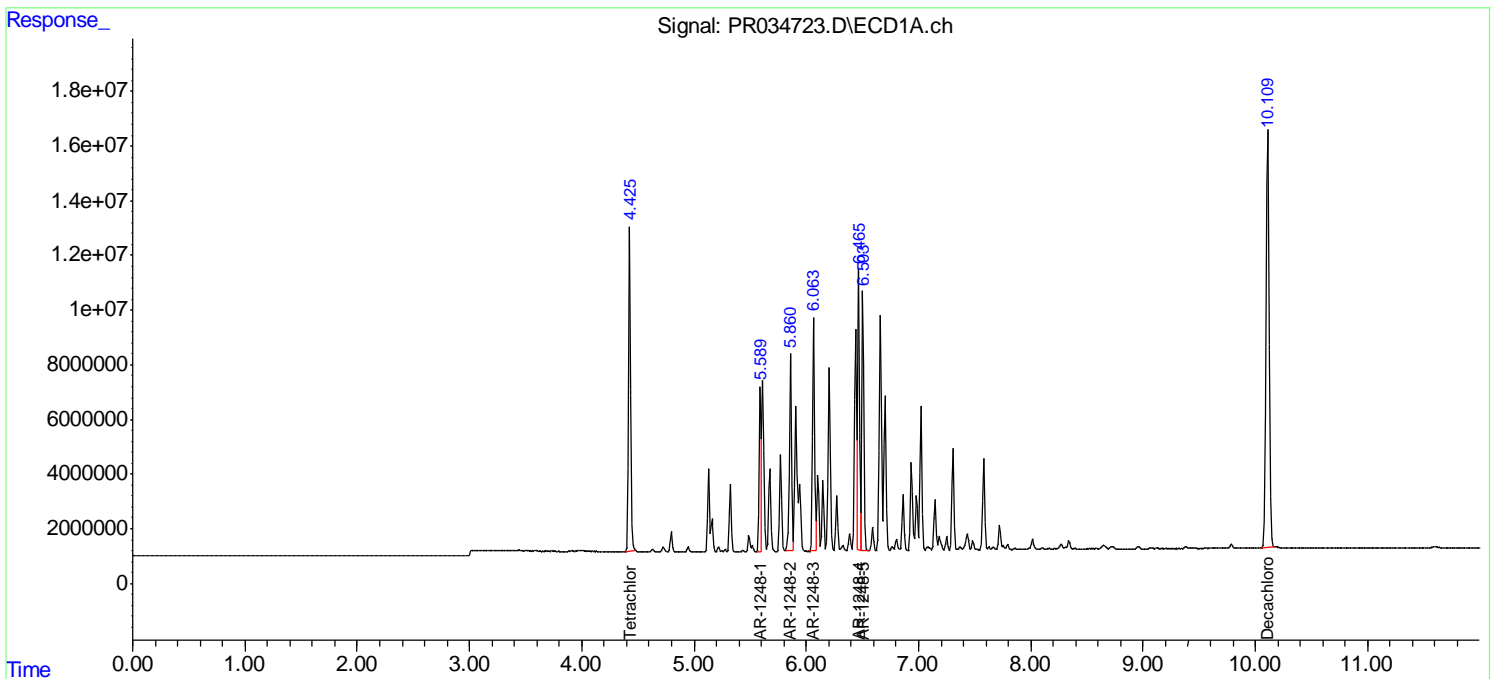
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034723.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:02
 Operator : SM\SJ
 Sample : AR1248ICC1600
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:08:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034723.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:02
 Operator : SM\SJ
 Sample : AR1248IC1600
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AR1248501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:08:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:05:53 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|---------|---------|---------|---------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 149.6E6 | 299.1E6 | 79.495 | 79.960 |
| 2) SA Decachlor... | 10.109 | 8.412 | 295.3E6 | 709.6E6 | 153.636 | 157.690 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|---------|----------|----------|
| 21) L5 AR-1248-1 | 5.589 | 4.573 | 69305721 | 141.9E6 | 1519.695 | 1540.253 |
| 22) L5 AR-1248-2 | 5.860 | 4.804 | 93254286 | 185.4E6 | 1516.941 | 1537.231 |
| 23) L5 AR-1248-3 | 6.064 | 4.845 | 107.4E6 | 191.3E6 | 1528.067 | 1538.653 |
| 24) L5 AR-1248-4 | 6.465 | 5.013 | 125.9E6 | 241.8E6 | 1522.867 | 1551.882 |
| 25) L5 AR-1248-5 | 6.504 | 5.398 | 119.0E6 | 249.1E6 | 1525.383 | 1559.399 |

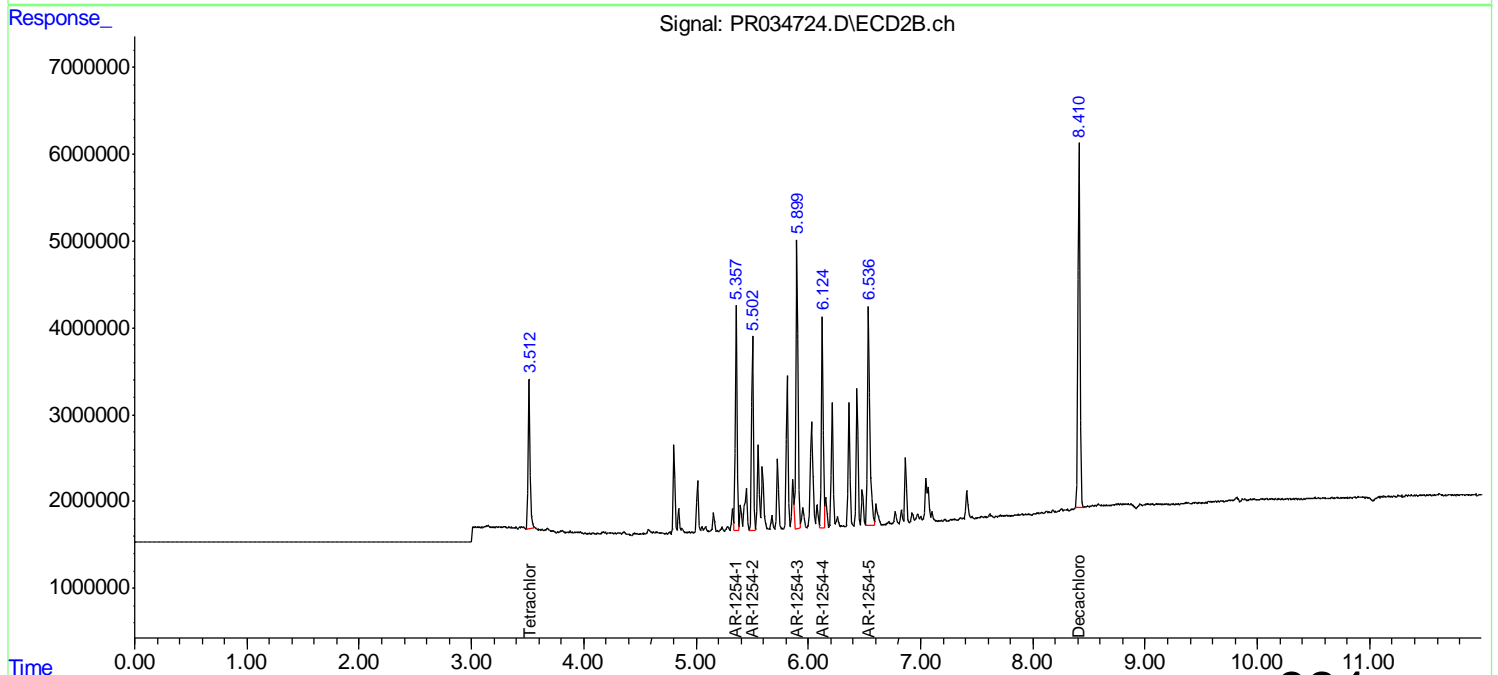
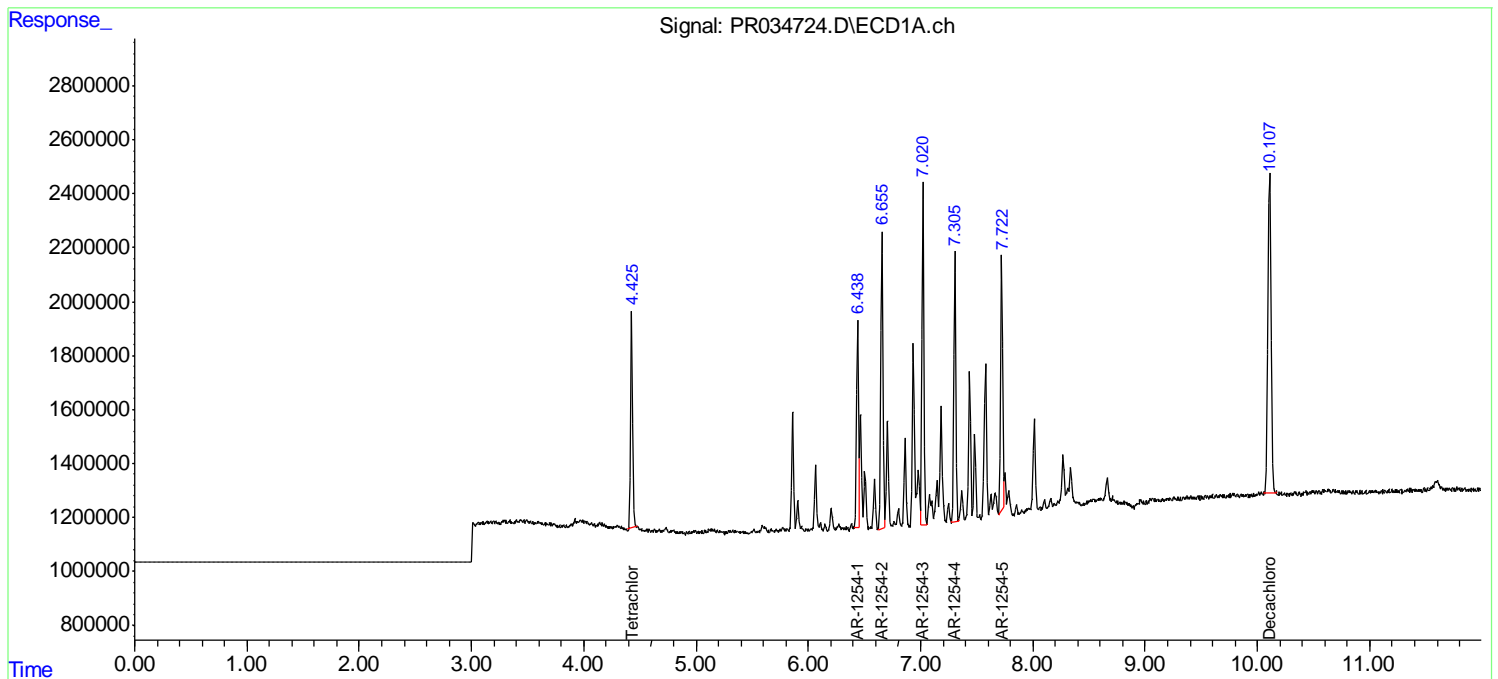
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034724.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 19:16
Operator : SM\SJ
Sample : AR1254ICC100
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1254101

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:01:58 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 00:54:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034724.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:16
 Operator : SM\SJ
 Sample : AR1254ICC100
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:01:58 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 9917849 | 20124920 | 5.214 | 5.296 |
| 2) SA Decachlor... | 10.108 | 8.410 | 23774976 | 53197664 | 11.680 | 11.314 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 26) L6 AR-1254-1 | 6.438 | 5.357 | 9594718 | 28148025 | 117.431 | 115.034 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 15097550 | 24673536 | 118.156 | 116.007 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 15713416 | 40291379 | 116.420 | 112.760 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 12474953 | 27181959 | 117.602 | 115.085 |
| 30) L6 AR-1254-5 | 7.722 | 6.536 | 12077306 | 36150322 | 112.721 | 113.345 |

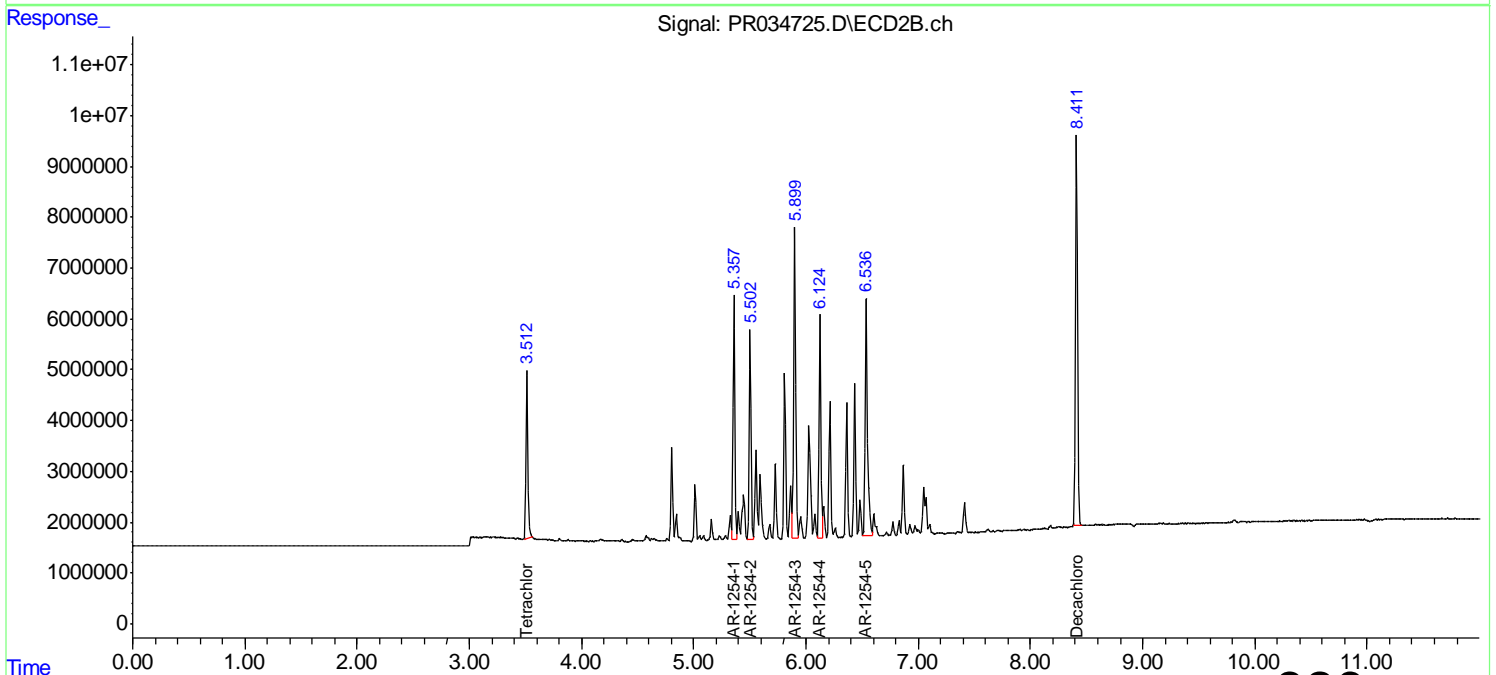
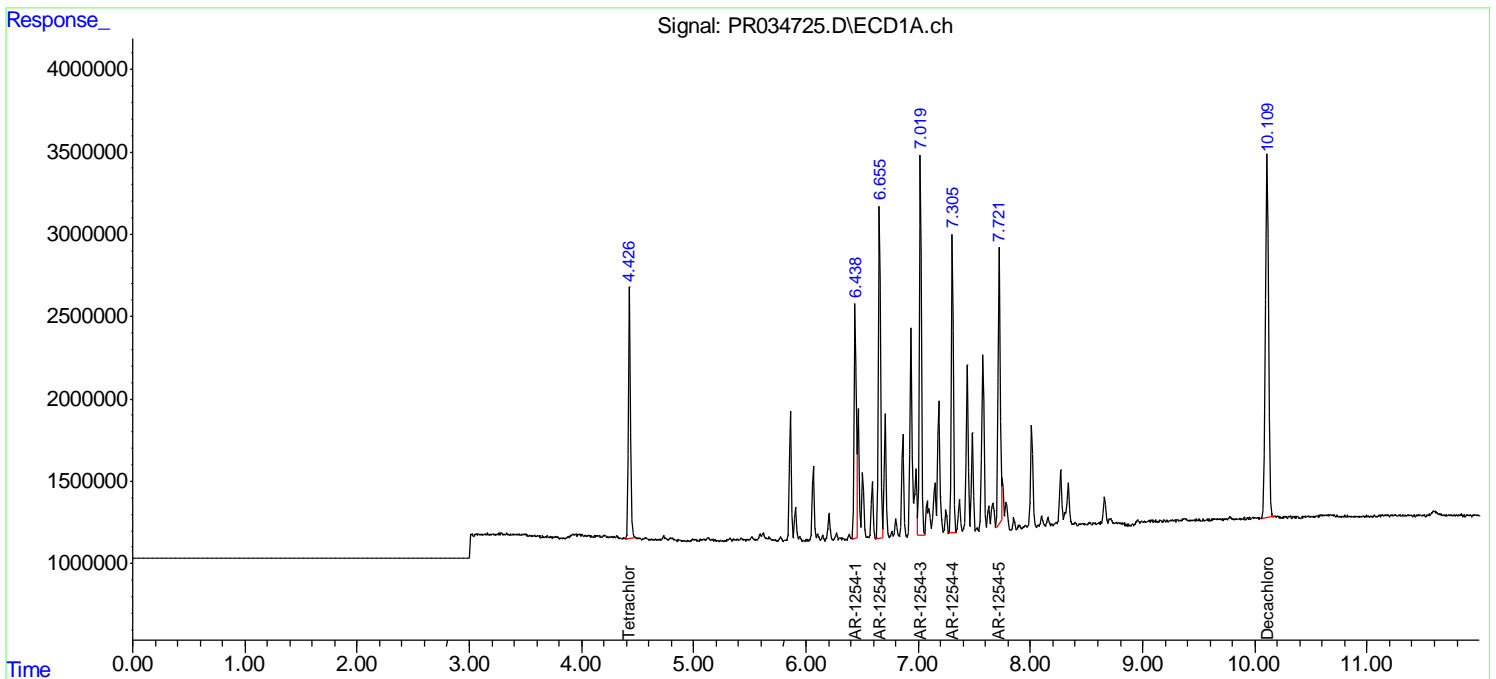
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034725.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:31
 Operator : SM\SJ
 Sample : AR1254ICC200
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:00:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034725.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:31
 Operator : SM\SJ
 Sample : AR1254ICC200
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254201

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:00:18 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.426 | 3.512 | 19299483 | 38193886 | 10.255 | 10.201 |
| 2) SA Decachlor... | 10.109 | 8.411 | 43361128 | 97755901 | 22.236 | 21.497 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 26) L6 AR-1254-1 | 6.438 | 5.358 | 17586853 | 51686350 | 225.056 | 219.478 |
| 27) L6 AR-1254-2 | 6.655 | 5.503 | 27347956 | 44974477 | 224.206 | 220.271 |
| 28) L6 AR-1254-3 | 7.020 | 5.900 | 28691835 | 74827474 | 221.676 | 216.315 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 22682673 | 49638863 | 223.673 | 218.401 |
| 30) L6 AR-1254-5 | 7.721 | 6.536 | 22298376 | 67175070 | 214.953 | 217.888 |

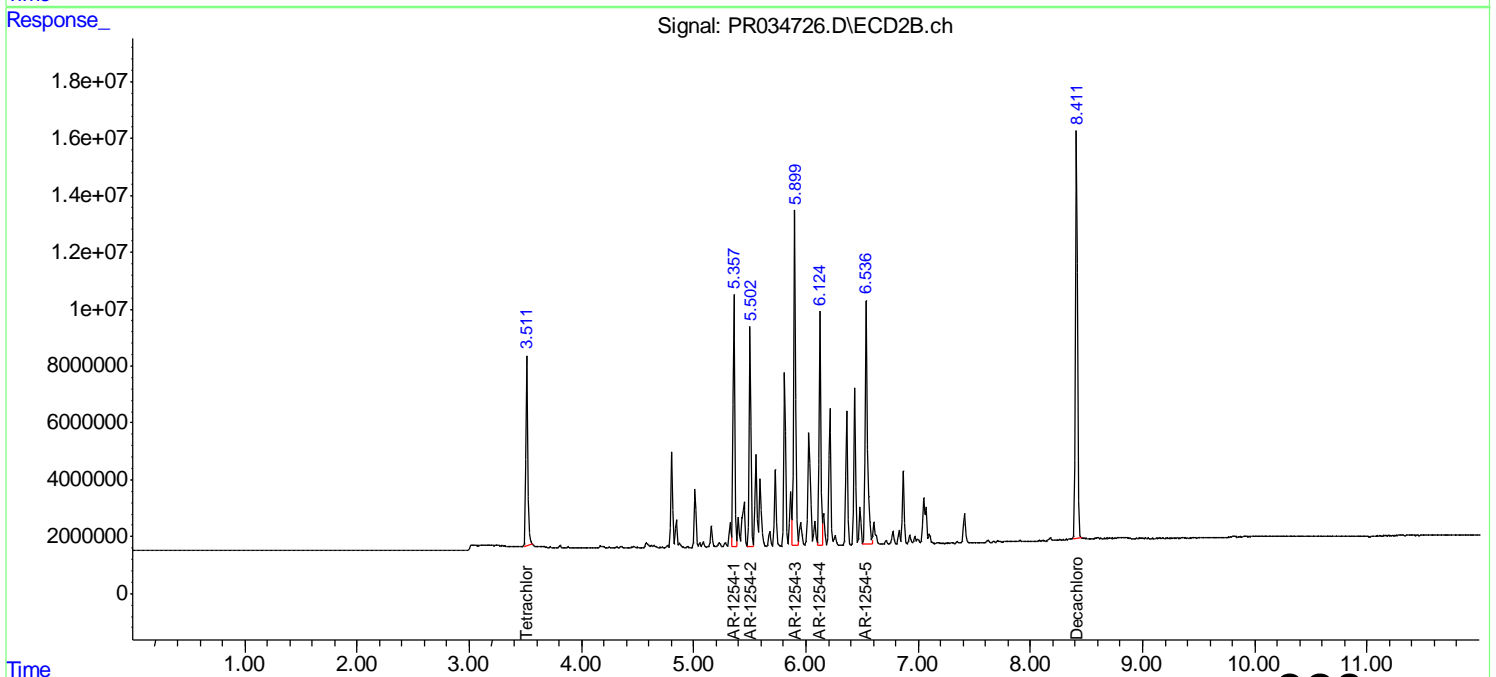
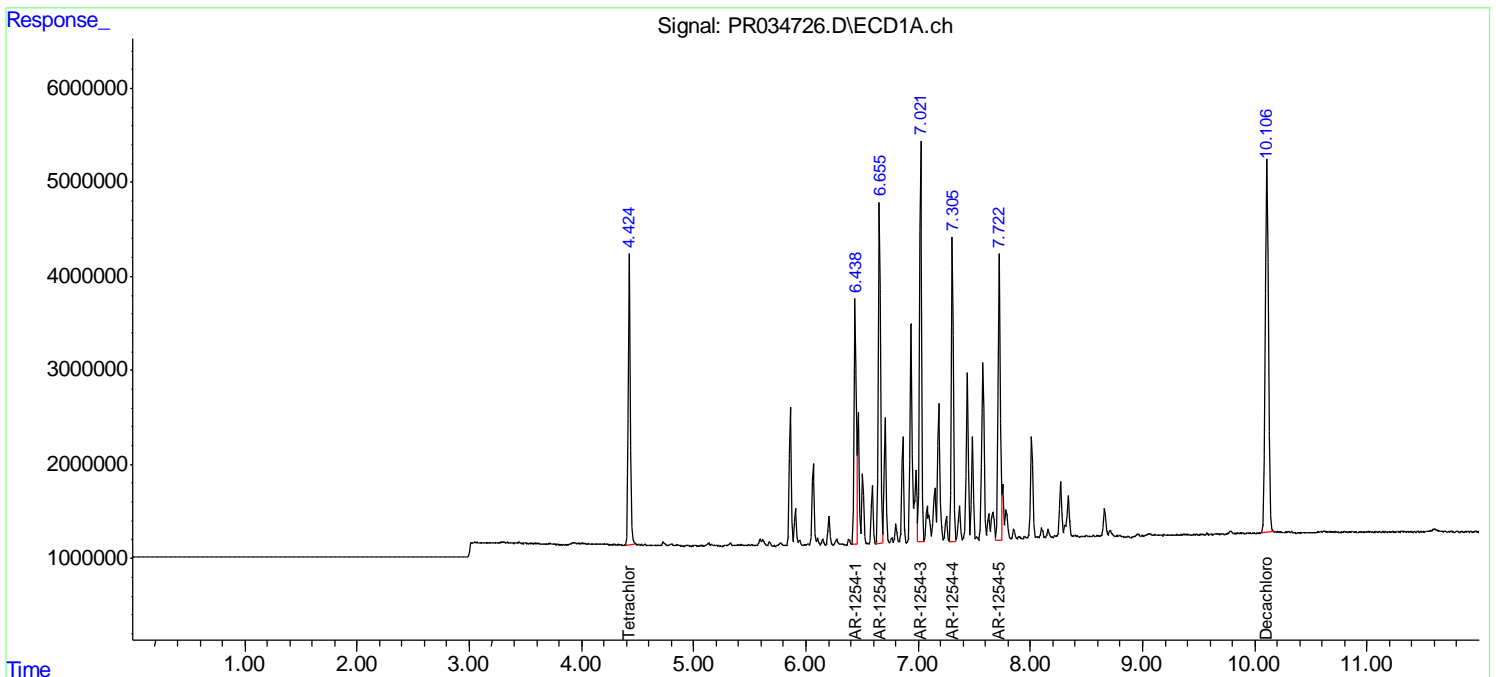
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034726.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:45
 Operator : SM\SJ
 Sample : AR1254ICC400
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:55:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034726.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 19:45
 Operator : SM\SJ
 Sample : AR1254ICC400
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254301

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:55:01 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 39657624 | 78345289 | 20.000 | 20.000 |
| 2) SA Decachlor... | 10.107 | 8.411 | 78338617 | 180.2E6 | 40.000 | 40.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 26) L6 AR-1254-1 | 6.439 | 5.357 | 32352687 | 96735032 | 400.000 | 400.000 |
| 27) L6 AR-1254-2 | 6.655 | 5.503 | 49917162 | 82874415 | 400.000 | 400.000 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 52218701 | 138.2E6 | 400.000 | 400.000 |
| 29) L6 AR-1254-4 | 7.305 | 6.125 | 41002519 | 90058057 | 400.000 | 400.000 |
| 30) L6 AR-1254-5 | 7.722 | 6.537 | 41963439 | 121.5E6 | 400.000 | 400.000 |

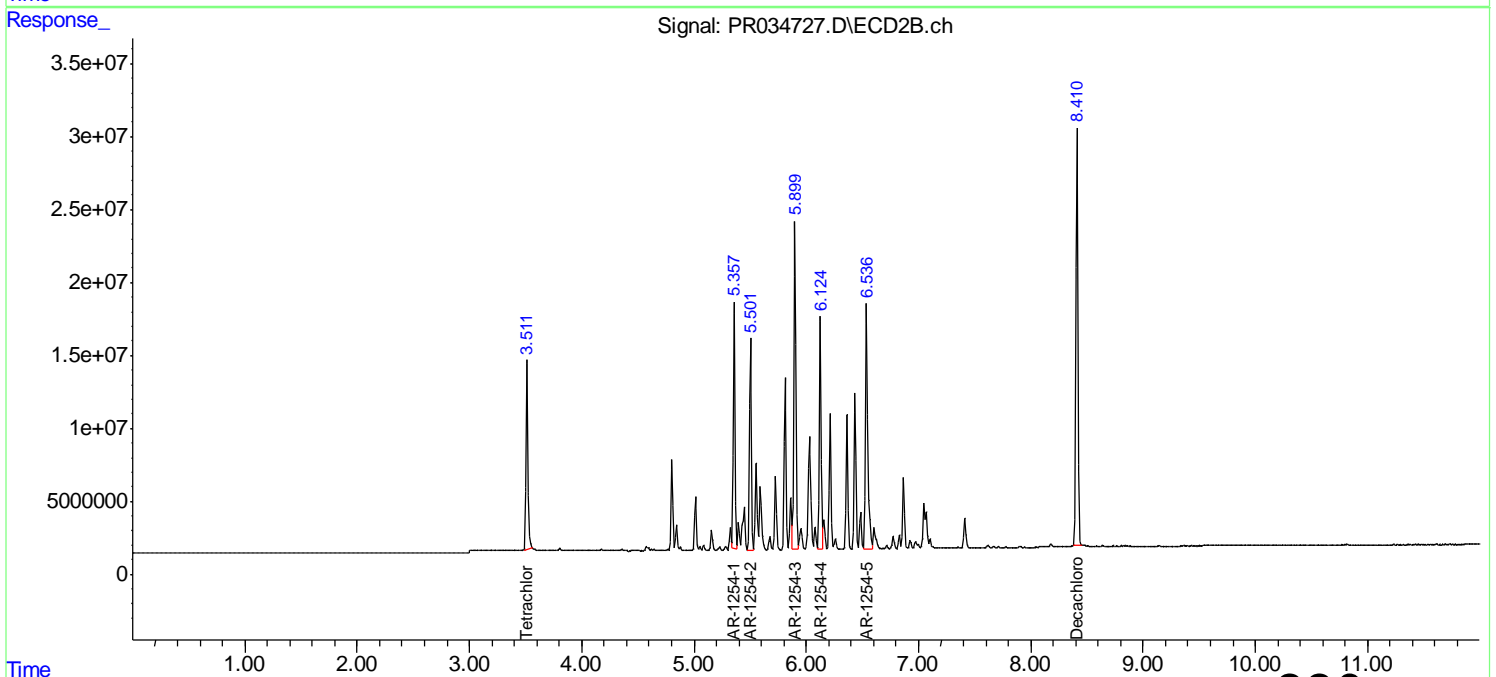
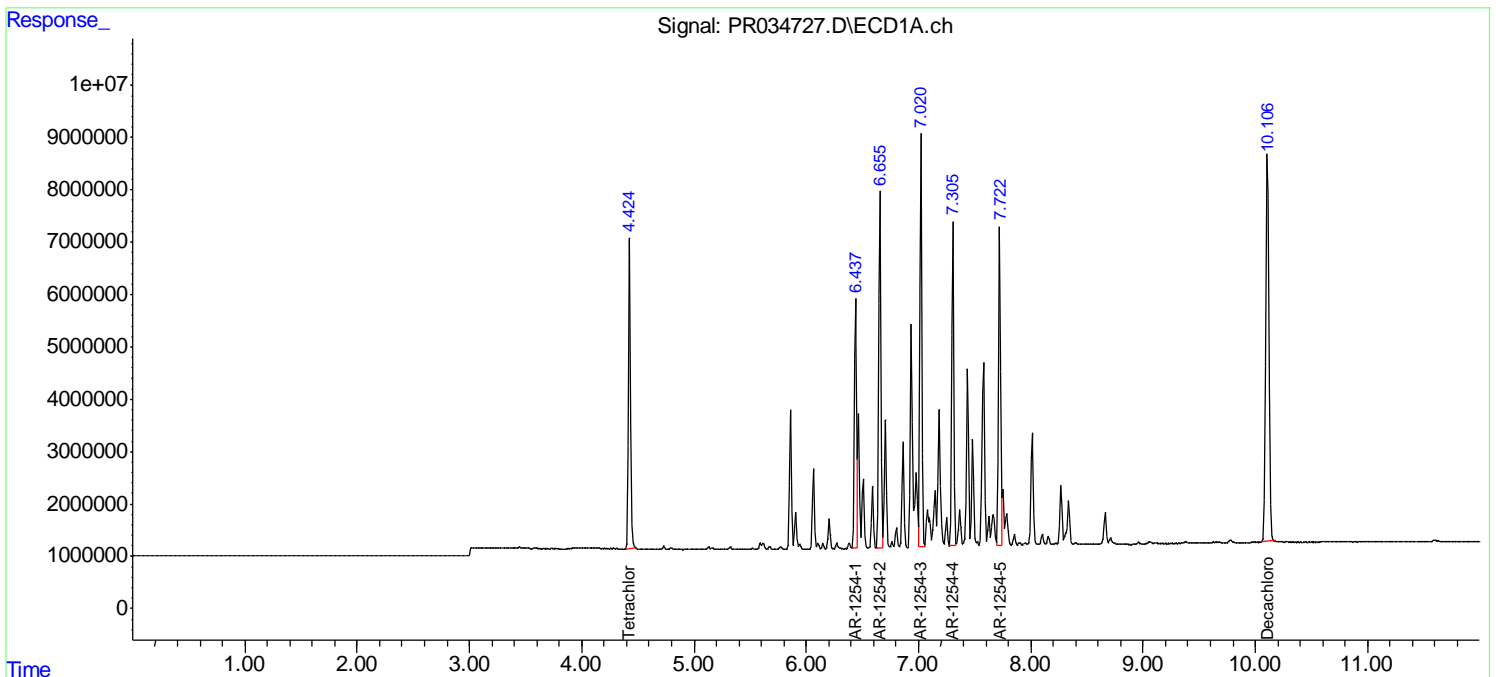
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034727.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:00
 Operator : SM\SJ
 Sample : AR1254ICC800
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:58:12 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034727.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:00
 Operator : SM\SJ
 Sample : AR1254ICC800
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254401

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:58:12 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|---------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 74721740 | 149.2E6 | 40.045 | 40.130 |
| 2) SA Decachlor... | 10.107 | 8.411 | 147.6E6 | 349.4E6 | 78.642 | 78.802 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|---------|---------|---------|
| 26) L6 AR-1254-1 | 6.437 | 5.357 | 58683163 | 178.9E6 | 783.683 | 785.019 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 92010345 | 155.3E6 | 786.037 | 787.002 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 97965525 | 265.4E6 | 785.259 | 788.625 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 76557043 | 174.0E6 | 785.935 | 789.942 |
| 30) L6 AR-1254-5 | 7.722 | 6.536 | 79533332 | 235.9E6 | 786.286 | 788.541 |

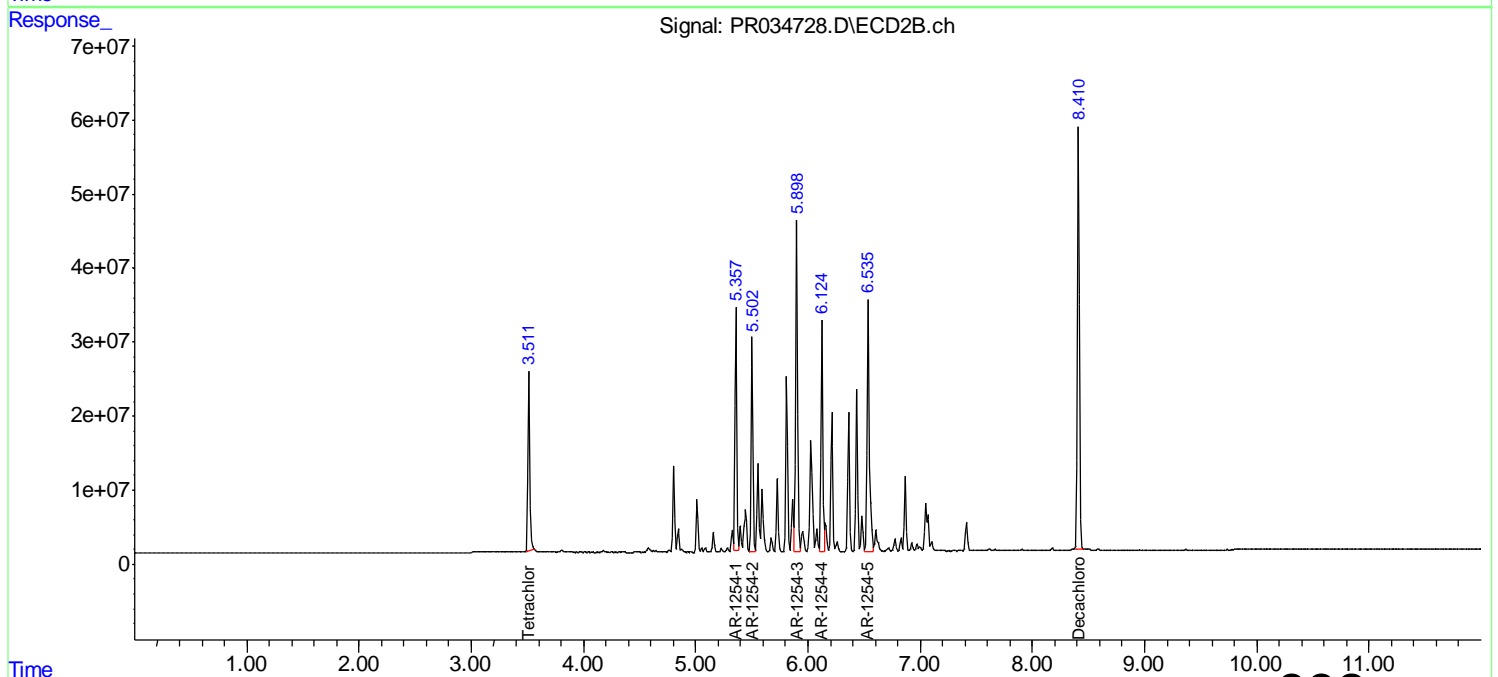
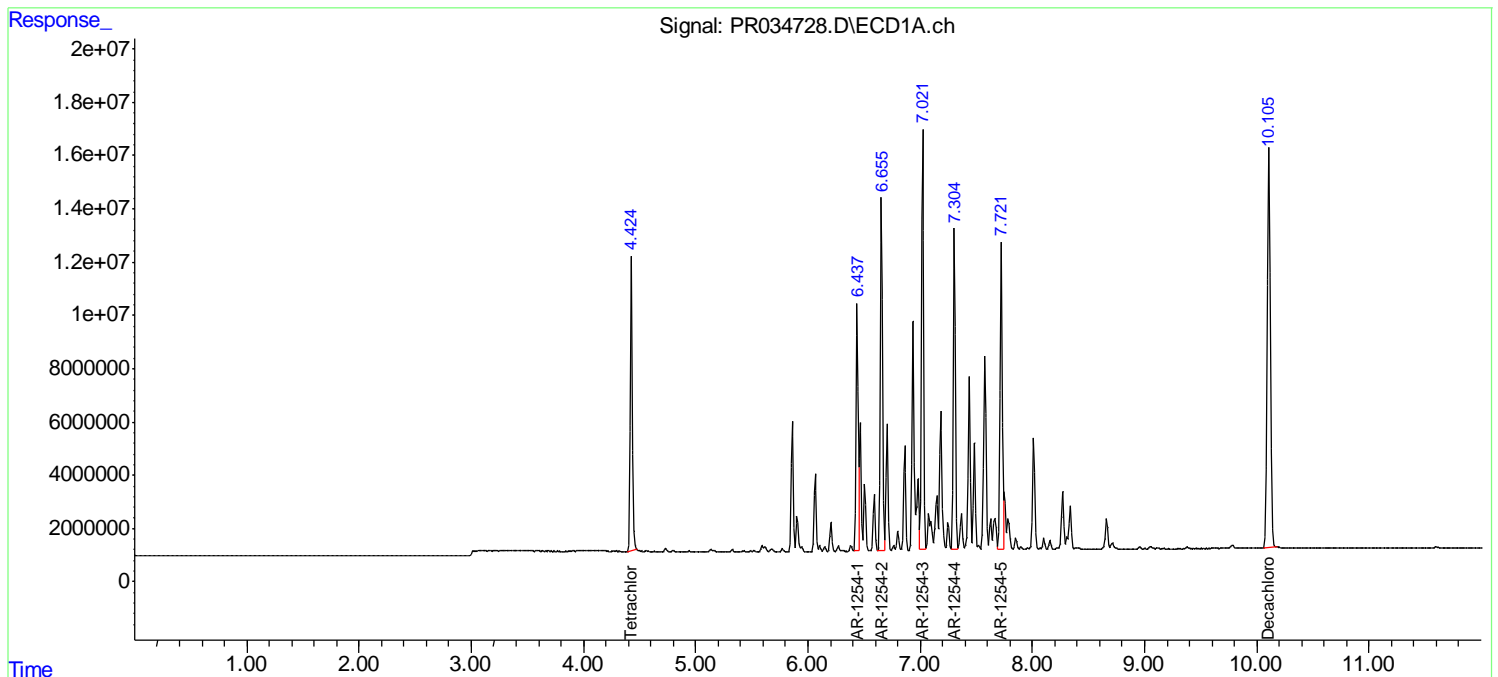
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034728.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:14
 Operator : SM\SJ
 Sample : AR1254ICC1600
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:56:36 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034728.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:14
 Operator : SM\SJ
 Sample : AR1254ICC1600
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254501

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 00:56:36 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 00:54:41 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|---------|---------|---------|---------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 139.8E6 | 280.7E6 | 74.939 | 75.600 |
| 2) SA Decachlor... | 10.107 | 8.410 | 292.5E6 | 708.8E6 | 154.494 | 158.664 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|---------|---------|----------|----------|
| 26) L6 AR-1254-1 | 6.438 | 5.357 | 112.7E6 | 349.0E6 | 1489.233 | 1517.546 |
| 27) L6 AR-1254-2 | 6.655 | 5.502 | 178.2E6 | 304.9E6 | 1509.003 | 1533.199 |
| 28) L6 AR-1254-3 | 7.021 | 5.899 | 194.0E6 | 531.7E6 | 1541.013 | 1568.941 |
| 29) L6 AR-1254-4 | 7.305 | 6.124 | 150.4E6 | 349.2E6 | 1530.942 | 1575.118 |
| 30) L6 AR-1254-5 | 7.721 | 6.536 | 158.6E6 | 477.9E6 | 1554.659 | 1586.371 |

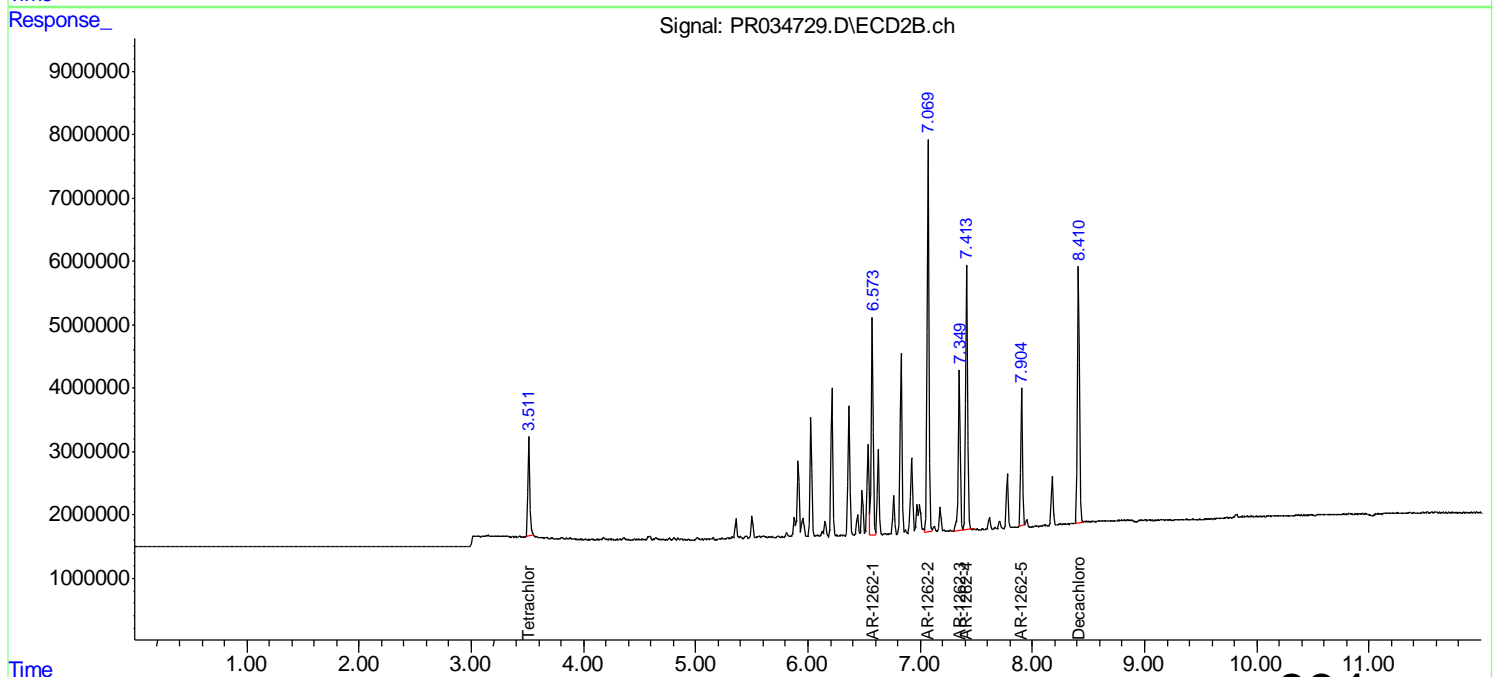
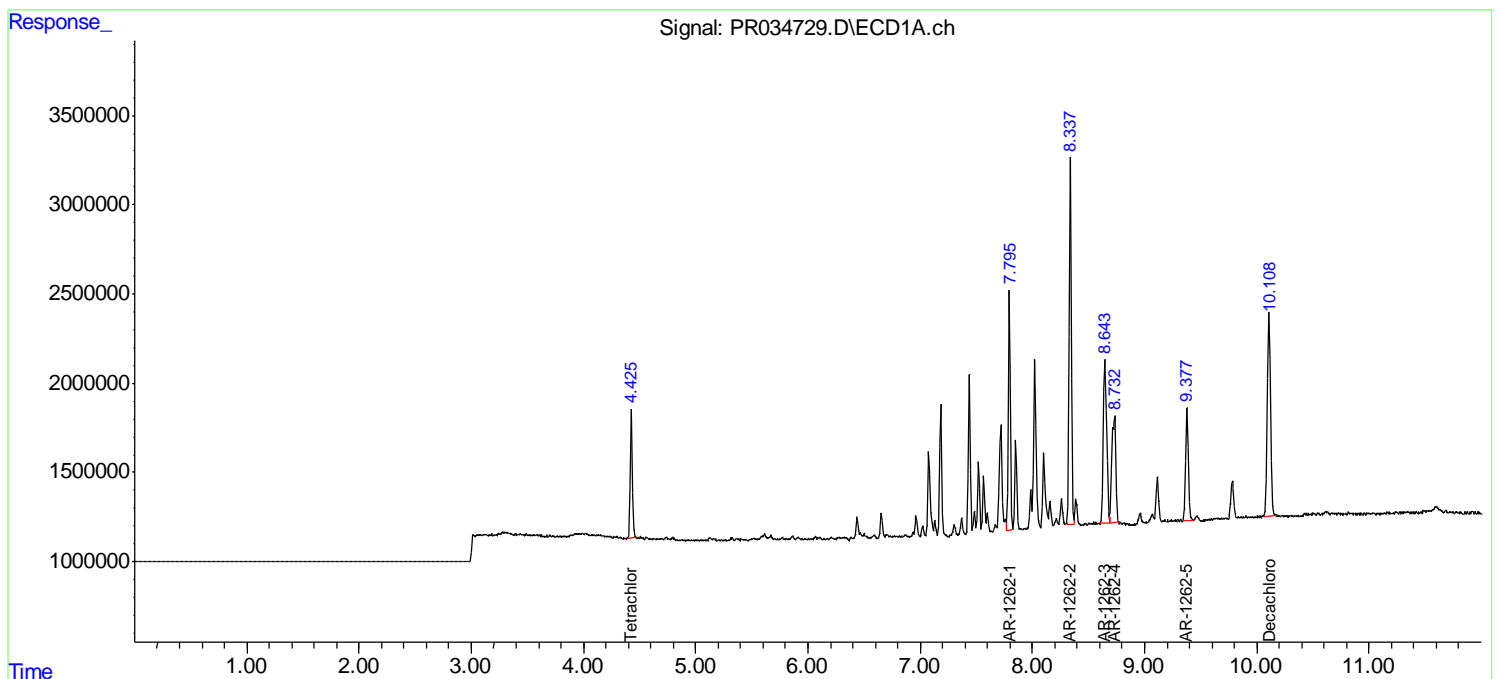
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034729.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 20:29
Operator : SM\SJ
Sample : AR1262ICC100
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AR1262101

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:37:20 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:33:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034729.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:29
 Operator : SM\SJ
 Sample : AR1262ICC100
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1262101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:37:20 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.512 | 9304912 | 18203750 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.109 | 8.411 | 22834273 | 51214722 | 10.000 | 10.000 |

Target Compounds

| | | | | | | |
|------------------|-------|-------|----------|----------|---------|---------|
| 36) L8 AR-1262-1 | 7.795 | 6.573 | 16240260 | 38853721 | 100.000 | 100.000 |
| 37) L8 AR-1262-2 | 8.338 | 7.070 | 28279950 | 71180783 | 100.000 | 100.000 |
| 38) L8 AR-1262-3 | 8.643 | 7.349 | 19432465 | 30557410 | 100.000 | 100.000 |
| 39) L8 AR-1262-4 | 8.732 | 7.414 | 14757461 | 52355083 | 100.000 | 100.000 |
| 40) L8 AR-1262-5 | 9.378 | 7.904 | 10606987 | 24450127 | 100.000 | 100.000 |

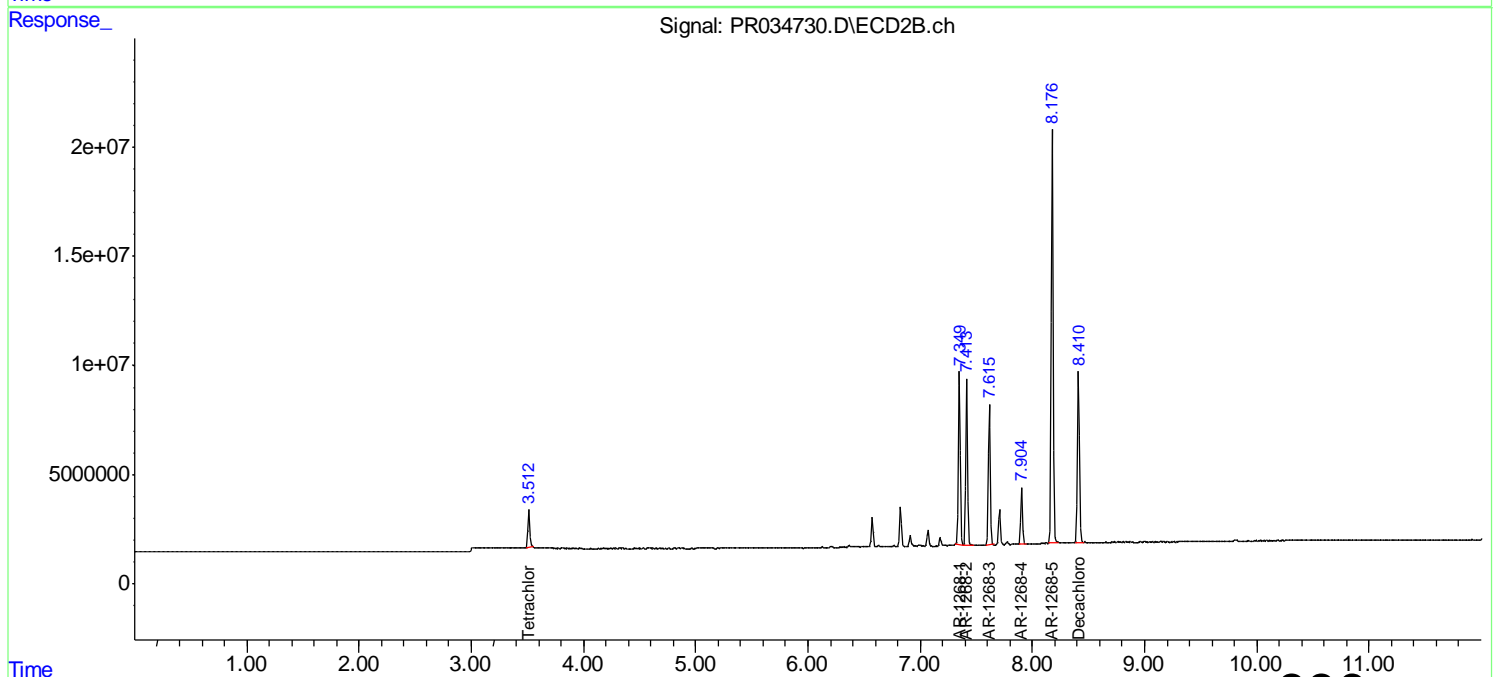
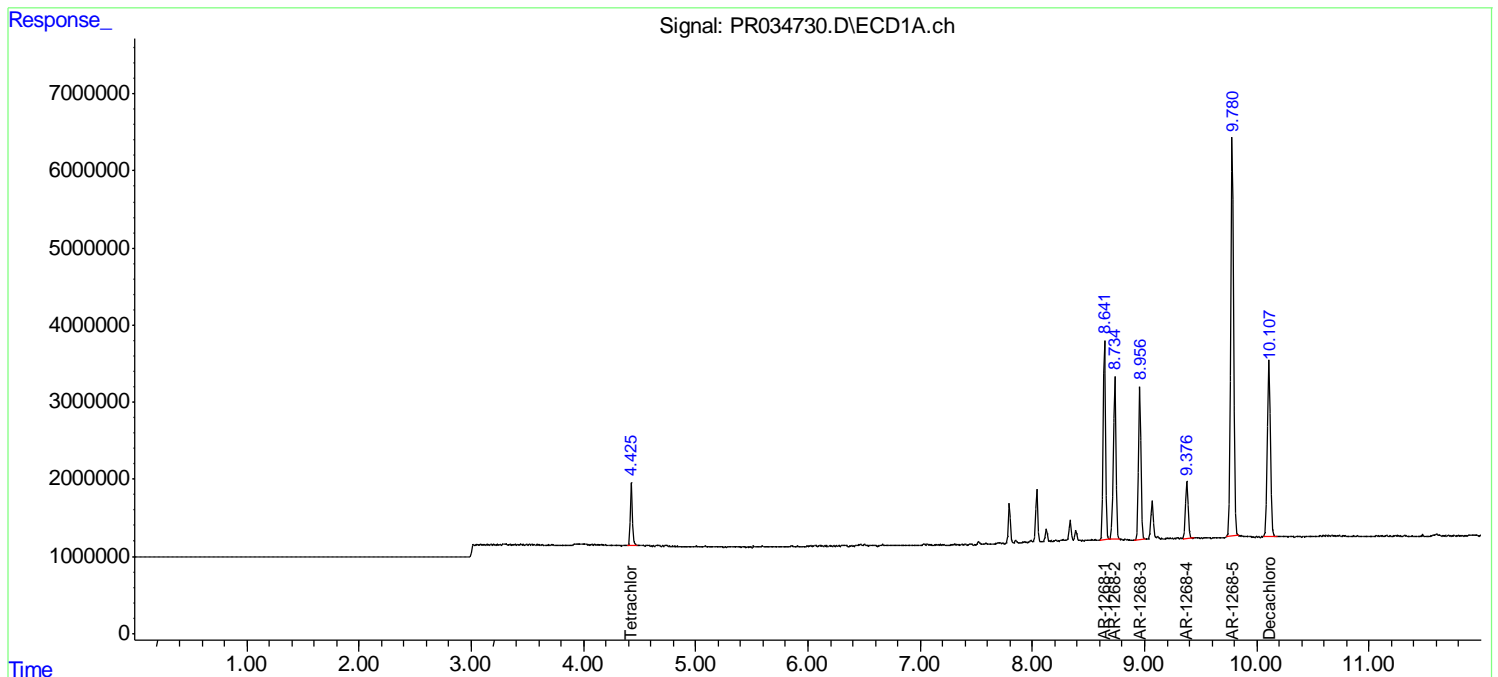
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034730.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:43
 Operator : SM\SJ
 Sample : AR1268ICC100
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1268101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:33:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034730.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:43
 Operator : SM\SJ
 Sample : AR1268ICC100
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1268101

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:33:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:33:14 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.512 | 10312674 | 20354856 | 5.000 | 5.000 |
| 2) SA Decachlor... | 10.108 | 8.411 | 43838916 | 99484436 | 10.000 | 10.000 |
| Target Compounds | | | | | | |
| 41) L9 AR-1268-1 | 8.641 | 7.349 | 37993453 | 91028393 | 100.000 | 100.000 |
| 42) L9 AR-1268-2 | 8.734 | 7.414 | 34143481 | 83993680 | 100.000 | 100.000 |
| 43) L9 AR-1268-3 | 8.957 | 7.616 | 30320811 | 73219811 | 100.000 | 100.000 |
| 44) L9 AR-1268-4 | 9.376 | 7.904 | 12450492 | 29043038 | 100.000 | 100.000 |
| 45) L9 AR-1268-5 | 9.781 | 8.177 | 92583202 | 225.2E6 | 100.000 | 100.000 |
| ----- | | | | | | |

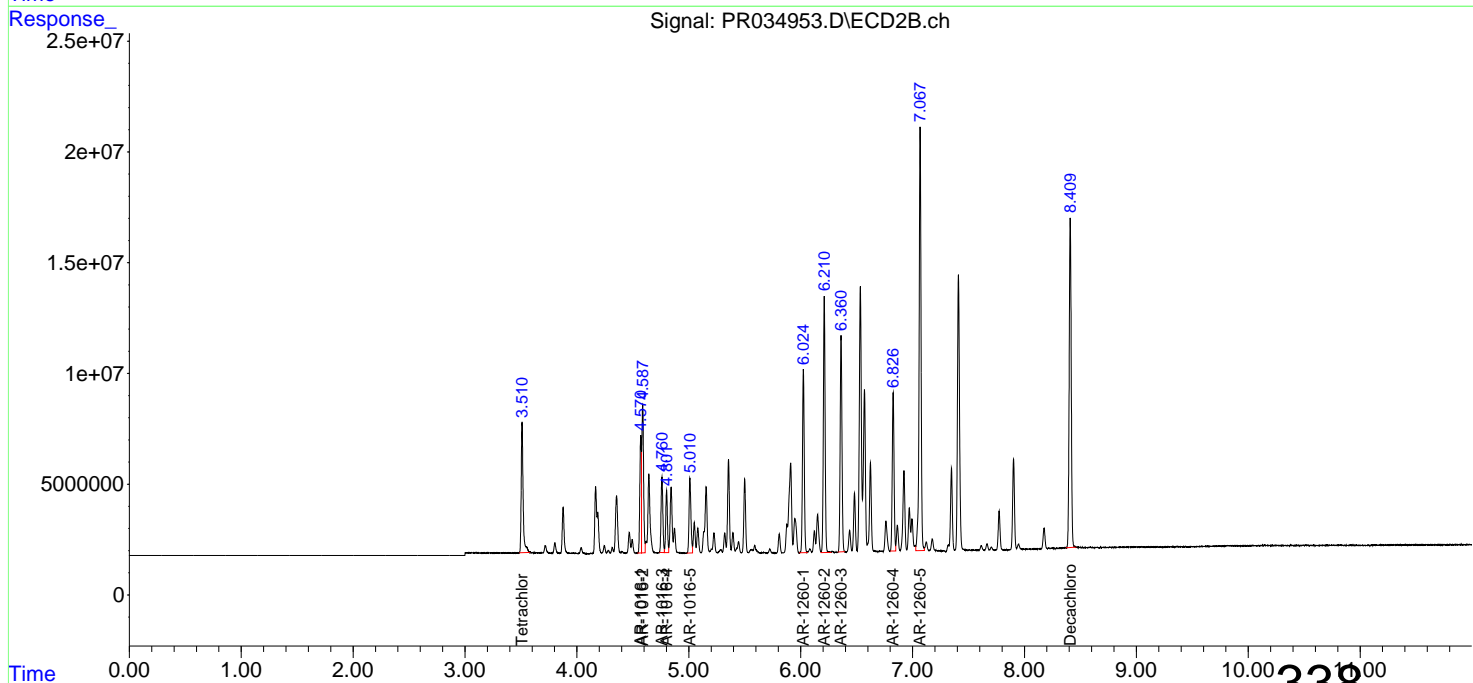
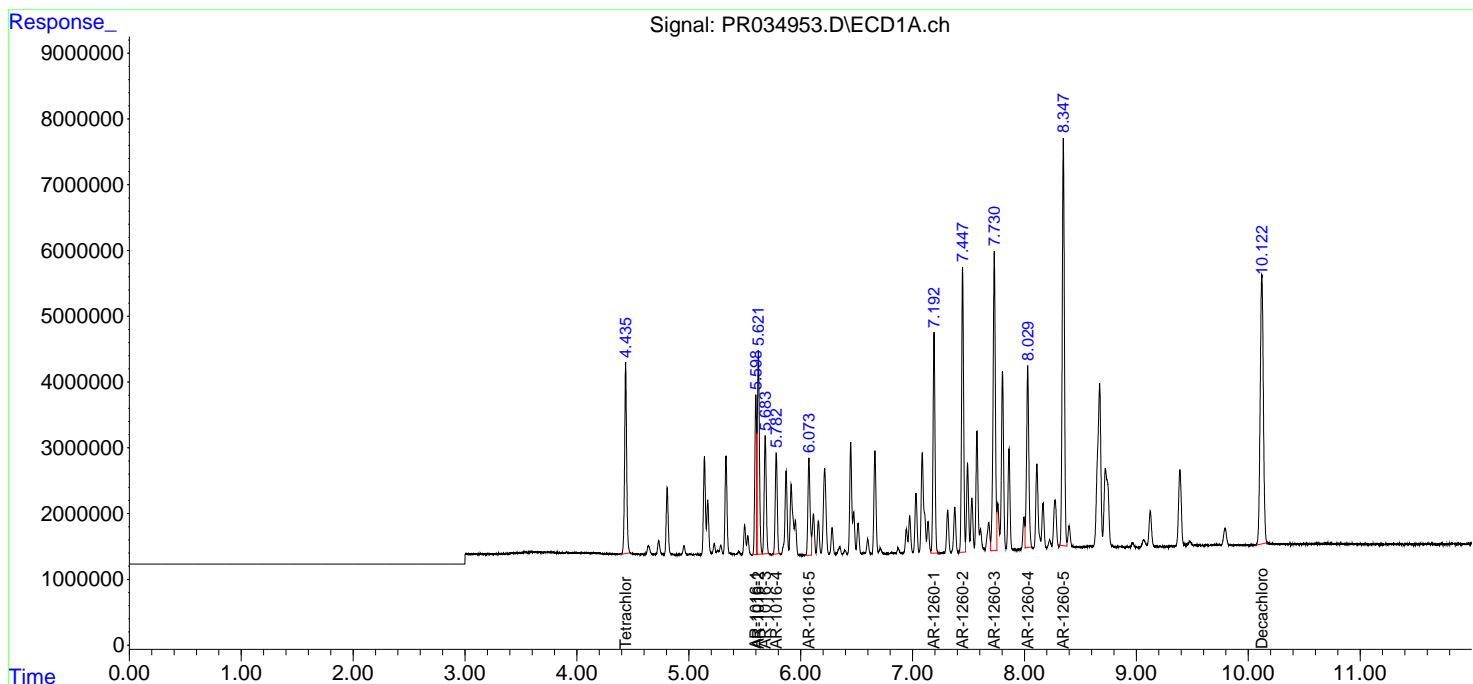
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034953.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 09:14
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660328

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034953.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 09:14
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660328

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:42 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.435 | 3.510 | 36731475 | 69530211 | 18.885 | 19.945 |
| 2) SA Decachlor... | 10.122 | 8.410 | 80507297 | 188.0E6 | 40.951 | 42.750 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.599 | 4.571 | 27130460 | 49142887 | 401.914 | 377.661 |
| 4) L1 AR-1016-2 | 5.622 | 4.588 | 39833935 | 75315275 | 402.254 | 381.053 |
| 5) L1 AR-1016-3 | 5.683 | 4.760 | 23190208 | 38005402 | 394.018 | 395.412 |
| 6) L1 AR-1016-4 | 5.782 | 4.802 | 19481190 | 29862471 | 410.676 | 395.273 |
| 7) L1 AR-1016-5 | 6.074 | 5.010 | 19889734 | 40020276 | 417.610 | 389.205 |
| 31) L7 AR-1260-1 | 7.192 | 6.024 | 41147785 | 91233453 | 437.705 | 424.397 |
| 32) L7 AR-1260-2 | 7.447 | 6.211 | 54521017 | 125.3E6 | 469.599 | 460.491 |
| 33) L7 AR-1260-3 | 7.731 | 6.361 | 65868304 | 109.7E6 | 471.983 | 441.741 |
| 34) L7 AR-1260-4 | 8.029 | 6.827 | 38840553 | 79837667 | 449.733 | 466.913 |
| 35) L7 AR-1260-5 | 8.348 | 7.068 | 83942591 | 229.3E6 | 464.918 | 474.182 |
| ----- | | | | | | |

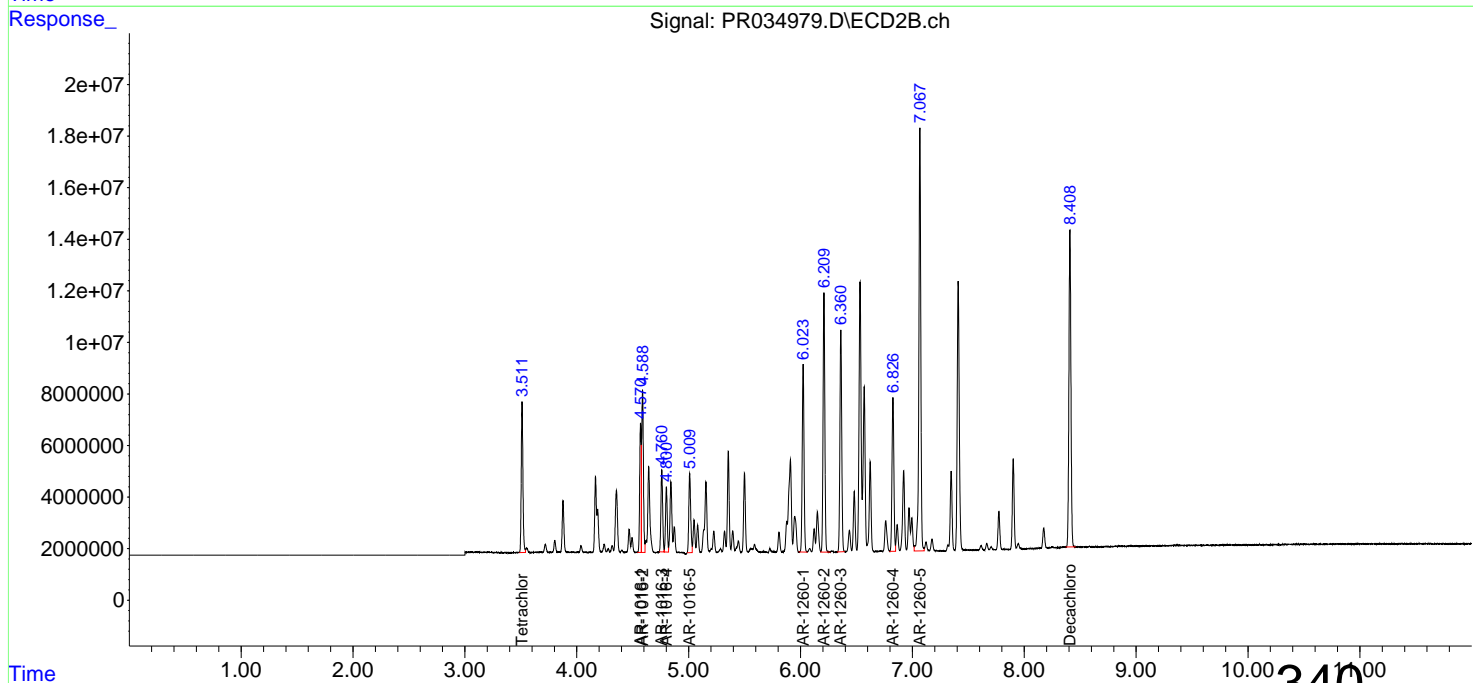
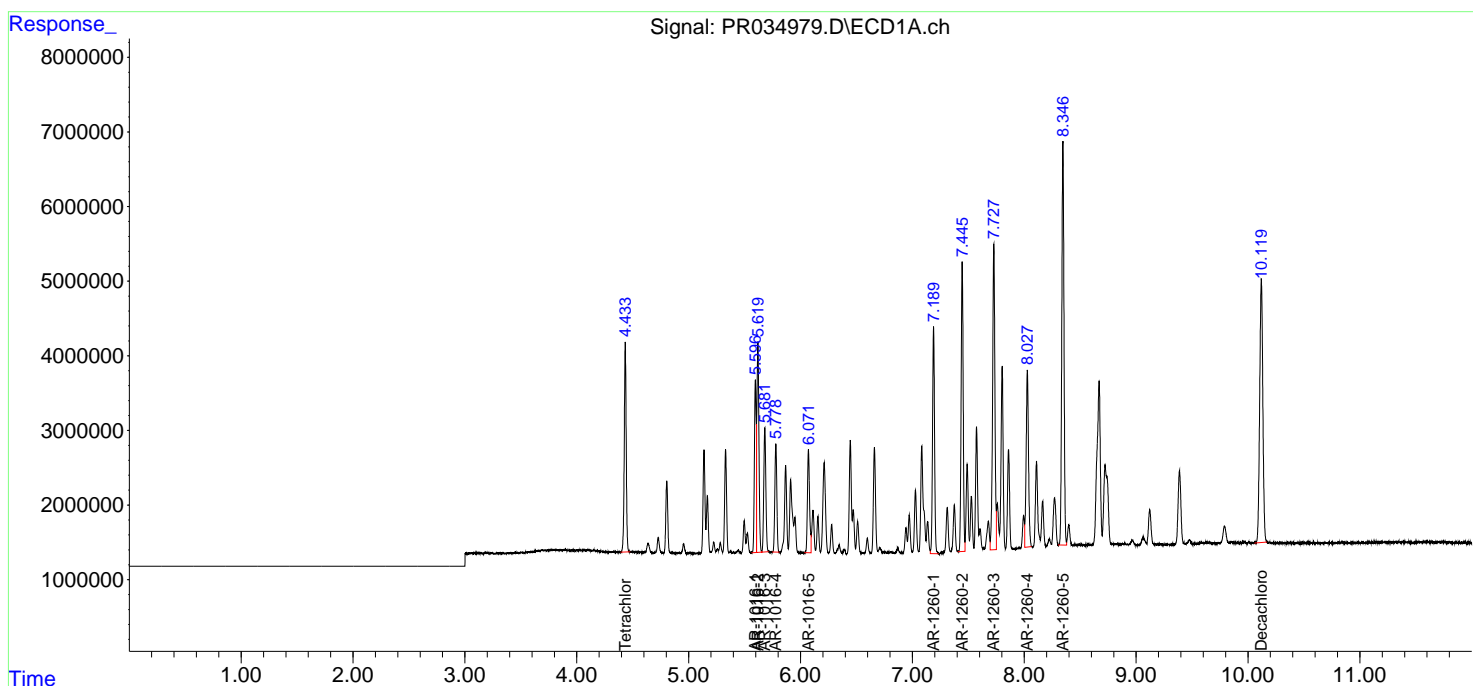
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034979.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660329

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:49:53 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034979.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 15:54
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660329

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:49:53 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.433 | 3.511 | 33900985 | 60931608 | 17.430 | 17.479 |
| 2) SA Decachlor... | 10.119 | 8.408 | 68917692 | 153.4E6 | 35.056 | 34.894 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.596 | 4.570 | 25454480 | 46090850 | 377.086 | 354.206 |
| 4) L1 AR-1016-2 | 5.619 | 4.588 | 36007882 | 67816443 | 363.617 | 343.113 |
| 5) L1 AR-1016-3 | 5.681 | 4.760 | 21432502 | 34561126 | 364.153 | 359.577 |
| 6) L1 AR-1016-4 | 5.780 | 4.801 | 18056857 | 26798837 | 380.650 | 354.721 |
| 7) L1 AR-1016-5 | 6.071 | 5.009 | 18373283 | 36207639 | 385.770 | 352.126 |
| 31) L7 AR-1260-1 | 7.190 | 6.024 | 37890460 | 81349442 | 403.056 | 378.418 |
| 32) L7 AR-1260-2 | 7.445 | 6.210 | 48949221 | 110.5E6 | 421.608 | 405.968 |
| 33) L7 AR-1260-3 | 7.728 | 6.360 | 58718841 | 97575726 | 420.753 | 393.077 |
| 34) L7 AR-1260-4 | 8.028 | 6.827 | 34665091 | 69570621 | 401.386 | 406.869 |
| 35) L7 AR-1260-5 | 8.346 | 7.067 | 74273867 | 196.3E6 | 411.367 | 405.847 |

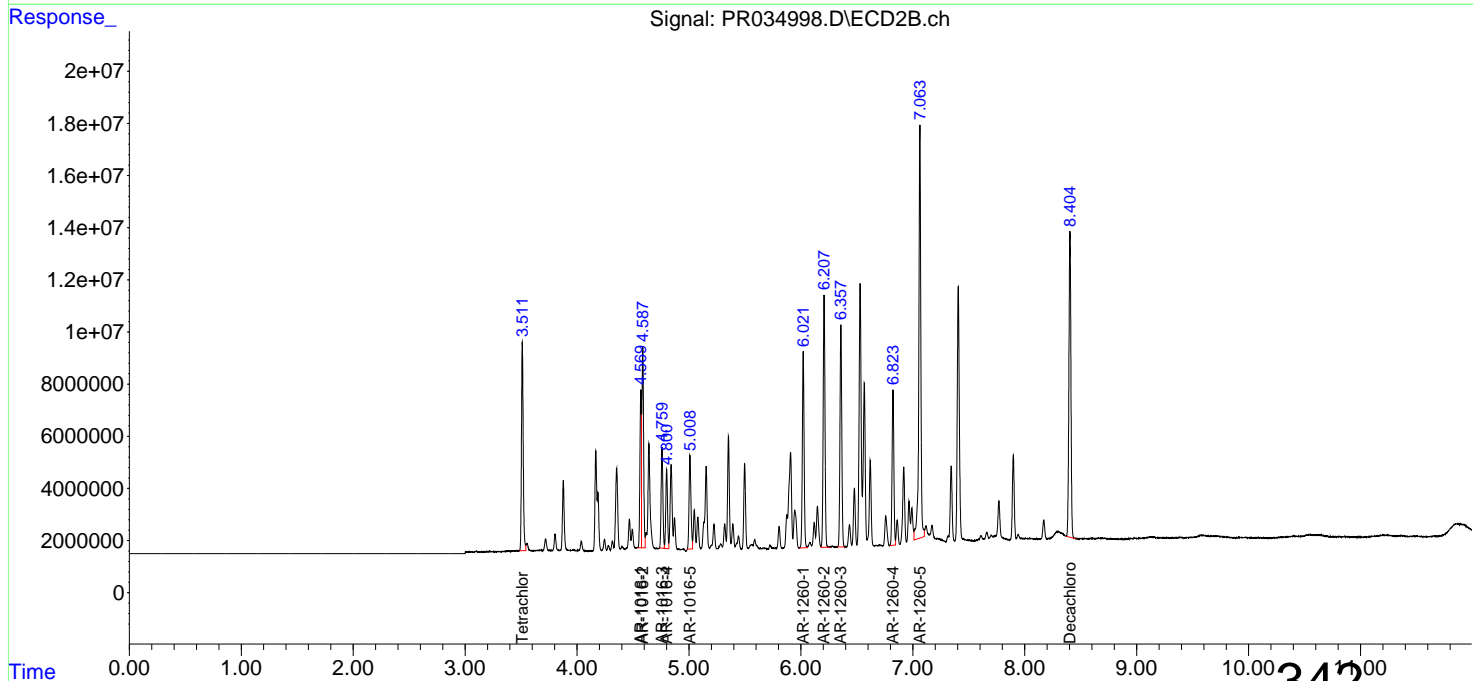
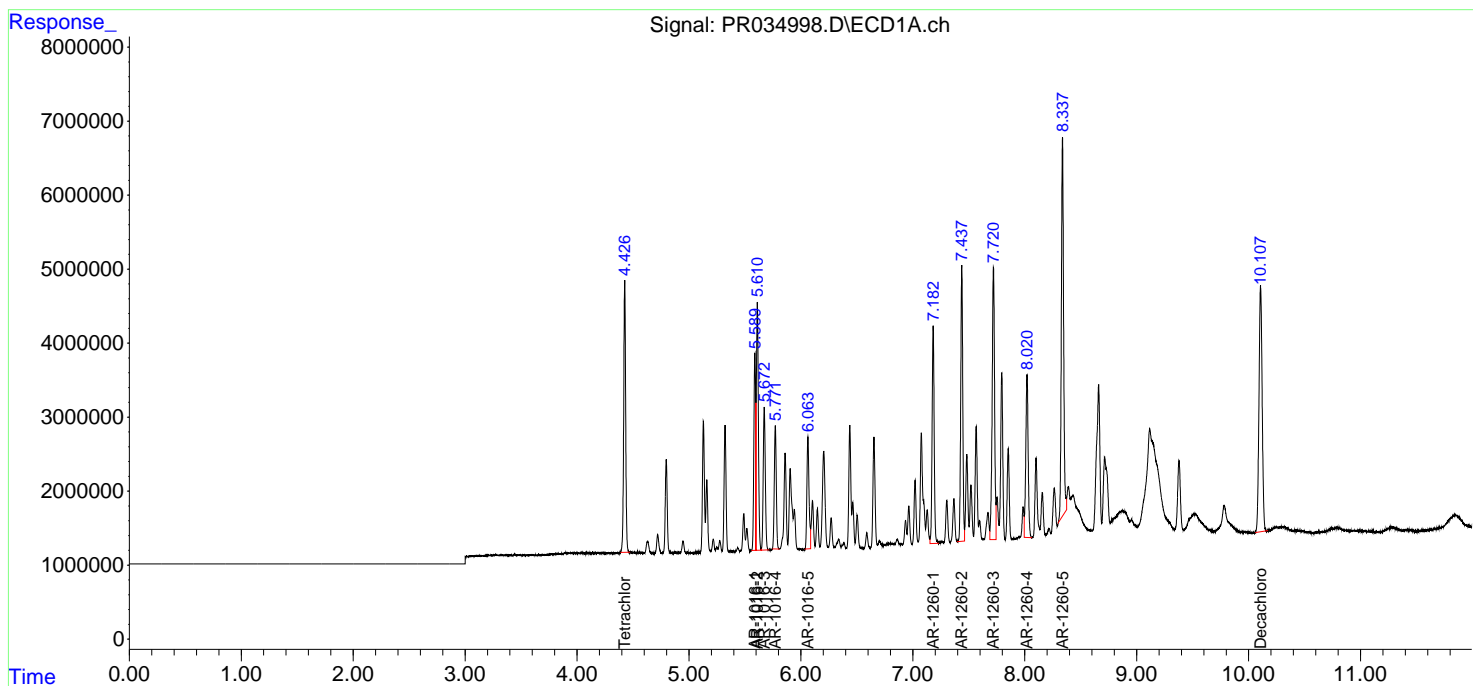
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034998.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 21:42
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660330

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:29:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034998.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 21:42
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660330

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 03:29:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 44750905 | 85266801 | 23.008 | 24.460 |
| 2) SA Decachlor... | 10.107 | 8.404 | 65302118 | 147.2E6 | 33.217 | 33.478 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.589 | 4.570 | 29842031 | 56020404 | 442.083 | 430.514 |
| 4) L1 AR-1016-2 | 5.611 | 4.587 | 41936955 | 82060903 | 423.490 | 415.182 |
| 5) L1 AR-1016-3 | 5.673 | 4.759 | 24975966 | 41762552 | 424.359 | 434.502 |
| 6) L1 AR-1016-4 | 5.772 | 4.801 | 20673114 | 32331352 | 435.802 | 427.952 |
| 7) L1 AR-1016-5 | 6.063 | 5.009 | 20272015 | 42639938 | 425.636 | 414.681 |
| 31) L7 AR-1260-1 | 7.182 | 6.021 | 37500617 | 82293992 | 398.909 | 382.812 |
| 32) L7 AR-1260-2 | 7.438 | 6.208 | 47246088 | 107.9E6 | 406.939 | 396.344 |
| 33) L7 AR-1260-3 | 7.721 | 6.358 | 55418532 | 95758712 | 397.105 | 385.757 |
| 34) L7 AR-1260-4 | 8.021 | 6.823 | 32488341 | 65879991 | 376.181 | 385.285 |
| 35) L7 AR-1260-5 | 8.337 | 7.063 | 71356912 | 197.0E6 | 395.212 | 407.400 |

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

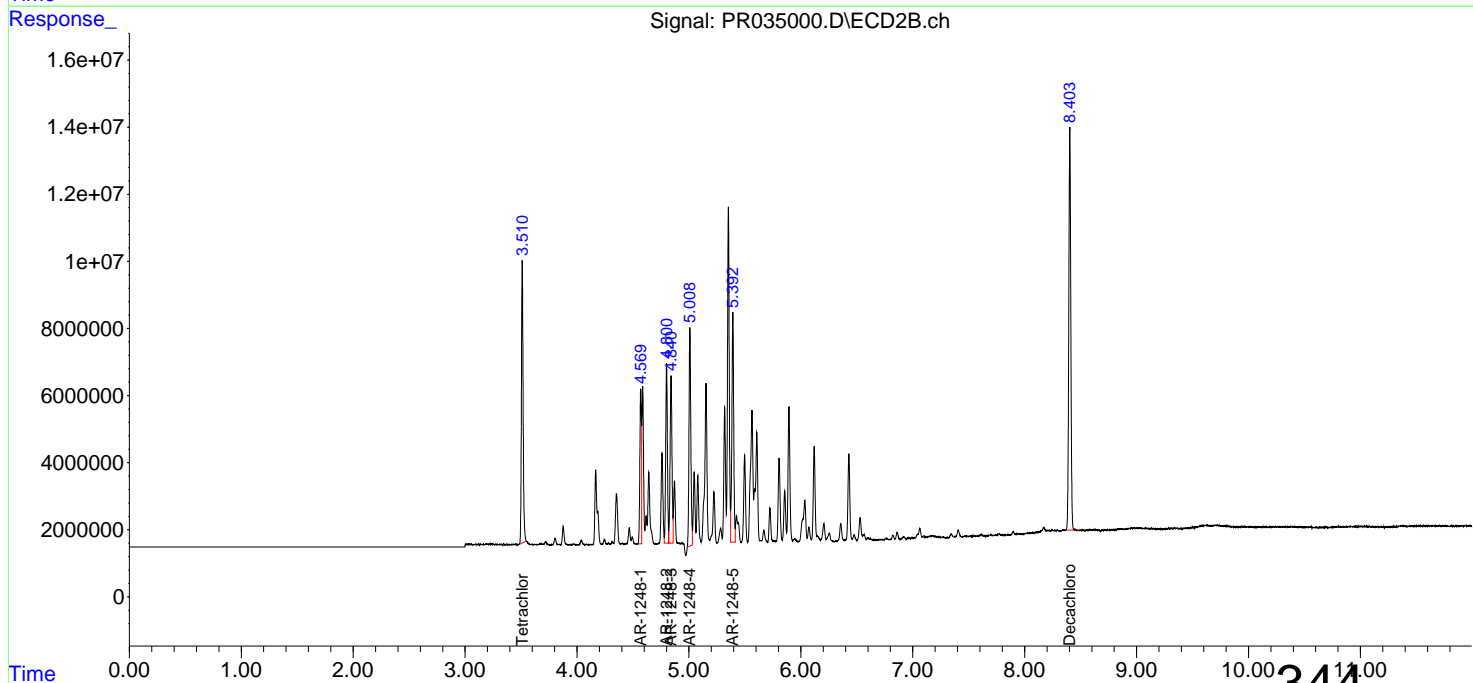
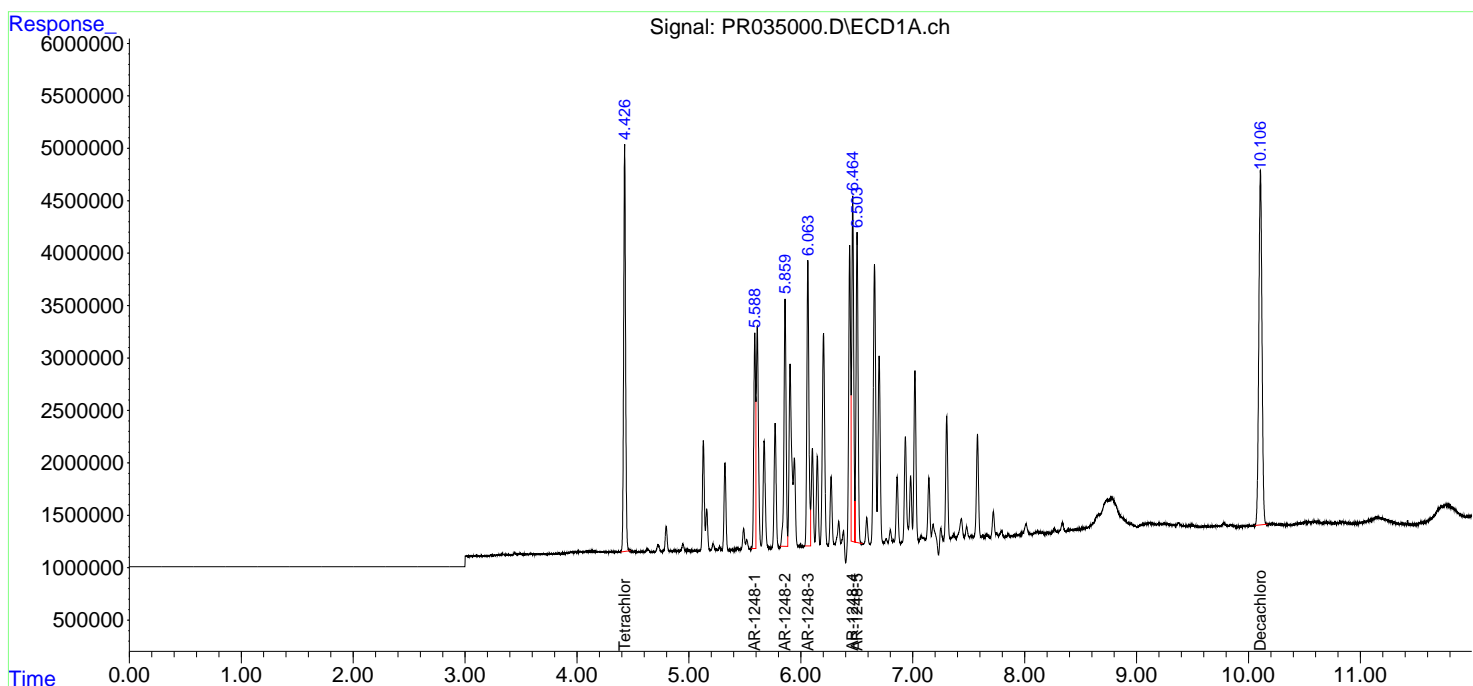
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1248330

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:23 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1248330

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:23 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.510 | 46370836 | 88225627 | 23.841 | 25.308m |
| 2) SA Decachlor... | 10.107 | 8.404 | 66323784 | 150.7E6 | 33.737 | 34.269 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.570 | 23259967 | 45172158 | 479.363 | 463.296 |
| 22) L5 AR-1248-2 | 5.859 | 4.800 | 30944919 | 57078552 | 468.341 | 445.570 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 34786476 | 58727708 | 465.589 | 444.984 |
| 24) L5 AR-1248-4 | 6.464 | 5.009 | 40057314 | 73600932 | 448.340 | 447.340 |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 37007806 | 78389004 | 442.316 | 468.398 |
| ----- | | | | | | |

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

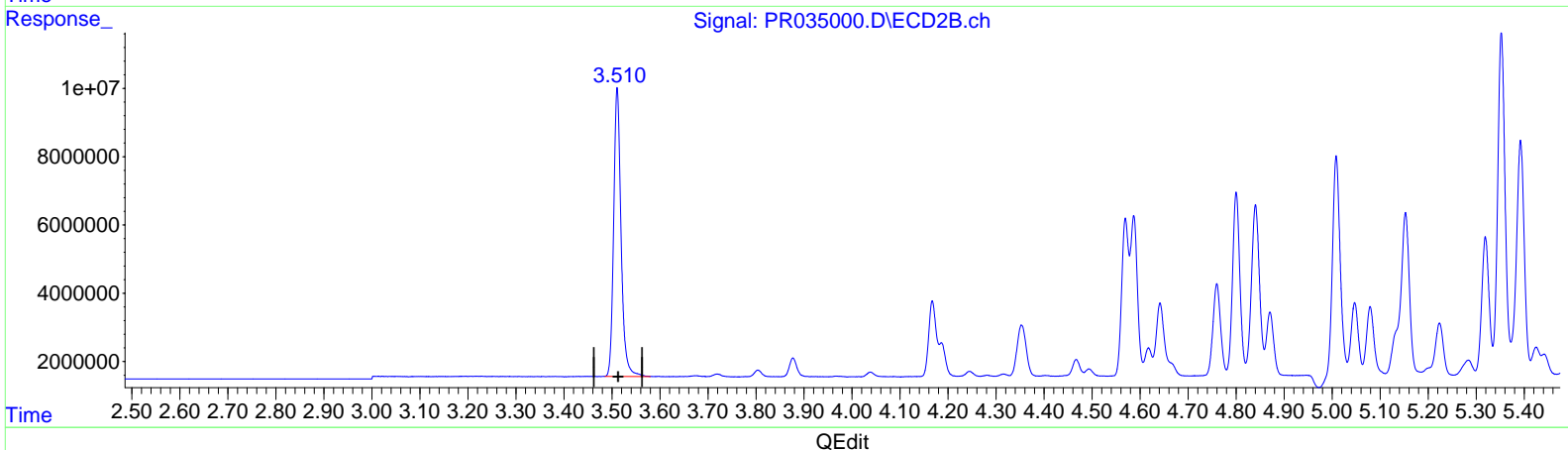
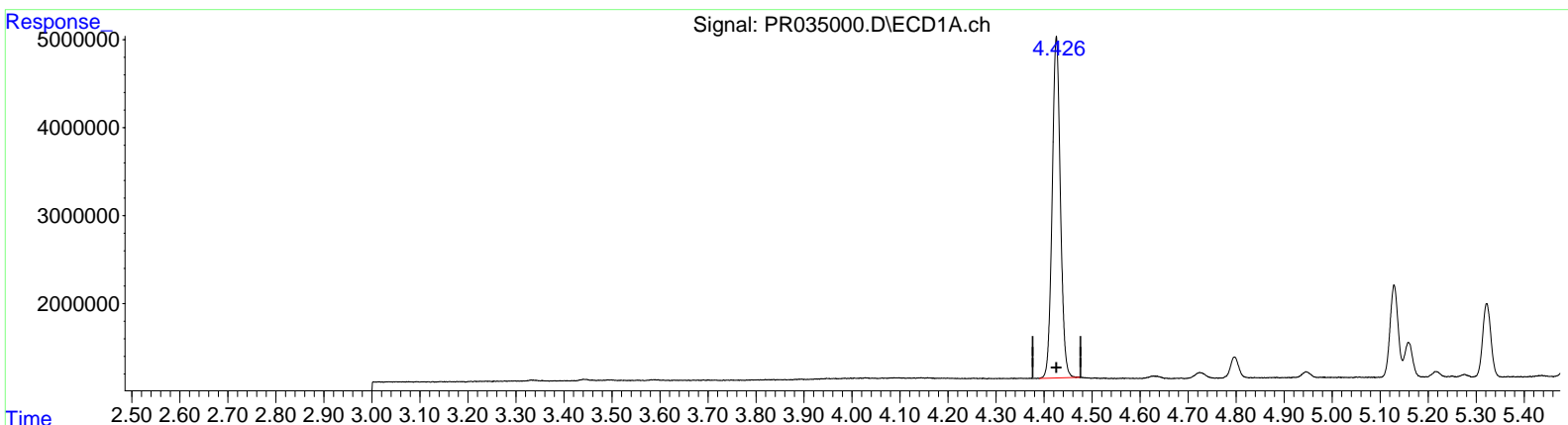
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1248330

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:23 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.426min 23.841 ng/ml
 response 46370836

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 26.067 ng/ml
 response 90871561

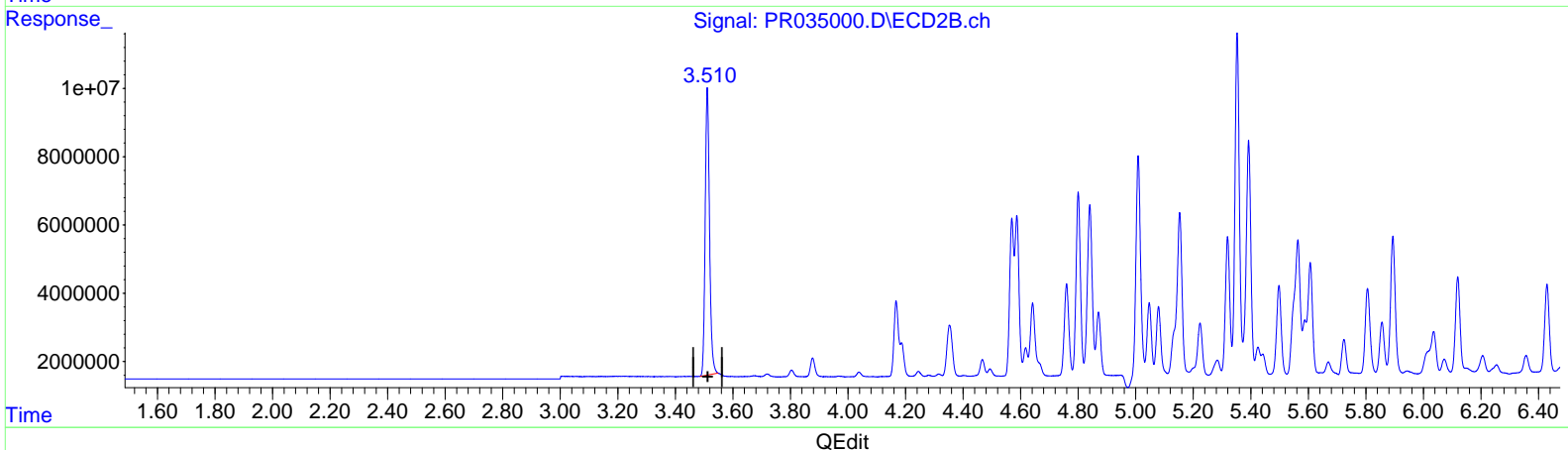
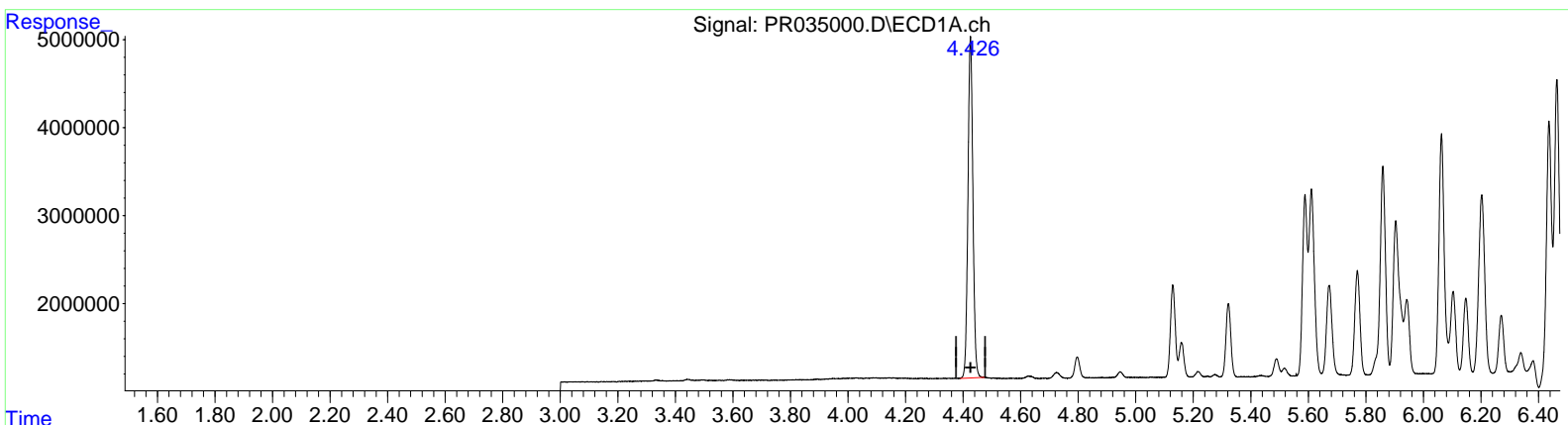
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1248330

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:20:23 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.426min 23.841 ng/ml
 response 46370836

(1) Tetrachloro-m-xylene #2 (SA)
 3.510min 25.308 ng/ml m
 response 88225627

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035000.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 22:11
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AR1248330

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:29 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED

Sohil
 12/26/2018 8:20:23 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.510 | 46370836 | 88225627 | 23.841 | 25.308m |
| 2) SA Decachlor... | 10.107 | 8.404 | 66323784 | 150.7E6 | 33.737 | 34.269 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.570 | 23259967 | 45172158 | 479.363 | 463.296 |
| 22) L5 AR-1248-2 | 5.859 | 4.800 | 30944919 | 57078552 | 468.341 | 445.570 |
| 23) L5 AR-1248-3 | 6.063 | 4.841 | 34786476 | 58727708 | 465.589 | 444.984 |
| 24) L5 AR-1248-4 | 6.464 | 5.009 | 40057314 | 73600932 | 448.340 | 447.340 |
| 25) L5 AR-1248-5 | 6.503 | 5.393 | 37007806 | 78389004 | 442.316 | 468.398 |
| ----- | | | | | | |

) SJ
 12/28/18

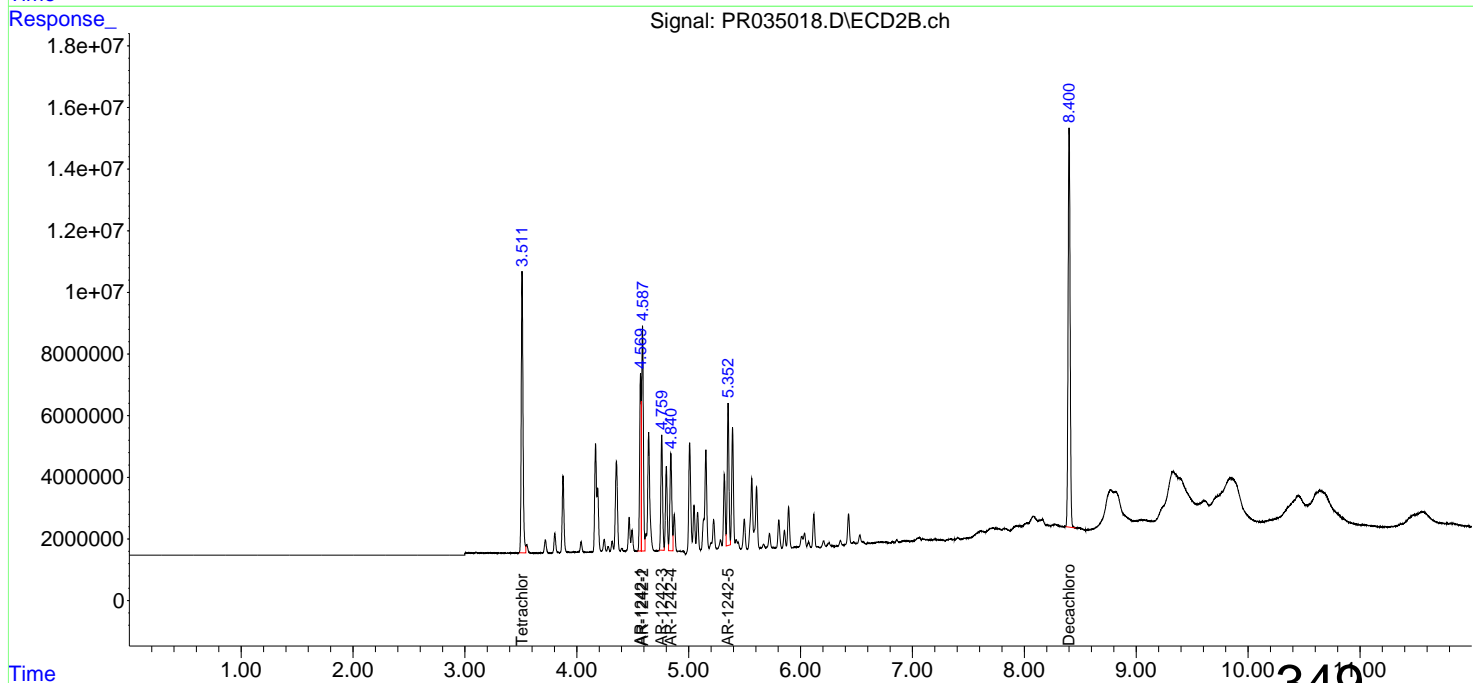
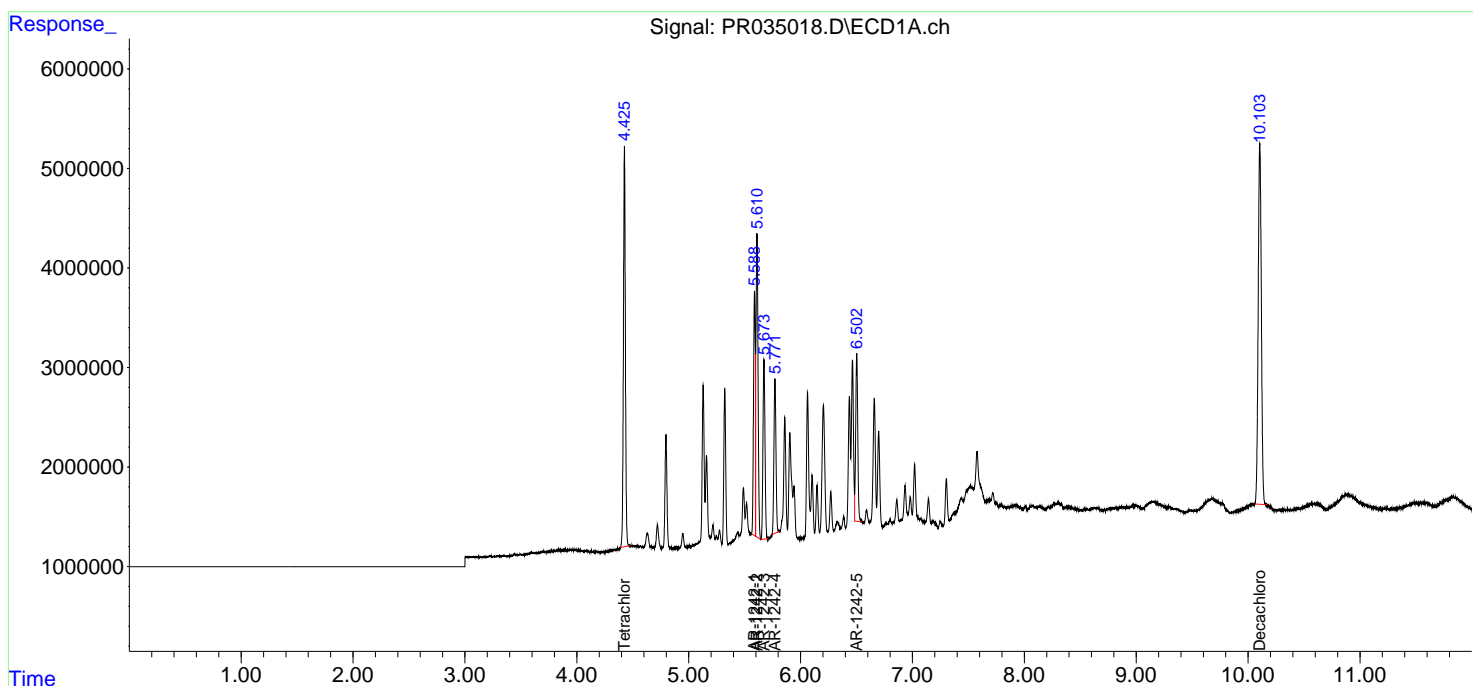
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
Data File : PR035018.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Dec 2018 02:31
Operator : SM\SJ
Sample : AR1242CCC400
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_R
Client Sampled :
AR1242331

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 22 02:52:47 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035018.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 02:31
 Operator : SM\SJ
 Sample : AR1242CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1242331

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:52:47 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 48486060 | 99014827 | 24.928 | 28.403 |
| 2) SA Decachlor... | 10.104 | 8.400 | 71097948 | 161.3E6 | 36.165 | 36.679 |
| Target Compounds | | | | | | |
| 16) L4 AR-1242-1 | 5.588 | 4.569 | 27328876 | 53963253 | 471.158 | 475.391 |
| 17) L4 AR-1242-2 | 5.610 | 4.587 | 38795159 | 78629510 | 458.337 | 460.554 |
| 18) L4 AR-1242-3 | 5.673 | 4.759 | 22829574 | 40052349 | 455.582 | 472.698 |
| 19) L4 AR-1242-4 | 5.771 | 4.841 | 19764788 | 37878516 | 483.668 | 458.149 |
| 20) L4 AR-1242-5 | 6.502 | 5.352 | 21807937 | 48449756 | 473.479 | 435.600 |
| ----- | | | | | | |

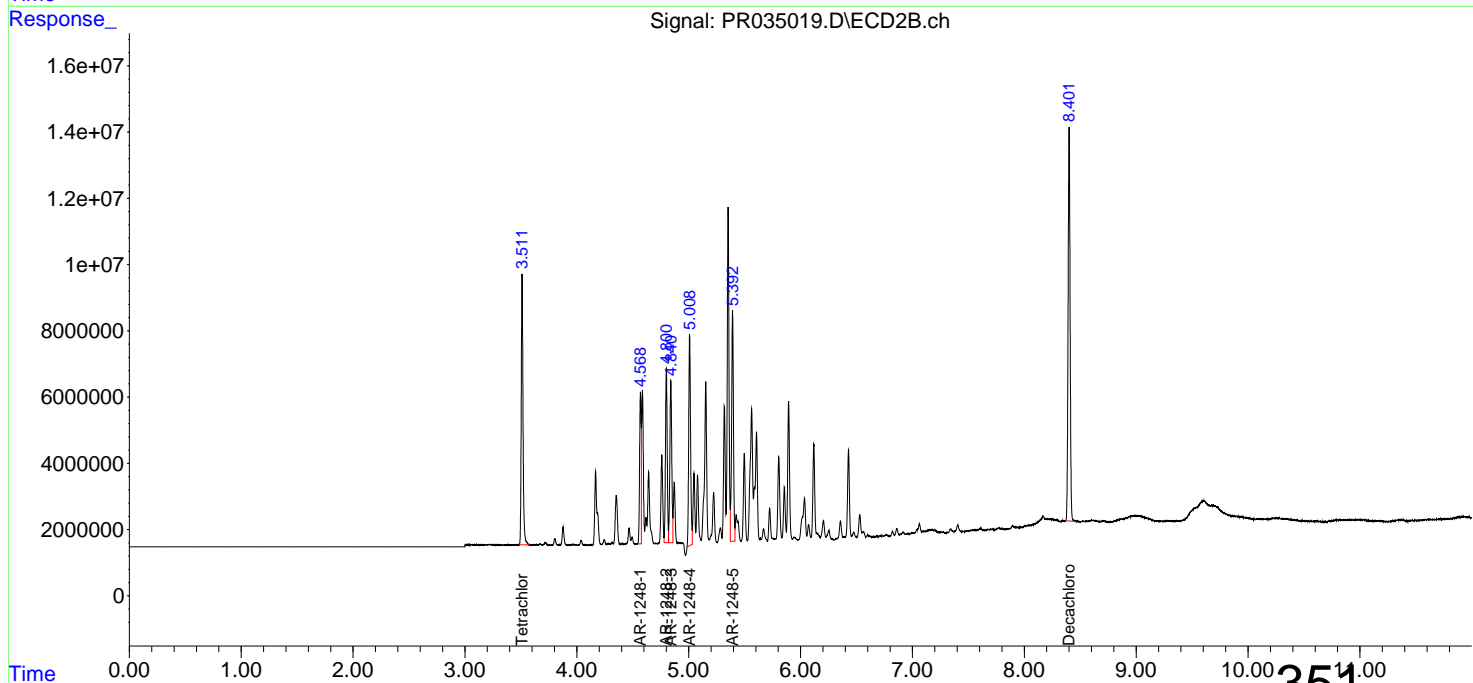
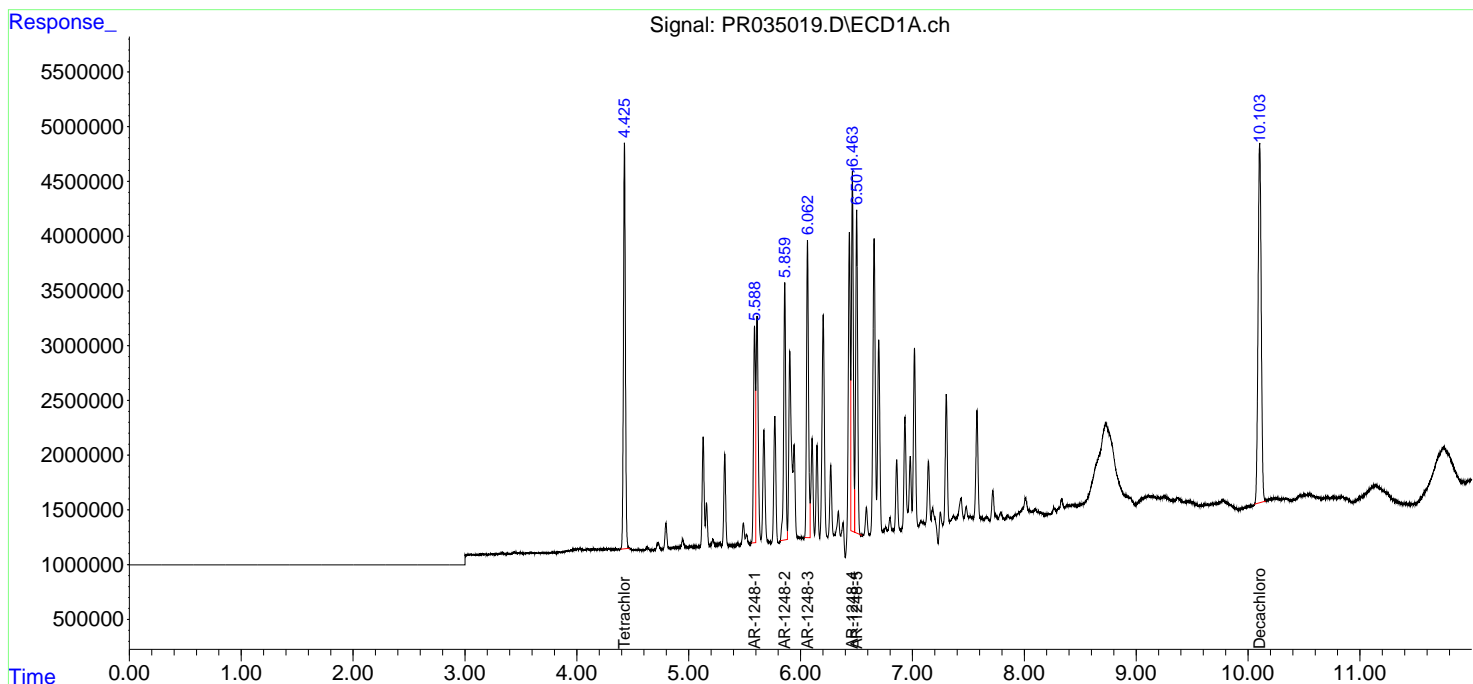
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035019.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 02:45
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248331

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:58:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035019.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 02:45
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248331

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 02:58:44 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 44850018 | 89221902 | 23.059 | 25.594 |
| 2) SA Decachlor... | 10.104 | 8.401 | 64557832 | 147.3E6 | 32.838 | 33.495 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.589 | 4.569 | 23135914 | 44450085 | 476.807 | 455.890 |
| 22) L5 AR-1248-2 | 5.859 | 4.800 | 30282056 | 56627478 | 458.309 | 442.049 |
| 23) L5 AR-1248-3 | 6.062 | 4.840 | 33910582 | 58311565 | 453.866 | 441.831 |
| 24) L5 AR-1248-4 | 6.464 | 5.008 | 39448514 | 73221418 | 441.526 | 445.033 |
| 25) L5 AR-1248-5 | 6.502 | 5.392 | 36494931 | 79252150 | 436.186 | 473.555 |
| ----- | | | | | | |

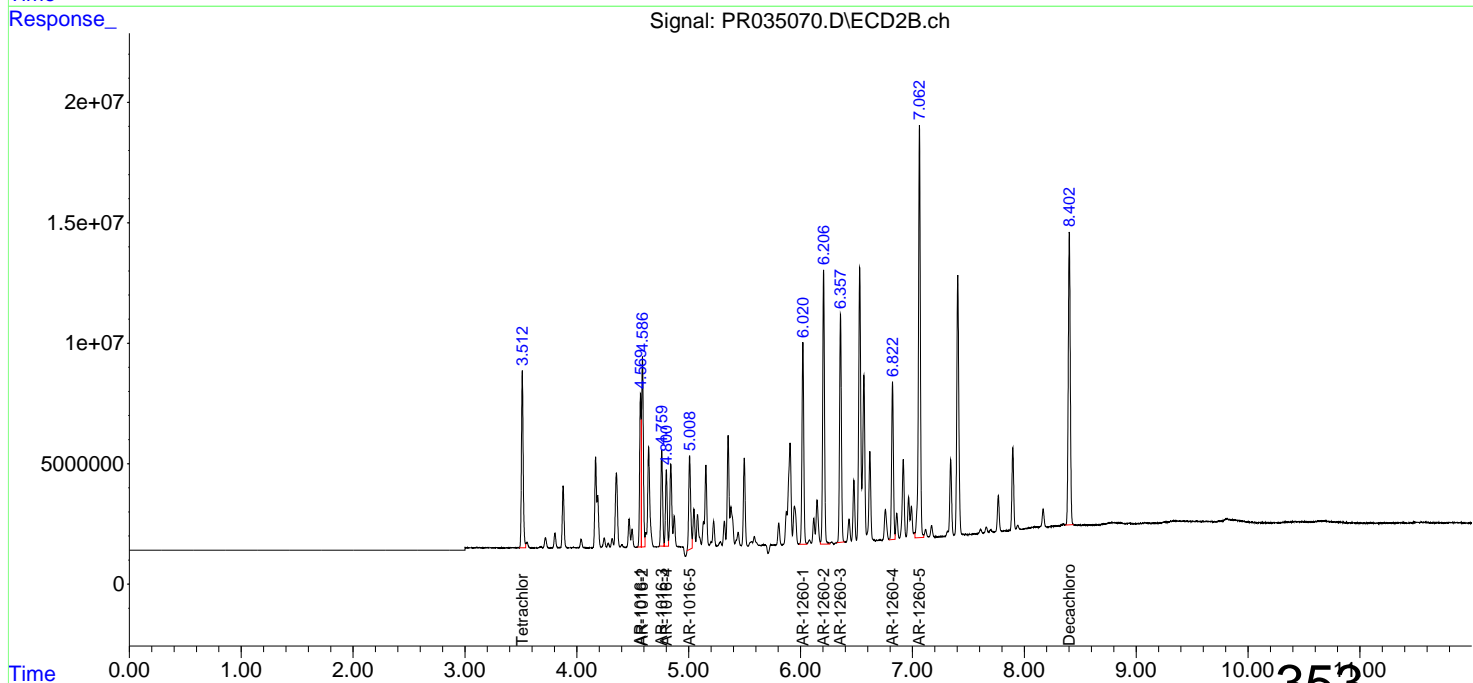
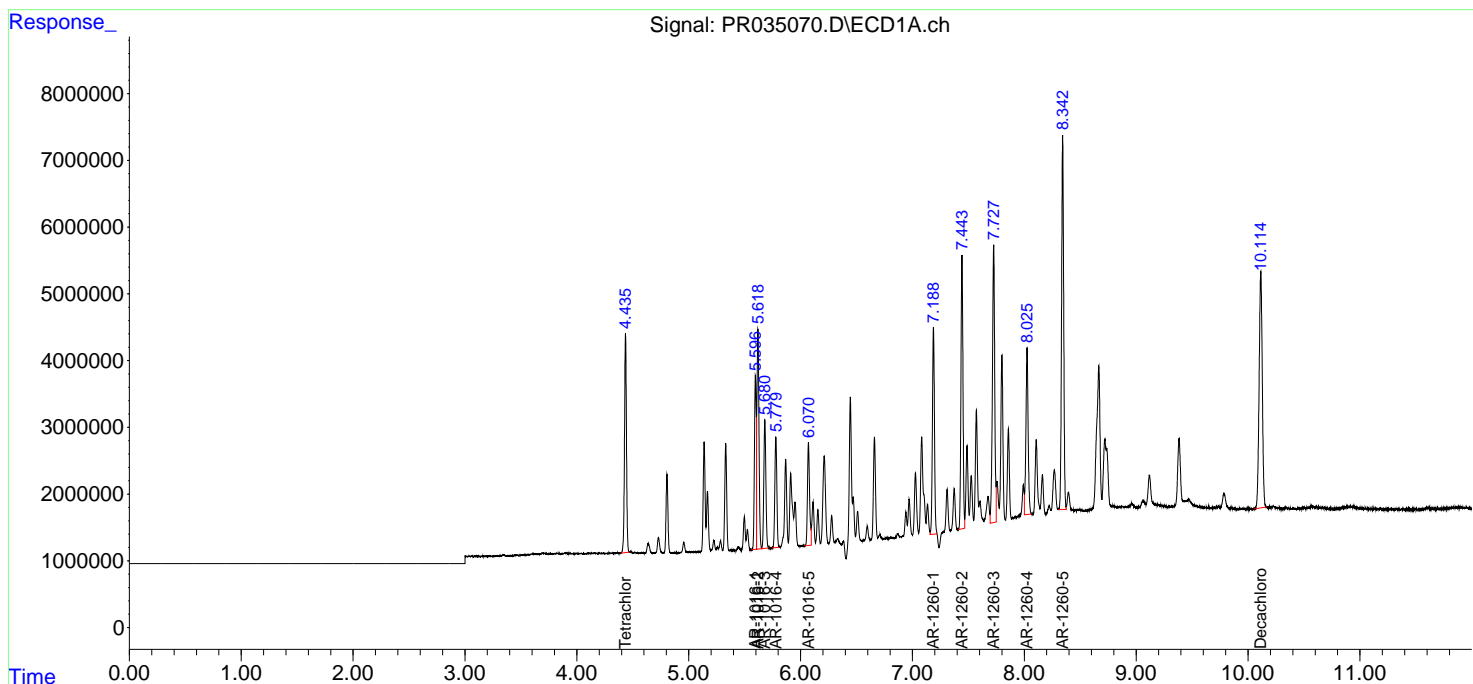
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035070.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 08:11
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:07:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035070.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 08:11
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:07:50 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.435 | 3.513 | 39879693 | 79603058 | 20.503 | 22.835 |
| 2) SA Decachlor... | 10.114 | 8.403 | 69152287 | 151.5E6 | 35.175 | 34.465 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.597 | 4.569 | 29112652 | 58092404 | 431.278 | 446.437 |
| 4) L1 AR-1016-2 | 5.619 | 4.587 | 42004993 | 86058228 | 424.178 | 435.407 |
| 5) L1 AR-1016-3 | 5.681 | 4.759 | 24681135 | 43746886 | 419.350 | 455.147 |
| 6) L1 AR-1016-4 | 5.779 | 4.800 | 20752131 | 33761320 | 437.468 | 446.880 |
| 7) L1 AR-1016-5 | 6.071 | 5.008 | 20174939 | 47127942 | 423.598 | 458.328 |
| 31) L7 AR-1260-1 | 7.188 | 6.021 | 39279283 | 93295140 | 417.829 | 433.987 |
| 32) L7 AR-1260-2 | 7.443 | 6.206 | 50765829 | 127.9E6 | 437.255 | 470.021 |
| 33) L7 AR-1260-3 | 7.727 | 6.357 | 58765060 | 107.1E6 | 421.085 | 431.400 |
| 34) L7 AR-1260-4 | 8.025 | 6.822 | 34392678 | 72726435 | 398.231 | 425.325 |
| 35) L7 AR-1260-5 | 8.343 | 7.063 | 74340309 | 202.1E6 | 411.735 | 417.854 |
| ----- | | | | | | |

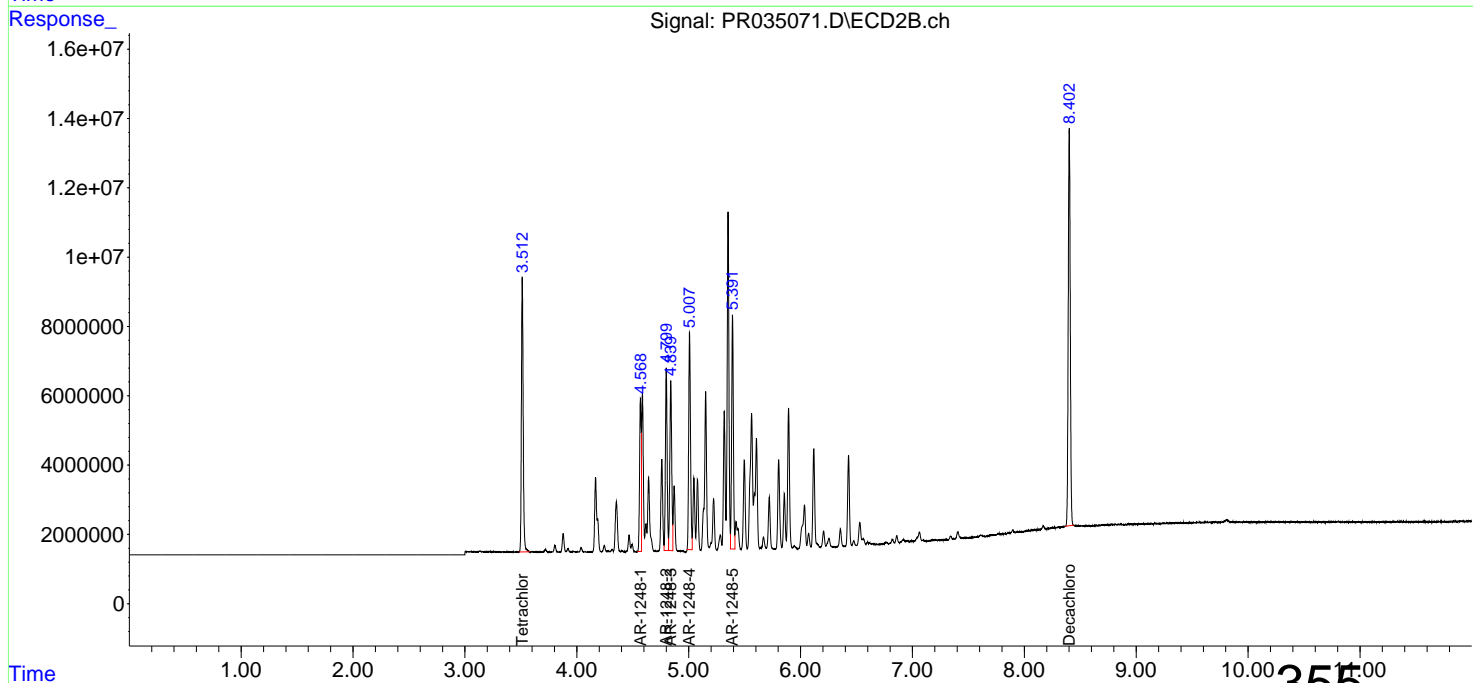
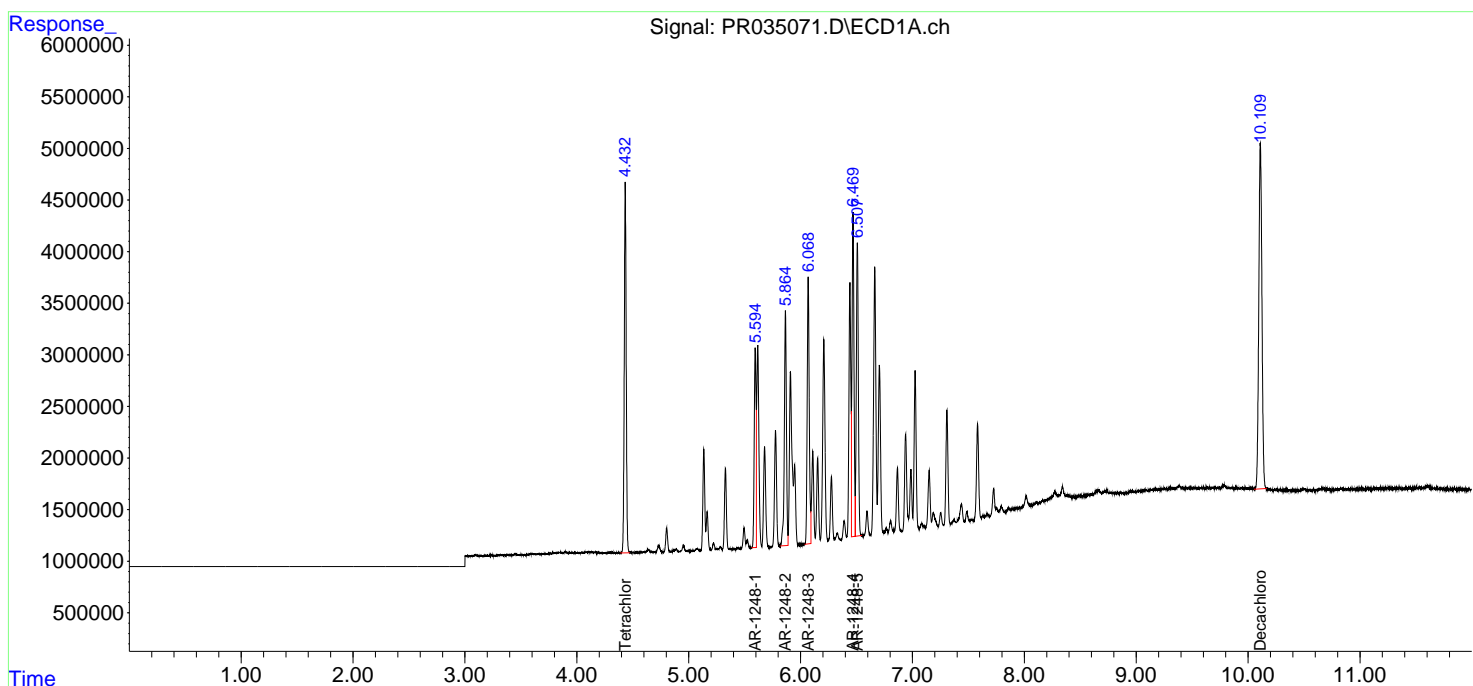
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035071.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 09:16
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1248335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035071.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 09:16
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:11 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.433 | 3.513 | 42995603 | 86879477 | 22.105 | 24.922 |
| 2) SA Decachlor... | 10.109 | 8.402 | 65387694 | 142.5E6 | 33.261 | 32.421 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.594 | 4.569 | 22087191 | 44186613 | 455.194 | 453.188 |
| 22) L5 AR-1248-2 | 5.865 | 4.799 | 29450163 | 56062227 | 445.718 | 437.636 |
| 23) L5 AR-1248-3 | 6.068 | 4.840 | 32975615 | 57621243 | 441.352 | 436.600 |
| 24) L5 AR-1248-4 | 6.469 | 5.008 | 38304140 | 70368237 | 428.717 | 427.692 |
| 25) L5 AR-1248-5 | 6.508 | 5.392 | 35530334 | 72511809 | 424.657 | 433.280 |
| ----- | | | | | | |

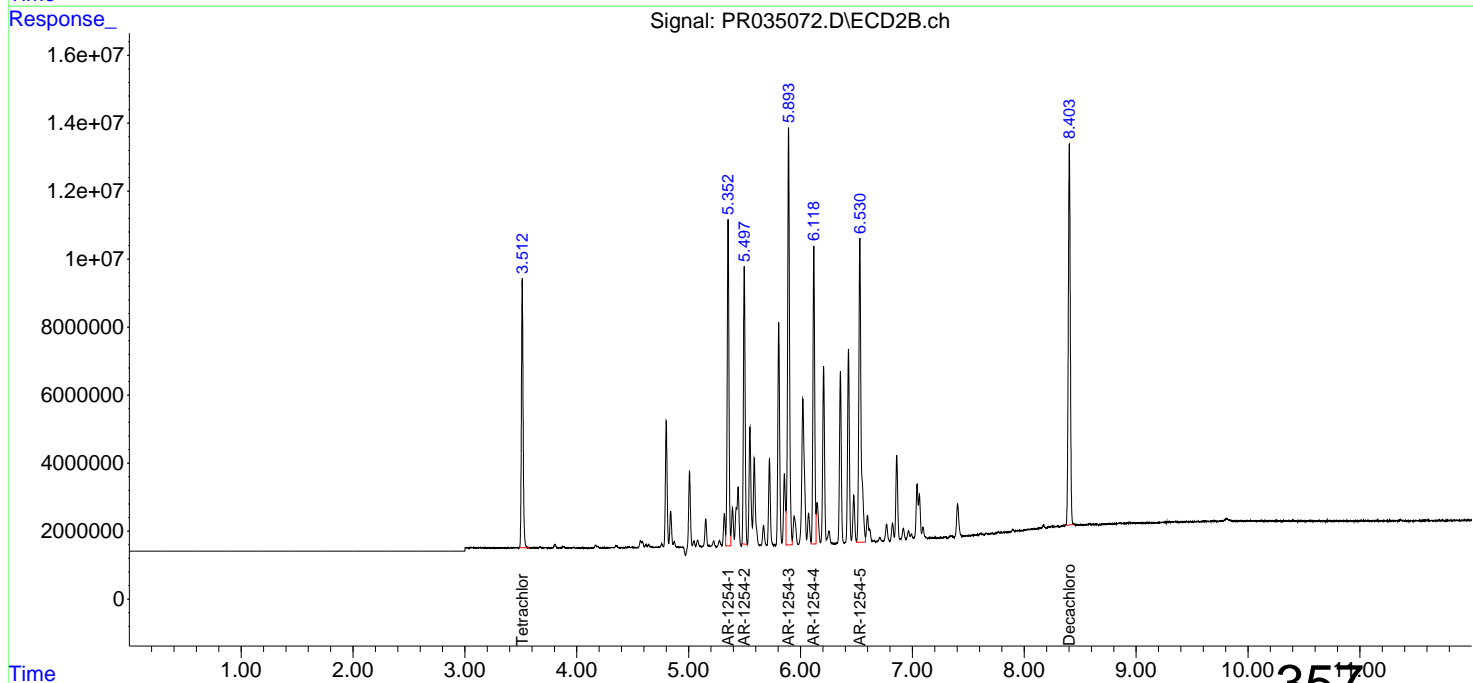
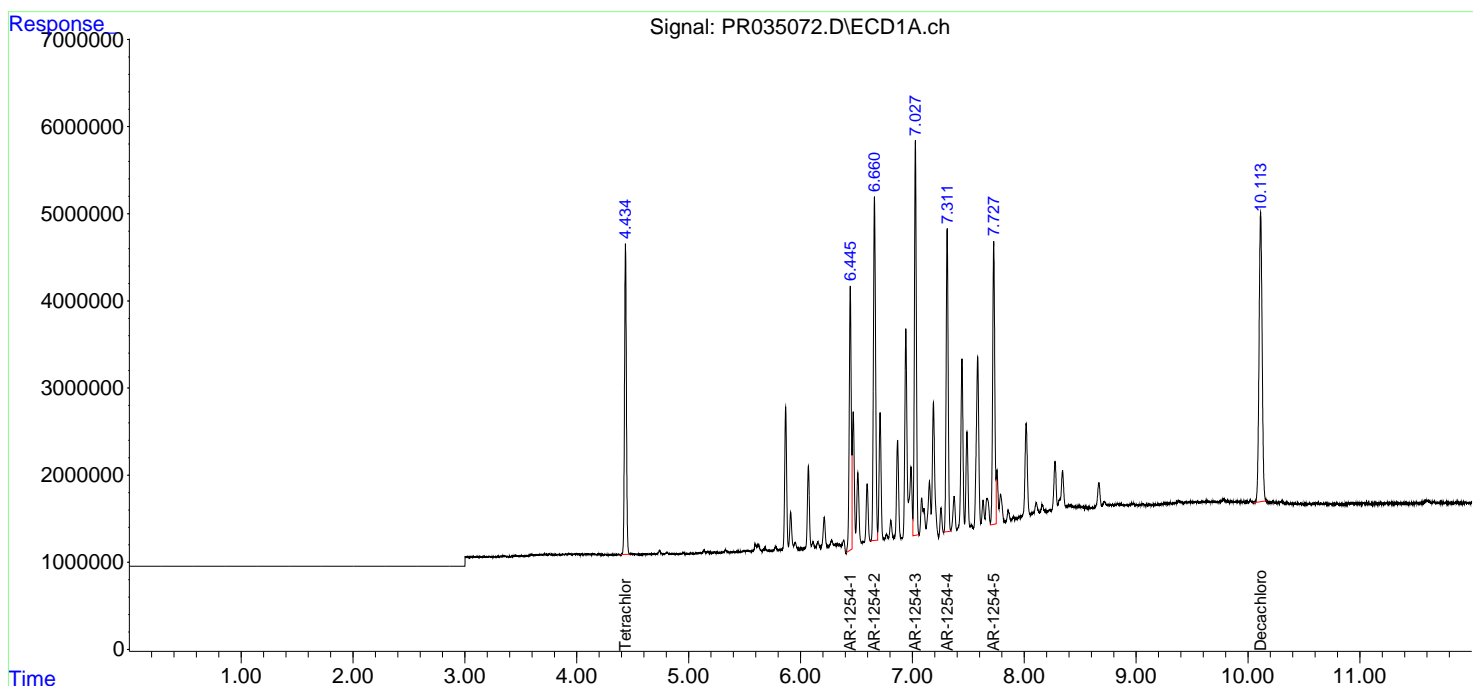
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035072.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 09:47
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:34 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035072.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 09:47
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1254335

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:08:34 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.435 | 3.513 | 41757831 | 84352666 | 21.469 | 24.197 |
| 2) SA Decachlor... | 10.113 | 8.403 | 63581137 | 140.0E6 | 32.342 | 31.841 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.445 | 5.353 | 37691649 | 103.9E6 | 461.314 | 424.803 |
| 27) L6 AR-1254-2 | 6.661 | 5.497 | 53499811 | 87283750 | 418.698 | 410.381 |
| 28) L6 AR-1254-3 | 7.027 | 5.893 | 55143592 | 146.8E6 | 408.556 | 410.879 |
| 29) L6 AR-1254-4 | 7.311 | 6.119 | 43494258 | 97346632 | 410.022 | 412.153 |
| 30) L6 AR-1254-5 | 7.727 | 6.530 | 42610632 | 126.4E6 | 397.697 | 396.211 |
| ----- | | | | | | |

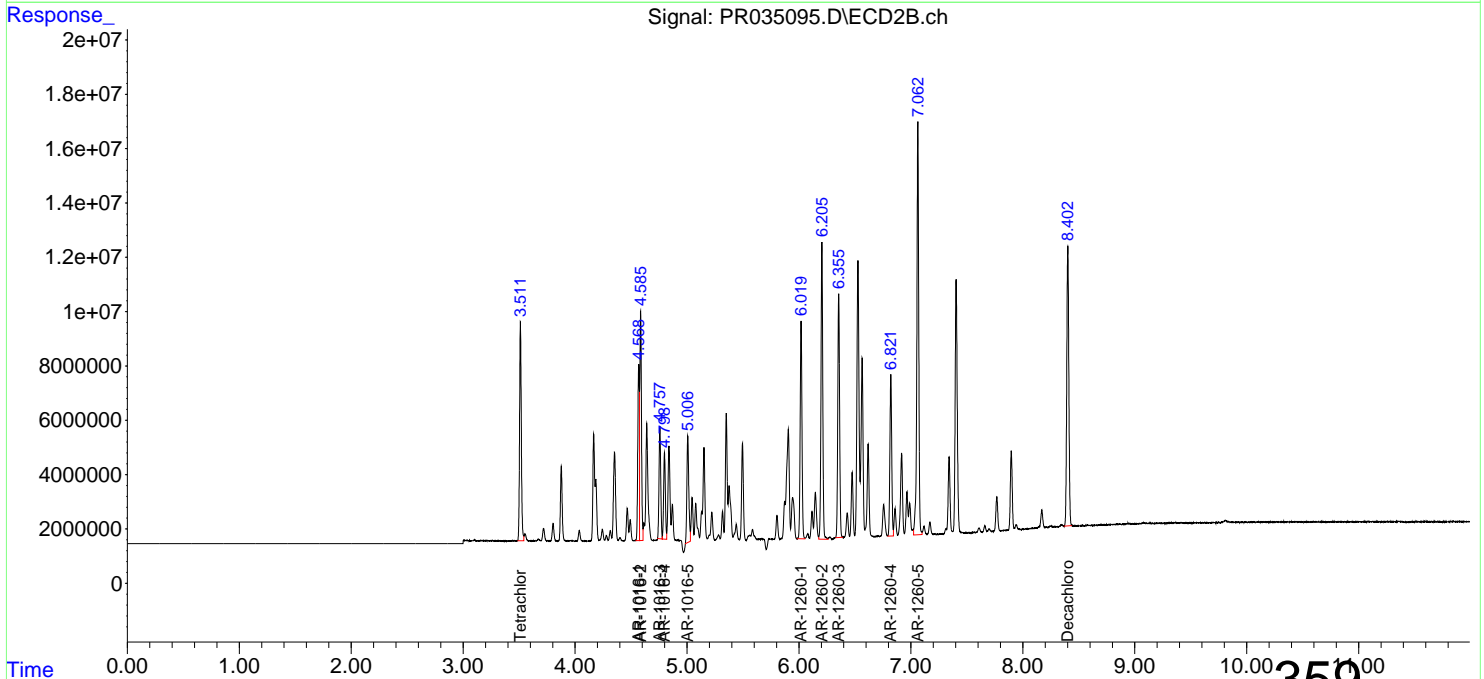
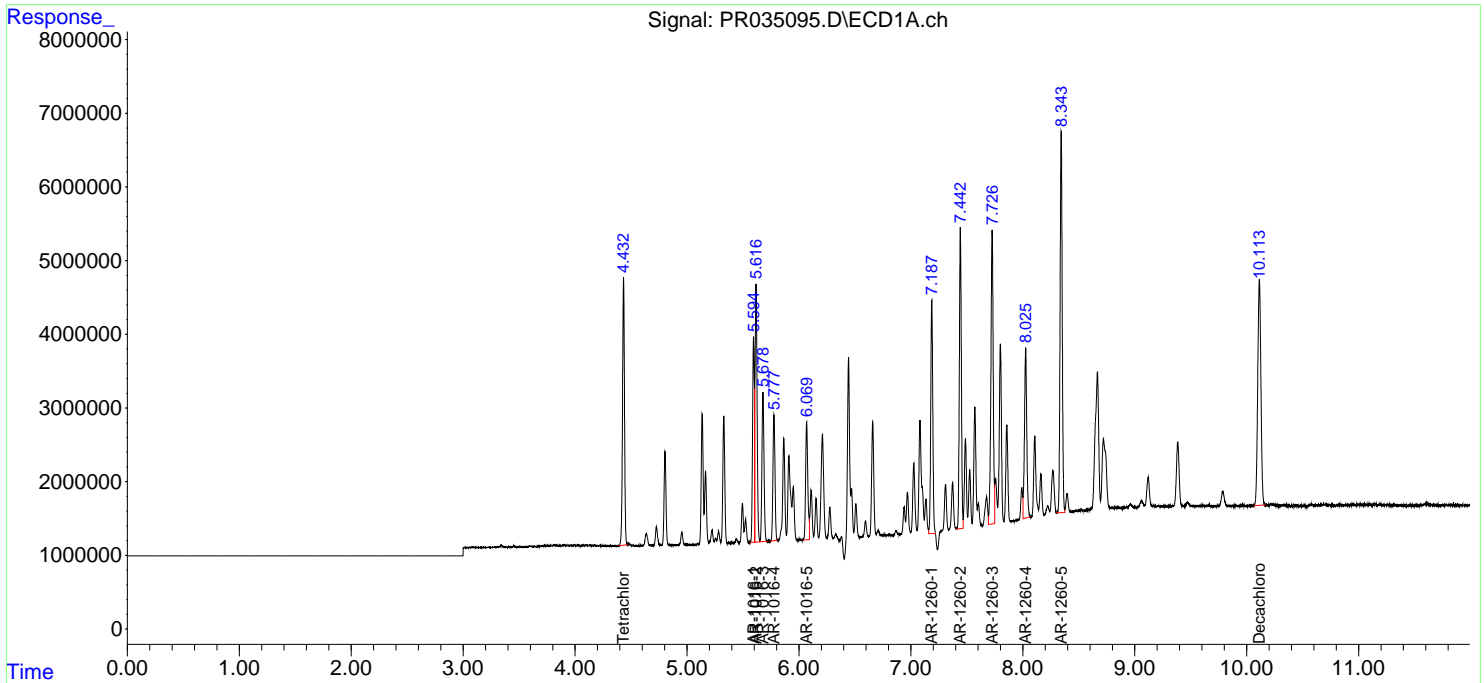
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035095.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1660336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035095.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 16:09
 Operator : SM\SJ
 Sample : AR1660CCC400
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1660336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.433 | 3.512 | 44209923 | 86545447 | 22.730 | 24.826 |
| 2) SA Decachlor... | 10.113 | 8.402 | 60120953 | 130.5E6 | 30.582 | 29.683 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.595 | 4.569 | 30923931 | 60160888 | 458.111 | 462.333 |
| 4) L1 AR-1016-2 | 5.617 | 4.586 | 44006464 | 88462946 | 444.389 | 447.573 |
| 5) L1 AR-1016-3 | 5.679 | 4.757 | 26085779 | 43957391 | 443.216 | 457.337 |
| 6) L1 AR-1016-4 | 5.777 | 4.799 | 21740319 | 34141253 | 458.300 | 451.909 |
| 7) L1 AR-1016-5 | 6.069 | 5.007 | 21502090 | 46682371 | 451.463 | 453.995 |
| 31) L7 AR-1260-1 | 7.187 | 6.019 | 39955409 | 89009347 | 425.021 | 414.051 |
| 32) L7 AR-1260-2 | 7.442 | 6.205 | 50462415 | 120.6E6 | 434.642 | 443.017 |
| 33) L7 AR-1260-3 | 7.726 | 6.355 | 57234432 | 100.7E6 | 410.117 | 405.820 |
| 34) L7 AR-1260-4 | 8.026 | 6.821 | 33100434 | 67197831 | 383.268 | 392.992 |
| 35) L7 AR-1260-5 | 8.343 | 7.063 | 68496306 | 179.5E6 | 379.368 | 371.155 |

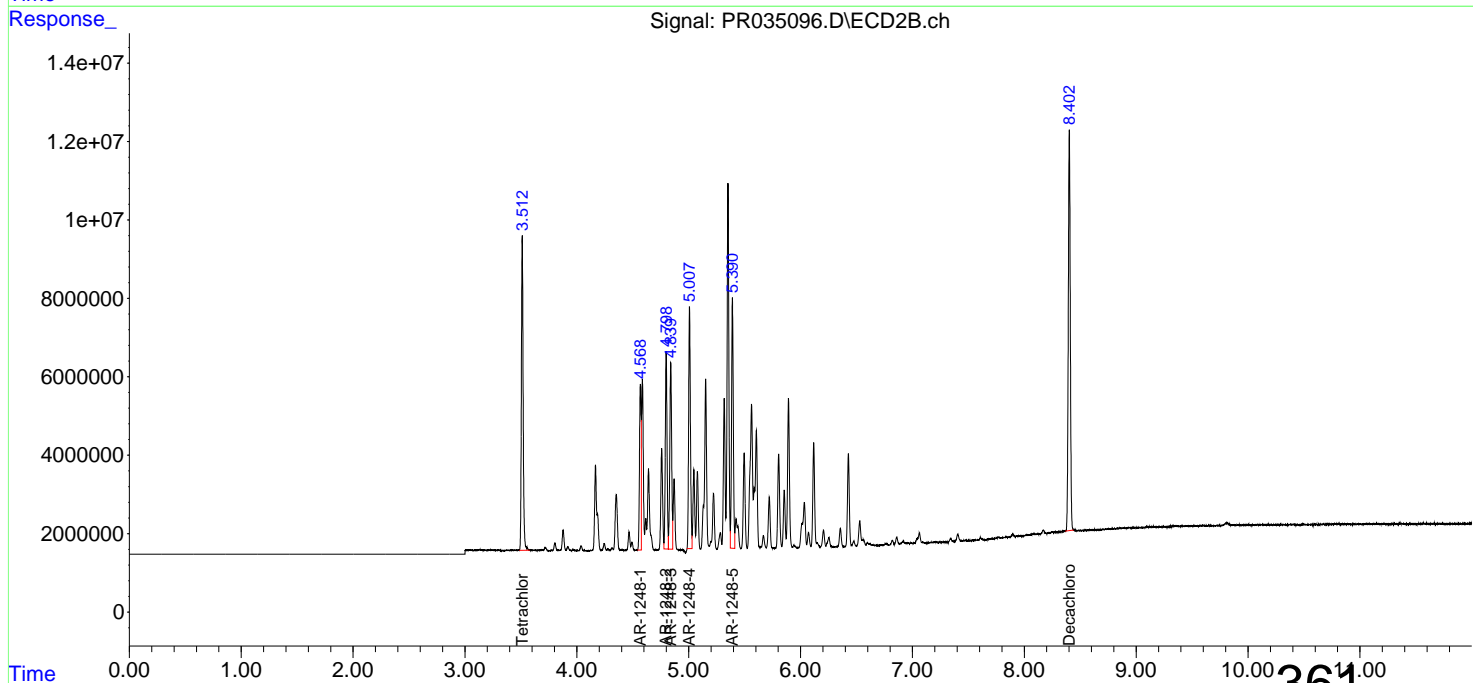
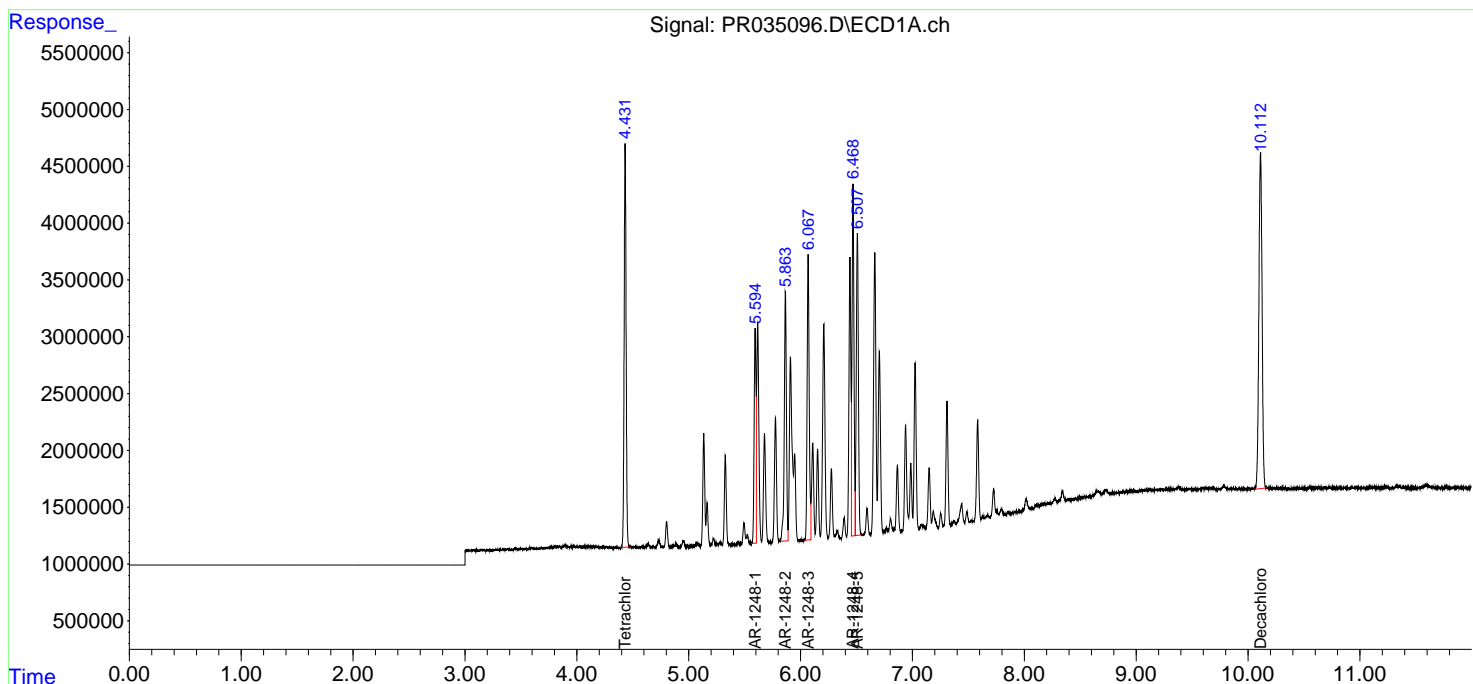
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035096.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 16:40
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1248336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035096.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 16:40
 Operator : SM\SJ
 Sample : AR1248CCC400
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AR1248336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:57 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.432 | 3.512 | 43465888 | 87700375 | 22.347 | 25.158 |
| 2) SA Decachlor... | 10.112 | 8.403 | 58697106 | 126.8E6 | 29.857 | 28.834 |
| Target Compounds | | | | | | |
| 21) L5 AR-1248-1 | 5.594 | 4.569 | 21886794 | 43564286 | 451.064 | 446.805 |
| 22) L5 AR-1248-2 | 5.865 | 4.799 | 28890826 | 54461876 | 437.253 | 425.143 |
| 23) L5 AR-1248-3 | 6.068 | 4.840 | 32352268 | 55700955 | 433.009 | 422.050 |
| 24) L5 AR-1248-4 | 6.469 | 5.007 | 37313989 | 68170561 | 417.635 | 414.334 |
| 25) L5 AR-1248-5 | 6.508 | 5.391 | 34663181 | 69307145 | 414.293 | 414.131 |
| ----- | | | | | | |

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

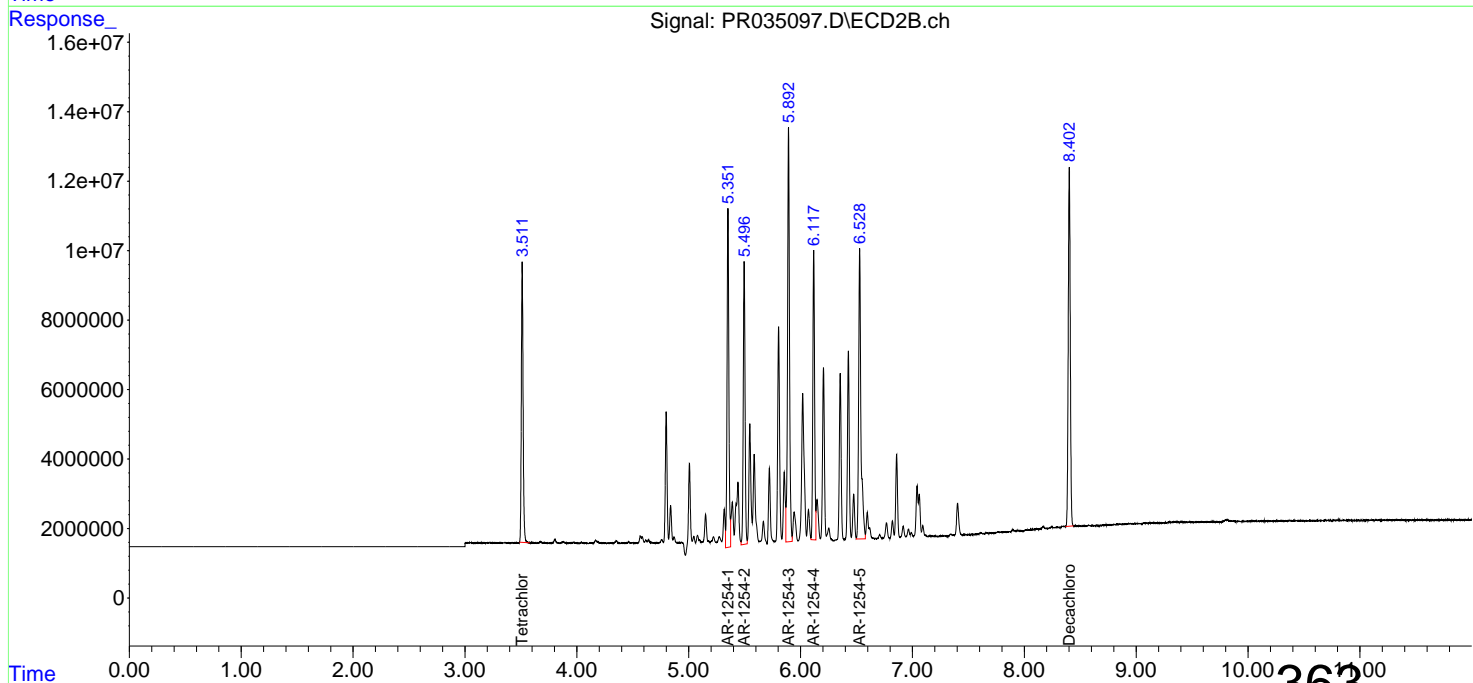
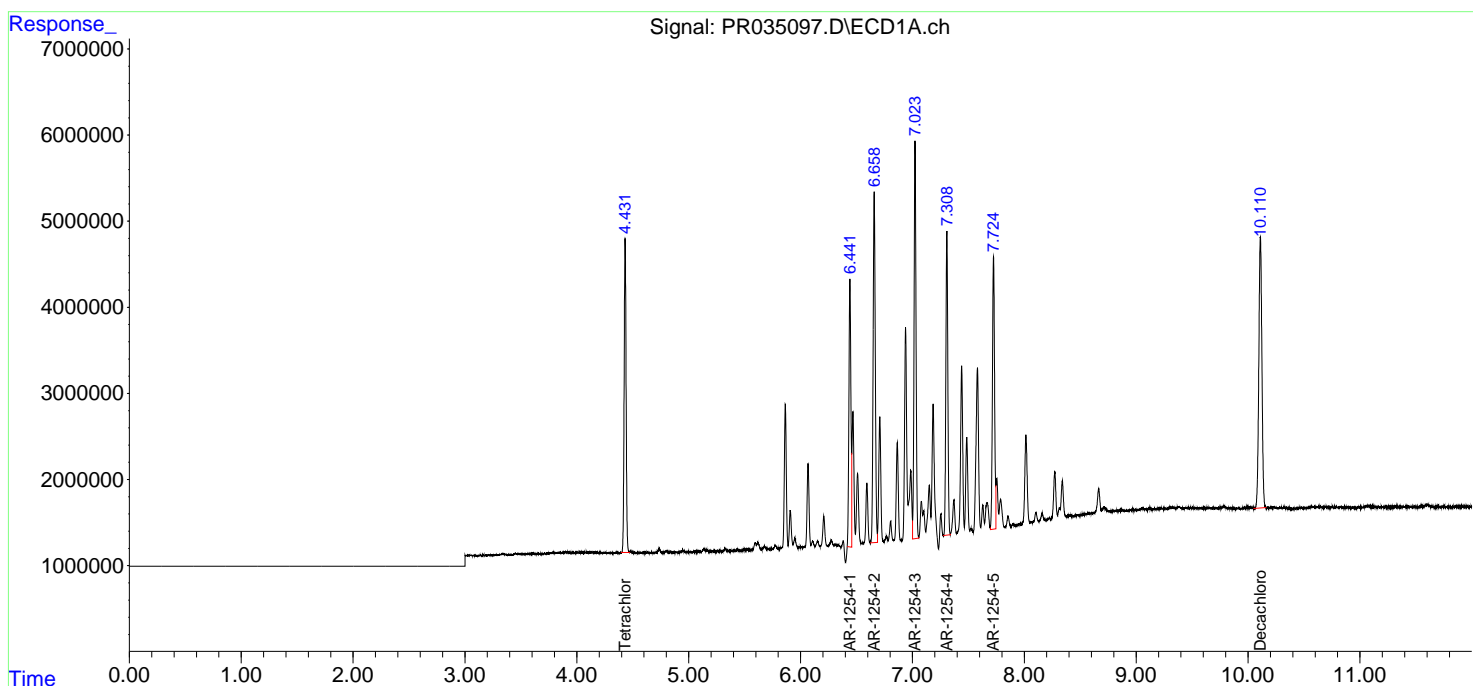
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AR1254336

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleId :
 AR1254336

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.431 | 3.512 | 44330221 | 88491889 | 22.792m | 25.385 |
| 2) SA Decachlor... | 10.110 | 8.402 | 60010730 | 130.3E6 | 30.525 | 29.636 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.441 | 5.351 | 39322628 | 110.0E6 | 481.276m | 449.513 |
| 27) L6 AR-1254-2 | 6.659 | 5.496 | 54778862 | 90057759 | 428.708 | 423.424 |
| 28) L6 AR-1254-3 | 7.024 | 5.892 | 56417614 | 143.6E6 | 417.995 | 401.831 |
| 29) L6 AR-1254-4 | 7.308 | 6.118 | 43334340 | 92552179 | 408.514 | 391.854 |
| 30) L6 AR-1254-5 | 7.725 | 6.529 | 41787452 | 118.3E6 | 390.014 | 371.018 |
| ----- | | | | | | |

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

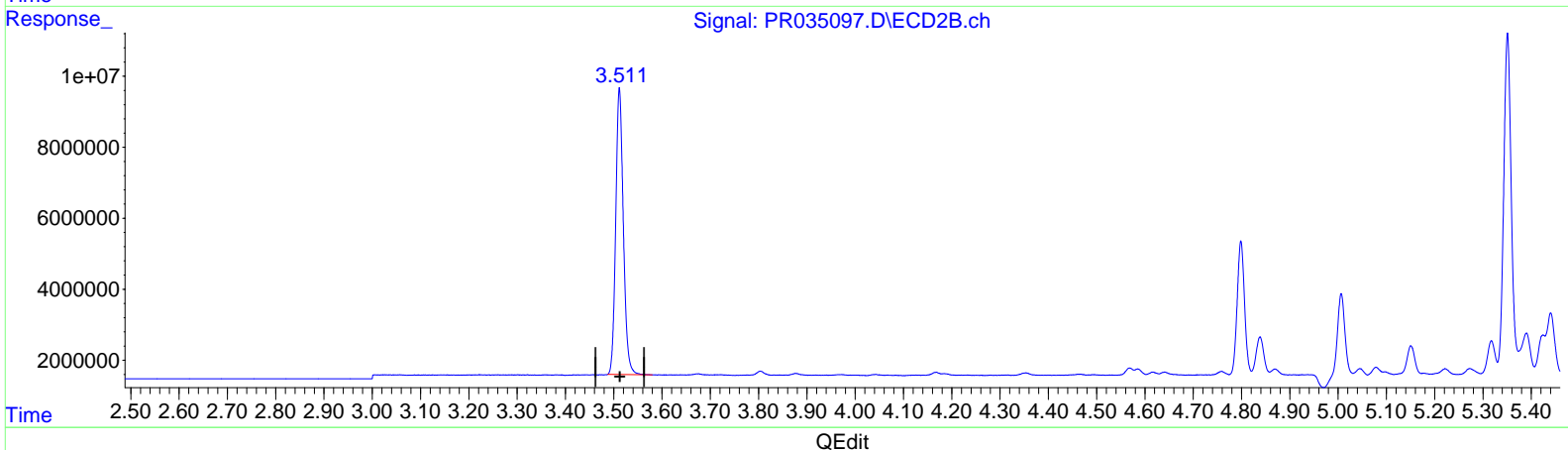
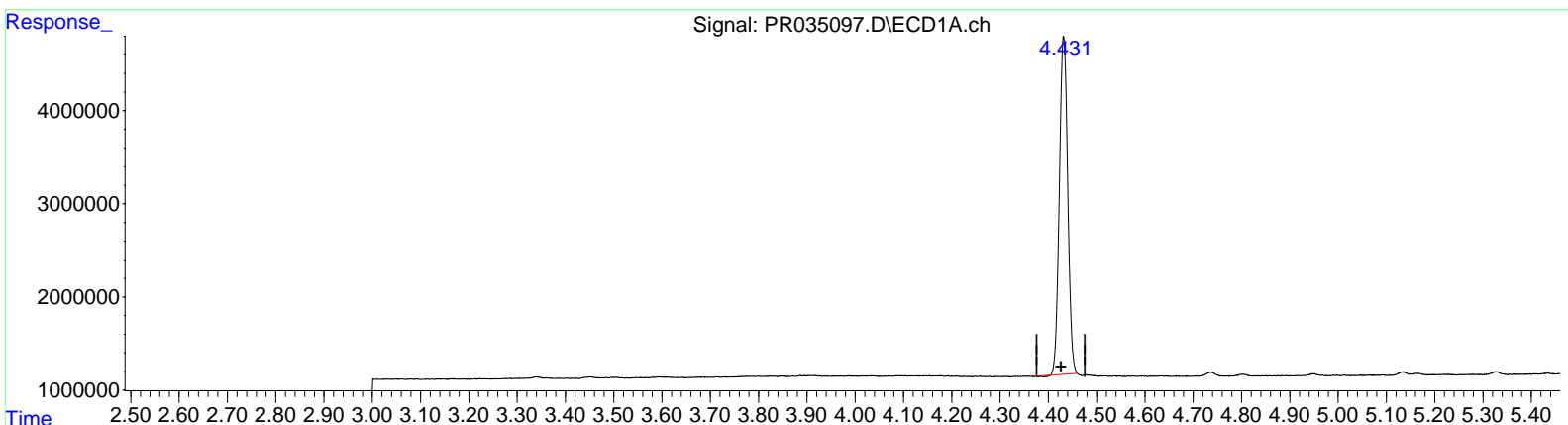
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1254336

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.432min 22.380 ng/ml
 response 43529341

(1) Tetrachloro-m-xylene #2 (SA)

3.512min 25.385 ng/ml
 response 88491889

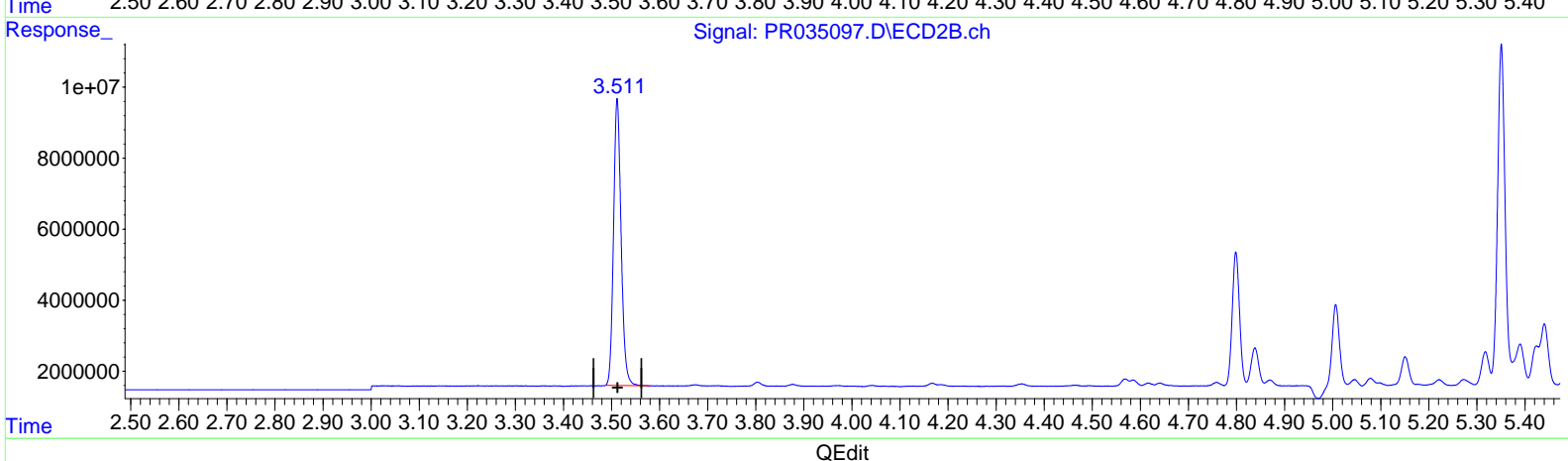
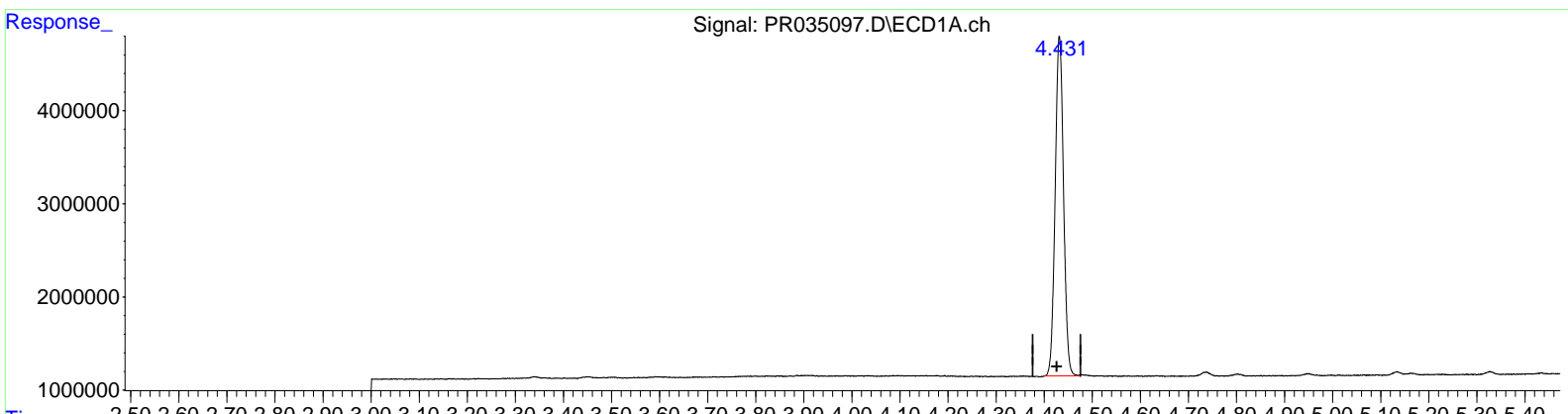
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AR1254336

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.431min 22.792 ng/ml m
 response 44330221

(1) Tetrachloro-m-xylene #2 (SA)
 3.512min 25.385 ng/ml
 response 88491889

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

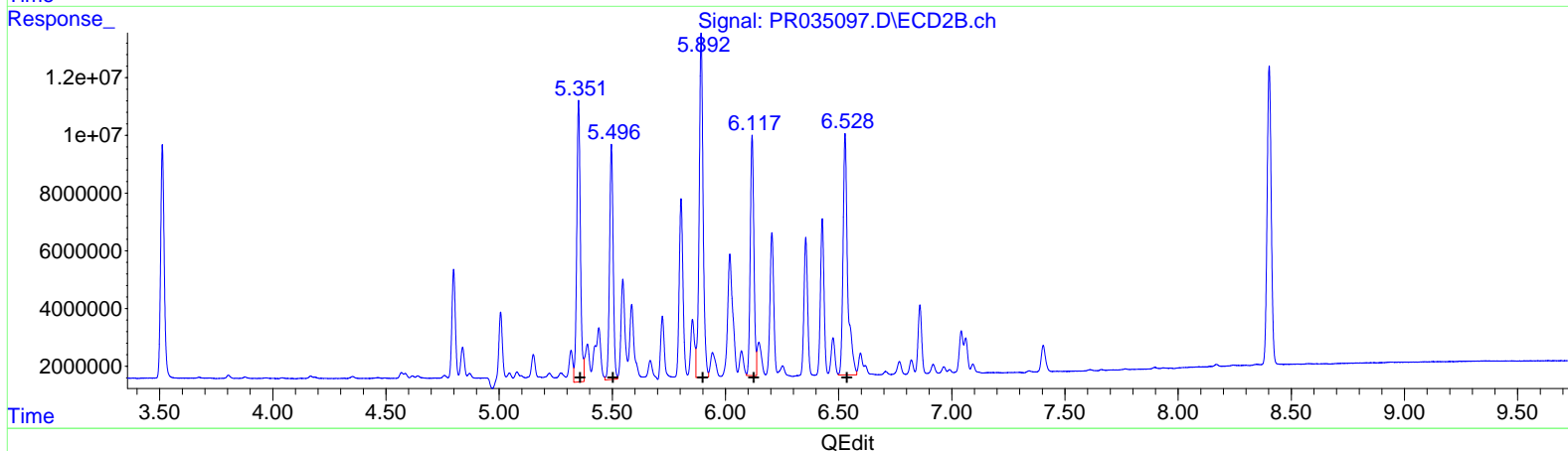
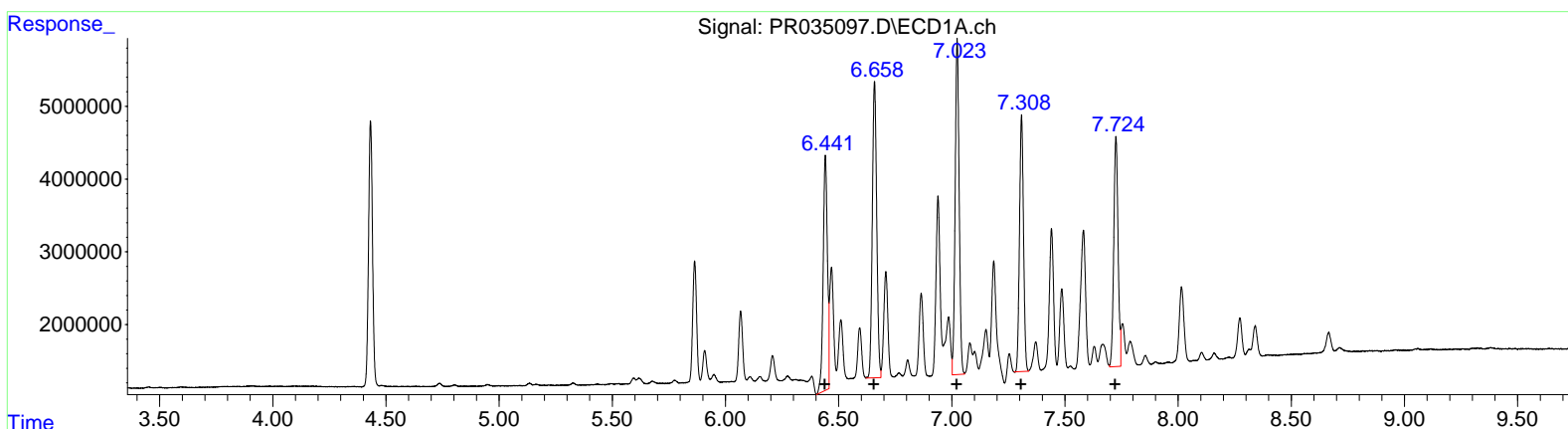
Instrument :
 ECD_R
 ClientSampled :
 AR1254336

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



| (26) AR-1254-1 (L6) | | |
|------------------------|-----------|--------|
| R.T. | Response | Conc |
| 6.44 | 42228845 | 516.85 |
| 6.66 | 54778862 | 428.71 |
| 7.02 | 56417614 | 417.99 |
| 7.31 | 43334340 | 408.51 |
| 7.73 | 41787452 | 390.01 |
| (26) AR-1254-1 #2 (L6) | | |
| R.T. | Response | Conc |
| 5.35 | 109992979 | 449.51 |
| 5.50 | 90057759 | 423.42 |
| 5.89 | 143581724 | 401.83 |
| 6.12 | 92552179 | 391.85 |
| 6.53 | 118333028 | 371.02 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ
 Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

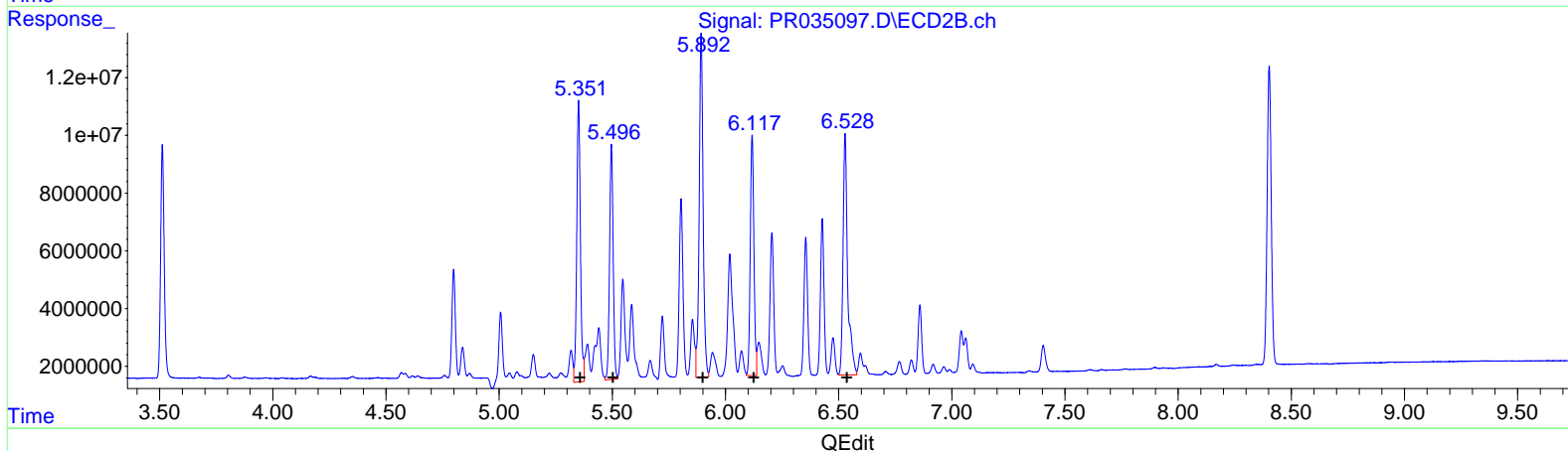
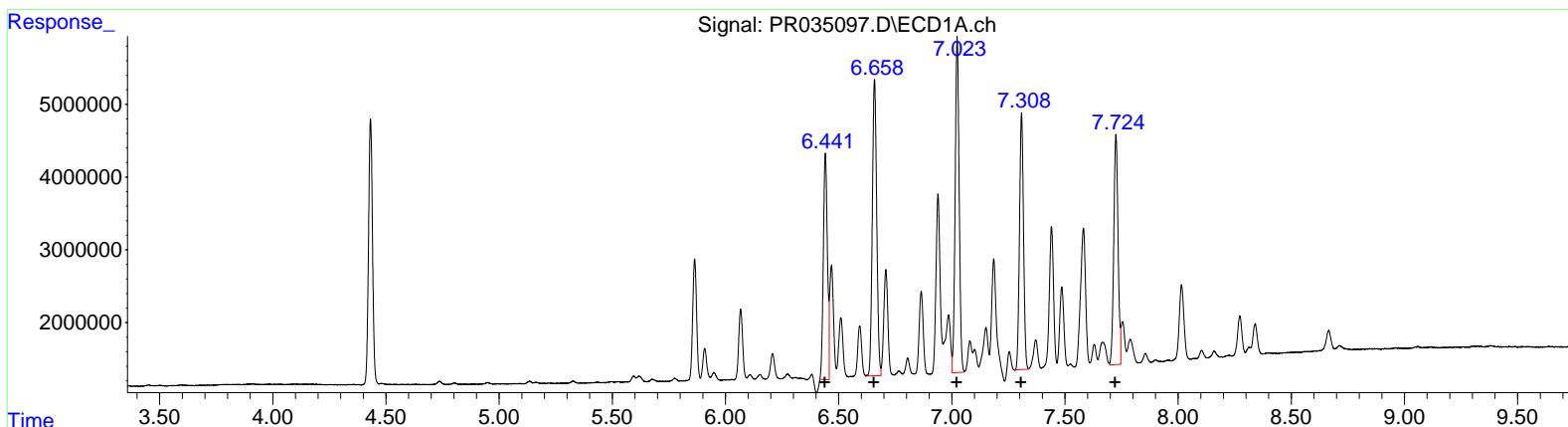
Instrument :
 ECD_R
 ClientSampled :
 AR1254336

Manual Integrations
 APPROVED

Sohil
 12/29/2018 12:18:19 PM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(26) AR-1254-1 (L6)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.44 | 39322628 | 481.28 |
| 6.66 | 54778862 | 428.71 |
| 7.02 | 56417614 | 417.99 |
| 7.31 | 43334340 | 408.51 |
| 7.73 | 41787452 | 390.01 |

(26) AR-1254-1 #2 (L6)

| R.T. | Response | Conc |
|------|-----------|--------|
| 5.35 | 109992979 | 449.51 |
| 5.50 | 90057759 | 423.42 |
| 5.89 | 143581724 | 401.83 |
| 6.12 | 92552179 | 391.85 |
| 6.53 | 118333028 | 371.02 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035097.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 17:10
 Operator : SM\SJ

Sample : AR1254CCC400
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 AR1254336

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 29 04:28:43 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/29/2018 12:18:19 PM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|---------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.431 | 3.512 | 44330221 | 88491889 | 22.792m | 25.385 |
| 2) SA Decachlor... | 10.110 | 8.402 | 60010730 | 130.3E6 | 30.525 | 29.636 |
| Target Compounds | | | | | | |
| 26) L6 AR-1254-1 | 6.441 | 5.351 | 39322628 | 110.0E6 | 481.276m | 449.513 |
| 27) L6 AR-1254-2 | 6.659 | 5.496 | 54778862 | 90057759 | 428.708 | 423.424 |
| 28) L6 AR-1254-3 | 7.024 | 5.892 | 56417614 | 143.6E6 | 417.995 | 401.831 |
| 29) L6 AR-1254-4 | 7.308 | 6.118 | 43334340 | 92552179 | 408.514 | 391.854 |
| 30) L6 AR-1254-5 | 7.725 | 6.529 | 41787452 | 118.3E6 | 390.014 | 371.018 |
| ----- | | | | | | |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ABLK57

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115757BL
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034957.D
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

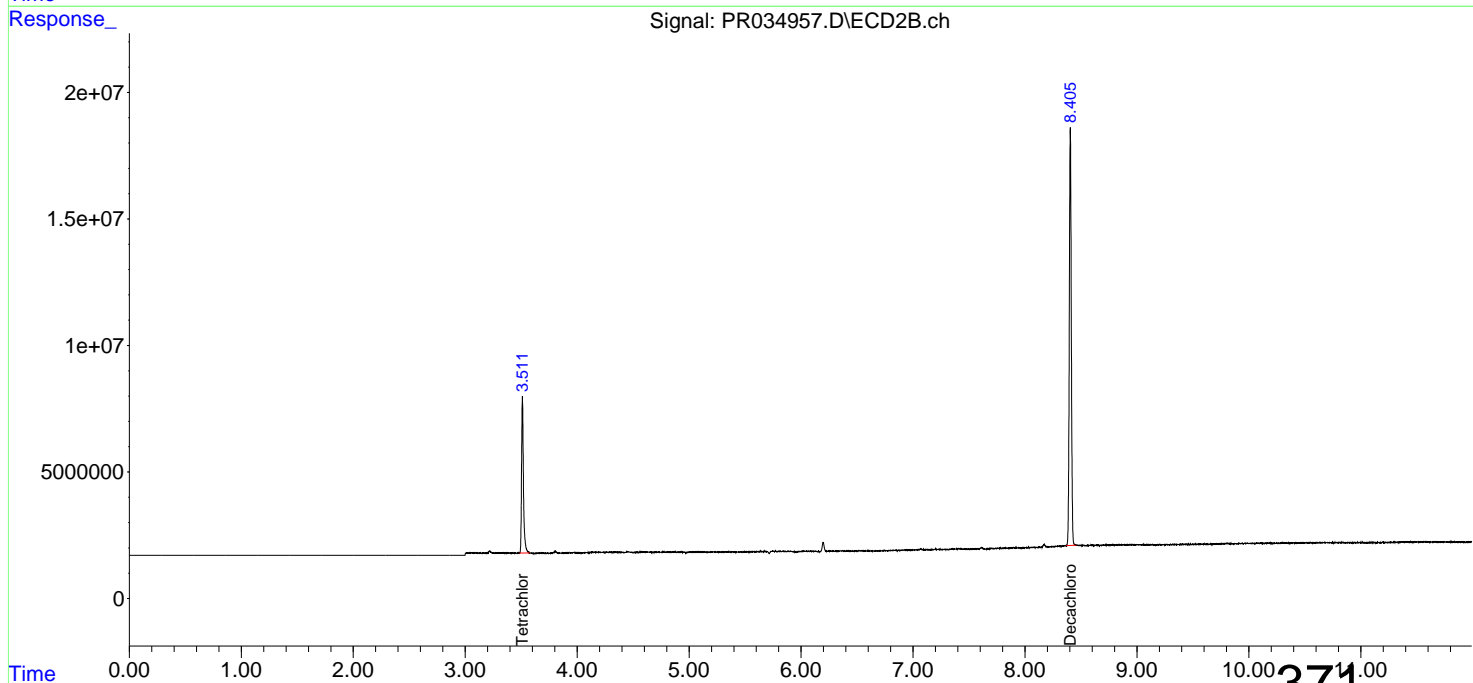
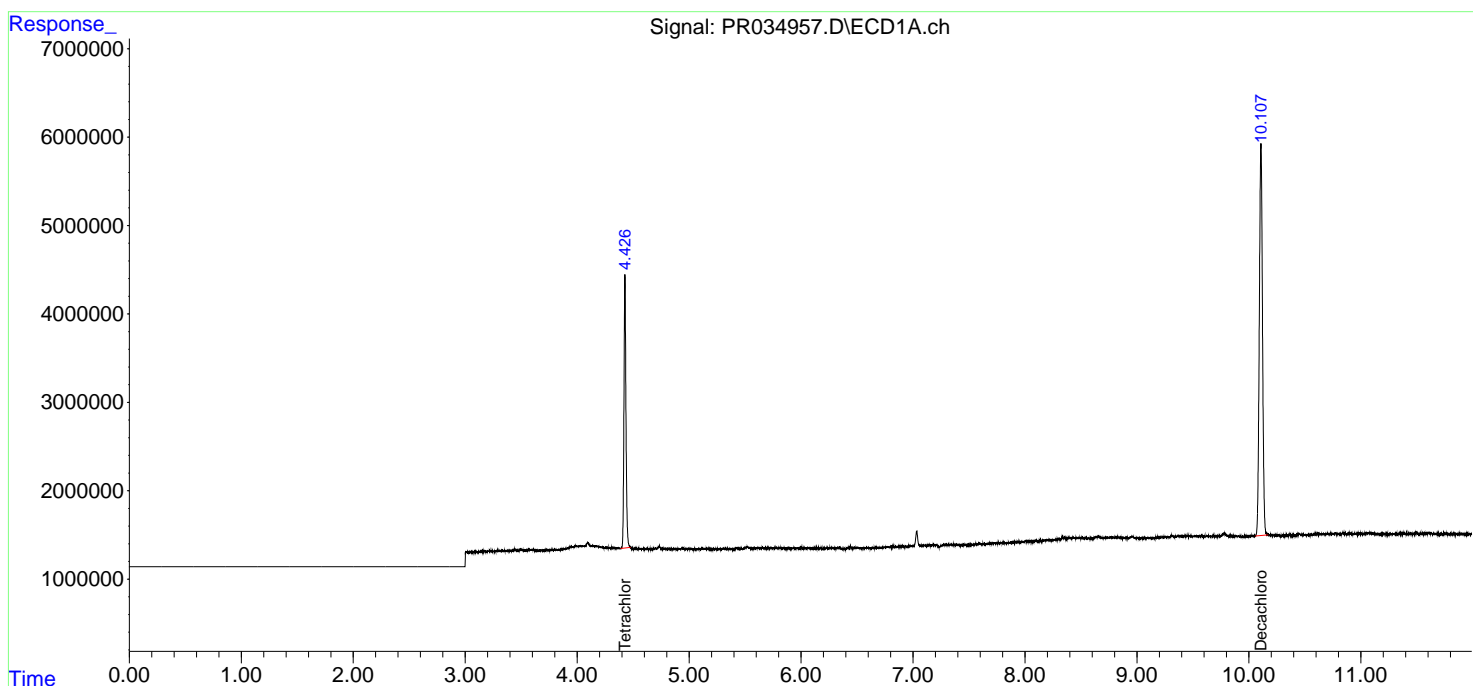
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 33 | U |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 33 | U |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
Data File : PR034957.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Dec 2018 10:12
Operator : SM\SJ
Sample : PB115757BL
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
ABLK57

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 21 22:54:15 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034957.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:12
 Operator : SM\SJ
 Sample : PB115757BL
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 ABLK57

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.511 | 38441789 | 71879733 | 19.764 | 20.619 |
| 2) SA Decachlor... | 10.108 | 8.405 | 87389769 | 205.7E6 | 44.452 | 46.776 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK83(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK83
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034731.D
 % Solids : _____ Date Received : 12/17/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/17/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK83(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK83
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034731.D-2
 % Solids : _____ Date Received : 12/17/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/17/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

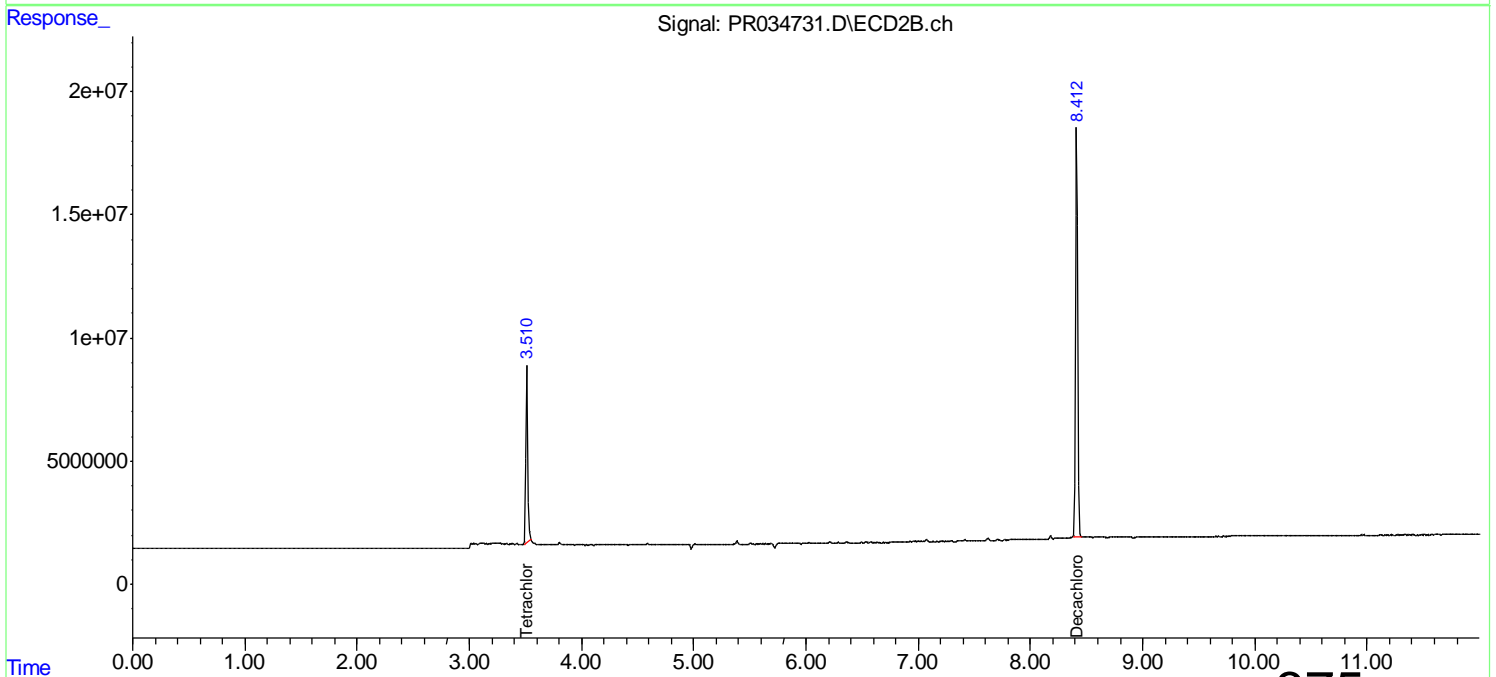
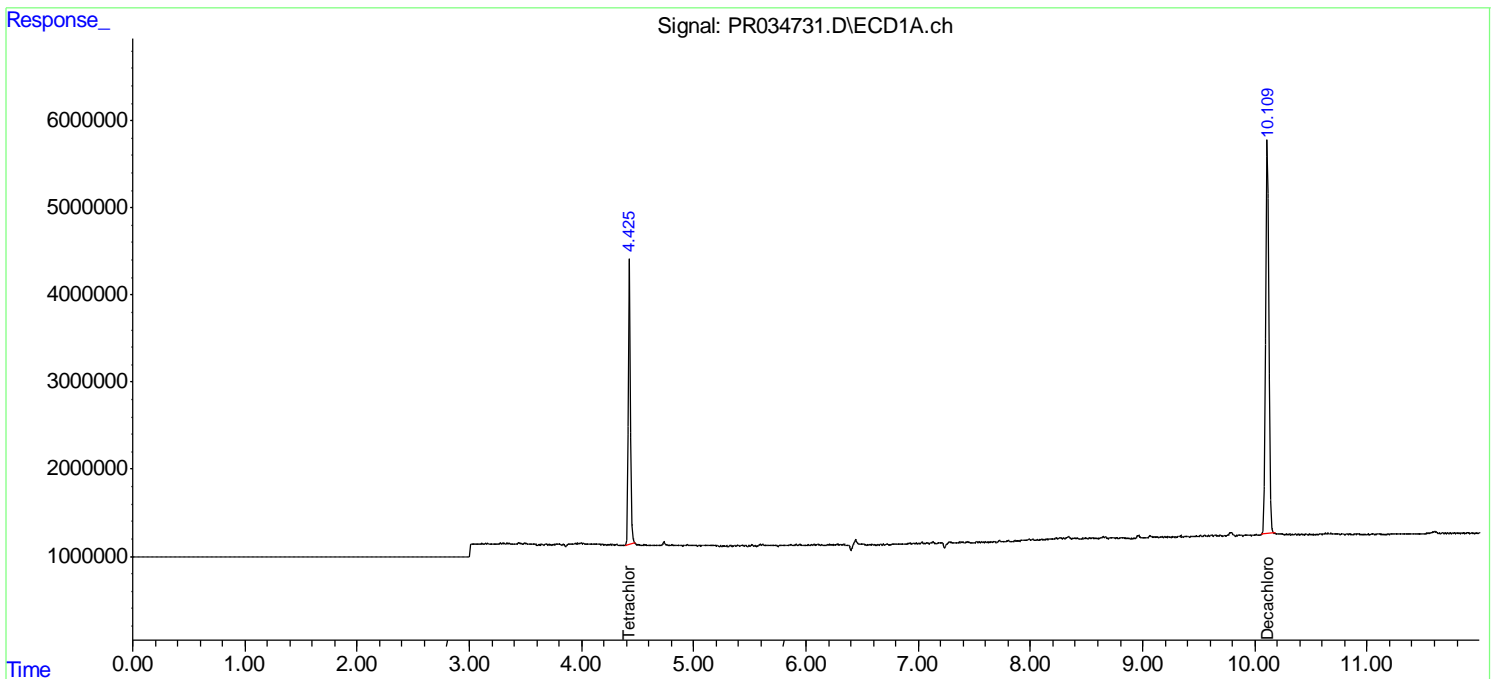
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
Data File : PR034731.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Dec 2018 20:58
Operator : SM\SJ
Sample : AIBLK83
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AIBLK83

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 18 01:58:19 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR121818\
 Data File : PR034731.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 17 Dec 2018 20:58
 Operator : SM\SJ
 Sample : AIBLK83
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AIBLK83

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 18 01:58:19 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|----------|------|------|--------|--------|-------|-------|
|----------|------|------|--------|--------|-------|-------|

 System Monitoring Compounds

| | | | | | | |
|--------------------|--------|-------|----------|----------|--------|--------|
| 1) SA Tetrachlo... | 4.425 | 3.511 | 42385691 | 82319143 | 21.792 | 23.614 |
| 2) SA Decachlor... | 10.110 | 8.413 | 90054463 | 209.8E6 | 45.808 | 47.708 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK95(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK95
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034952.D
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK95(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK95
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034952.D-2
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

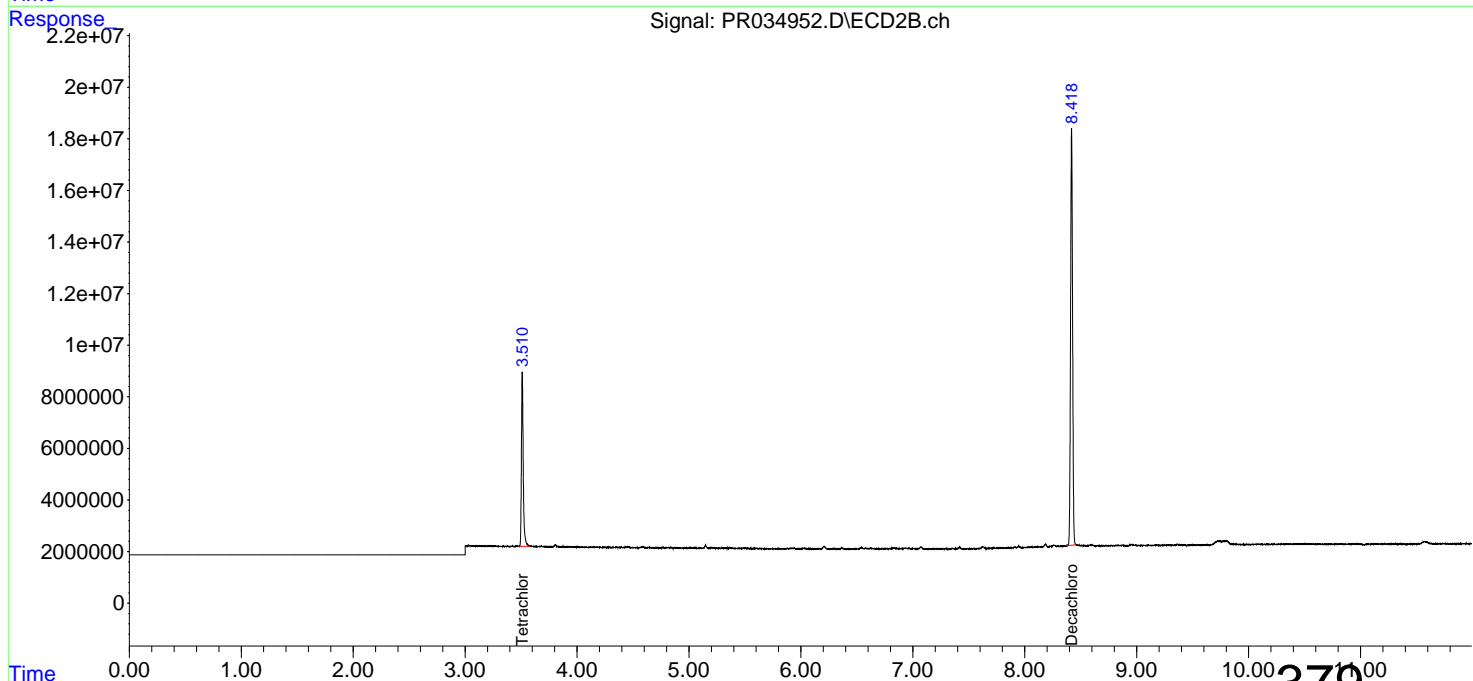
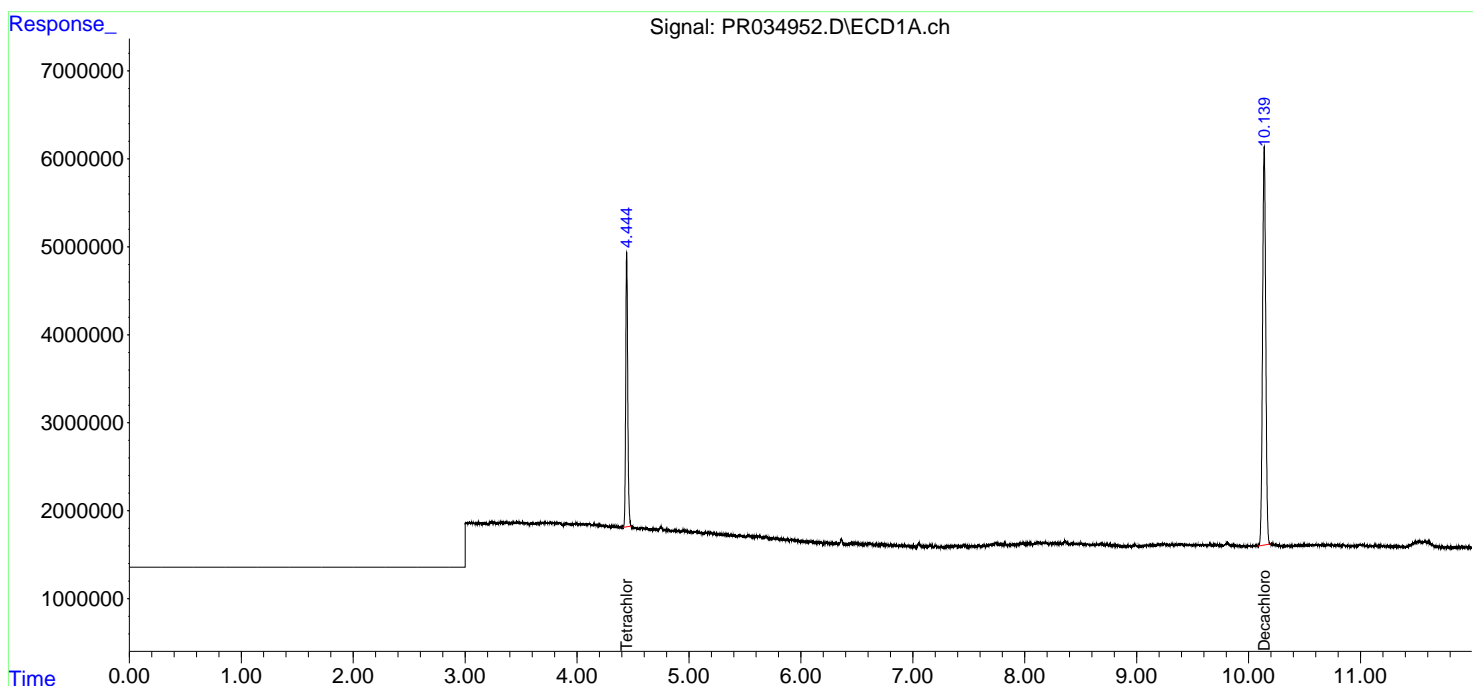
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034952.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 08:41
 Operator : SM\SJ
 Sample : AIBLK95
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK95

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:21 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034952.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 08:41
 Operator : SM\SJ
 Sample : AIBLK95
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK95

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:21 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.444 | 3.511 | 39148901 | 74564593 | 20.128m | 21.390 |
| 2) SA Decachlor... | 10.139 | 8.419 | 88991962 | 202.1E6 | 45.267m | 45.956 |

Target Compounds

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

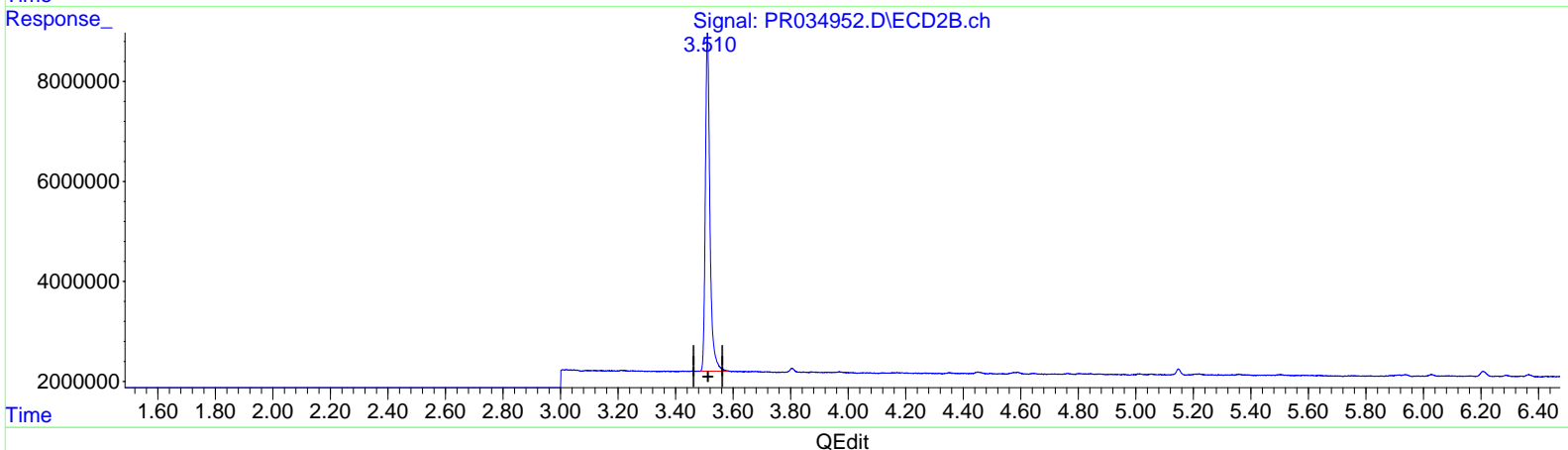
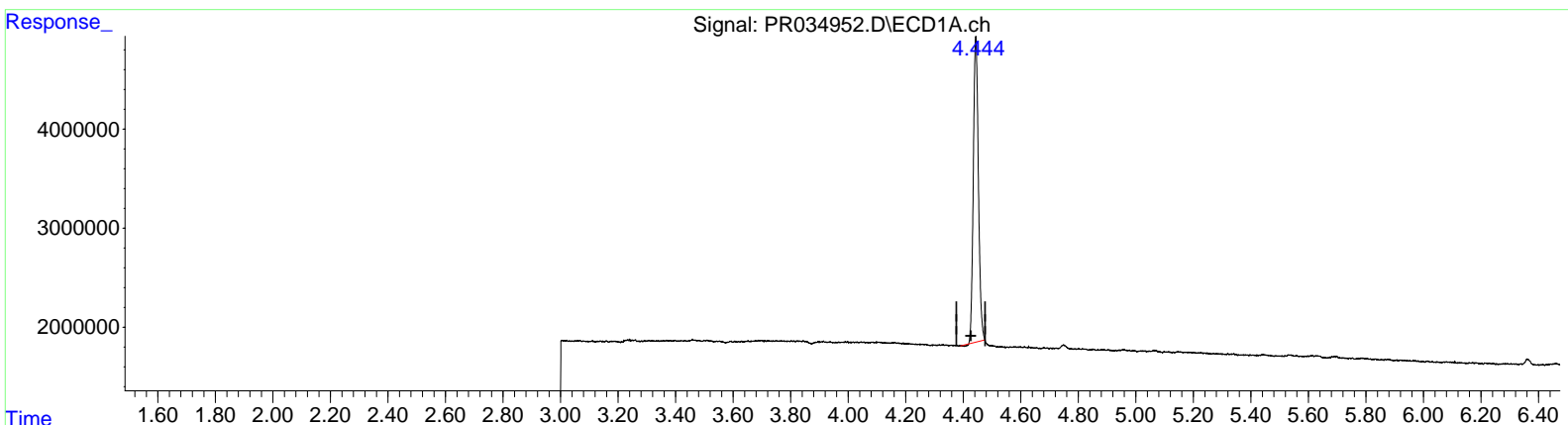
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034952.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 08:41
 Operator : SM\SJ
 Sample : AIBLK95
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK95

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:21 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)

4.444min 19.434 ng/ml
 response 37798994

(1) Tetrachloro-m-xylene #2 (SA)

3.511min 21.390 ng/ml
 response 74564593

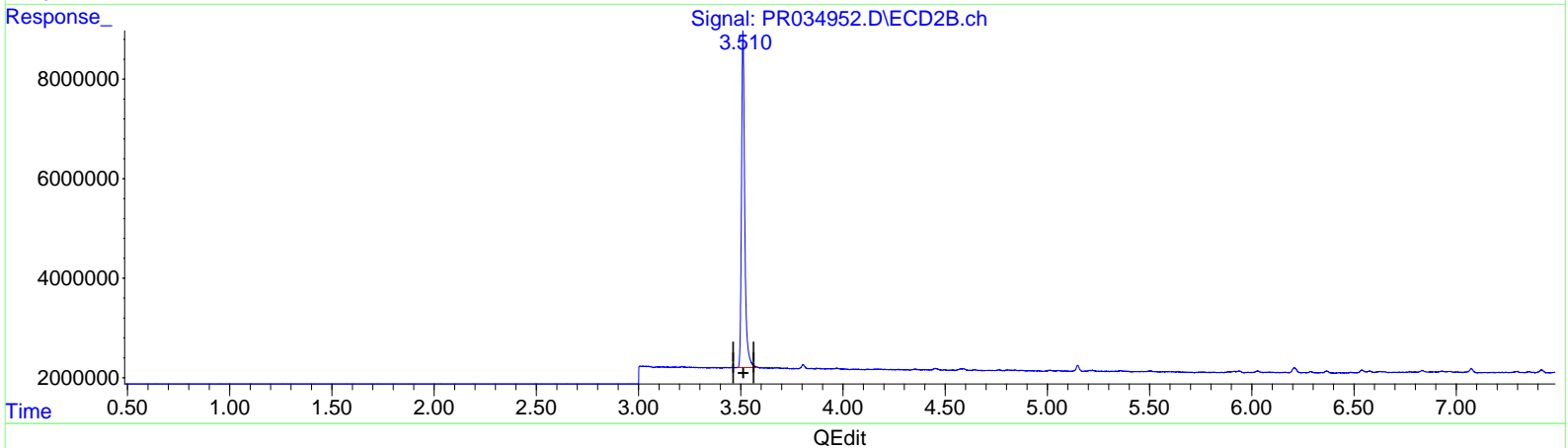
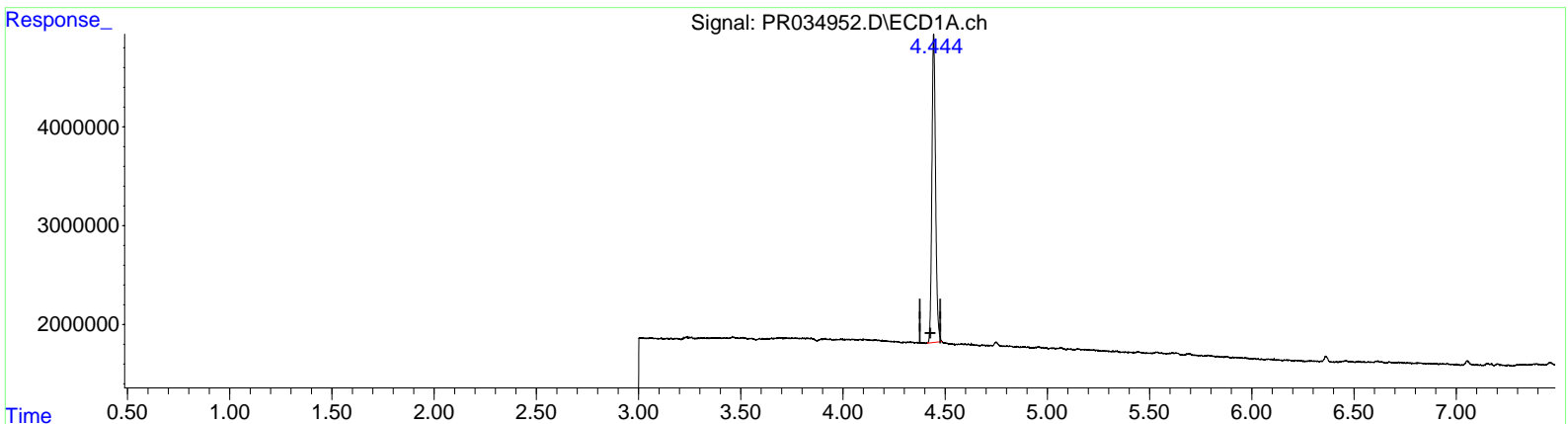
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034952.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 08:41
 Operator : SM\SJ
 Sample : AIBLK95
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK95

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:21 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(1) Tetrachloro-m-xylene (SA)
 4.444min 20.128 ng/ml m
 response 39148901

(1) Tetrachloro-m-xylene #2 (SA)
 3.511min 21.390 ng/ml
 response 74564593

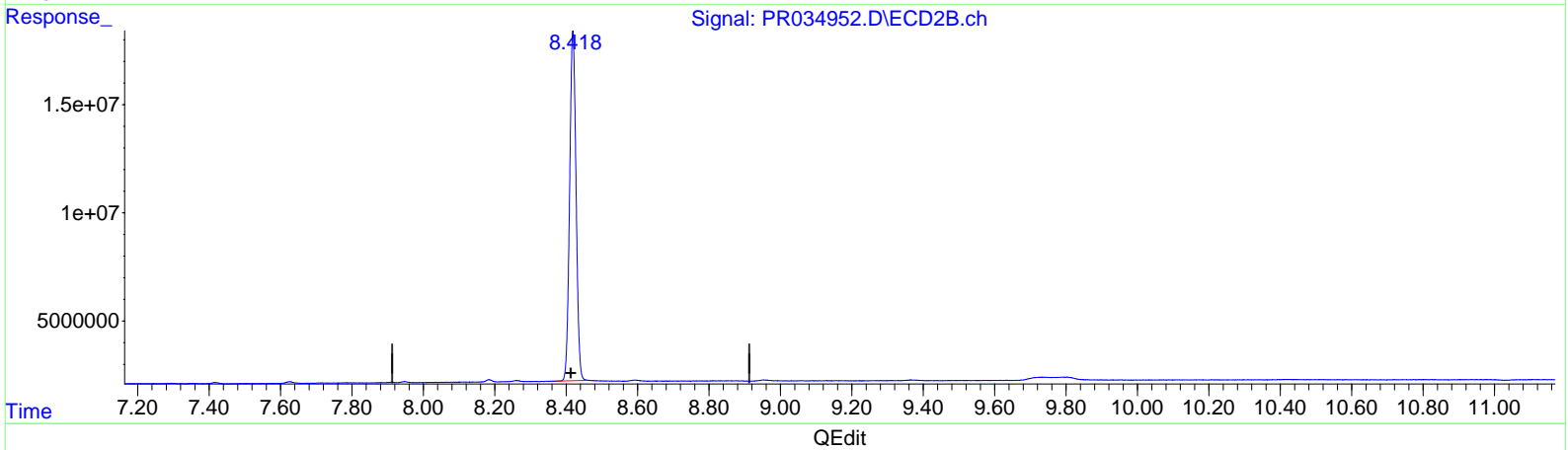
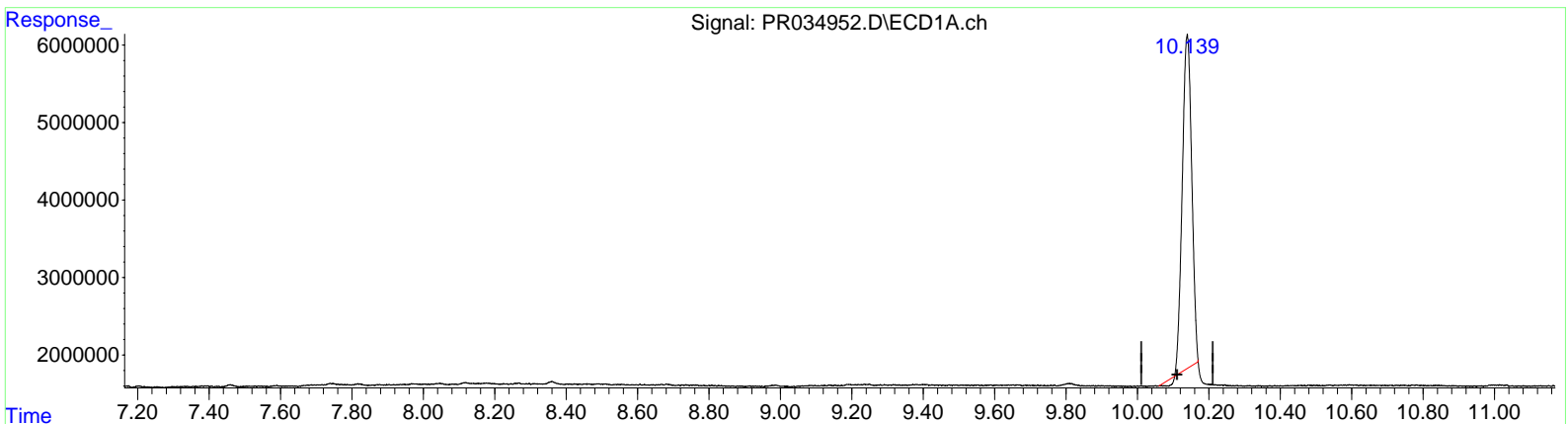
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034952.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 08:41
 Operator : SM\SJ
 Sample : AIBLK95
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 AIBLK95

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:21 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)
 10.139min 39.868 ng/ml
 response 78377892

(2) Decachlorobiphenyl #2 (SA)
 8.419min 45.956 ng/ml
 response 202053535

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034952.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 08:41
 Operator : SM\SJ
 Sample : AIBLK95
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

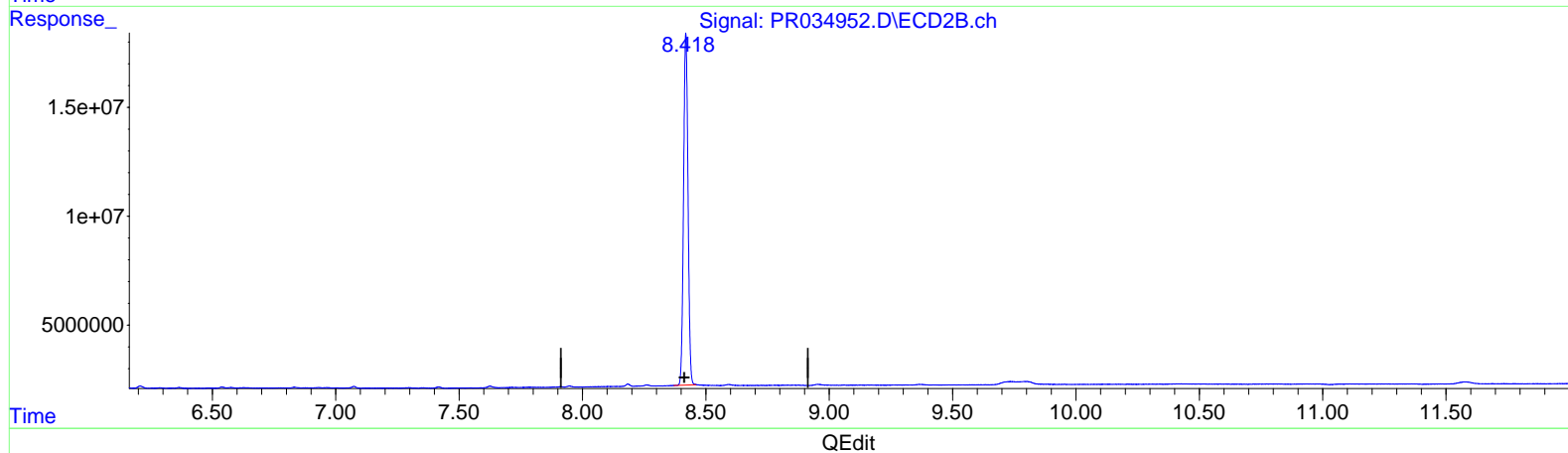
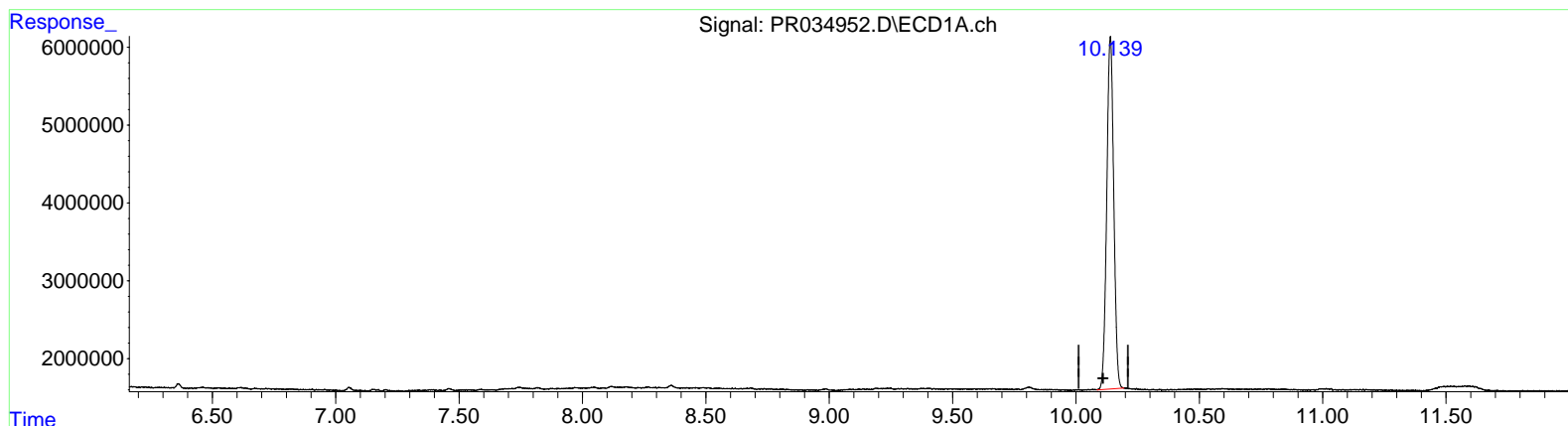
Instrument :
 ECD_R
 ClientSampled :
 AIBLK95

Manual Integrations
 APPROVED

Sohil
 12/26/2018 8:06:21 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(2) Decachlorobiphenyl (SA)

10.139min 45.267 ng/ml m

response 88991962

(2) Decachlorobiphenyl #2 (SA)

8.419min 45.956 ng/ml

response 202053535

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034952.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 08:41
 Operator : SM\SJ
 Sample : AIBLK95
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 AIBLK95

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:21 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:53:32 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|---------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.444 | 3.511 | 39148901 | 74564593 | 20.128m | 21.390 |
| 2) SA Decachlor... | 10.139 | 8.419 | 88991962 | 202.1E6 | 45.267m | 45.956 |

SJ
12/26/18

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK96(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK96
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034978.D
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK96(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK96
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034978.D-2
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

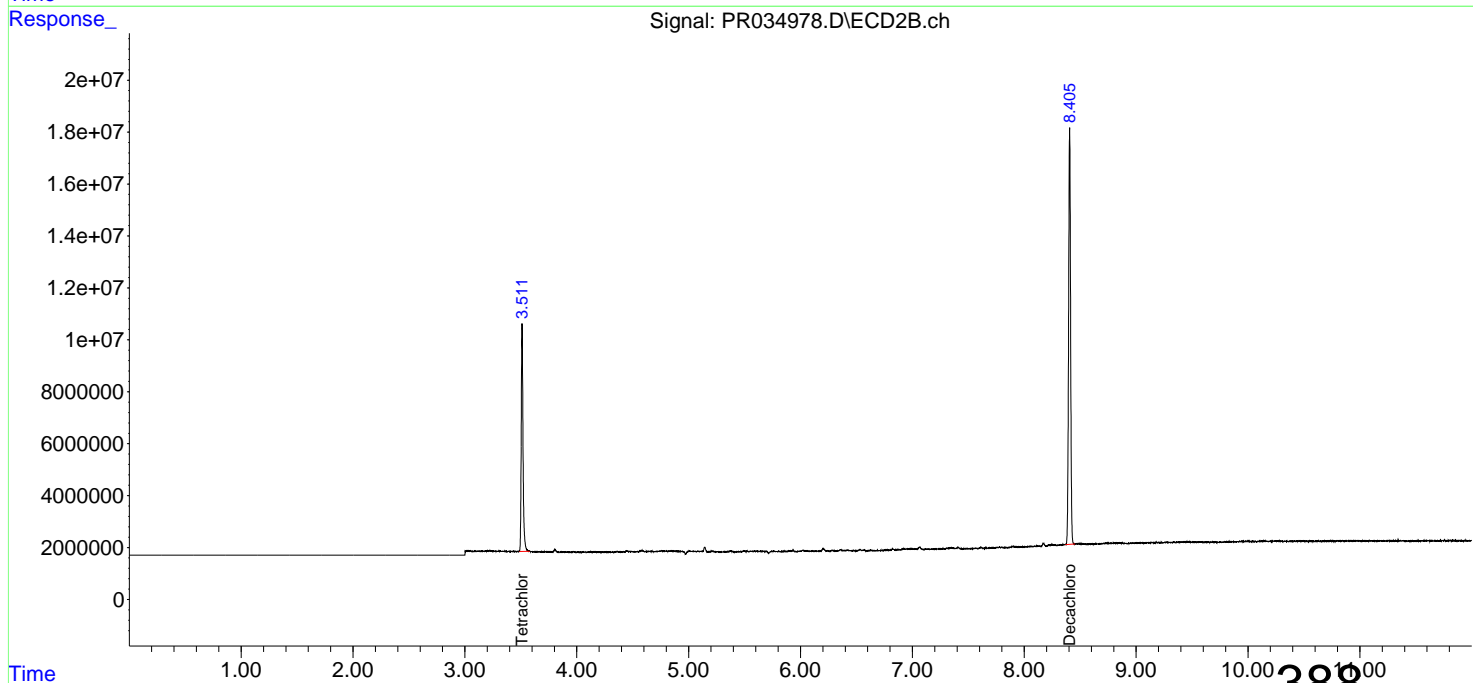
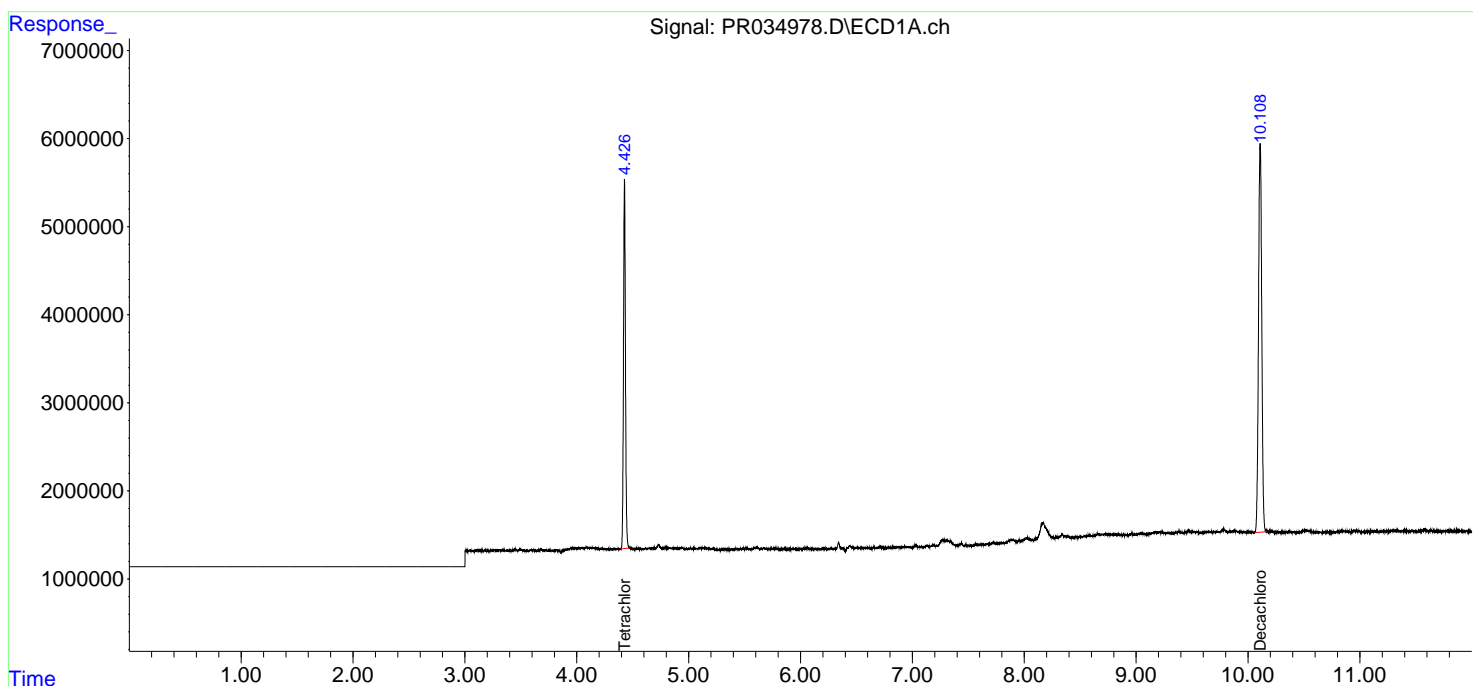
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034978.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 15:23
 Operator : SM\SJ
 Sample : AIBLK96
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AIBLK96

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034978.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 15:23
 Operator : SM\SJ
 Sample : AIBLK96
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK96

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:57:15 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 50911171 | 96754583 | 26.175 | 27.755 |
| 2) SA Decachlor... | 10.109 | 8.406 | 88855269 | 199.2E6 | 45.198 | 45.301 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK97(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK97
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034997.D
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK97(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK97
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR034997.D-2
 % Solids : _____ Date Received : 12/21/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

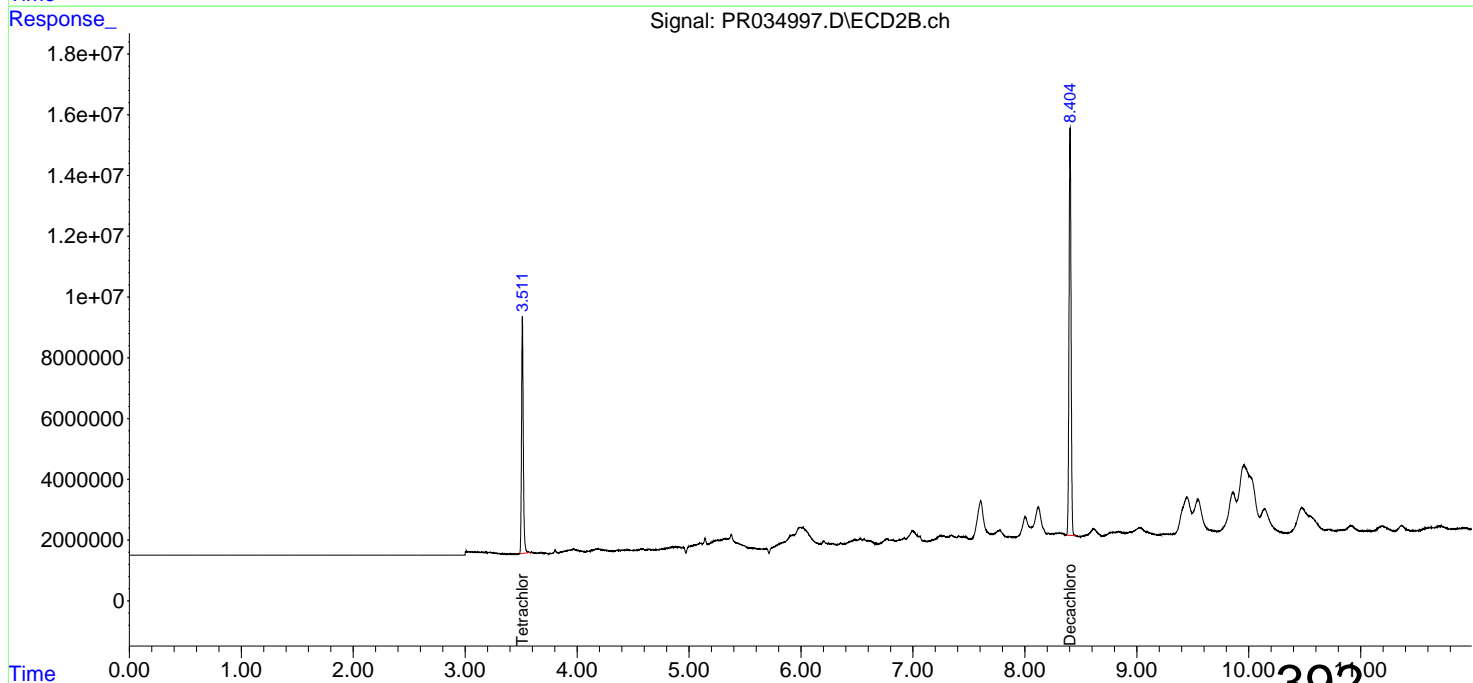
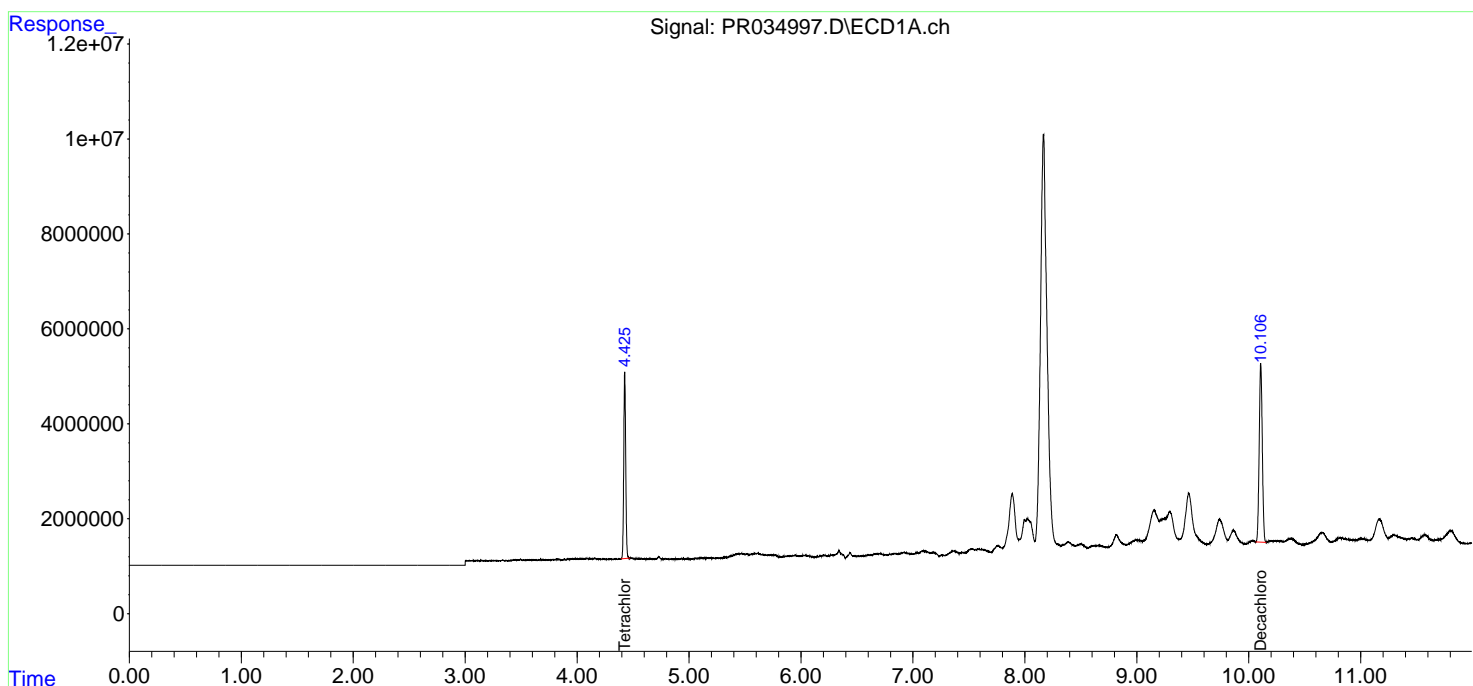
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034997.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 21:27
 Operator : SM\SJ
 Sample : AIBLK97
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleID :
 AIBLK97

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034997.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 21:27
 Operator : SM\SJ
 Sample : AIBLK97
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK97

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 23:00:03 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 47707414 | 85043662 | 24.528 | 24.396 |
| 2) SA Decachlor... | 10.107 | 8.404 | 72300706 | 167.1E6 | 36.777 | 38.010 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK98(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK98
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035016.D
 % Solids : _____ Date Received : 12/22/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK98 (2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK98
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035016.D-2
 % Solids : _____ Date Received : 12/22/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/22/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

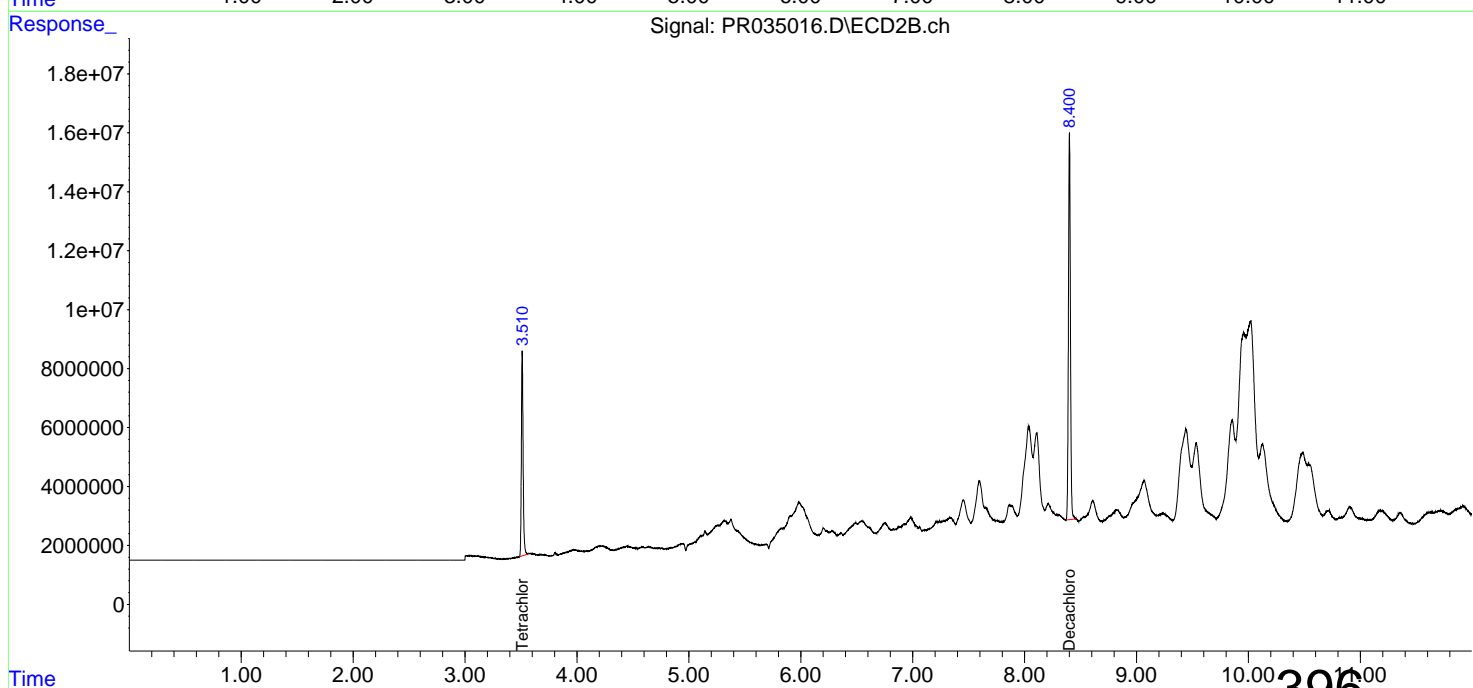
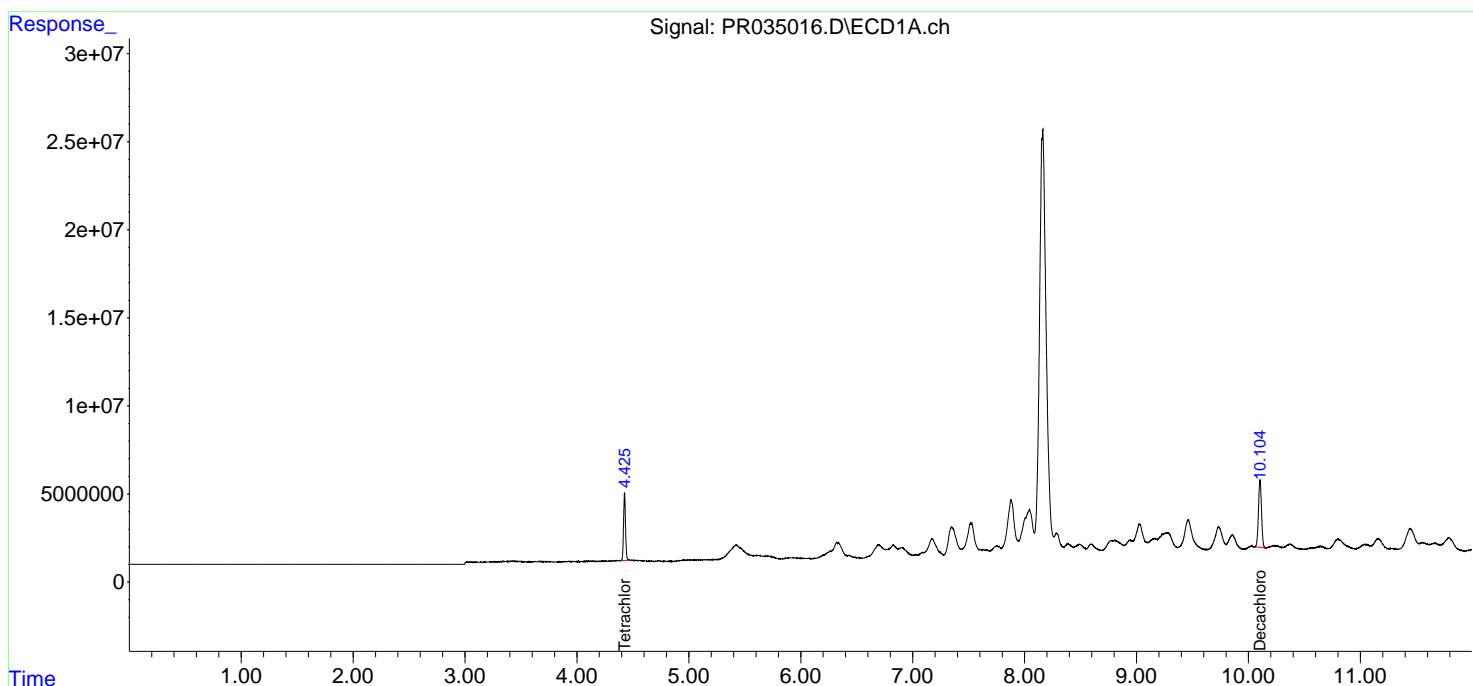
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035016.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 02:02
 Operator : SM\SJ
 Sample : AIBLK98
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK98

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 04:19:47 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR035016.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 22 Dec 2018 02:02
 Operator : SM\SJ
 Sample : AIBLK98
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK98

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 04:19:47 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.425 | 3.511 | 46289313 | 75329482 | 23.799 | 21.609 |
| 2) SA Decachlor... | 10.103 | 8.401 | 71857883 | 162.8E6 | 36.552 | 37.032 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK52(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK52
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035069.D
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK52(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK52
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035069.D-2
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

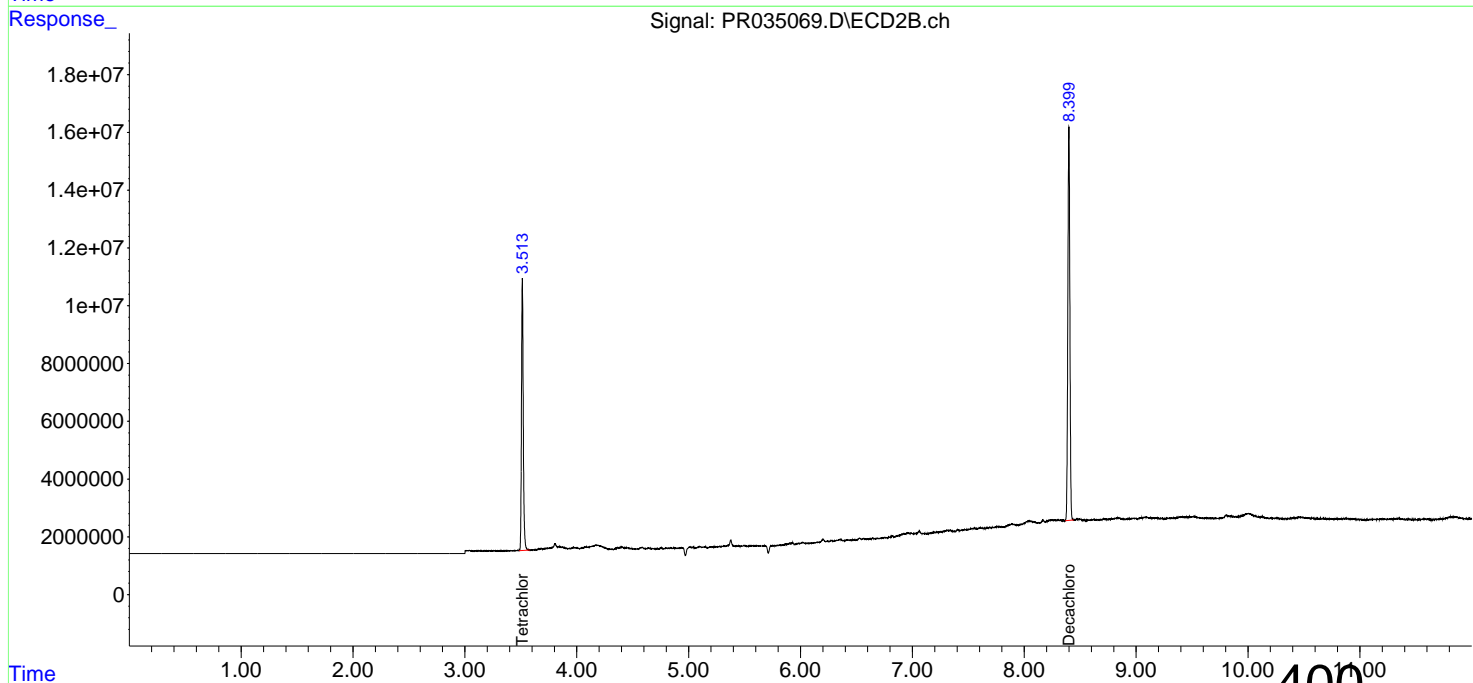
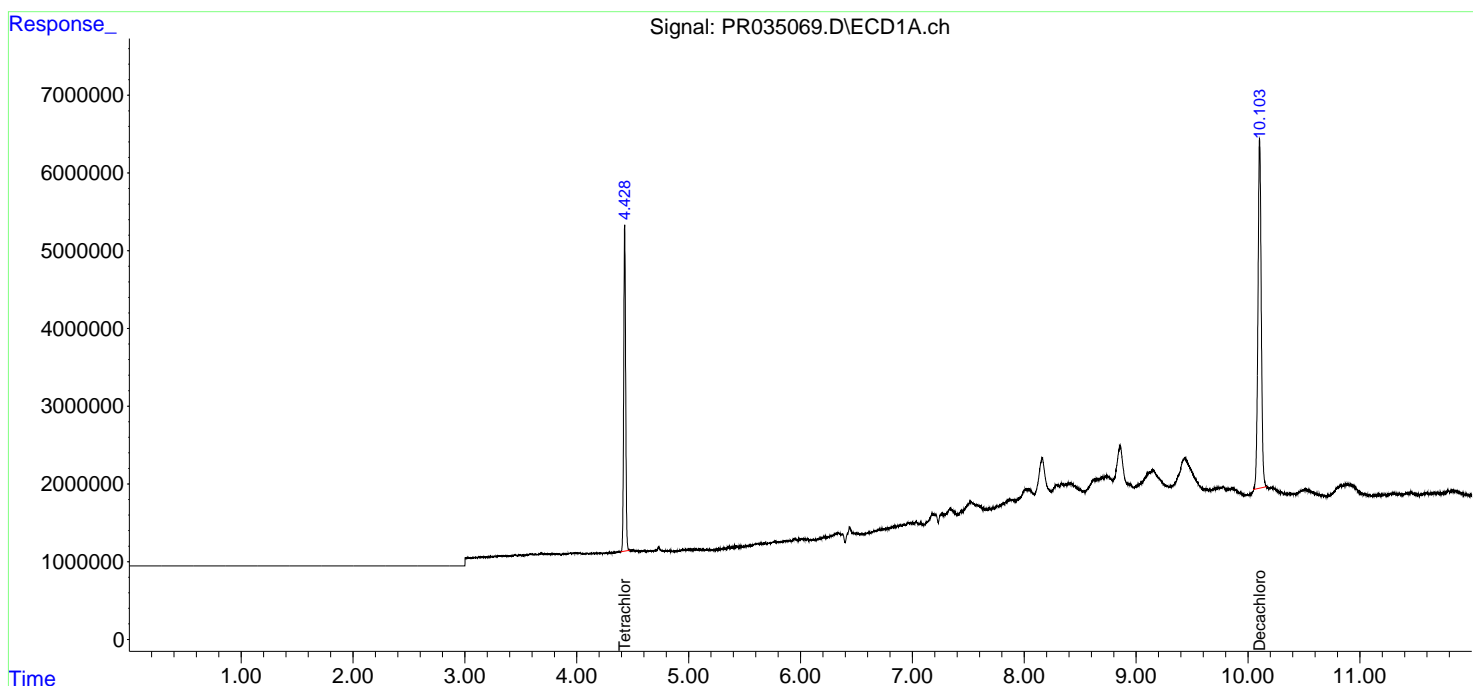
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
Data File : PR035069.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Dec 2018 07:54
Operator : SM\SJ
Sample : AIBLK52
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampled :
AIBLK52

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 28 23:31:52 2018
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Dec 18 01:56:32 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035069.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 07:54
 Operator : SM\SJ
 Sample : AIBLK52
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK52

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:31:52 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|---------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.428 | 3.514 | 50849044 | 104.4E6 | 26.143 | 29.957 |
| 2) SA Decachlor... | 10.104 | 8.399 | 91637201 | 171.8E6 | 46.613 | 39.064 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK53(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK53
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035094.D
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

AIBLK53(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Water Lab Sample ID : AIBLK53
 Sample wt/vol : 1000 (g/mL): mL Lab File ID : PR035094.D-2
 % Solids : _____ Date Received : 12/28/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : _____
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/28/2018
 Extract Concentrated : (Y / N) N Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SEPF
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : _____ Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/L

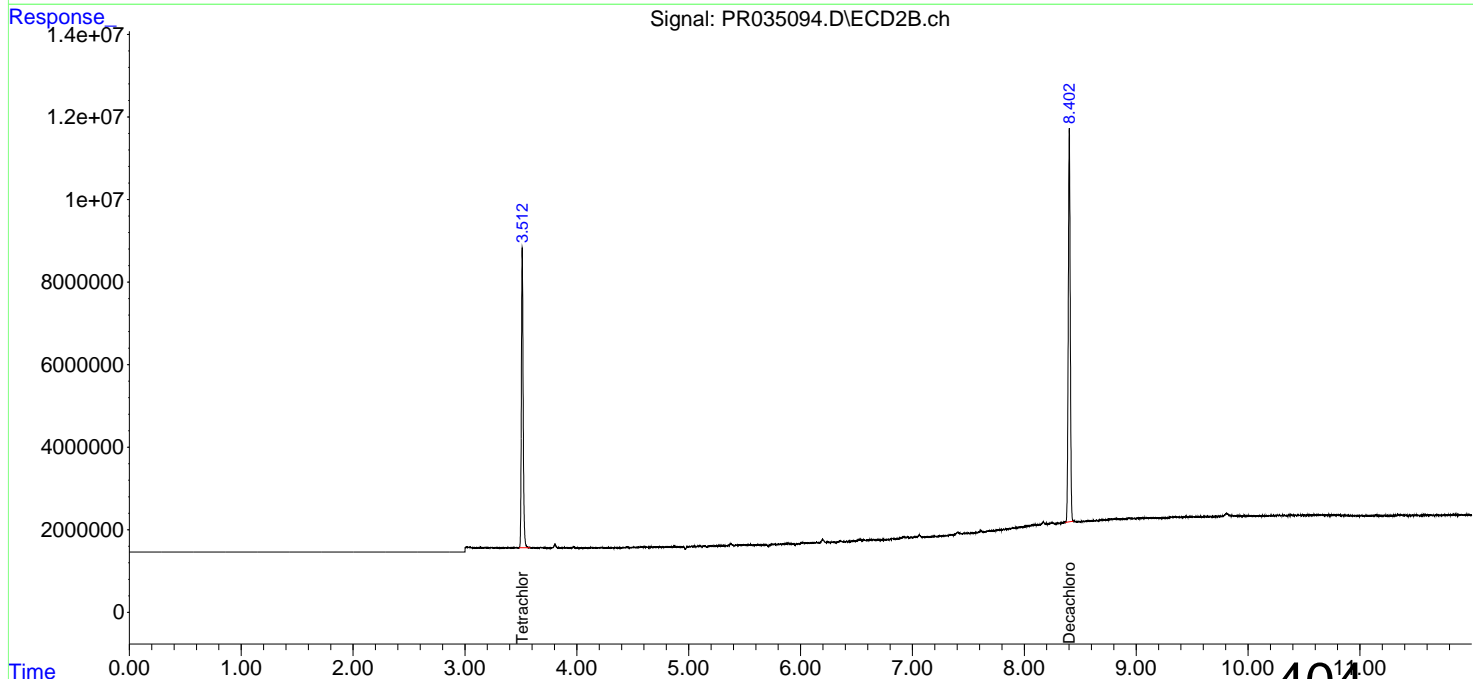
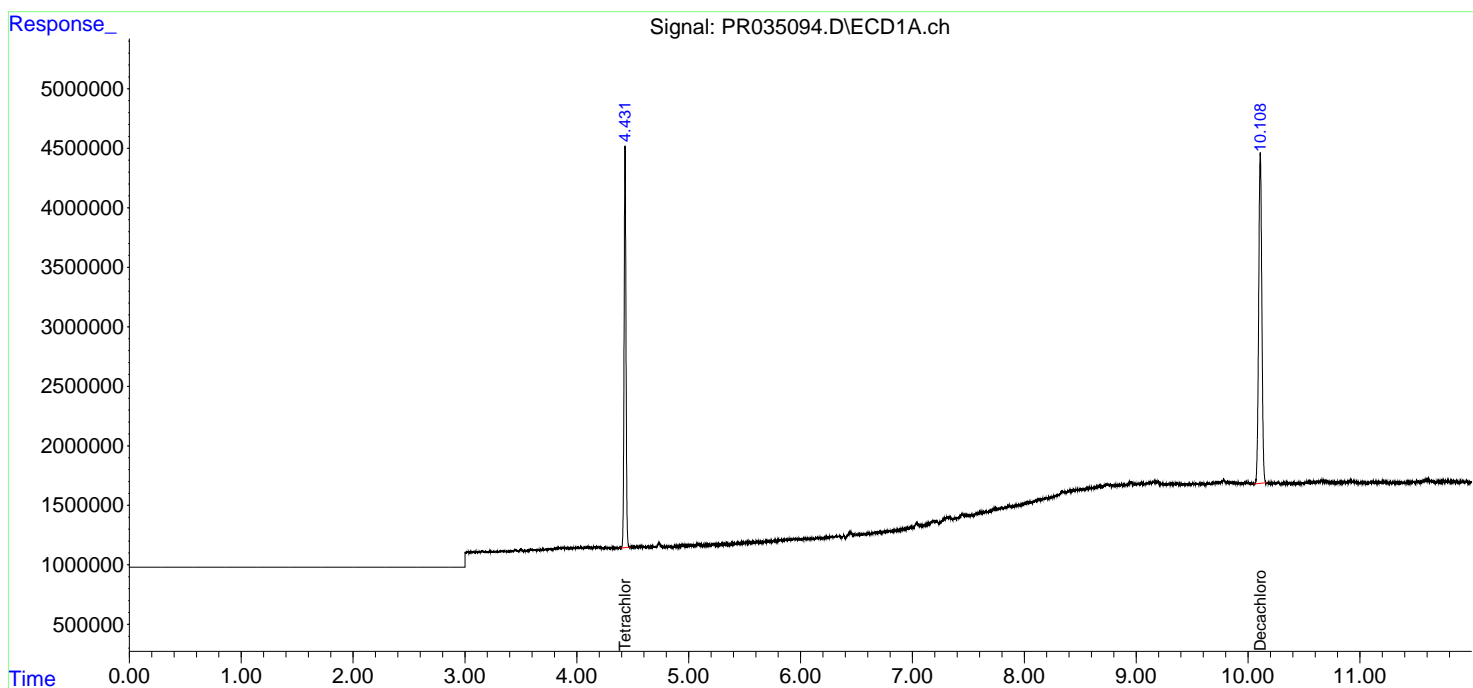
| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 1.0 | U |
| 11104-28-2 | Aroclor-1221 | 1.0 | U |
| 11141-16-5 | Aroclor-1232 | 1.0 | U |
| 53469-21-9 | Aroclor-1242 | 1.0 | U |
| 12672-29-6 | Aroclor-1248 | 1.0 | U |
| 11097-69-1 | Aroclor-1254 | 1.0 | U |
| 11096-82-5 | Aroclor-1260 | 1.0 | U |
| 37324-23-5 | Aroclor-1262 | 1.0 | U |
| 11100-14-4 | Aroclor-1268 | 1.0 | U |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035094.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 15:22
 Operator : SM\SJ
 Sample : AIBLK53
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 AIBLK53

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122818\
 Data File : PR035094.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 28 Dec 2018 15:22
 Operator : SM\SJ
 Sample : AIBLK53
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampleId :
 AIBLK53

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 28 23:16:21 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|--------|--------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.431 | 3.512 | 39618901 | 80129194 | 20.369 | 22.986 |
| 2) SA Decachlor... | 10.109 | 8.402 | 54409055 | 117.2E6 | 27.676 | 26.666 |

Target Compounds

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X0MS(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-03MS
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034971.D
 % Solids : 74.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 250 | |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 2200 | E |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X0MS (2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-03MS
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034971.D-2
 % Solids : 74.9 Date Received : 12/14/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 270 | |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 2100 | E |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

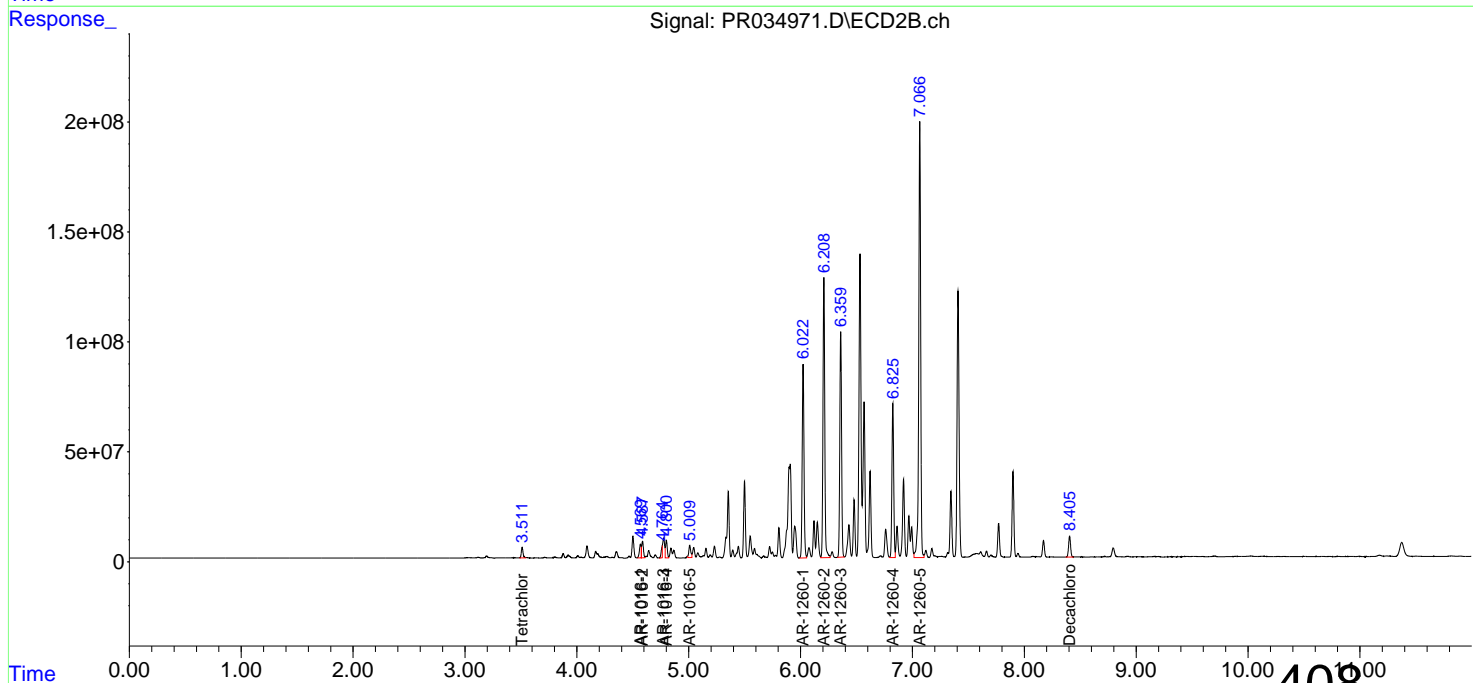
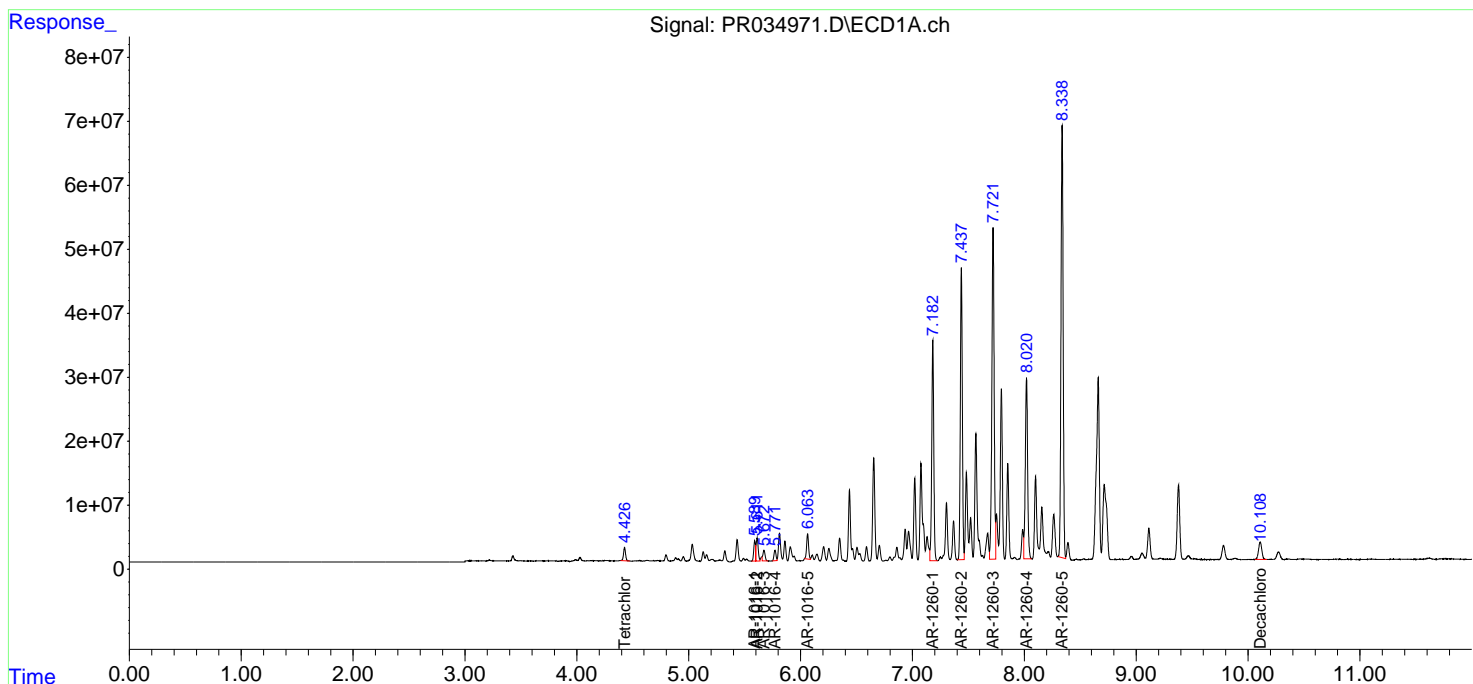
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034971.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:41
 Operator : SM\SJ
 Sample : J6432-03MS
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41X0MS

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:08:53 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:32:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034971.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:41
 Operator : SM\SJ
 Sample : J6432-03MS
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X0MS

Manual Integrations
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 12/26/2018 8:08:53 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:32:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 25880440 | 52730094 | 13.306 | 15.126 |
| 2) SA Decachlor... | 10.108 | 8.405 | 55328819 | 118.5E6 | 28.144 | 26.945 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.569 | 35488326 | 67238482 | 525.728 | 516.724 |
| 4) L1 AR-1016-2 | 5.612 | 4.587 | 46464994 | 82687199 | 469.216 | 418.351 |
| 5) L1 AR-1016-3 | 5.672 | 4.764 | 22793126 | 35316713 | 387.271m | 367.439m |
| 6) L1 AR-1016-4 | 5.771 | 4.801 | 20917656 | 84820861 | 440.957m | 1122.726 # |
| 7) L1 AR-1016-5 | 6.063 | 5.009 | 48474302 | 67071474 | 1017.778 | 652.282m# |
| 31) L7 AR-1260-1 | 7.182 | 6.023 | 432.7E6 | 983.8E6 | 4602.878 | 4576.622 |
| 32) L7 AR-1260-2 | 7.438 | 6.209 | 561.6E6 | 1419.1E6 | 4837.302 | 5214.773 |
| 33) L7 AR-1260-3 | 7.721 | 6.359 | 731.4E6 | 1131.7E6 | 5240.624 | 4559.011 |
| 34) L7 AR-1260-4 | 8.020 | 6.825 | 409.3E6 | 768.8E6 | 4738.892 | 4496.341 |
| 35) L7 AR-1260-5 | 8.338 | 7.066 | 907.9E6 | 2373.8E6 | 5028.691 | 4908.058 |

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

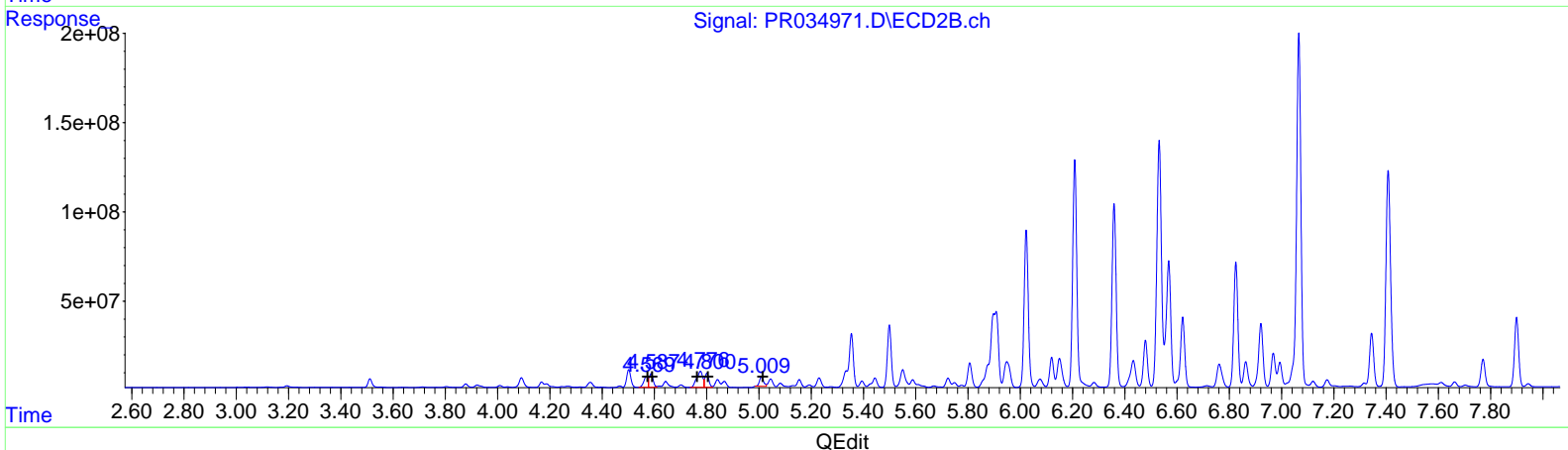
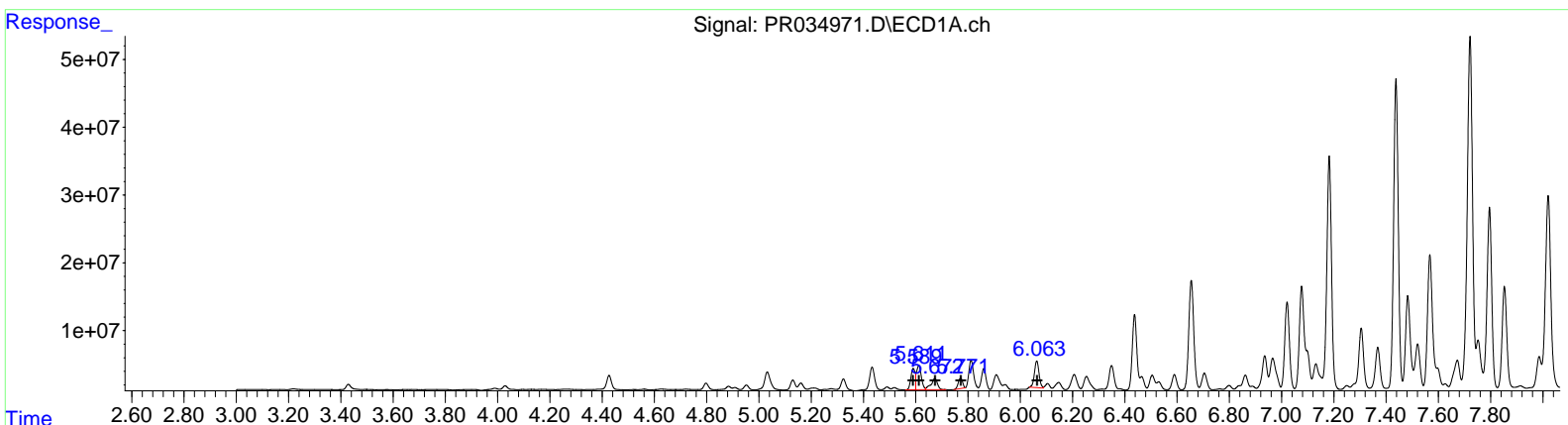
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034971.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:41
 Operator : SM\SJ
 Sample : J6432-03MS
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X0MS

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:56:13 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(3) AR-1016-1 (L1)

| R.T. | Response | Conc |
|------|----------|---------|
| 5.59 | 35488326 | 525.73 |
| 5.61 | 46464994 | 469.22 |
| 5.67 | 28606270 | 486.04 |
| 5.77 | 17826794 | 375.80 |
| 6.06 | 48474302 | 1017.78 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 67238482 | 516.72 |
| 4.59 | 82687199 | 418.35 |
| 4.78 | 144848842 | 1507.02 |
| 4.80 | 84820861 | 1122.73 |
| 5.01 | 57082681 | 555.14 |

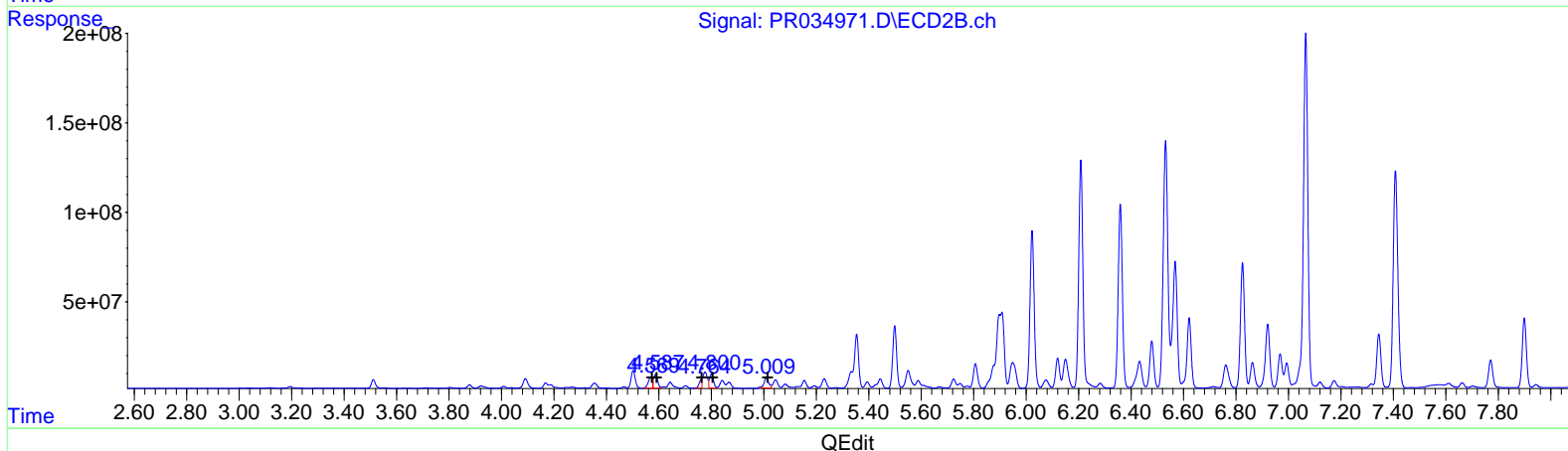
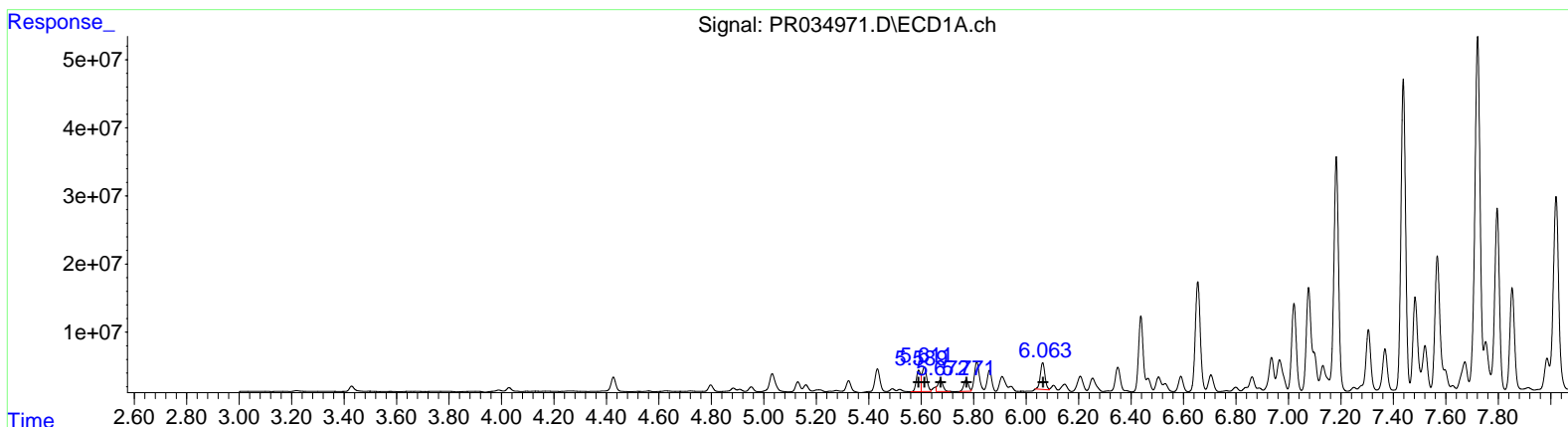
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034971.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:41
 Operator : SM\SJ
 Sample : J6432-03MS
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X0MS

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:32:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|---------|
| 5.59 | 35488326 | 525.73 |
| 5.61 | 46464994 | 469.22 |
| 5.67 | 22793126 | 387.27 |
| 5.77 | 20917656 | 440.96 |
| 6.06 | 48474302 | 1017.78 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|---------|
| 4.57 | 67238482 | 516.72 |
| 4.59 | 82687199 | 418.35 |
| 4.76 | 35316713 | 367.44 |
| 4.80 | 84820861 | 1122.73 |
| 5.01 | 67071474 | 652.28 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034971.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:41
 Operator : SM\SJ
 Sample : J6432-03MS
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 A41X0MS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:32:35 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.427 | 3.512 | 25880440 | 52730094 | 13.306 | 15.126 |
| 2) SA Decachlor... | 10.108 | 8.405 | 55328819 | 118.5E6 | 28.144 | 26.945 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.569 | 35488326 | 67238482 | 525.728 | 516.724 |
| 4) L1 AR-1016-2 | 5.612 | 4.587 | 46464994 | 82687199 | 469.216 | 418.351 |
| 5) L1 AR-1016-3 | 5.672 | 4.764 | 22793126 | 35316713 | 387.271m | 367.439m |
| 6) L1 AR-1016-4 | 5.771 | 4.801 | 20917656 | 84820861 | 440.957m | 1122.726 # |
| 7) L1 AR-1016-5 | 6.063 | 5.009 | 48474302 | 67071474 | 1017.778 | 652.282m# |
| 31) L7 AR-1260-1 | 7.182 | 6.023 | 432.7E6 | 983.8E6 | 4602.878 | 4576.622 |
| 32) L7 AR-1260-2 | 7.438 | 6.209 | 561.6E6 | 1419.1E6 | 4837.302 | 5214.773 |
| 33) L7 AR-1260-3 | 7.721 | 6.359 | 731.4E6 | 1131.7E6 | 5240.624 | 4559.011 |
| 34) L7 AR-1260-4 | 8.020 | 6.825 | 409.3E6 | 768.8E6 | 4738.892 | 4496.341 |
| 35) L7 AR-1260-5 | 8.338 | 7.066 | 907.9E6 | 2373.8E6 | 5028.691 | 4908.058 |

} SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X0MSD(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-04MSD
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034972.D
 % Solids : 74.9 Date Received : 12/14/2018
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 280 | |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 2300 | E |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

A41X0MSD(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : J6432-04MSD
 Sample wt/vol : 30.1 (g/mL): g Lab File ID : PR034972.D-2
 % Solids : 74.9 Date Received : 12/14/2018
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 300 | |
| 11104-28-2 | Aroclor-1221 | 44 | U |
| 11141-16-5 | Aroclor-1232 | 44 | U |
| 53469-21-9 | Aroclor-1242 | 44 | U |
| 12672-29-6 | Aroclor-1248 | 44 | U |
| 11097-69-1 | Aroclor-1254 | 44 | U |
| 11096-82-5 | Aroclor-1260 | 2200 | E |
| 37324-23-5 | Aroclor-1262 | 44 | U |
| 11100-14-4 | Aroclor-1268 | 44 | U |

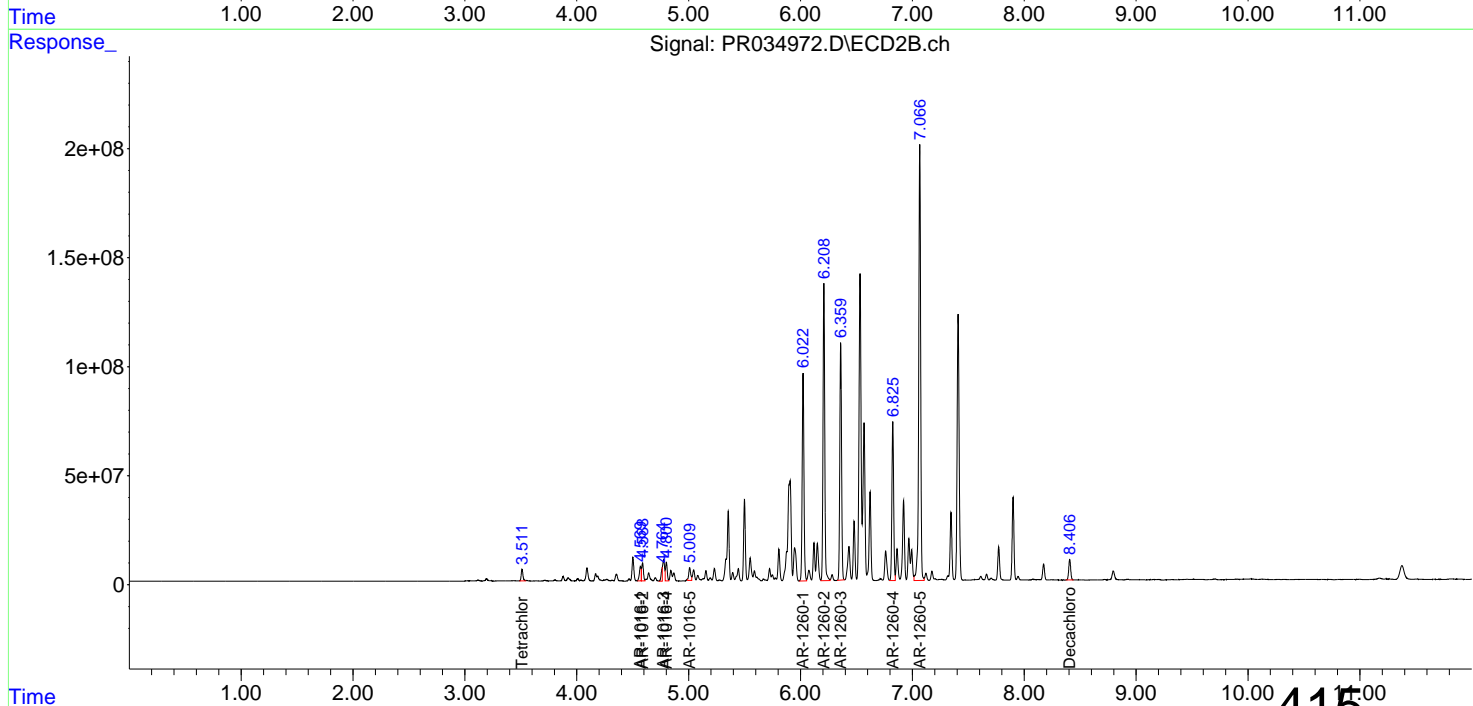
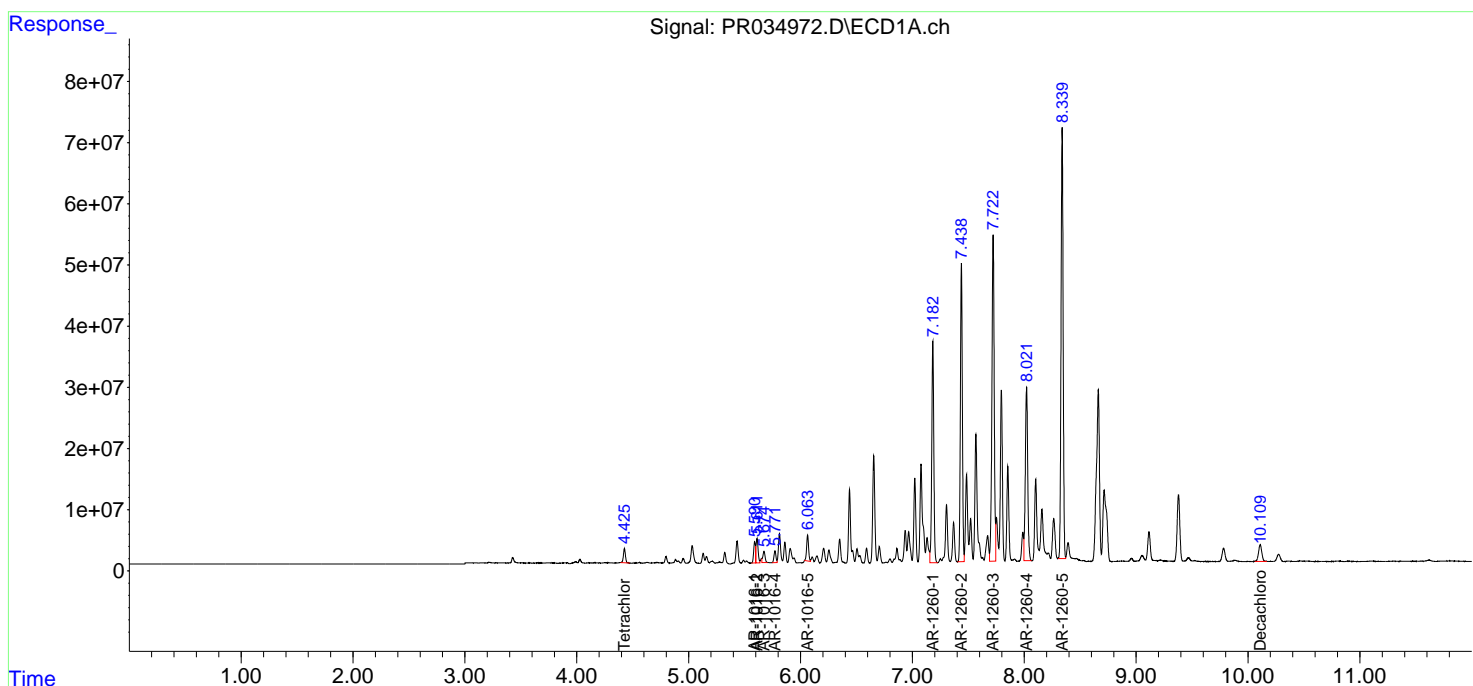
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034972.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:56
 Operator : SM\SJ
 Sample : J6432-04MSD
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 ECD_R
 ClientSampled :
 A41X0MSD

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:35:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034972.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:56
 Operator : SM\SJ
 Sample : J6432-04MSD
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampleID :
 A41X0MSD

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:08:55 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:35:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 28727444 | 58531356 | 14.770 | 16.790 |
| 2) SA Decachlor... | 10.109 | 8.407 | 55275714 | 115.0E6 | 28.117 | 26.165 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.569 | 39151432 | 72582423 | 579.994 | 557.792 |
| 4) L1 AR-1016-2 | 5.611 | 4.588 | 50891800 | 90051560 | 513.919 | 455.611 |
| 5) L1 AR-1016-3 | 5.674 | 4.764 | 26150108 | 42529235 | 444.309m | 442.478m |
| 6) L1 AR-1016-4 | 5.771 | 4.801 | 23644806 | 91572515 | 498.447m | 1212.094 # |
| 7) L1 AR-1016-5 | 6.063 | 5.009 | 51891935 | 72314503 | 1089.536 | 703.272m# |
| 31) L7 AR-1260-1 | 7.183 | 6.023 | 457.4E6 | 1043.2E6 | 4865.897 | 4852.771 |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 591.3E6 | 1470.1E6 | 5092.622 | 5402.429 |
| 33) L7 AR-1260-3 | 7.722 | 6.359 | 759.7E6 | 1193.0E6 | 5443.498 | 4805.776 |
| 34) L7 AR-1260-4 | 8.021 | 6.825 | 424.8E6 | 793.4E6 | 4918.541 | 4639.789 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 917.9E6 | 2404.6E6 | 5083.659 | 4971.744 |

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

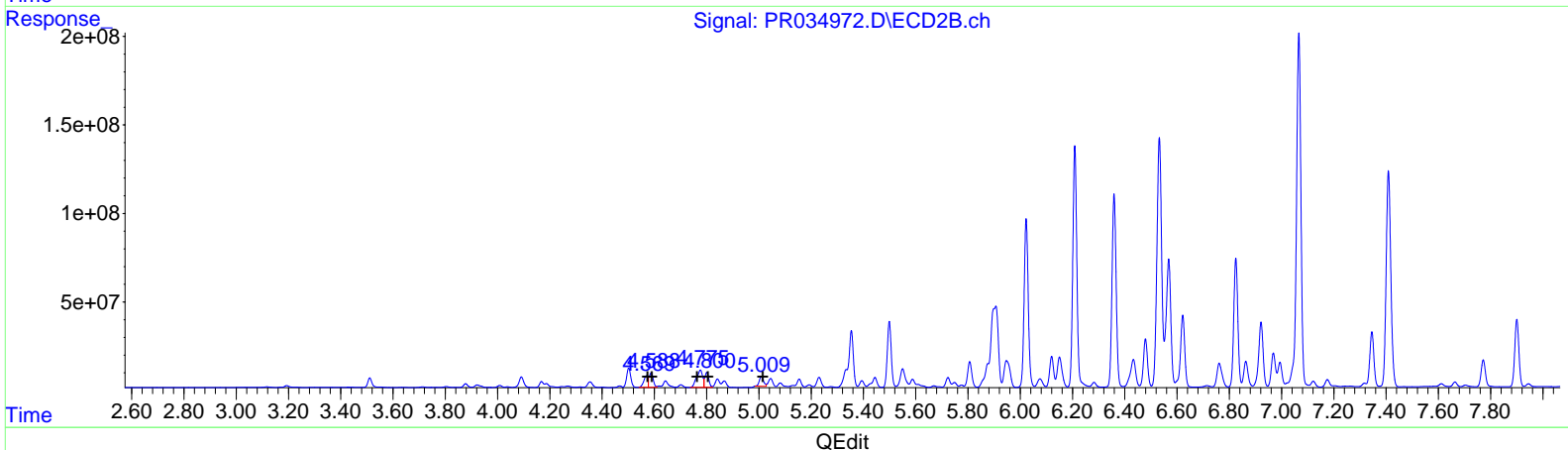
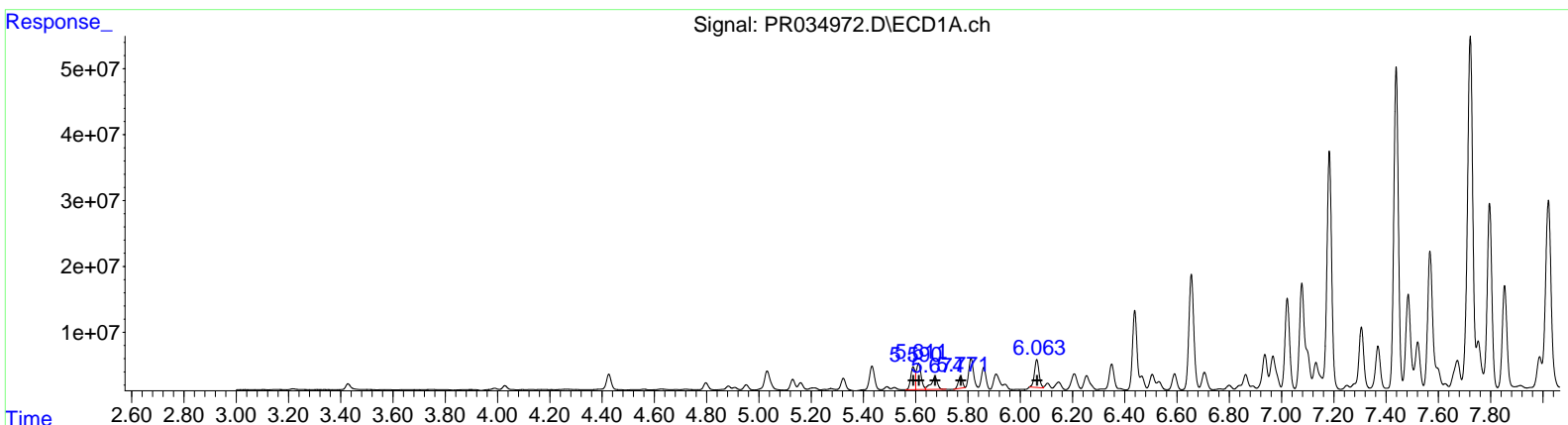
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034972.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:56
 Operator : SM\SJ
 Sample : J6432-04MSD
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 A41X0MSD

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:35:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(3) AR-1016-1 (L1)

| R.T. | Response | Conc |
|------|----------|---------|
| 5.59 | 39151432 | 579.99 |
| 5.61 | 50891800 | 513.92 |
| 5.67 | 31916629 | 542.29 |
| 5.77 | 19661551 | 414.48 |
| 6.06 | 51891935 | 1089.54 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|-----------|---------|
| 4.57 | 72582423 | 557.79 |
| 4.59 | 90051560 | 455.61 |
| 4.78 | 156770066 | 1631.05 |
| 4.80 | 91572515 | 1212.09 |
| 5.01 | 61680942 | 599.86 |

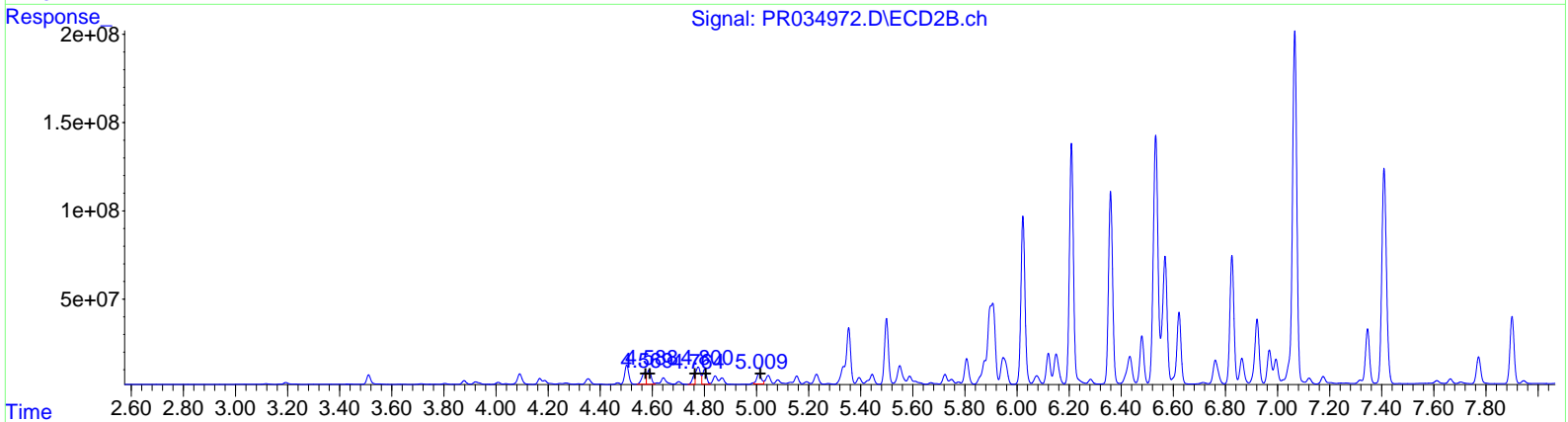
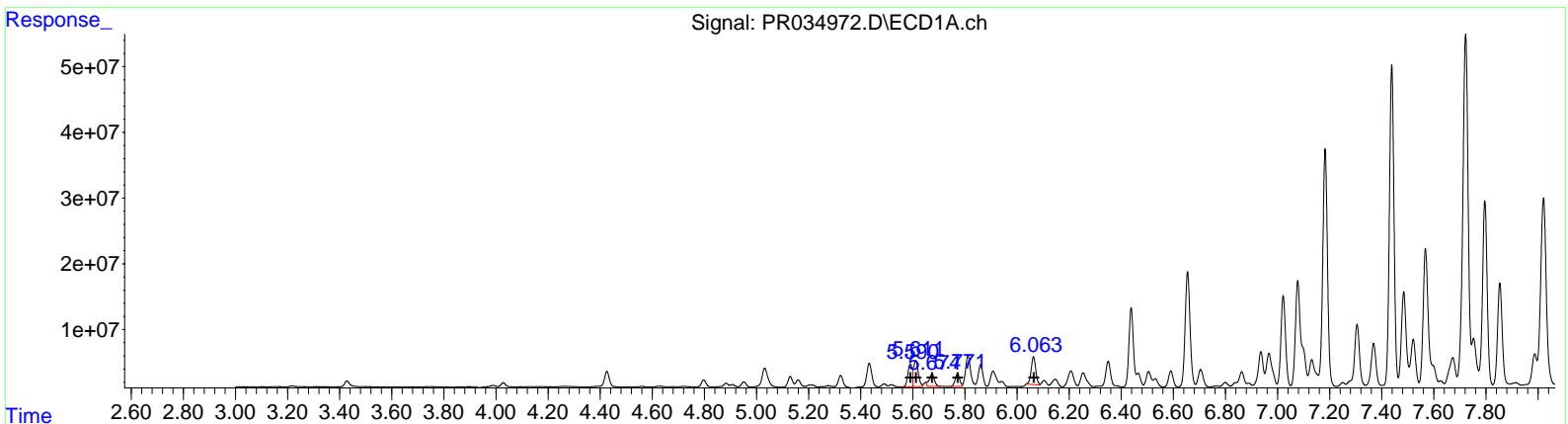
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034972.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:56
 Operator : SM\SJ
 Sample : J6432-04MSD
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X0MSD

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:35:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|---------|
| 5.59 | 39151432 | 579.99 |
| 5.61 | 50891800 | 513.92 |
| 5.67 | 26150108 | 444.31 |
| 5.77 | 23644806 | 498.45 |
| 6.06 | 51891935 | 1089.54 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|---------|
| 4.57 | 72582423 | 557.79 |
| 4.59 | 90051560 | 455.61 |
| 4.76 | 42529235 | 442.48 |
| 4.80 | 91572515 | 1212.09 |
| 5.01 | 72314503 | 703.27 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034972.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 13:56
 Operator : SM\SJ
 Sample : J6432-04MSD
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 ECD_R
Client Sampled :
 A41X0MSD

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 22 00:35:41 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
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Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|------------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 28727444 | 58531356 | 14.770 | 16.790 |
| 2) SA Decachlor... | 10.109 | 8.407 | 55275714 | 115.0E6 | 28.117 | 26.165 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.569 | 39151432 | 72582423 | 579.994 | 557.792 |
| 4) L1 AR-1016-2 | 5.611 | 4.588 | 50891800 | 90051560 | 513.919 | 455.611 |
| 5) L1 AR-1016-3 | 5.674 | 4.764 | 26150108 | 42529235 | 444.309m | 442.478m |
| 6) L1 AR-1016-4 | 5.771 | 4.801 | 23644806 | 91572515 | 498.447m | 1212.094 # |
| 7) L1 AR-1016-5 | 6.063 | 5.009 | 51891935 | 72314503 | 1089.536 | 703.272m# |
| 31) L7 AR-1260-1 | 7.183 | 6.023 | 457.4E6 | 1043.2E6 | 4865.897 | 4852.771 |
| 32) L7 AR-1260-2 | 7.439 | 6.209 | 591.3E6 | 1470.1E6 | 5092.622 | 5402.429 |
| 33) L7 AR-1260-3 | 7.722 | 6.359 | 759.7E6 | 1193.0E6 | 5443.498 | 4805.776 |
| 34) L7 AR-1260-4 | 8.021 | 6.825 | 424.8E6 | 793.4E6 | 4918.541 | 4639.789 |
| 35) L7 AR-1260-5 | 8.339 | 7.066 | 917.9E6 | 2404.6E6 | 5083.659 | 4971.744 |

SJ
 12/28/18

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

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ALCS57(1)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115757BS
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034958.D
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR1 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 48 | |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 49 | |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

ALCS57(2)

Lab Name : Chemtech Consulting Group Contract : EPW14030
 Lab Code: CHM Case No.: 48033 MA No. : _____ SDG No.: A41T3
 Analytical Method : ARO Level : _____
 Matrix : Soil Lab Sample ID : PB115757BS
 Sample wt/vol : 30.0 (g/mL): g Lab File ID : PR034958.D-2
 % Solids : 100 Date Received : _____
 GC Column : ZB-MR2 ID : 0.32 (mm) Date Extracted : 12/17/2018
 GC Column : _____ ID : _____ (mm) Date Analyzed : 12/21/2018
 Extract Concentrated : (Y / N) Y Extract Volume : 10000 (µL)
 Soil Aliquot (VOA) : _____ (µL) Extraction Type : SOXH
 Heated Purge : (Y/N) _____ Injection Volume : 1.0 (µL)
 Purge Volume : _____ (mL) pH : _____ Dilution Factor : 1.0
 Cleanup Types : Acid Cleanup Factor : 1.0
 Concentration Units (µg/L,mg/L,µg/kg) : µg/kg

| CAS NO. | ANALYTE | CONCENTRATION | Q |
|------------|--------------|---------------|---|
| 12674-11-2 | Aroclor-1016 | 44 | |
| 11104-28-2 | Aroclor-1221 | 33 | U |
| 11141-16-5 | Aroclor-1232 | 33 | U |
| 53469-21-9 | Aroclor-1242 | 33 | U |
| 12672-29-6 | Aroclor-1248 | 33 | U |
| 11097-69-1 | Aroclor-1254 | 33 | U |
| 11096-82-5 | Aroclor-1260 | 49 | |
| 37324-23-5 | Aroclor-1262 | 33 | U |
| 11100-14-4 | Aroclor-1268 | 33 | U |

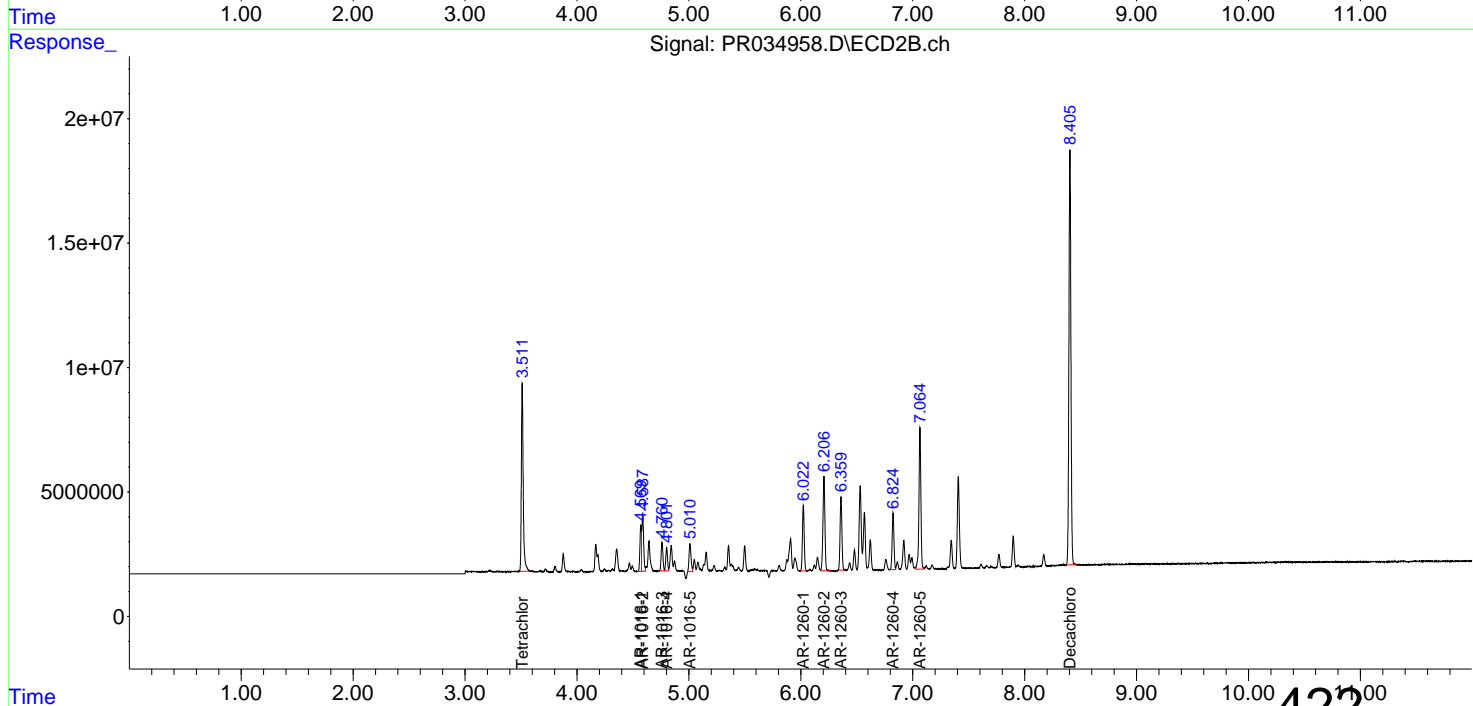
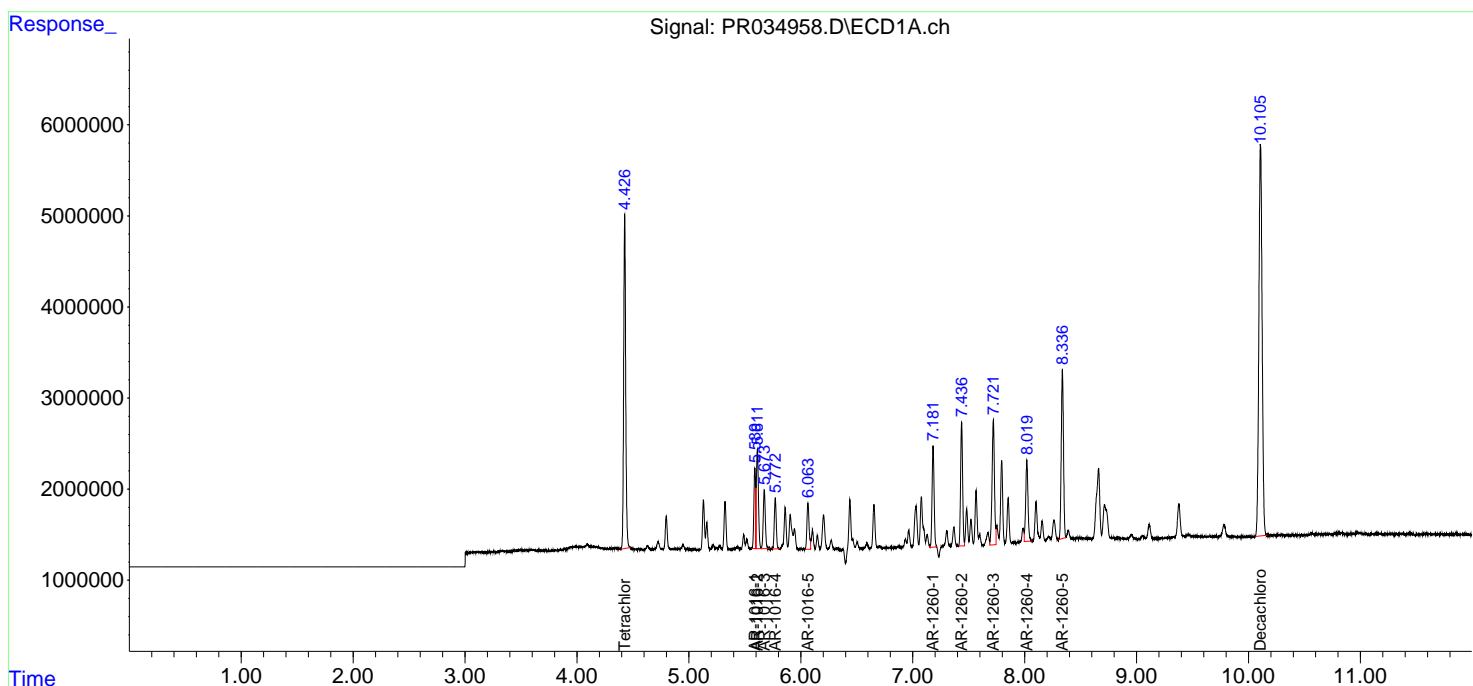
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 Data File : PR034958.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:26
 Operator : SM\SJ
 Sample : PB115757BS
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 ALCS57

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034958.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:26
 Operator : SM\SJ
 Sample : PB115757BS
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 ALCS57

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR2 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 46320136 | 86655133 | 23.815 | 24.858 |
| 2) SA Decachlor... | 10.107 | 8.405 | 87008177 | 204.9E6 | 44.258 | 46.607 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.570 | 9840888 | 17096827 | 145.784 | 131.388 |
| 4) L1 AR-1016-2 | 5.612 | 4.587 | 14022414 | 25418656 | 141.602 | 128.604 |
| 5) L1 AR-1016-3 | 5.674 | 4.760 | 8305783 | 12710891 | 141.121 | 132.245 |
| 6) L1 AR-1016-4 | 5.772 | 4.801 | 6789408 | 10044196 | 143.125 | 132.949 |
| 7) L1 AR-1016-5 | 6.064 | 5.010 | 6887231 | 13798491 | 144.606 | 134.193m |
| 31) L7 AR-1260-1 | 7.181 | 6.022 | 14021728 | 29200340 | 149.155m | 135.833 |
| 32) L7 AR-1260-2 | 7.437 | 6.207 | 17048133 | 46258381 | 146.839 | 169.992 |
| 33) L7 AR-1260-3 | 7.721 | 6.359 | 20378238 | 33360571 | 146.022 | 134.391 |
| 34) L7 AR-1260-4 | 8.020 | 6.825 | 12607150 | 25254249 | 145.978 | 147.694 |
| 35) L7 AR-1260-5 | 8.337 | 7.065 | 25800326 | 67886997 | 142.896 | 140.365 |

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034958.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:26
 Operator : SM\SJ
 Sample : PB115757BS
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

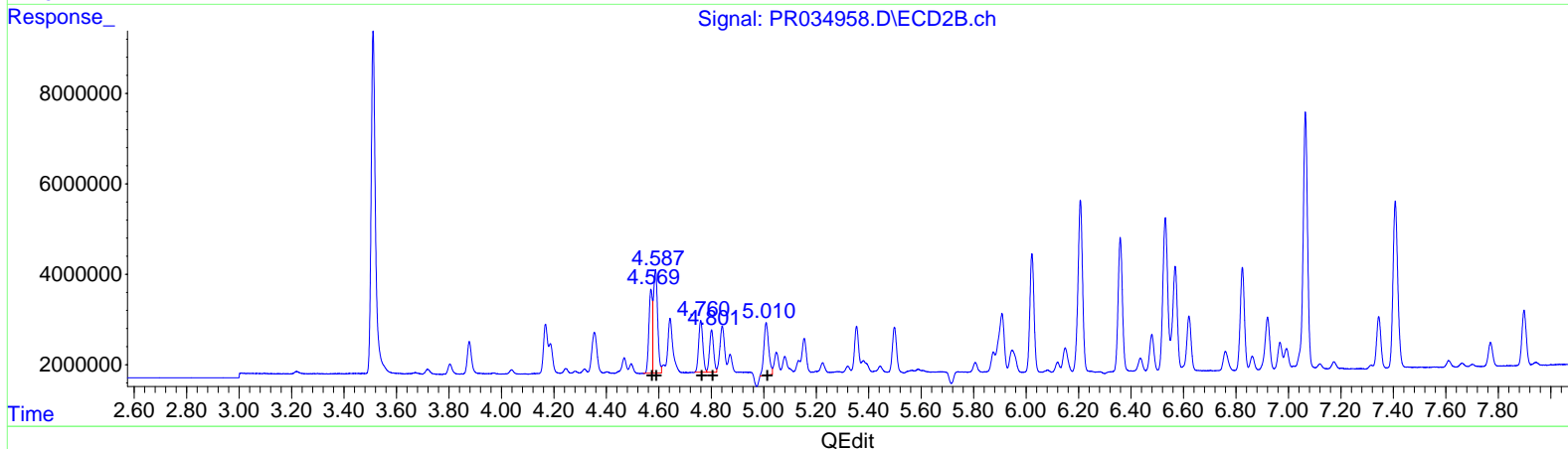
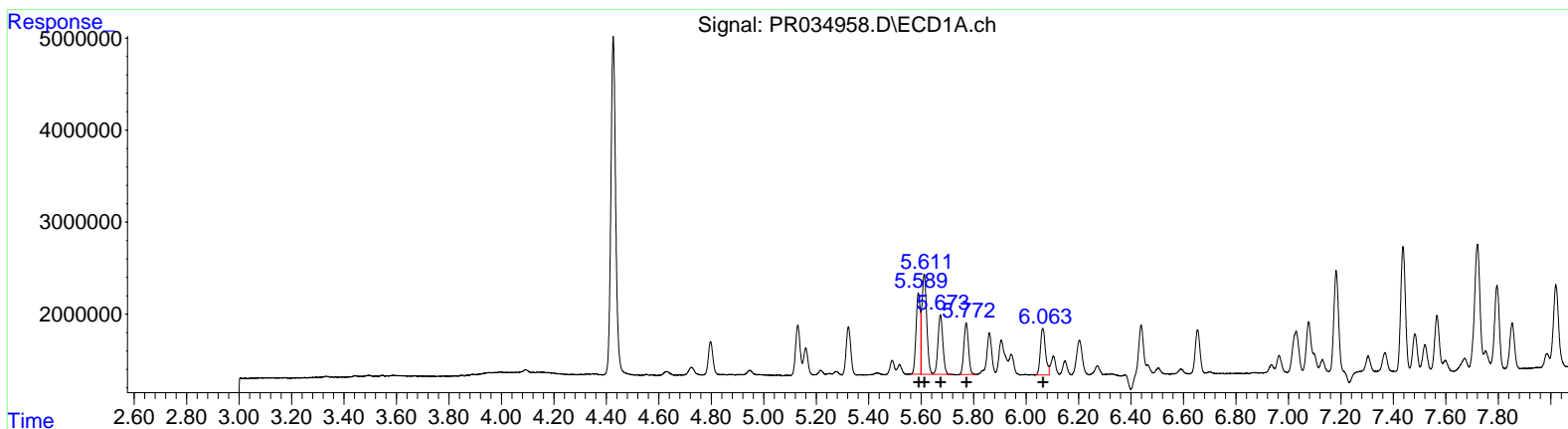
Instrument :
 ECD_R
 Client Sampled :
 ALCS57

Manual Integrations
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Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(3) AR-1016-1 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 9840888 | 145.78 |
| 5.61 | 14022414 | 141.60 |
| 5.67 | 8305783 | 141.12 |
| 5.77 | 6789408 | 143.13 |
| 6.06 | 6887231 | 144.61 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 17096827 | 131.39 |
| 4.59 | 25418656 | 128.60 |
| 4.76 | 12710891 | 132.25 |
| 4.80 | 10044196 | 132.95 |
| 5.01 | 14742589 | 143.37 |

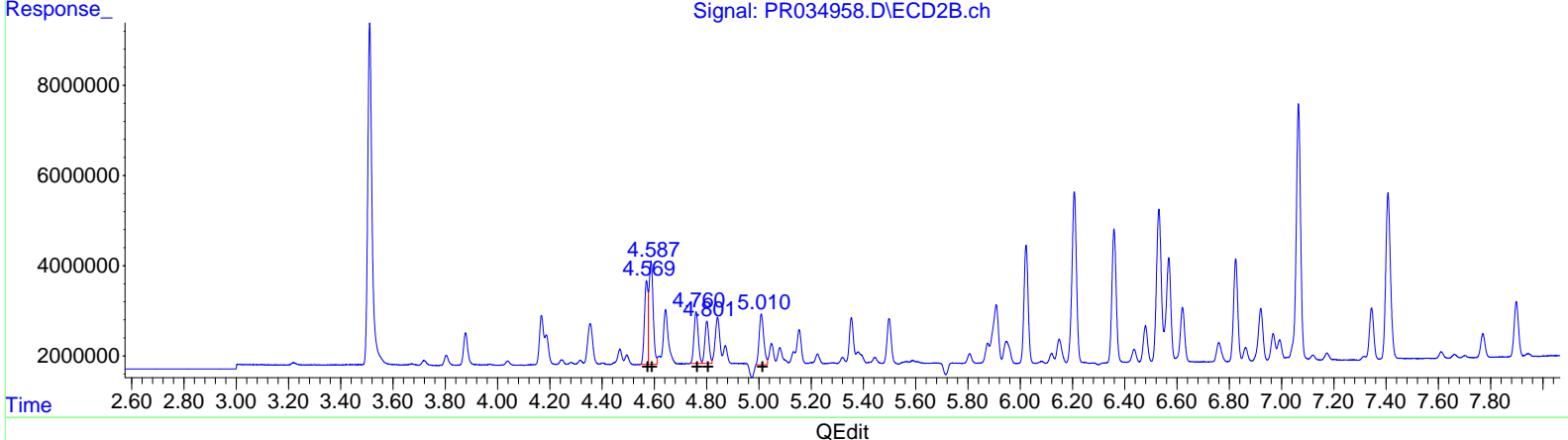
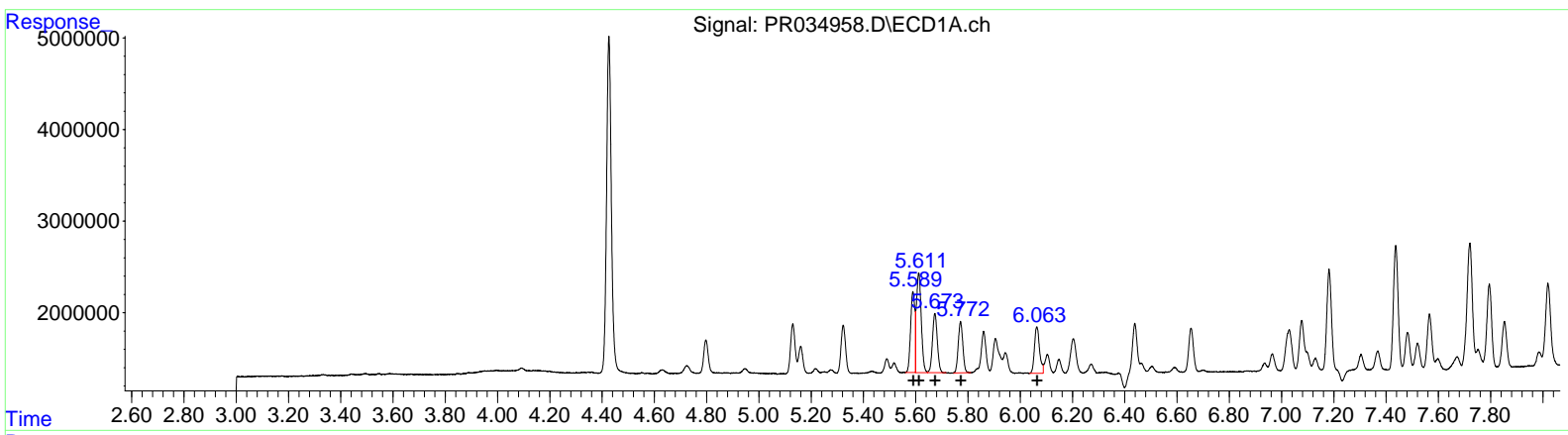
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034958.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:26
 Operator : SM\SJ
 Sample : PB115757BS
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 ALCS57

Manual Integrations
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 12/26/2018 8:06:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 5.59 | 9840888 | 145.78 |
| 5.61 | 14022414 | 141.60 |
| 5.67 | 8305783 | 141.12 |
| 5.77 | 6789408 | 143.13 |
| 6.06 | 6887231 | 144.61 |

(3) AR-1016-1 #2 (L1)

| R.T. | Response | Conc |
|------|----------|--------|
| 4.57 | 17096827 | 131.39 |
| 4.59 | 25418656 | 128.60 |
| 4.76 | 12710891 | 132.25 |
| 4.80 | 10044196 | 132.95 |
| 5.01 | 13798491 | 134.19 |

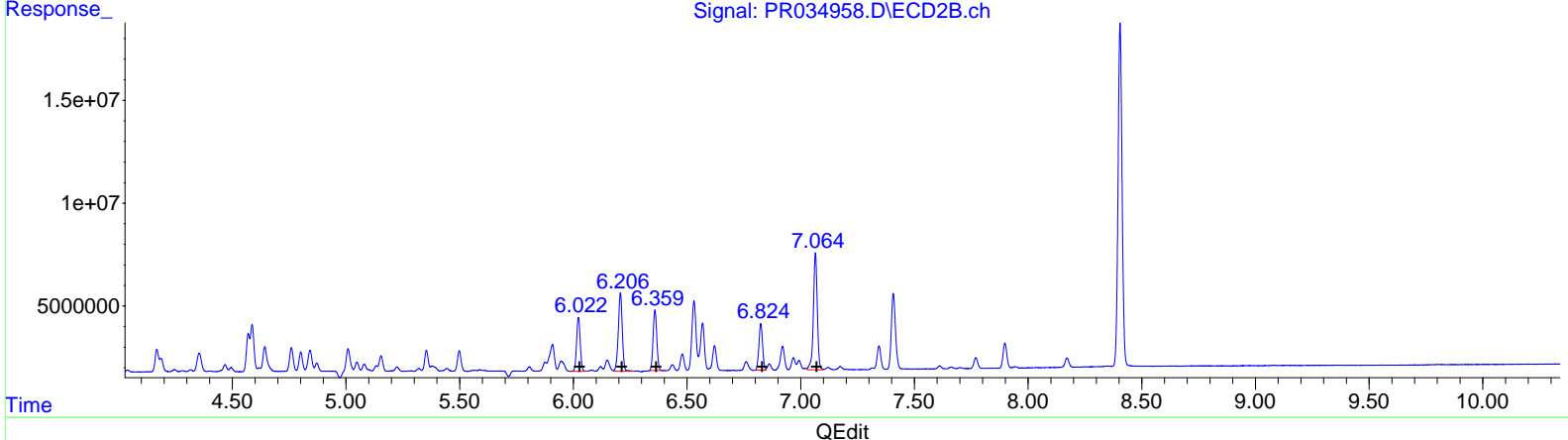
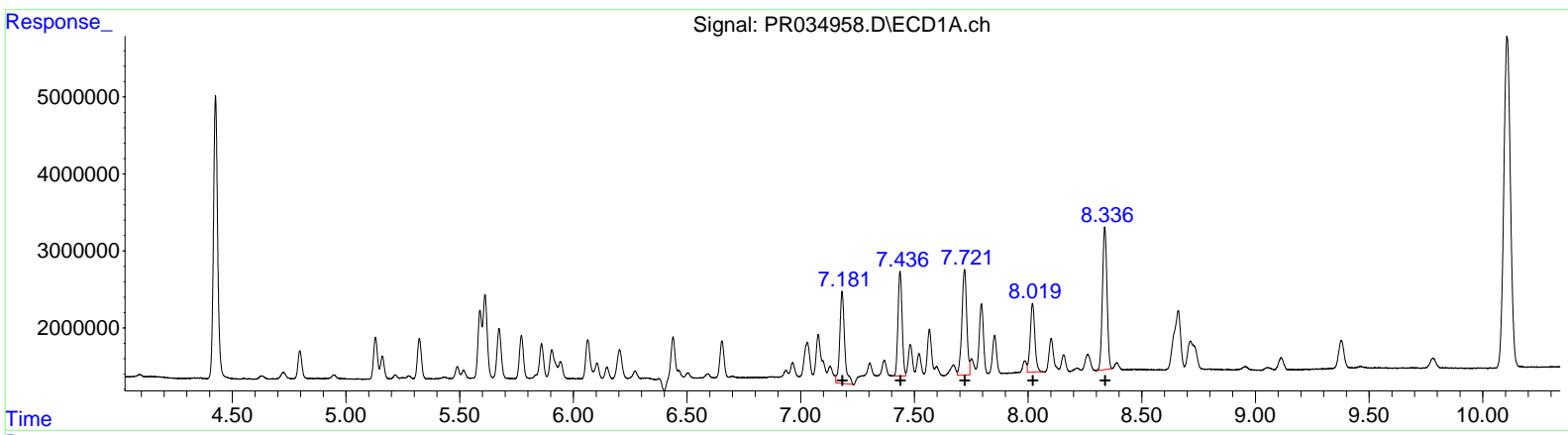
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034958.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:26
 Operator : SM\SJ
 Sample : PB115757BS
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 ALCS57

Manual Integrations
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 12/26/2018 8:06:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 17482525 | 185.97 |
| 7.44 | 17048133 | 146.84 |
| 7.72 | 20378238 | 146.02 |
| 8.02 | 12607150 | 145.98 |
| 8.34 | 25800326 | 142.90 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.02 | 29200340 | 135.83 |
| 6.21 | 46258381 | 169.99 |
| 6.36 | 33360571 | 134.39 |
| 6.82 | 25254249 | 147.69 |
| 7.06 | 67886997 | 140.37 |

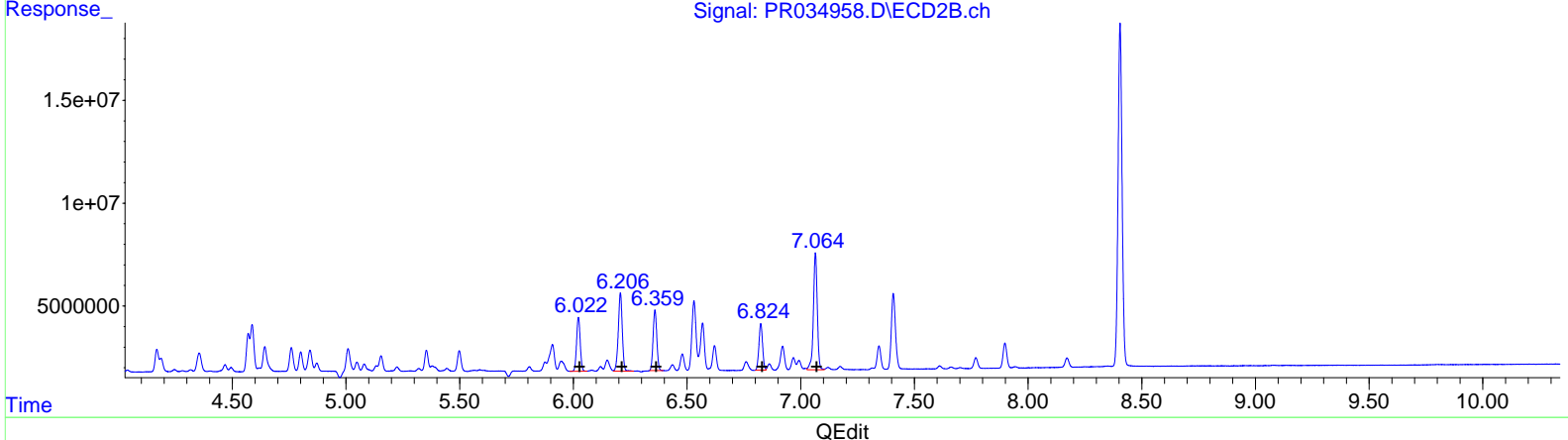
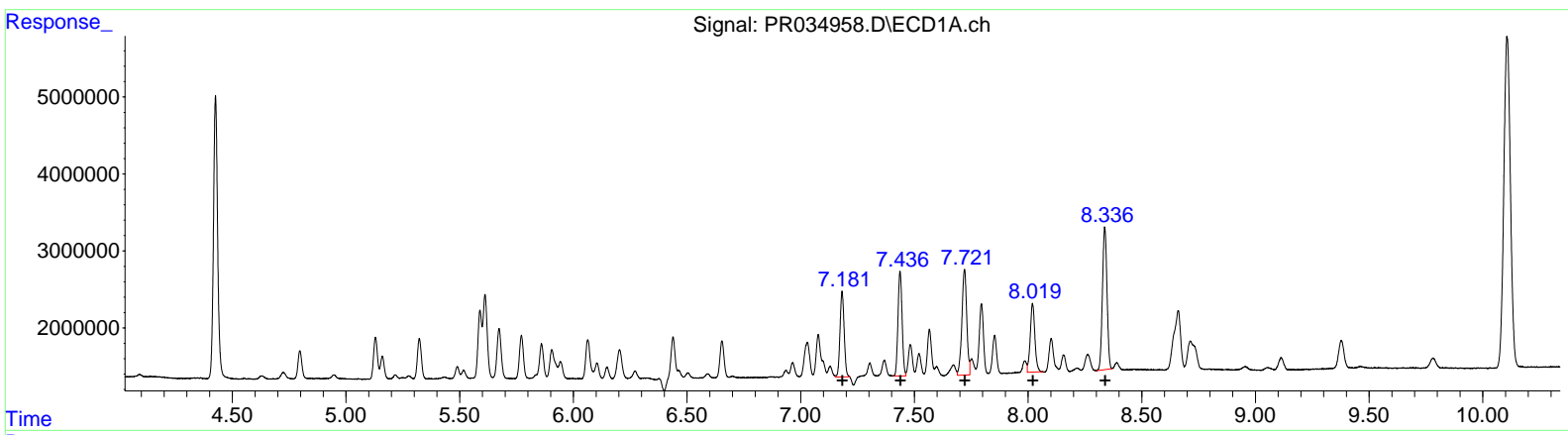
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034958.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:26
 Operator : SM\SJ
 Sample : PB115757BS
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
ClientSampled :
 ALCS57

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:26 AM

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm



(31) AR-1260-1 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 7.18 | 14021728 | 149.15 |
| 7.44 | 17048133 | 146.84 |
| 7.72 | 20378238 | 146.02 |
| 8.02 | 12607150 | 145.98 |
| 8.34 | 25800326 | 142.90 |

(31) AR-1260-1 #2 (L7)

| R.T. | Response | Conc |
|------|----------|--------|
| 6.02 | 29200340 | 135.83 |
| 6.21 | 46258381 | 169.99 |
| 6.36 | 33360571 | 134.39 |
| 6.82 | 25254249 | 147.69 |
| 7.06 | 67886997 | 140.37 |

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR122218\
 Data File : PR034958.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 21 Dec 2018 10:26
 Operator : SM\SJ
 Sample : PB115757BS
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 ECD_R
 Client Sampled :
 ALCS57

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Dec 21 22:54:24 2018
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR121818CLP.M
 Quant Title : GC EXTRACTABLES
 QLast Update : Tue Dec 18 01:56:32 2018
 Response via : Initial Calibration
 Integrator: ChemStation

Manual Integrations
APPROVED
 Sohil
 12/26/2018 8:06:26 AM

Volume Inj. : 1 µl
 Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
 Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm

| Compound | RT#1 | RT#2 | Resp#1 | Resp#2 | ng/ml | ng/ml |
|-----------------------------|--------|-------|----------|----------|----------|----------|
| ----- | | | | | | |
| System Monitoring Compounds | | | | | | |
| 1) SA Tetrachlo... | 4.426 | 3.511 | 46320136 | 86655133 | 23.815 | 24.858 |
| 2) SA Decachlor... | 10.107 | 8.405 | 87008177 | 204.9E6 | 44.258 | 46.607 |
| Target Compounds | | | | | | |
| 3) L1 AR-1016-1 | 5.590 | 4.570 | 9840888 | 17096827 | 145.784 | 131.388 |
| 4) L1 AR-1016-2 | 5.612 | 4.587 | 14022414 | 25418656 | 141.602 | 128.604 |
| 5) L1 AR-1016-3 | 5.674 | 4.760 | 8305783 | 12710891 | 141.121 | 132.245 |
| 6) L1 AR-1016-4 | 5.772 | 4.801 | 6789408 | 10044196 | 143.125 | 132.949 |
| 7) L1 AR-1016-5 | 6.064 | 5.010 | 6887231 | 13798491 | 144.606 | 134.193m |
| 31) L7 AR-1260-1 | 7.181 | 6.022 | 14021728 | 29200340 | 149.155m | 135.833 |
| 32) L7 AR-1260-2 | 7.437 | 6.207 | 17048133 | 46258381 | 146.839 | 169.992 |
| 33) L7 AR-1260-3 | 7.721 | 6.359 | 20378238 | 33360571 | 146.022 | 134.391 |
| 34) L7 AR-1260-4 | 8.020 | 6.825 | 12607150 | 25254249 | 145.978 | 147.694 |
| 35) L7 AR-1260-5 | 8.337 | 7.065 | 25800326 | 67886997 | 142.896 | 140.365 |

> SJ
 12/28/18

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

SOP ID: MSOM02.4-PCB-1
Clean Up SOP #: Acid Cleanup **Extraction Start Date :** 12/17/2018
Matrix : Solid **Extraction Start Time :** 10:10
Weigh By: RJ **Extraction By:** RJ **Extraction End Date :** 12/10/2018
Balance check: HP **Filter By:** RJ **Extraction End Time :** 14:30
Balance ID: EX-SC-1 **pH Meter ID:** N/A **Concentration By:** HP
pH Strip Lot#: N/A **Hood ID:** 3,7 **Supervisor By :** rajesh
Extraction Method: Seperatory Funne Continious Liquid/Liquid Sonication Waste Dilution Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1 | 1.0ML | 1000 PPB | PP14582 |
| Surrogate | 1.0ML | 200/400 PPB | PP14678 |
| Matrix Spike | 1.0ML | N/A | PP14442 |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| Hexane/Acetone/1:1 | N/A | EP1911 |
| Baked Na2SO4 | N/A | EP1909 |
| Hexane | N/A | E2559 |
| H2SO4 1:1 | N/A | EP1896 |
| 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:

GPC PROJECT J6439 & J6332

KD Bath ID: N/A **Envap ID:** NE.VAP-2
KD Bath Temperature: N/A **Envap Temperature:** 40 °C
Received Date/Time: 12/17/18 **Received By:** SM
Delivered Date/Time: 12/17/18/14:35 **Delivered By:** RP

Analytical Method: MSOM02.4-PCB-1

Concentration Date: 12/17/2018

| Sample ID | Client Sample ID | Test | g / mL | PH | Surr/ Spike By: | | Final Vol.(mL) | JarID | Comments | Prep Pos |
|------------|------------------|------|--------|----|-----------------|------------|----------------|-------|----------|----------|
| | | | | | AddedBy | VerifiedBy | | | | |
| PB115757BL | ABLK57 | PCB | 30.01 | | ritesh | Hiral | 10 | | | 2 |
| PB115757BS | ALCS57 | PCB | 30.03 | | ritesh | Hiral | 10 | | | 3 |
| J6432-01 | A41T3 | PCB | 30.10 | | ritesh | Hiral | 10 | | BLACK | U3-1 |
| J6432-02 | A41X0 | PCB | 30.09 | | ritesh | Hiral | 10 | | BLACK | 2 |
| J6432-03 | A41X0MS | PCB | 30.12 | | ritesh | Hiral | 10 | | BLACK | 3 |
| J6432-04 | A41X0MSD | PCB | 30.09 | | ritesh | Hiral | 10 | | BLACK | 4 |
| J6432-05 | A41Y4 | PCB | 30.03 | | ritesh | Hiral | 10 | | | 5 |
| J6432-06 | A41Y5 | PCB | 30.06 | | ritesh | Hiral | 10 | | | 6 |
| J6432-07 | A41Y6 | PCB | 30.11 | | ritesh | Hiral | 10 | | BLACK | U4-1 |
| J6432-08 | A41Y7 | PCB | 30.12 | | ritesh | Hiral | 10 | | D YELLOW | 2 |
| J6432-09 | A41Y8 | PCB | 30.14 | | ritesh | Hiral | 10 | | YELLOW | 3 |
| J6432-10 | A41Y9 | PCB | 30.06 | | ritesh | Hiral | 10 | | | 4 |
| J6432-11 | A41Z0 | PCB | 30.10 | | ritesh | Hiral | 10 | | | 5 |
| J6432-12 | A41Z1 | PCB | 30.07 | | ritesh | Hiral | 10 | | | 6 |
| J6432-13 | A41Z2 | PCB | 30.02 | | ritesh | Hiral | 10 | | YELLOW | U5-1 |
| J6432-14 | A41Z5 | PCB | 30.02 | | ritesh | Hiral | 10 | | | 2 |
| J6432-15 | A41Z6 | PCB | 30.09 | | ritesh | Hiral | 10 | | YELLOW | 3 |
| J6432-16 | A41Z7 | PCB | 30.12 | | ritesh | Hiral | 10 | | YELLOW | 4 |
| J6432-17 | A41Z8 | PCB | 30.10 | | ritesh | Hiral | 10 | | | 5 |
| J6432-18 | A41Z9 | PCB | 30.08 | | ritesh | Hiral | 10 | | | 6 |
| J6432-19 | A4200 | PCB | 30.05 | | ritesh | Hiral | 10 | | D YELLOW | U6-1 |

* Extracts relinquished on the same date as received.

12/17

PERCENT SOLID

Supervisor: apatel
 Analyst: jignesh
 Date: 12/17/2018

OVENTEMP IN Celsius(°C): 108
 Time IN: 16:40
 In Date: 12/15/2018
 Weight Check 1.0g: 1.00
 Weight Check 10g: 10.00
 OvenID: M Oven-1

OVENTEMP OUT Celsius(°C): 103
 Time OUT: 07:41
 Out Date: 12/16/2018
 Weight Check 1.0g: 1.00
 Weight Check 10g: 10.00
 BalanceID: M Sc-1

QC:LB99838

| Lab ID | Client Sample ID | Dish# | Dish Wt(g) (A) | Dish + Sample Wt(g) (B) | Dish + Dry Sample Wt(g) (C) | % Solid |
|----------|------------------|-------|-------------------|-------------------------------|-----------------------------------|---------|
| J6432-01 | A41T3 | 1 | 1.12 | 9.51 | 8.79 | 91.4 |
| J6432-02 | A41X0 | 2 | 1.14 | 9.61 | 7.48 | 74.9 |
| J6432-03 | A41X0MS | 3 | 1.14 | 9.61 | 7.48 | 74.9 |
| J6432-04 | A41X0MSD | 4 | 1.14 | 9.61 | 7.48 | 74.9 |
| J6432-05 | A41Y4 | 5 | 1.13 | 9.62 | 6.4 | 62.1 |
| J6432-06 | A41Y5 | 6 | 1.18 | 9.97 | 6.92 | 65.3 |
| J6432-07 | A41Y6 | 7 | 1.16 | 9.97 | 8.35 | 81.6 |
| J6432-08 | A41Y7 | 8 | 1.15 | 9.55 | 8.18 | 83.7 |
| J6432-09 | A41Y8 | 9 | 1.19 | 9.84 | 8.26 | 81.7 |
| J6432-10 | A41Y9 | 10 | 1.16 | 9.76 | 7.57 | 74.5 |
| J6432-11 | A41Z0 | 11 | 1.13 | 9.68 | 7.31 | 72.3 |
| J6432-12 | A41Z1 | 12 | 1.17 | 9.76 | 7.64 | 75.3 |
| J6432-13 | A41Z2 | 13 | 1.11 | 9.55 | 7.78 | 79.0 |
| J6432-14 | A41Z5 | 14 | 1.00 | 2.00 | 2.00 | 100.0 |
| J6432-15 | A41Z6 | 15 | 1.19 | 9.73 | 7.74 | 76.7 |
| J6432-16 | A41Z7 | 16 | 1.16 | 9.97 | 8.06 | 78.3 |
| J6432-17 | A41Z8 | 17 | 1.1 | 9.97 | 6.4 | 59.8 |
| J6432-18 | A41Z9 | 18 | 1.15 | 9.85 | 6.77 | 64.6 |
| J6432-19 | A4200 | 19 | 1.19 | 9.93 | 8.9 | 88.2 |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

1399838

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-J6432

WorkList ID : 120411

Date : 12/15/2018 8:13:18 AM

| Due Date | Matrix | Sample | Test | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method |
|------------|--------|----------|----------------|--------------|----------|------------------|-----------------|--------------|--------------|
| 12/22/2018 | Solid | J6432-01 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41T3 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-02 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41X0 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-03 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41X0MS | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-04 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41X0MSD | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-05 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Y4 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-06 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Y5 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-07 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Y6 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-08 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Y7 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-09 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Y8 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-10 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Y9 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-11 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Z0 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-12 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Z1 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-13 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Z2 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-14 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Z5 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-15 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Z6 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-16 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Z7 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-17 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Z8 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-18 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A41Z9 | 12/12/2018 | Chemtech -SO |
| 12/22/2018 | Solid | J6432-19 | Percent Solids | Cool 4 deg C | USEP04 | A13 | A4200 | 12/12/2018 | Chemtech -SO |

432

Date/Time 12-15-18 3:35 PM
 Received by: 31
 Relinquished by: CO

Date/Time 12-15-18 4:00 PM
 Received by: CO
 Relinquished by: JR

Prep Standard - Chemical Standard Summary**Order ID :** J6432**Test :** PCB**Prepbatch ID :** PB115757,**Sequence ID/Qc Batch ID:** PR122218,pr122818,PR121818**Standard ID :**

EP1896,EP1909,EP1911,PP14049,PP14054,PP14055,PP14056,PP14057,PP14076,PP14077,PP14078,PP14079,PP14080,PP14081,PP14082,PP14083,PP14085,PP14086,PP14087,PP14089,PP14090,PP14091,PP14390,PP14442,PP14582,P14678,

Chemical ID :

E2482,E2519,E2524,E2542,E2550,E2559,E2563,M4177,P3936,P3940,P3945,P5329,P5881,P6715,P7712,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14395,pp14396,pp14397,pp14398,pp14399,pp14400,pp14401,pp14402,V1456,W2363,

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|----------------|------------------------|------------------|---------------------|--------------------|
| 314 | 1.1 H2SO4 SOLN | EP1896 | 10/25/2018 | 04/25/2019 | Rajesh |
| FROM 1000.000ml of M4177 + 1000.000ml of V1456 = Final Quantity: 2000.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|-----------------------|------------------------|------------------|---------------------|--------------------|
| 256 | BAKED SODIUM SULPHATE | EP1909 | 12/06/2018 | 02/19/2019 | rajesh |
| FROM 4000.000gram of E2519 = Final Quantity: 4000.000 gram | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|-------------------|------------------------|------------------|---------------------|--------------------|
| 230 | 1:1ACETONE/HEXANE | EP1911 | 12/06/2018 | 06/04/2019 | rajesh |
| FROM 8000.000ml of E2559 + 8000.000ml of E2563 = Final Quantity: 16000.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|---------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 70 | 10/20 PPM Pest/PCB SOM01.2 Surg Stock | PP14049 | 08/06/2018 | 01/10/2019 | somina |
| FROM 1.000ml of E2482 + 9.000ml of P5881 = Final Quantity: 10.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 699 | Aroclor 1248 CS5 (1600\80\160 ng/ml) | PP14054 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P6715 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 700 | Aroclor 1254 CS5 (1600\80\160 ng/ml) | PP14055 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P3936 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 701 | Aroclor 1262 CS5 (1600\80\160 ng/ml) | PP14056 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P3945 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|--------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 702 | Aroclor 1268 CS5 (1600\80\160 ng/ml) | PP14057 | 08/06/2018 | 01/10/2019 | somina |
| FROM 0.080ml of P3940 + 49.520ml of W2363 + 0.400ml of PP14049 = Final Quantity: 50.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1255 | Aroclor 1248 CS4 (800 ng/ml) | PP14076 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14054 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 692 | Aroclor 1248 CS3 (400 ng/ml) | PP14077 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14054 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1256 | Aroclor 1248 CS2 (200 ng/ml) | PP14078 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14077 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1257 | Aroclor 1248 CS1 (100 ng/ml) | PP14079 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14078 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1863 | Aroclor 1254 CS4 (800 ng/ml) | PP14080 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14055 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 693 | Aroclor 1254 CS3 (400 ng/ml) | PP14081 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14055 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1864 | Aroclor 1254 CS2 (200 ng/ml) | PP14082 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14081 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1865 | Aroclor 1254 CS1 (100 ng/ml) | PP14083 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14082 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 694 | Aroclor 1262 CS3 (400 ng/ml) | PP14085 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14056 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1867 | Aroclor 1262 CS2 (200 ng/ml) | PP14086 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14085 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1868 | Aroclor 1262 CS1 (100 ng/ml) | PP14087 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14086 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 703 | Aroclor 1268 CS3 (400 ng/ml) | PP14089 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.750ml of W2363 + 0.250ml of PP14057 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1870 | Aroclor 1268 CS2 (200 ng/ml) | PP14090 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14089 = Final Quantity: 1.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1871 | Aroclor 1268 CS1 (100 ng/ml) | PP14091 | 08/08/2018 | 01/10/2019 | somina |
| FROM 0.500ml of W2363 + 0.500ml of PP14090 = Final Quantity: 1.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|---------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 41 | 100 PPM PCB Stock Solution 2nd Source | PP14390 | 10/08/2018 | 04/02/2019 | SOMINA |
| FROM 1.000ml of P5329 + 9.000ml of E2524 = Final Quantity: 10.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|------------------------------------|-------------------------|------------------|---------------------|--------------------|
| 1679 | 4000 PPB PCB MS-MSD Spike Solution | PP14442 | 10/16/2018 | 04/02/2019 | somina |
| FROM 0.400ml of P5329 + 99.600ml of E2524 = Final Quantity: 100.000 ml | | | | | |

STANDARD PREPARATION LOG

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|---|----------------------------|-------------------------|------------------|---------------------|--------------------|
| 923 | 1000 PPB PCB SPIKE SOMO1.2 | PP14582 | 11/07/2018 | 04/02/2019 | somina |
| FROM 99.000ml of E2542 + 1.000ml of PP14390 = Final Quantity: 100.000 ml | | | | | |

| <u>RecipeID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration D</u> | <u>Prepared By</u> |
|--|--|-------------------------|------------------|---------------------|--------------------|
| 69 | 200/400 PPB Pest/PCB SOM01.2 Surg Spike | PP14678 | 11/21/2018 | 05/19/2019 | eghosa |
| FROM 1.000ml of P7712 + 499.000ml of E2550 = Final Quantity: 500.000 ml | | | | | |

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) | 0000179319 | 01/10/2019 | 07/11/2018 / Rajesh | 07/11/2018 / Rajesh | E2482 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | / Sodium sulfate (anhydrous) | 743502 | 02/19/2019 | 08/20/2018 / Rajesh | 08/13/2018 / Rajesh | E2519 |

| 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) | 0000179319 | 04/02/2019 | 10/03/2018 / Rajesh | 10/03/2018 / Rajesh | E2524 |

| 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) | 0000196203 | 04/30/2019 | 10/31/2018 / Rajesh | 10/31/2018 / Rajesh | E2542 |

| 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) | 0000196203 | 05/19/2019 | 11/19/2018 / rajesh | 11/14/2018 / RUPESH | E2550 |

| 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) | 0000209662 | 11/27/2019 | 12/05/2018 / rajesh | 11/28/2018 / rajesh | E2559 |

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) | 0000196203 | 06/04/2019 | 12/05/2018 / rajesh | 12/05/2018 / rajesh | E2563 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 0000177544 | 06/14/2022 | 09/06/2018 / mohan | 06/06/2018 / mohan | M4177 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul | A092005 | 02/28/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3936 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane | A091468 | 01/31/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3940 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|---------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane | A092660 | 03/31/2019 | 11/20/2015 / iwona | 04/30/2013 / BIRHA | P3945 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|---------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 20064 / Aroclor 1016/1260 | 102711 | 10/27/2021 | 08/31/2016 / SOMINA | 09/03/2015 / Nevilkumar | P5329 |

CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32453 / Pesticide Stock Standard, Pesticide Surrogate Mix, 1mL, 100-200ug/mL, acetone | A0117515 | 05/31/2022 | 04/06/2018 / Ankita | 10/13/2016 / Ankita | P5881 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul | A0125373 | 05/31/2023 | 03/19/2018 / somina | 09/14/2017 / somina | P6715 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek | 32453 / SOM01.1 Pesticide Surrogate Standard | A0131432 | 01/31/2024 | 10/16/2018 / Ankita | 08/16/2018 / eghosa | P7712 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------|---------------------|-------|-----------------|-------------------------|-----------------------------|----------------|
| Res-Kem General water | DIW / DI Water | DAILY | 12/31/2019 | 03/01/2010 / apatel | 03/02/2010 / apatel | V1456 |

| 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) | 0000190529 | 03/15/2019 | 05/04/2018 / JIGNESH | 05/02/2018 / JIGNESH | W2363 |

Sulfuric Acid
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis
 Low Selenium

M 4177
 AS
 Received on
 6/6/18



Material No.: 9673-33
 Batch No.: 0000177544
 Manufactured Date: 2017/06/15
 Retest Date: 2022/06/14

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|--------|
| ACS - Assay (H ₂ SO ₄) | 95.0 - 98.0 % | 96.0 |
| Appearance | Passes Test | PT |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | < 1 |
| ACS - Substances Reducing Permanganate (as SO ₂) | <= 2 ppm | < 2 |
| Ammonium (NH ₄) | <= 1 ppm | < 1 |
| Chloride (Cl) | <= 0.1 ppm | < 0.1 |
| Nitrate (NO ₃) | <= 0.2 ppm | < 0.1 |
| Phosphate (PO ₄) | <= 0.5 ppm | < 0.1 |
| Trace Impurities - Aluminum (Al) | <= 30.0 ppb | 4.1 |
| Arsenic and Antimony (as As) | <= 4 ppb | < 2 |
| Trace Impurities - Barium (Ba) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Beryllium (Be) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 10.0 ppb | 1.2 |
| Trace Impurities - Cadmium (Cd) | <= 2.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 35.2 |
| Trace Impurities - Chromium (Cr) | <= 6.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 0.5 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Germanium (Ge) | <= 10.0 ppb | < 2.0 |
| Trace Impurities - Gold (Au) | <= 10.0 ppb | 0.8 |
| Heavy Metals (as Pb) | <= 500 ppb | < 100 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
 Avantor Performance Materials, LLC.
 3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610


| Test | Specification | Result |
|------------------------------------|---------------|--------|
| Trace Impurities - Iron (Fe) | <= 50.0 ppb | 2.3 |
| Trace Impurities - Lead (Pb) | <= 0.5 ppb | < 0.5 |
| Trace Impurities - Lithium (Li) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Magnesium (Mg) | <= 7.0 ppb | 0.8 |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities - Molybdenum (Mo) | <= 10.0 ppb | < 3.0 |
| Trace Impurities - Nickel (Ni) | <= 2.0 ppb | < 0.3 |
| Trace Impurities - Niobium (Nb) | <= 10.0 ppb | 0.3 |
| Trace Impurities - Potassium (K) | <= 500.0 ppb | < 2.0 |
| Trace Impurities - Selenium (Se) | <= 50.0 ppb | < 10.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | 5.0 |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Sodium (Na) | <= 500.0 ppb | 1.2 |
| Trace Impurities - Strontium (Sr) | <= 5.0 ppb | < 0.2 |
| Trace Impurities - Tantalum (Ta) | <= 10.0 ppb | < 0.9 |
| Trace Impurities - Thallium (Tl) | <= 20.0 ppb | < 2.0 |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities - Titanium (Ti) | <= 10.0 ppb | < 0.5 |
| Trace Impurities - Vanadium (V) | <= 10.0 ppb | < 0.2 |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | 1.3 |
| Trace Impurities - Zirconium (Zr) | <= 10.0 ppb | 0.1 |

For Laboratory, Research or Manufacturing Use

Country of Origin: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panoli, India 9001:2008


 Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600

Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Hexanes (95% n-hexane)
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



W2362
0. PUPRI. 05/04/2018
EXP PUPRI. 03.15.2019
Certificate of Analysis *JP*

Material No.: 9262-03
 Batch No.: 0000182619
 Manufactured Date: 2017/09/01
 Expiration Date: 2018/12/01

| 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 | 10 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | <= 5 | < 1 |
| Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water) | >= 99.5 % | 100.0 |
| Assay (as n-Hexane) (by GC, corrected for water) | >= 95 % | 98 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.3 |
| Substances Darkened by H ₂ SO ₄ | Passes Test | PT |
| Water (by KF, coulometric) | <= 0.05 % | 0.01 |

For Laboratory, Research or Manufacturing Use
 MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panaji, India 9001:2008

Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
 Avantor Performance Materials, LLC.

3477 Corporate Parkway. Center Valley, PA 18034. U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610



CERTIFIED WEIGHT REPORT

Part Number: 20064
Lot Number: 102711
Description: CLP PCB'S - Aroclor Mix
Aroclors 1016 & 1260
Expiration Date: 102721
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000

Solvent(s): Hexane
Lot# J32E22

| | | |
|------------------------|-----------------|--------|
| <i>Pat Scaturchio</i> | | 102711 |
| Formulated By: | Pat Scaturchio | DATE |
| <i>Pedro L. Rentas</i> | | 102711 |
| Reviewed By: | Pedro L. Rentas | DATE |

5E-05 Balance Uncertainty
0.007 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | MSDS Information (Solvent Safety Info. On Attached pg.) | | |
|-----------------|-----|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|------------------------------------|---|----------------|-------------------|
| | | | | | | | | | | CAS# | OSHA PEL (TWA) | LD50 |
| 1. Aroclor 1016 | 15 | 020491JC | 1000 | 100 | 0.2 | 0.19999 | 0.20028 | 1001.5 | 4.0 | 12674-11-2 | N/A | N/A |
| 2. Aroclor 1260 | 21 | 020491JC | 1000 | 100 | 0.2 | 0.19999 | 0.20019 | 1001.0 | 4.0 | 11096-82-5 | 0.5mg/m3 | ori-rat 1315mg/kg |

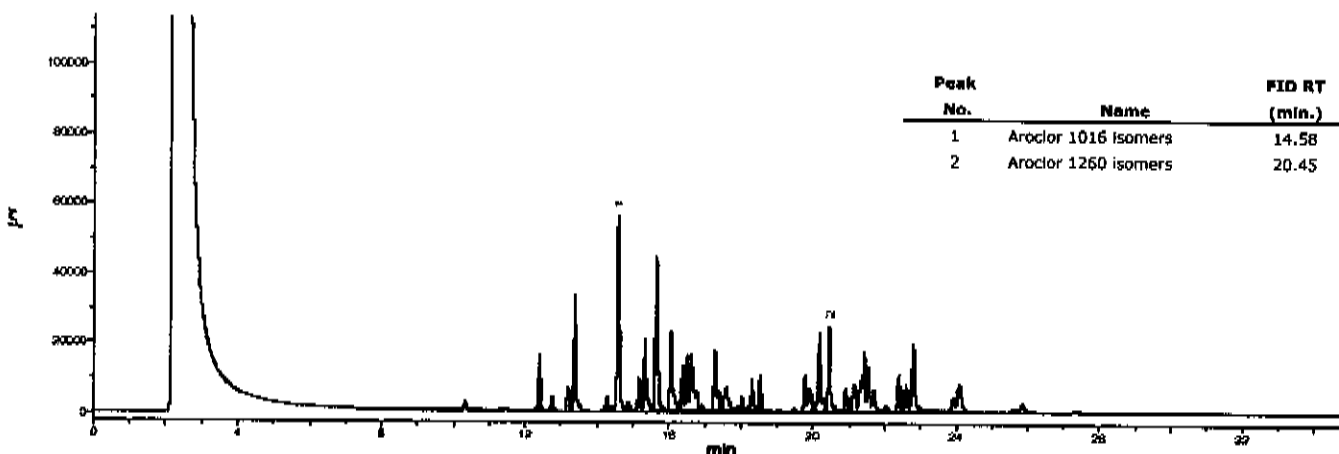
Run 43, "P20064 L102711 [1000µg/mL in hexane]"

Run Length: 35.00 min, 20000 points at 10 points/second.
Created: Fri, Oct 28, 2011 at 6:45:55 PM.
Sampled: Sequence "102711-GC3-M1", Method "GC3-M1".
Analyzed using Method "GC3-M1".

Comments
GC3-M1 Analyze by Melissa Stoner
Column ID SPB-808 3 meter X 0.53mm X 5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydrogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150 °C (Time 1 = 4 min), Temp 2 = 290 °C (Time 2 = 13.5 min)
Rate = 8 °C/min, Total run time = 35 min
Injector temp. = 200 °C, FID Temp. = 300 °C, FID Signal = Edaq Channel 1
Standard Injection = 1.0µL, Range=3

P5743
↓ NP
P7 P5747

06/30/2016





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. : 32453 **Lot No.:** A0117515

Description : SOM01.1 Pesticide Surrogate Standard
Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2022 **Storage:** 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

P5877
↓
P5881

AJ
10/13/16

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---------------|-----------------------------------|-----------------------------|--------------------------------------|--------|-------------------|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 100.0 µg/mL | +/- | 0.7088 | µg/mL Gravimetric |
| | CAS # 877-09-8 (Lot 0052481) | | +/- | 3.1930 | µg/mL Unstressed |
| | Purity 98% | | +/- | 4.1577 | µg/mL Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 200.0 µg/mL | +/- | 1.4182 | µg/mL Gravimetric |
| | CAS # 2051-24-3 (Lot ER071509-01) | | +/- | 6.3886 | µg/mL Unstressed |
| | Purity 99% | | +/- | 8.3187 | µg/mL Stressed |

Solvent: Acetone
CAS # 67-64-1
Purity 99%



1. IDENTIFICATION

Catalog Number / Product Name: 32453 / SOMO1.1 Pesticide Surrogate Standard
Company: Restek Corporation
Address: 110 Benner Circle
Bellefonte, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 1-800-424-9300 (CHEMTREC)
+1 703-741-5970 (Outside the US)
Email: sds@restek.com
Revision Number: 5
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Flammable Liquid Category 2
Serious Eye Damage/Eye Irritation Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure
Category 3

GHS Signal Word:

Danger

GHS Hazard:

Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or dizziness.

GHS Precautions:

Safety Precautions:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If eye irritation persists: Get medical advice/attention.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/container according to section 13 of the SDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
|---------------|---------|----------------------------|--|---|---------------------------------|
| Acetone | 67-64-1 | 2500 ppm IDLH (10% LEL) | 750 ppm STEL 750 ppm STEL; 1782 mg/m3 STEL | 500 ppm TWA 500 ppm TWA; 1188 mg/m3 TWA | 1000 ppm TWA; 2400 mg/m3 TWA |

Personal Protection:

Engineering Measures:

Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection:

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.

Eye Protection:

Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Medical Conditions Aggravated By Exposure: Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------------------|
| Appearance, color: | Depends upon product selection |
| Odor: | Strong |
| Physical State: | No data available. |
| pH: | No data available |
| Vapor Density: | 2.0 (air = 1) |
| Melting Point: | -95.4 °C Melting Point |
| Flash Point: | 39 |
| Flammability: | Highly Flammable |
| Upper Flammable/Explosive Limit, % in air: | No data available. |
| Lower Flammable/Explosive Limit, % in air: | No data available. |
| Autoignition Temperature: | 465 deg C |
| Decomposition Temperature: | No data available. |
| Specific Gravity: | 0.7845 g/cm3 at 25 °C |
| Evaporation Rate: | No data available. |
| Odor Threshold: | ND |
| Solubility: | Complete; 100% |
| Partition Coefficient: n-octanol in water: | No data available. |
| VOC % by weight: | 0.00 |
| Molecular Weight: | 58.08 |

10. STABILITY AND REACTIVITY

| | |
|--|--------------------------------------|
| Stability: | Stable under normal conditions. |
| Conditions to Avoid: | No data available. |
| Materials to Avoid / Chemical Incompatibility: | Strong oxidizing agents Strong acids |
| Hazardous Decomposition Products: | Carbon dioxide Carbon monoxide |

11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Routes of Entry: | Inhalation, Skin Contact, Eye Contact, Ingestion |
| Target Organs Potentially Affected By Exposure: | Eyes, Central nervous system stimulation, Respiratory Tract, Skin |
| Chemical Interactions That Change Toxicity: | None Known |

Immediate (Acute) Health Effects by Route of Exposure:

| | |
|------------------------|---|
| Inhalation Irritation: | Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache. |
| Skin Contact: | Can cause minor skin irritation, defatting, and dermatitis. |
| Eye Contact: | Can cause minor irritation, tearing and reddening. |
| Ingestion Irritation: | May be harmful if swallowed. |
| Ingestion Toxicity: | Harmful if swallowed. May cause systemic poisoning. |

Long-Term (Chronic) Health Effects:

| | |
|--|---|
| Carcinogenicity: | No data. |
| Reproductive and Developmental Toxicity: | No data available to indicate product or any components present at greater than 0.1% may cause birth defects. |

| | | | |
|--------------------|--|--|--|
| No data available. | | | |
|--------------------|--|--|--|

15. REGULATORY INFORMATION

United States:

| Chemical Name | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
|---------------|---------|--------|----------|--------------|------|
| Acetone | 67-64-1 | X | - | - | X |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|---------|------------|---------------|--------------|------------|
| Acetone | 67-64-1 | X | X | X | X |

16. OTHER INFORMATION

Prior Version Date: 10/23/14

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

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/ μ 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Bonner Circle
 Bellefonte, PA 16823-8812
 Tel: (800)356-1688
 Fax: (814)353-1309

www.restek.com



Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS 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.

atalog No. : 32011 Lot No.: A092005
 Description : Aroclor® 1254 Standard
Aroclor 1254 1000µg/mL, Hexane, 1mL/ampul
 Container Size : 2 mL Pkg Amt: > 1 mL
 Production Date : February 2019 Storage: 25°C nominal
 Packaging : This product contains PCB's

CERTIFIED VALUES

| Material Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.: K=2) | | | |
|----------------|------------|--------------------------------|---|---------|-------|-------------|
| Aroclor 1254 | | 1,000.0 µg/mL | +/- | 5.8686 | µg/mL | Gravimetric |
| CAS # | 11097-69-1 | | +/- | 20.8758 | µg/mL | Unstressed |
| Purity | 99% | | +/- | 34.3670 | µg/mL | Stressed |

Solvent: Hexane
 CAS # 110-54-3
 Purity 99%

P 3936 - P 3937
 5/13/13

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

1. IDENTIFICATION

Catalog Number / Product Name: 32409, 32409-5XX, & 32509 / Aroclor 1262 Standard
Company: Restek Corporation
Address: 110 Benner Circle
Belleville, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 800-356-1688
Revision Number: 6
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Aspiration Hazard Category 1
Flammable Liquid Category 2
Skin Corrosion/Irritation Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Hazardous to the aquatic environment - Chronic Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Flame
Health Hazard
Environment
Danger

GHS Signal Word:

GHS Hazard:

H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precautions:

Safety Precautions:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands and skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Carbon dioxide, Carbon monoxide

Hazardous Combustion Products:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
|---------------|------------|-------------------------|------------|---------------|---|
| hexane | 110-54-3 | 1100 ppm IDLH (10% LEL) | 1000 ppm | 50 ppm TWA | 500 ppm TWA; 1800 mg/m ³ TWA |
| arochlor 1262 | 37324-23-5 | ND | | No TLV | No data available. |

United Kingdom:

| Chemical Name | CAS No. | EINEC No. | WEL-STEL | WEL-TWA |
|---------------|------------|-----------|---|--------------------------------------|
| hexane | 110-54-3 | 203-777-6 | 60 ppm STEL (calculated); 216 mg/m ³ STEL (calculated) | 20 ppm TWA; 72 mg/m ³ TWA |
| arochlor 1262 | 37324-23-5 | | No data available. | No data available. |

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.
Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------|----------------------------------|
| Odor: | Mild |
| pH: | No data available. |
| Vapor Density: | 2.97 (air = 1) |
| Melting Point: | -95 °C Melting Point |
| Flash Point: | -8 |
| Flammability: | Highly Flammable |
| Specific Gravity: | 0.672 g/cm ³ at 15 °C |
| Evaporation Rate: | No data available. |
| Odor Threshold: | No data available. |
| Solubility: | Negligible; 0-1% |

No data.
No data.
No data.

Group 1
Group 2A
Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

Marine Pollutant: No

15. REGULATORY INFORMATION

| United States: | Chemical Name | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
|----------------|---------------|------------|--------|----------|--------------|------|
| | hexane | 110-54-3 | X | X | - | X |
| | arochlor 1262 | 37324-23-5 | - | - | - | - |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|------------|------------|---------------|--------------|------------|
| hexane | 110-54-3 | X | X | X | - |
| arochlor 1262 | 37324-23-5 | - | - | - | - |

EU Directives Classification:

Hazard Symbols:



Risk Phrases: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
R11 - Highly flammable

Safety Phrases: S2:Keep out of reach of children



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 MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32410 **Lot No.:** A091468
Description : Aroclor® 1268 Standard
Aroclor 1268 Std 1000µg/mL, 1mL/ampul, Hexane
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 2019 **Storage:** 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|-----------------|---|--------------------------------|---|-------|-------------|
| 1 | Aroclor 1268 CAS # 11100-14-4 Purity ---% | 1,000.0 µg/mL | +/- 5.9397 | µg/mL | Gravimetric |
| | | | +/- 20.8959 | µg/mL | Unstressed |
| | | | +/- 34.3792 | µg/mL | Stressed |
| Solvent: | Hexane CAS # 110-54-3 Purity 99% | | | | |

P3940-3941

I Certified Reference Material Notes

Expiration Notes:

Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.

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.

General Notes:

Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ 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.

Uncertainty Value Notes:

The uncertainties are determined in accordance with ISO Guides 34 and 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:

$$U_{\text{combined stressed}} = k \sqrt{U_{\text{gravimetric}}^2 + U_{\text{homogeneity}}^2 + U_{\text{storage stability}}^2 + U_{\text{shipping stability}}^2}$$

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 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) | < 25°C | ≥ 25°C up to 7 days |

Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.

The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Preparation 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.

Storage Notes:

Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31840, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.

If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK

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 MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 32409 **Lot No.:** A092660
Description: Aroclor® 1262 Standard
Aroclor 1262 Std 1000µg/mL, 1mL/ampul, Hexane
Container Size: 2 mL **Pkg Amt:** > 1 mL
Expiration Date: March 2019 **Storage:** 25°C nominal
Handling: This product contains PCB's

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.: K=2) | | |
|---------------|------------------|-----------------------------|--------------------------------------|-------|-------------|
| 1 | Aroclor 1262 | 1,000.0 µg/mL | +/- 5.9397 | µg/mL | Gravimetric |
| | CAS # 37324-23-5 | | +/- 20.8959 | µg/mL | Unstressed |
| | Purity ---% | | +/- 34.3792 | µg/mL | Stressed |

Solvent: Hexane
CAS # 110-54-3
Purity 99%

p 3945 - p 3946
~~p 3938 - p 3939~~ in 5/10/13
5/13/13

General Certified Reference Material Notes

Expiration Notes:

- Expiration date of the unopened ampul stored at the recommended storage condition is the last day of the month listed in the expiration date field.
- 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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31640, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

1. IDENTIFICATION

Catalog Number / Product Name: 32410, 32410-5XX, & 32510 / Aroclor 1268 Standard
Company: Restek Corporation
Address: 110 Benner Circle
Bellefonte, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 800-356-1688
Revision Number: 7
Intended use: For Laboratory use only

2. HAZARD(S) IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:



GHS Classification:

Aspiration Hazard Category 1
Flammable Liquid Category 2
Skin Corrosion/Irritation Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Hazardous to the aquatic environment - Chronic Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Flame
Health Hazard
Environment
Danger

GHS Signal Word:

GHS Hazard:

H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

GHS Precautions:

Safety Precautions:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands and skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Carbon dioxide, Carbon monoxide

Hazardous Combustion Products:

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| United States: | | | | | |
|------------------------|------------|-------------------------|---|--------------------------------------|---|
| Chemical Name | CAS No. | IDLH | ACGIH STEL | ACGIH TLV-TWA | OSHA Exposure Limit |
| hexane | 110-54-3 | 1100 ppm IDLH (10% LEL) | 1000 ppm | 50 ppm TWA | 500 ppm TWA; 1800 mg/m ³ TWA |
| aroclor® 1268 | 11100-14-4 | ND | | No TLV | No data available. |
| United Kingdom: | | | | | |
| Chemical Name | CAS No. | EINEC No. | WEL-STEL | WEL-TWA | |
| hexane | 110-54-3 | 203-777-6 | 60 ppm STEL (calculated); 216 mg/m ³ STEL (calculated) | 20 ppm TWA; 72 mg/m ³ TWA | |
| aroclor® 1268 | 11100-14-4 | | No data available. | No data available. | |

Personal Protection: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Engineering Measures: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respiratory Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Eye Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

Skin Protection:

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Mild

pH: No data available.

Vapor Density: 2.97 (air = 1)

Melting Point: -95 °C Melting Point

Flash Point: -8

Flammability: Highly Flammable

Specific Gravity: 0.672 g/cm³ at 15 °C

Evaporation Rate: No data available.

Odor Threshold: No data available.

Solubility: Negligible; 0-1%

No data.
No data.
No data.

Group 1
Group 2A
Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Hexanes
UN Number: UN1208
Hazard Class: 3
Packing Group: II

Marine Pollutant: No

15. REGULATORY INFORMATION

| United States: | | | | | |
|----------------|------------|--------|----------|--------------|------|
| Chemical Name | CAS# | CERCLA | SARA 313 | SARA EHS 313 | TSCA |
| hexane | 110-54-3 | X | X | - | X |
| aroclor® 1268 | 11100-14-4 | - | - | - | - |

The following chemicals are listed on CA Prop 65:

| Chemical Name | CAS # | Regulation |
|---------------|-------|------------|
|---------------|-------|------------|

State Right To Know Listing:

| Chemical Name | CAS# | New Jersey | Massachusetts | Pennsylvania | California |
|---------------|------------|------------|---------------|--------------|------------|
| hexane | 110-54-3 | X | X | X | - |
| aroclor® 1268 | 11100-14-4 | - | - | - | - |

EU Directives Classification:

Hazard Symbols:



Risk Phrases: R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
R11 - Highly flammable

Safety Phrases: S2: Keep out of reach of children



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. : 32010 **Lot No.:** A0125373

Description : Aroclor® 1248 Standard
Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2023 **Storage:** 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L. : K=2) | | | |
|---------------|---|-----------------------------|---------------------------------------|-------|-------------|--|
| 1 | Aroclor 1248 CAS # 12672-29-6 Purity —% (Lot 07) | 1,000.5 µg/mL | +/- 5.8715 | µg/mL | Gravimetric | |
| | | | +/- 31.7098 | µg/mL | Unstressed | |
| | | | +/- 41.4236 | µg/mL | Stressed | |

Solvent: Hexane
CAS # 110-54-3
Purity 99%

26715
6
26717 Sm
9/18/17

PCI SCIENTIFIC SUPPLY, INC.

41 PLYMOUTH STREET

FAIRFIELD, NJ 07004

P# (973) 244-9002

F# (973) 244-9448

E 2519

CERTIFICATE OF ANALYSIS

| | | | |
|-------------------------------|--|----------------------|-------------------------------------|
| PRODUCT : | SODIUM SULFATE CRYSTALS ANHYDROUS | | |
| QUALITY : | ACS (CODE RMB3375) | FORMULA : | Na₂SO₄ |
| SPECIFICATION NUMBER : | 6399 | RELEASE DATE: | NOV/30/2017 |
| LOT NUMBER : | 743502 | | |

| TEST | SPECIFICATIONS | LOT VALUES |
|--|----------------|-------------|
| Assay (Na ₂ SO ₄) | Min. 99.0 % | 99.4 % |
| pH of a 5% solution at 25°C | 5.2 - 9.2 | 5.8 |
| Insoluble matter | Max. 0.01 % | 0.007 % |
| Loss on ignition | Max. 0.5 % | 0.1 % |
| Chloride (Cl) | Max. 0.001 % | <0.001 % |
| Nitrogen compounds (as N) | Max. 5 ppm | <5 ppm |
| Phosphate (PO ₄) | Max. 0.001 % | <0.001 % |
| Heavy metals (as Pb) | Max. 5 ppm | <5 ppm |
| Iron (Fe) | Max. 0.001 % | <0.001 % |
| Calcium (Ca) | Max. 0.01 % | 0.001 % |
| Magnesium (Mg) | Max. 0.005 % | 0.0002 % |
| Potassium (K) | Max. 0.008 % | 0.002 % |
| 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 % | 0.0 % |
| Retained on US Standard No. 60 sieve | Min. 94 % | 98.1 % |
| Through US Standard No. 60 sieve | Max. 5 % | 1.8 % |
| Through US Standard No. 100 sieve | Max. 10 % | 0.0 % |



QC: PhC Irma Belmares

Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 0000179319
Manufactured Date: 2017/06/14
Expiration Date: 2020/06/13

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.1 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ 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 | 5 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2482



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Pune, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610

Acetone
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



Material No.: 9254-03
 Batch No.: 0000179319
 Manufactured Date: 2017/06/14
 Expiration Date: 2020/06/13

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.1 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ 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 | 5 |

For Laboratory, Research or Manufacturing Use
 MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
 Packaging Site: Paris Mfg Ctr & DC

E 2524

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panaji, India 9001:2008

Jamie Ethier
 Vice President Global Quality

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Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 0000196203
Manufactured Date: 2018/02/06
Expiration Date: 2021/02/05
Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.3 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ O) | <= 0.5 % | 0.3 |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | 2 |
| 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: US
Packaging Site: Phillipsburg Mfg Ctr & DC

E 2542

ISO Phillipsburg, NJ 9001:2008, 14001:2004, F55C 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2012
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2012
Mumbai, India, 9001:2008
Panaji, India 9001:2008

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600

Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 Fax: 610.573.2610

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 0000209662
Manufactured Date: 2018/08/28
Expiration Date: 2019/11/27
Revision No: 1

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 | 2 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | ≤ 5 | < 1 |
| Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water) | $\geq 99.5 \%$ | 99.8 |
| Assay (as n-Hexane) (by GC, corrected for water) | $\geq 95 \%$ | 98 |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 |
| Substances Darkened by H ₂ SO ₄ | Passes Test | PT |
| Water (by KF, coulometric) | $\leq 0.05 \%$ | < 0.01 |

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

E 2559

ISO

Phillipsburg, NJ 9001:2015, FS5C22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2009
Dehradun, India, 9001:2008, 14001:2004, 13486:2003
Mumbai, India, 9001:2015, 17026:2005
Panaji, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

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

477

Acetone
 ULTRA RESI-ANALYZED
 For Organic Residue Analysis



Material No.: 9254-03
 Batch No.: 0000196203
 Manufactured Date: 2018/02/06
 Expiration Date: 2021/02/05
 Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|--------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | >= 99.4 % | 99.7 |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0000 ppm | 0.1000 |
| Substances Reducing Permanganate | Passes Test | PT |
| Titration Acid (µeq/g) | <= 0.3 | 0.3 |
| Titration Base (µeq/g) | <= 0.6 | < 0.1 |
| Water (H ₂ O) | <= 0.5 % | 0.3 |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | <= 5 | 2 |
| 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: US
 Packaging Site: Phillipsburg Mfg Ctr & DC

E 2563

ISO

Phillipsburg, NJ 9001:2008, 14001:2004, FS5C 22000
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
 Gliwice, Poland 9001:2008, 13485:2012
 Selangor, Malaysia 9001:2008
 Dehradun, India, 9001:2008, 14001:2004, 13485:2003
 Mumbai, India, 9001:2008
 Panoli, India 9001:2008

Jamie Ethier
 Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.573.2600
 Avantor Performance Materials, LLC.

3477 Corporate Parkway, Center Valley, PA 18034, U.S.A. Phone: 610.573.2600 . Fax: 610.573.2610



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32453 Lot No.: A0131432

Description : SOM01.1 Pesticide Surrogate Standard
Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : January 31, 2024 Storage: 0°C or colder

Handling: Contains PCBs - sonicate prior to use.

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---------------|-----------------------------------|-----------------------------|--------------------------------------|-------|-------------|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 100.0 µg/mL | +/- 0.7088 | µg/mL | Gravimetric |
| | CAS # 877-09-8 (Lot 0052481) | | +/- 3.1930 | µg/mL | Unstressed |
| | Purity 98% | | +/- 4.1577 | µg/mL | Stressed |
| 2 | Decachlorobiphenyl (BZ# 209) | 201.0 µg/mL | +/- 1.4253 | µg/mL | Gravimetric |
| | CAS # 2051-24-3 (Lot ER071509-01) | | +/- 6.4205 | µg/mL | Unstressed |
| | Purity 99% | | +/- 8.3603 | µg/mL | Stressed |

Solvent: Acetone
CAS # 67-64-1
Purity 99%

P7712



P7716

08/16/18

E-1

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

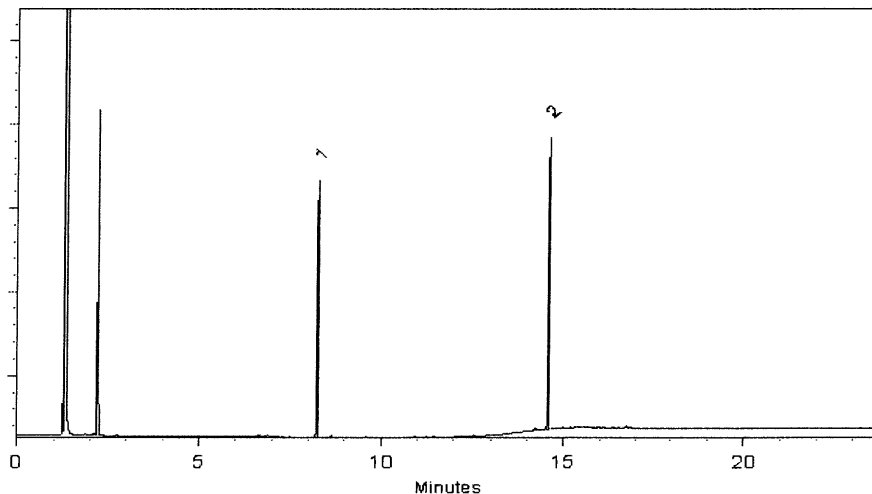
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

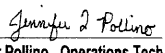
Det. Type:
FID



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.


Larry J. Moore - Mix Technician

Date Mixed: 06-Oct-2017 Balance: B707717271


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 09-Oct-2017

Manufactured under Restek's ISO 9001:2008
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 Guides 34 and 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 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) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|---------------|----------------|-------------------|----------|--------|
| 1 | AIBLK82 | PR034706.D | 17 Dec 2018 14:52 | SM\SJ | Ok |
| 2 | AR1660ICC100 | PR034707.D | 17 Dec 2018 15:11 | SM\SJ | Ok |
| 3 | AR1660ICC200 | PR034708.D | 17 Dec 2018 15:25 | SM\SJ | Ok |
| 4 | AR1660ICC400 | PR034709.D | 17 Dec 2018 15:40 | SM\SJ | Ok |
| 5 | AR1660ICC800 | PR034710.D | 17 Dec 2018 15:54 | SM\SJ | Ok |
| 6 | AR1660ICC1600 | PR034711.D | 17 Dec 2018 16:09 | SM\SJ | Ok |
| 7 | AR1221ICC100 | PR034712.D | 17 Dec 2018 16:23 | SM\SJ | Ok |
| 8 | AR1232ICC100 | PR034713.D | 17 Dec 2018 16:37 | SM\SJ | Ok |
| 9 | AR1242ICC100 | PR034714.D | 17 Dec 2018 16:52 | SM\SJ | Ok |
| 10 | AR1242ICC200 | PR034715.D | 17 Dec 2018 17:06 | SM\SJ | Ok |
| 11 | AR1242ICC400 | PR034716.D | 17 Dec 2018 17:21 | SM\SJ | Ok |
| 12 | AR1242ICC800 | PR034717.D | 17 Dec 2018 17:35 | SM\SJ | Ok |
| 13 | AR1242ICC1600 | PR034718.D | 17 Dec 2018 17:50 | SM\SJ | Ok |
| 14 | AR1248ICC100 | PR034719.D | 17 Dec 2018 18:04 | SM\SJ | Ok |
| 15 | AR1248ICC200 | PR034720.D | 17 Dec 2018 18:19 | SM\SJ | Ok |
| 16 | AR1248ICC400 | PR034721.D | 17 Dec 2018 18:33 | SM\SJ | Ok |
| 17 | AR1248ICC800 | PR034722.D | 17 Dec 2018 18:48 | SM\SJ | Ok |
| 18 | AR1248ICC1600 | PR034723.D | 17 Dec 2018 19:02 | SM\SJ | Ok |
| 19 | AR1254ICC100 | PR034724.D | 17 Dec 2018 19:16 | SM\SJ | Ok |
| 20 | AR1254ICC200 | PR034725.D | 17 Dec 2018 19:31 | SM\SJ | Ok |
| 21 | AR1254ICC400 | PR034726.D | 17 Dec 2018 19:45 | SM\SJ | Ok |
| 22 | AR1254ICC800 | PR034727.D | 17 Dec 2018 20:00 | SM\SJ | Ok |
| 23 | AR1254ICC1600 | PR034728.D | 17 Dec 2018 20:14 | SM\SJ | Ok |
| 24 | AR1262ICC100 | PR034729.D | 17 Dec 2018 20:29 | SM\SJ | Ok |
| 25 | AR1268ICC100 | PR034730.D | 17 Dec 2018 20:43 | SM\SJ | Ok |
| 26 | AIBLK83 | PR034731.D | 17 Dec 2018 20:58 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|--------|
| 27 | AR1660CCC400 | PR034732.D | 17 Dec 2018 21:12 | SM\SJ | Ok |
| 28 | AR1242CCC400 | PR034733.D | 17 Dec 2018 21:27 | SM\SJ | Ok |
| 29 | AR1248CCC400 | PR034734.D | 17 Dec 2018 21:41 | SM\SJ | Ok |
| 30 | AR1254CCC400 | PR034735.D | 17 Dec 2018 21:56 | SM\SJ | Ok |
| 31 | PB115739BL | PR034736.D | 17 Dec 2018 22:10 | SM\SJ | Ok |
| 32 | PB115739BS | PR034737.D | 17 Dec 2018 22:25 | SM\SJ | Ok |
| 33 | J6415-01 | PR034738.D | 17 Dec 2018 22:39 | SM\SJ | Not Ok |
| 34 | J6415-02 | PR034739.D | 17 Dec 2018 22:53 | SM\SJ | Not Ok |
| 35 | J6415-03 | PR034740.D | 17 Dec 2018 23:08 | SM\SJ | Not Ok |
| 36 | J6415-04 | PR034741.D | 17 Dec 2018 23:22 | SM\SJ | Not Ok |
| 37 | J6415-05 | PR034742.D | 17 Dec 2018 23:37 | SM\SJ | Not Ok |
| 38 | J6415-06 | PR034743.D | 17 Dec 2018 23:51 | SM\SJ | Not Ok |
| 39 | J6415-07MS | PR034744.D | 18 Dec 2018 00:06 | SM\SJ | Not Ok |
| 40 | J6415-08MSD | PR034745.D | 18 Dec 2018 00:20 | SM\SJ | Not Ok |
| 41 | J6415-09 | PR034746.D | 18 Dec 2018 00:35 | SM\SJ | Not Ok |
| 42 | J6415-10 | PR034747.D | 18 Dec 2018 00:49 | SM\SJ | Not Ok |
| 43 | J6415-11 | PR034748.D | 18 Dec 2018 01:04 | SM\SJ | Not Ok |
| 44 | J6415-12 | PR034749.D | 18 Dec 2018 01:18 | SM\SJ | Not Ok |
| 45 | J6415-13 | PR034750.D | 18 Dec 2018 01:33 | SM\SJ | Not Ok |
| 46 | J6415-14 | PR034751.D | 18 Dec 2018 01:47 | SM\SJ | Not Ok |
| 47 | J6415-15 | PR034752.D | 18 Dec 2018 02:01 | SM\SJ | Not Ok |
| 48 | J6415-16 | PR034753.D | 18 Dec 2018 02:16 | SM\SJ | Not Ok |
| 49 | J6415-17 | PR034754.D | 18 Dec 2018 02:30 | SM\SJ | Not Ok |
| 50 | J6415-18 | PR034755.D | 18 Dec 2018 02:45 | SM\SJ | Not Ok |
| 51 | J6415-19 | PR034756.D | 18 Dec 2018 02:59 | SM\SJ | Not Ok |
| 52 | J6415-20 | PR034757.D | 18 Dec 2018 03:14 | SM\SJ | Not Ok |
| 53 | J6415-21 | PR034758.D | 18 Dec 2018 03:28 | SM\SJ | Not Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|--------|
| 54 | J6415-22 | PR034759.D | 18 Dec 2018 03:43 | SM\SJ | Not Ok |
| 55 | AIBLK84 | PR034760.D | 18 Dec 2018 03:57 | SM\SJ | Ok |
| 56 | AR1660CCC400 | PR034761.D | 18 Dec 2018 04:11 | SM\SJ | Ok |
| 57 | AR1242CCC400 | PR034762.D | 18 Dec 2018 04:26 | SM\SJ | Ok |
| 58 | AR1248CCC400 | PR034763.D | 18 Dec 2018 04:40 | SM\SJ | Ok |
| 59 | AR1254CCC400 | PR034764.D | 18 Dec 2018 04:55 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|--------------|----------------|-------------------|----------|----------|
| 1 | AIBLK95 | PR034952.D | 21 Dec 2018 08:41 | SM\SJ | Ok,M |
| 2 | AR1660CCC400 | PR034953.D | 21 Dec 2018 09:14 | SM\SJ | Ok |
| 3 | AR1242CCC400 | PR034954.D | 21 Dec 2018 09:28 | SM\SJ | Ok |
| 4 | AR1248CCC400 | PR034955.D | 21 Dec 2018 09:43 | SM\SJ | Ok |
| 5 | AR1254CCC400 | PR034956.D | 21 Dec 2018 09:57 | SM\SJ | Ok,M |
| 6 | PB115757BL | PR034957.D | 21 Dec 2018 10:12 | SM\SJ | Ok |
| 7 | PB115757BS | PR034958.D | 21 Dec 2018 10:26 | SM\SJ | Ok,M |
| 8 | J6432-01 | PR034959.D | 21 Dec 2018 10:41 | SM\SJ | Dilution |
| 9 | J6412-21 | PR034960.D | 21 Dec 2018 10:55 | SM\SJ | Not Ok |
| 10 | J6412-06DL | PR034961.D | 21 Dec 2018 11:10 | SM\SJ | Not Ok |
| 11 | J6412-06DL2 | PR034962.D | 21 Dec 2018 11:31 | SM\SJ | Ok,M |
| 12 | PB115873BL | PR034963.D | 21 Dec 2018 11:45 | SM\SJ | Ok |
| 13 | PB115873BS | PR034964.D | 21 Dec 2018 12:00 | SM\SJ | Ok |
| 14 | J6416-01 | PR034965.D | 21 Dec 2018 12:14 | SM\SJ | Ok,M |
| 15 | J6416-02 | PR034966.D | 21 Dec 2018 12:29 | SM\SJ | Ok |
| 16 | J6416-03 | PR034967.D | 21 Dec 2018 12:43 | SM\SJ | Ok,M |
| 17 | J6416-04MS | PR034968.D | 21 Dec 2018 12:58 | SM\SJ | Ok,M |
| 18 | J6416-05MSD | PR034969.D | 21 Dec 2018 13:12 | SM\SJ | Ok,M |
| 19 | J6432-02 | PR034970.D | 21 Dec 2018 13:27 | SM\SJ | Dilution |
| 20 | J6432-03MS | PR034971.D | 21 Dec 2018 13:41 | SM\SJ | Ok,M |
| 21 | J6432-04MSD | PR034972.D | 21 Dec 2018 13:56 | SM\SJ | Ok,M |
| 22 | J6432-05 | PR034973.D | 21 Dec 2018 14:10 | SM\SJ | Ok,M |
| 23 | PB115921BL | PR034974.D | 21 Dec 2018 14:25 | SM\SJ | Ok |
| 24 | PB115921BS | PR034975.D | 21 Dec 2018 14:39 | SM\SJ | Ok |
| 25 | J6510-04 | PR034976.D | 21 Dec 2018 14:54 | SM\SJ | Ok |
| 26 | J6416-03DL | PR034977.D | 21 Dec 2018 15:08 | SM\SJ | Ok |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Row | Sample Name | File Name | Time | Operator | Result |
|-----|--------------|------------|-------------------|----------|----------|
| 27 | AIBLK96 | PR034978.D | 21 Dec 2018 15:23 | SM\SJ | Ok |
| 28 | AR1660CCC400 | PR034979.D | 21 Dec 2018 15:54 | SM\SJ | Ok |
| 29 | AR1242CCC400 | PR034980.D | 21 Dec 2018 16:10 | SM\SJ | Ok |
| 30 | AR1248CCC400 | PR034981.D | 21 Dec 2018 17:02 | SM\SJ | Ok |
| 31 | AR1254CCC400 | PR034982.D | 21 Dec 2018 17:51 | SM\SJ | Ok,M |
| 32 | J6431-13 | PR034983.D | 21 Dec 2018 18:05 | SM\SJ | Not Ok |
| 33 | J6431-11DL | PR034984.D | 21 Dec 2018 18:20 | SM\SJ | Ok |
| 34 | J6431-10DL | PR034985.D | 21 Dec 2018 18:34 | SM\SJ | Dilution |
| 35 | J6431-10DL2 | PR034986.D | 21 Dec 2018 18:48 | SM\SJ | Ok,M |
| 36 | J6431-09DL | PR034987.D | 21 Dec 2018 19:03 | SM\SJ | Ok,M |
| 37 | J6431-06DL | PR034988.D | 21 Dec 2018 19:17 | SM\SJ | Dilution |
| 38 | J6431-06DL2 | PR034989.D | 21 Dec 2018 19:32 | SM\SJ | Ok |
| 39 | J6431-04DL | PR034990.D | 21 Dec 2018 19:46 | SM\SJ | Ok,M |
| 40 | J6431-01DL | PR034991.D | 21 Dec 2018 20:01 | SM\SJ | Dilution |
| 41 | J6431-01DL2 | PR034992.D | 21 Dec 2018 20:15 | SM\SJ | Ok,M |
| 42 | J6412-06DL | PR034993.D | 21 Dec 2018 20:30 | SM\SJ | Dilution |
| 43 | J6431-16 | PR034994.D | 21 Dec 2018 20:44 | SM\SJ | Ok |
| 44 | J6431-17DL | PR034995.D | 21 Dec 2018 20:59 | SM\SJ | Ok |
| 45 | J6431-15 | PR034996.D | 21 Dec 2018 21:13 | SM\SJ | Not Ok |
| 46 | AIBLK97 | PR034997.D | 21 Dec 2018 21:27 | SM\SJ | Ok |
| 47 | AR1660CCC400 | PR034998.D | 21 Dec 2018 21:42 | SM\SJ | Ok |
| 48 | AR1242CCC400 | PR034999.D | 21 Dec 2018 21:56 | SM\SJ | Ok |
| 49 | AR1248CCC400 | PR035000.D | 21 Dec 2018 22:11 | SM\SJ | Ok,M |
| 50 | AR1254CCC400 | PR035001.D | 21 Dec 2018 22:25 | SM\SJ | Ok,M |
| 51 | J6432-06 | PR035002.D | 21 Dec 2018 22:40 | SM\SJ | Ok,M |
| 52 | J6432-07 | PR035003.D | 21 Dec 2018 22:54 | SM\SJ | Dilution |
| 53 | J6432-08 | PR035004.D | 21 Dec 2018 23:09 | SM\SJ | Dilution |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample ID | File Name | Time | Operator | Result |
|-------|--------------|------------|-------------------|----------|----------|
| 54 | J6432-09 | PR035005.D | 21 Dec 2018 23:23 | SM\SJ | Dilution |
| 55 | J6432-10 | PR035006.D | 21 Dec 2018 23:37 | SM\SJ | Ok |
| 56 | J6432-11 | PR035007.D | 21 Dec 2018 23:52 | SM\SJ | Ok,M |
| 57 | J6432-12 | PR035008.D | 22 Dec 2018 00:06 | SM\SJ | Ok |
| 58 | J6432-13 | PR035009.D | 22 Dec 2018 00:21 | SM\SJ | Not Ok |
| 59 | J6432-14 | PR035010.D | 22 Dec 2018 00:35 | SM\SJ | Ok |
| 60 | J6432-15 | PR035011.D | 22 Dec 2018 00:50 | SM\SJ | Ok,M |
| 61 | J6432-16 | PR035012.D | 22 Dec 2018 01:04 | SM\SJ | Dilution |
| 62 | J6432-17 | PR035013.D | 22 Dec 2018 01:19 | SM\SJ | Ok,M |
| 63 | J6432-18 | PR035014.D | 22 Dec 2018 01:33 | SM\SJ | Ok |
| 64 | J6432-19 | PR035015.D | 22 Dec 2018 01:47 | SM\SJ | Dilution |
| 65 | AIBLK98 | PR035016.D | 22 Dec 2018 02:02 | SM\SJ | Ok |
| 66 | AR1660CCC400 | PR035017.D | 22 Dec 2018 02:16 | SM\SJ | Ok,M |
| 67 | AR1242CCC400 | PR035018.D | 22 Dec 2018 02:31 | SM\SJ | Ok |
| 68 | AR1248CCC400 | PR035019.D | 22 Dec 2018 02:45 | SM\SJ | Ok |
| 69 | AR1254CCC400 | PR035020.D | 22 Dec 2018 03:00 | SM\SJ | Ok,M |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Sr# | SampleID | Data File Name | Date-Time | Operator | Status |
|-----|--------------|----------------|-------------------|----------|----------|
| 1 | HEXANE | PR035049.D | 28 Dec 2018 02:29 | SM\SJ | Ok |
| 2 | AIBLK51 | PR035050.D | 28 Dec 2018 02:43 | SM\SJ | Ok,M |
| 3 | AR1660CCC400 | PR035051.D | 28 Dec 2018 03:03 | SM\SJ | Ok,NR |
| 4 | AR1248CCC400 | PR035052.D | 28 Dec 2018 03:17 | SM\SJ | Ok,M |
| 5 | AR1254CCC400 | PR035053.D | 28 Dec 2018 03:31 | SM\SJ | Not Ok |
| 6 | J6428-05 | PR035054.D | 28 Dec 2018 04:18 | SM\SJ | Dilution |
| 7 | J6428-06 | PR035055.D | 28 Dec 2018 04:32 | SM\SJ | Dilution |
| 8 | J6428-07 | PR035056.D | 28 Dec 2018 04:46 | SM\SJ | Dilution |
| 9 | J6428-10MSD | PR035057.D | 28 Dec 2018 05:01 | SM\SJ | Not Ok |
| 10 | J6428-11 | PR035058.D | 28 Dec 2018 05:15 | SM\SJ | Dilution |
| 11 | J6428-12 | PR035059.D | 28 Dec 2018 05:30 | SM\SJ | Dilution |
| 12 | J6428-13 | PR035060.D | 28 Dec 2018 05:44 | SM\SJ | Dilution |
| 13 | J6428-15 | PR035061.D | 28 Dec 2018 05:58 | SM\SJ | Dilution |
| 14 | J6428-16 | PR035062.D | 28 Dec 2018 06:13 | SM\SJ | Dilution |
| 15 | J6428-17 | PR035063.D | 28 Dec 2018 06:27 | SM\SJ | Not Ok |
| 16 | J6428-02DL | PR035064.D | 28 Dec 2018 06:42 | SM\SJ | Dilution |
| 17 | J6428-02DL2 | PR035065.D | 28 Dec 2018 06:56 | SM\SJ | Ok,M |
| 18 | J6428-03DL | PR035066.D | 28 Dec 2018 07:11 | SM\SJ | Not Ok |
| 19 | J6428-04DL | PR035067.D | 28 Dec 2018 07:25 | SM\SJ | Dilution |
| 20 | J6428-04DL2 | PR035068.D | 28 Dec 2018 07:40 | SM\SJ | Not Ok |
| 21 | AIBLK52 | PR035069.D | 28 Dec 2018 07:54 | SM\SJ | Ok |
| 22 | AR1660CCC400 | PR035070.D | 28 Dec 2018 08:11 | SM\SJ | Ok |
| 23 | AR1248CCC400 | PR035071.D | 28 Dec 2018 09:16 | SM\SJ | Ok |
| 24 | AR1254CCC400 | PR035072.D | 28 Dec 2018 09:47 | SM\SJ | Ok |
| 25 | J6428-17 | PR035073.D | 28 Dec 2018 10:02 | SM\SJ | Dilution |
| 26 | PB115740BL | PR035074.D | 28 Dec 2018 10:17 | SM\SJ | 488 |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | |
|----|--------------|------------|-------------------|-------|----------|
| 27 | PB115740BS | PR035075.D | 28 Dec 2018 10:31 | SM\SJ | Not Ok |
| 28 | J6428-17DL | PR035076.D | 28 Dec 2018 10:46 | SM\SJ | Dilution |
| 29 | J6428-17DL2 | PR035077.D | 28 Dec 2018 11:00 | SM\SJ | Ok,M |
| 30 | J6428-01 | PR035078.D | 28 Dec 2018 11:14 | SM\SJ | Ok |
| 31 | J6428-08 | PR035079.D | 28 Dec 2018 11:29 | SM\SJ | Dilution |
| 32 | J6428-09MS | PR035080.D | 28 Dec 2018 11:43 | SM\SJ | Ok |
| 33 | J6428-10MSD | PR035081.D | 28 Dec 2018 11:58 | SM\SJ | Ok |
| 34 | J6432-13 | PR035082.D | 28 Dec 2018 12:12 | SM\SJ | Ok,M |
| 35 | J6432-02DL | PR035083.D | 28 Dec 2018 12:27 | SM\SJ | Ok |
| 36 | J6432-13 | PR035084.D | 28 Dec 2018 12:41 | SM\SJ | Not Ok |
| 37 | J6432-09DL | PR035085.D | 28 Dec 2018 12:56 | SM\SJ | Ok |
| 38 | J6432-16DL | PR035086.D | 28 Dec 2018 13:10 | SM\SJ | Ok,M |
| 39 | J6432-19DL | PR035087.D | 28 Dec 2018 13:24 | SM\SJ | Ok,M |
| 40 | J6432-01DL | PR035088.D | 28 Dec 2018 13:39 | SM\SJ | Dilution |
| 41 | J6432-01DL2 | PR035089.D | 28 Dec 2018 13:53 | SM\SJ | Ok |
| 42 | J6432-07DL | PR035090.D | 28 Dec 2018 14:08 | SM\SJ | Dilution |
| 43 | J6432-07DL2 | PR035091.D | 28 Dec 2018 14:22 | SM\SJ | Ok,M |
| 44 | J6432-08DL | PR035092.D | 28 Dec 2018 14:37 | SM\SJ | Dilution |
| 45 | J6432-08DL2 | PR035093.D | 28 Dec 2018 14:51 | SM\SJ | Ok |
| 46 | AIBLK53 | PR035094.D | 28 Dec 2018 15:22 | SM\SJ | Ok |
| 47 | AR1660CCC400 | PR035095.D | 28 Dec 2018 16:09 | SM\SJ | Ok |
| 48 | AR1248CCC400 | PR035096.D | 28 Dec 2018 16:40 | SM\SJ | Ok |
| 49 | AR1254CCC400 | PR035097.D | 28 Dec 2018 17:10 | SM\SJ | Ok,M |
| 50 | J6428-14 | PR035098.D | 28 Dec 2018 17:25 | SM\SJ | Dilution |
| 51 | J6428-03 | PR035099.D | 28 Dec 2018 17:39 | SM\SJ | Ok,M |
| 52 | J6428-03DL | PR035100.D | 28 Dec 2018 17:54 | SM\SJ | Not Ok |
| 53 | J6428-02 | PR035101.D | 28 Dec 2018 18:08 | SM\SJ | Dilution |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | File Name | Time | Operator | Result |
|-------|--------------|------------|-------------------|----------|----------|
| 54 | J6428-04 | PR035102.D | 28 Dec 2018 18:22 | SM\SJ | Dilution |
| 55 | J6428-04DL2 | PR035103.D | 28 Dec 2018 18:37 | SM\SJ | Ok |
| 56 | J6428-05DL | PR035104.D | 28 Dec 2018 18:51 | SM\SJ | Dilution |
| 57 | J6428-05DL2 | PR035105.D | 28 Dec 2018 19:06 | SM\SJ | Ok,M |
| 58 | J6428-07DL | PR035106.D | 28 Dec 2018 19:20 | SM\SJ | Not Ok |
| 59 | J6428-07DL | PR035107.D | 28 Dec 2018 19:35 | SM\SJ | Ok |
| 60 | J6428-07DL2 | PR035108.D | 28 Dec 2018 19:49 | SM\SJ | Not Ok |
| 61 | J6428-08DL | PR035109.D | 28 Dec 2018 20:04 | SM\SJ | Dilution |
| 62 | J6428-08DL2 | PR035110.D | 28 Dec 2018 20:18 | SM\SJ | Ok,M |
| 63 | J6428-11DL | PR035111.D | 28 Dec 2018 20:32 | SM\SJ | Dilution |
| 64 | J6428-11DL2 | PR035112.D | 28 Dec 2018 20:47 | SM\SJ | Ok,M |
| 65 | J6428-11DL2 | PR035113.D | 28 Dec 2018 21:01 | SM\SJ | Not Ok |
| 66 | J6428-12DL | PR035114.D | 28 Dec 2018 21:16 | SM\SJ | Not Ok |
| 67 | J6428-12DL | PR035115.D | 28 Dec 2018 21:30 | SM\SJ | Not Ok |
| 68 | J6428-12DL2 | PR035116.D | 28 Dec 2018 21:45 | SM\SJ | Not Ok |
| 69 | J6428-13DL | PR035117.D | 28 Dec 2018 21:59 | SM\SJ | Ok,M |
| 70 | J6428-14DL | PR035118.D | 28 Dec 2018 22:13 | SM\SJ | Dilution |
| 71 | J6428-14DL2 | PR035119.D | 28 Dec 2018 22:28 | SM\SJ | Ok |
| 72 | J6428-15DL | PR035120.D | 28 Dec 2018 22:42 | SM\SJ | Dilution |
| 73 | J6428-15DL2 | PR035121.D | 28 Dec 2018 22:57 | SM\SJ | Ok,M |
| 74 | J6428-16DL | PR035122.D | 28 Dec 2018 23:11 | SM\SJ | Not Ok |
| 75 | J6428-16DL | PR035123.D | 28 Dec 2018 23:26 | SM\SJ | Ok,M |
| 76 | AIBLK54 | PR035124.D | 29 Dec 2018 00:09 | SM\SJ | Ok |
| 77 | AR1660CCC400 | PR035125.D | 29 Dec 2018 00:23 | SM\SJ | Ok |
| 78 | AR1248CCC400 | PR035126.D | 29 Dec 2018 00:38 | SM\SJ | Ok,M |
| 79 | AR1254CCC400 | PR035127.D | 29 Dec 2018 00:52 | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------|----------|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/I.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|---------------|-----------|----------------|-------------------|---------|----------|--------|
| 1 | AIBLK82 | AIBLK82 | PR034706.D | 17 Dec 2018 14:52 | | SM\SJ | Ok |
| 2 | AR1660ICC100 | AR1660101 | PR034707.D | 17 Dec 2018 15:11 | | SM\SJ | Ok |
| 3 | AR1660ICC200 | AR1660201 | PR034708.D | 17 Dec 2018 15:25 | | SM\SJ | Ok |
| 4 | AR1660ICC400 | AR1660301 | PR034709.D | 17 Dec 2018 15:40 | | SM\SJ | Ok |
| 5 | AR1660ICC800 | AR1660401 | PR034710.D | 17 Dec 2018 15:54 | | SM\SJ | Ok |
| 6 | AR1660ICC1600 | AR1660501 | PR034711.D | 17 Dec 2018 16:09 | | SM\SJ | Ok |
| 7 | AR1221ICC100 | AR1221101 | PR034712.D | 17 Dec 2018 16:23 | | SM\SJ | Ok |
| 8 | AR1232ICC100 | AR1232201 | PR034713.D | 17 Dec 2018 16:37 | | SM\SJ | Ok |
| 9 | AR1242ICC100 | AR1242101 | PR034714.D | 17 Dec 2018 16:52 | | SM\SJ | Ok |
| 10 | AR1242ICC200 | AR1242201 | PR034715.D | 17 Dec 2018 17:06 | | SM\SJ | Ok |
| 11 | AR1242ICC400 | AR1242301 | PR034716.D | 17 Dec 2018 17:21 | | SM\SJ | Ok |
| 12 | AR1242ICC800 | AR1242401 | PR034717.D | 17 Dec 2018 17:35 | | SM\SJ | Ok |
| 13 | AR1242ICC1600 | AR1242501 | PR034718.D | 17 Dec 2018 17:50 | | SM\SJ | Ok |
| 14 | AR1248ICC100 | AR1248101 | PR034719.D | 17 Dec 2018 18:04 | | SM\SJ | Ok |
| 15 | AR1248ICC200 | AR1248201 | PR034720.D | 17 Dec 2018 18:19 | | SM\SJ | Ok |
| 16 | AR1248ICC400 | AR1248301 | PR034721.D | 17 Dec 2018 18:33 | | SM\SJ | Ok |
| 17 | AR1248ICC800 | AR1248401 | PR034722.D | 17 Dec 2018 18:48 | | SM\SJ | Ok |
| 18 | AR1248ICC1600 | AR1248501 | PR034723.D | 17 Dec 2018 19:02 | | SM\SJ | Ok |
| 19 | AR1254ICC100 | AR1254101 | PR034724.D | 17 Dec 2018 19:16 | | SM\SJ | Ok |
| 20 | AR1254ICC200 | AR1254201 | PR034725.D | 17 Dec 2018 19:31 | | SM\SJ | Ok |
| 21 | AR1254ICC400 | AR1254301 | PR034726.D | 17 Dec 2018 19:45 | | SM\SJ | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | Std Ref # | File Name | Time | Result | Status |
|-------|---------------|-----------|------------|-------------------|--------|--------|
| 22 | AR1254ICC800 | AR1254401 | PR034727.D | 17 Dec 2018 20:00 | | Ok |
| 23 | AR1254ICC1600 | AR1254501 | PR034728.D | 17 Dec 2018 20:14 | | Ok |
| 24 | AR1262ICC100 | AR1262101 | PR034729.D | 17 Dec 2018 20:29 | | Ok |
| 25 | AR1268ICC100 | AR1268101 | PR034730.D | 17 Dec 2018 20:43 | | Ok |
| 26 | AIBLK83 | AIBLK83 | PR034731.D | 17 Dec 2018 20:58 | | Ok |
| 27 | AR1660CCC400 | AR1660316 | PR034732.D | 17 Dec 2018 21:12 | | Ok |
| 28 | AR1242CCC400 | AR1242316 | PR034733.D | 17 Dec 2018 21:27 | | Ok |
| 29 | AR1248CCC400 | AR1248316 | PR034734.D | 17 Dec 2018 21:41 | | Ok |
| 30 | AR1254CCC400 | AR1254316 | PR034735.D | 17 Dec 2018 21:56 | | Ok |
| 31 | PB115739BL | ABLK39 | PR034736.D | 17 Dec 2018 22:10 | | Ok |
| 32 | PB115739BS | ALCS39 | PR034737.D | 17 Dec 2018 22:25 | | Ok |
| 33 | J6415-01 | CB546 | PR034738.D | 17 Dec 2018 22:39 | | Not Ok |
| 34 | J6415-02 | CB547 | PR034739.D | 17 Dec 2018 22:53 | | Not Ok |
| 35 | J6415-03 | CB548 | PR034740.D | 17 Dec 2018 23:08 | | Not Ok |
| 36 | J6415-04 | CB549 | PR034741.D | 17 Dec 2018 23:22 | | Not Ok |
| 37 | J6415-05 | CB550 | PR034742.D | 17 Dec 2018 23:37 | | Not Ok |
| 38 | J6415-06 | CB551 | PR034743.D | 17 Dec 2018 23:51 | | Not Ok |
| 39 | J6415-07MS | CB551MS | PR034744.D | 18 Dec 2018 00:06 | | Not Ok |
| 40 | J6415-08MSD | CB551MSD | PR034745.D | 18 Dec 2018 00:20 | | Not Ok |
| 41 | J6415-09 | CB552 | PR034746.D | 18 Dec 2018 00:35 | | Not Ok |
| 42 | J6415-10 | CB553 | PR034747.D | 18 Dec 2018 00:49 | | Not Ok |
| 43 | J6415-11 | CB554 | PR034748.D | 18 Dec 2018 01:04 | | Not Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR121818

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | somina | Review On | 12/18/2018 1:48:32 PM |
| Supervise By | Sohil | Supervise On | 12/18/2018 4:39:51 PM |
| SubDirectory | PR121818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | Batch | Method | Time | Result | Status |
|-------|--------------|-----------|------------|-------------------|--------|--------|
| 44 | J6415-12 | CB555 | PR034749.D | 18 Dec 2018 01:18 | | Not Ok |
| 45 | J6415-13 | CB556 | PR034750.D | 18 Dec 2018 01:33 | | Not Ok |
| 46 | J6415-14 | CB557 | PR034751.D | 18 Dec 2018 01:47 | | Not Ok |
| 47 | J6415-15 | CB558 | PR034752.D | 18 Dec 2018 02:01 | | Not Ok |
| 48 | J6415-16 | CB559 | PR034753.D | 18 Dec 2018 02:16 | | Not Ok |
| 49 | J6415-17 | CB560 | PR034754.D | 18 Dec 2018 02:30 | | Not Ok |
| 50 | J6415-18 | CB561 | PR034755.D | 18 Dec 2018 02:45 | | Not Ok |
| 51 | J6415-19 | CB562 | PR034756.D | 18 Dec 2018 02:59 | | Not Ok |
| 52 | J6415-20 | CB563 | PR034757.D | 18 Dec 2018 03:14 | | Not Ok |
| 53 | J6415-21 | CB564 | PR034758.D | 18 Dec 2018 03:28 | | Not Ok |
| 54 | J6415-22 | CB568 | PR034759.D | 18 Dec 2018 03:43 | | Not Ok |
| 55 | AIBLK84 | AIBLK84 | PR034760.D | 18 Dec 2018 03:57 | | Ok |
| 56 | AR1660CCC400 | AR1660317 | PR034761.D | 18 Dec 2018 04:11 | | Ok |
| 57 | AR1242CCC400 | AR1242317 | PR034762.D | 18 Dec 2018 04:26 | | Ok |
| 58 | AR1248CCC400 | AR1248317 | PR034763.D | 18 Dec 2018 04:40 | | Ok |
| 59 | AR1254CCC400 | AR1254317 | PR034764.D | 18 Dec 2018 04:55 | | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------|----------|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/IL.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|--------------|-----------|----------------|-------------------|---|----------|----------|
| 1 | AIBLK95 | AIBLK95 | PR034952.D | 21 Dec 2018 08:41 | | SM\SJ | Ok,M |
| 2 | AR1660CCC400 | AR1660328 | PR034953.D | 21 Dec 2018 09:14 | | SM\SJ | Ok |
| 3 | AR1242CCC400 | AR1242328 | PR034954.D | 21 Dec 2018 09:28 | | SM\SJ | Ok |
| 4 | AR1248CCC400 | AR1248328 | PR034955.D | 21 Dec 2018 09:43 | | SM\SJ | Ok |
| 5 | AR1254CCC400 | AR1254328 | PR034956.D | 21 Dec 2018 09:57 | | SM\SJ | Ok,M |
| 6 | PB115757BL | ABLK57 | PR034957.D | 21 Dec 2018 10:12 | | SM\SJ | Ok |
| 7 | PB115757BS | ALCS57 | PR034958.D | 21 Dec 2018 10:26 | | SM\SJ | Ok,M |
| 8 | J6432-01 | A41T3 | PR034959.D | 21 Dec 2018 10:41 | AR1260 hit & Need 20x | SM\SJ | Dilution |
| 9 | J6412-21 | CB526 | PR034960.D | 21 Dec 2018 10:55 | AR1016+AR1260 hit & Already run | SM\SJ | Not Ok |
| 10 | J6412-06DL | CB513DL | PR034961.D | 21 Dec 2018 11:10 | AR1260 hits, need further dilution | SM\SJ | Not Ok |
| 11 | J6412-06DL2 | CB513DL2 | PR034962.D | 21 Dec 2018 11:31 | AR1260 hits | SM\SJ | Ok,M |
| 12 | PB115873BL | ABLK73 | PR034963.D | 21 Dec 2018 11:45 | | SM\SJ | Ok |
| 13 | PB115873BS | ALCS73 | PR034964.D | 21 Dec 2018 12:00 | | SM\SJ | Ok |
| 14 | J6416-01 | CB566 | PR034965.D | 21 Dec 2018 12:14 | AR1016+AR1260 hits | SM\SJ | Ok,M |
| 15 | J6416-02 | CB570 | PR034966.D | 21 Dec 2018 12:29 | AR1260 hits | SM\SJ | Ok |
| 16 | J6416-03 | CB569 | PR034967.D | 21 Dec 2018 12:43 | AR1260 hits | SM\SJ | Ok,M |
| 17 | J6416-04MS | CB569MS | PR034968.D | 21 Dec 2018 12:58 | Recovery failing high for AR1016 | SM\SJ | Ok,M |
| 18 | J6416-05MSD | CB569MSD | PR034969.D | 21 Dec 2018 13:12 | Recovery failing high for AR1016 and low for AR1260 | SM\SJ | Ok,M |
| 19 | J6432-02 | A41X0 | PR034970.D | 21 Dec 2018 13:27 | AR1260 Hit & Need 5x | SM\SJ | Dilution |
| 20 | J6432-03MS | A41X0MS | PR034971.D | 21 Dec 2018 13:41 | Recovery failing high for AR1016 and AR1260 | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | Std Name | File Name | Time | Notes | Result | Status |
|-------|--------------|-----------|------------|-------------------|---|--------|----------|
| 21 | J6432-04MSD | A41X0MSD | PR034972.D | 21 Dec 2018 13:56 | Recovery failing high for AR1016 and AR1260 | SM\SJ | Ok,M |
| 22 | J6432-05 | A41Y4 | PR034973.D | 21 Dec 2018 14:10 | AR1260 hits | SM\SJ | Ok,M |
| 23 | PB115921BL | ABLK21 | PR034974.D | 21 Dec 2018 14:25 | | SM\SJ | Ok |
| 24 | PB115921BS | ALCS21 | PR034975.D | 21 Dec 2018 14:39 | | SM\SJ | Ok |
| 25 | J6510-04 | BECF6 | PR034976.D | 21 Dec 2018 14:54 | | SM\SJ | Ok |
| 26 | J6416-03DL | CB569 | PR034977.D | 21 Dec 2018 15:08 | AR1260 hits & Not Requird | SM\SJ | Not Ok |
| 27 | AIBLK96 | AIBLK96 | PR034978.D | 21 Dec 2018 15:23 | | SM\SJ | Ok |
| 28 | AR1660CCC400 | AR1660329 | PR034979.D | 21 Dec 2018 15:54 | | SM\SJ | Ok |
| 29 | AR1242CCC400 | AR1242329 | PR034980.D | 21 Dec 2018 16:10 | | SM\SJ | Ok |
| 30 | AR1248CCC400 | AR1248329 | PR034981.D | 21 Dec 2018 17:02 | | SM\SJ | Ok |
| 31 | AR1254CCC400 | AR1254329 | PR034982.D | 21 Dec 2018 17:51 | | SM\SJ | Ok,M |
| 32 | J6431-13 | A41X9 | PR034983.D | 21 Dec 2018 18:05 | AR1242,AR1260 & Already run | SM\SJ | Not Ok |
| 33 | J6431-11DL | A41X7DL | PR034984.D | 21 Dec 2018 18:20 | AR1260 hits, | SM\SJ | Ok |
| 34 | J6431-10DL | A41X6DL | PR034985.D | 21 Dec 2018 18:34 | AR1248 & AR1260 hits & Need more dilution | SM\SJ | Dilution |
| 35 | J6431-10DL2 | A41X6DL2 | PR034986.D | 21 Dec 2018 18:48 | AR1248+AR1260 hit | SM\SJ | Ok,M |
| 36 | J6431-09DL | A41X5DL | PR034987.D | 21 Dec 2018 19:03 | AR1254 & AR1260 hits, | SM\SJ | Ok,M |
| 37 | J6431-06DL | A41X2DL | PR034988.D | 21 Dec 2018 19:17 | AR1260 hits & Need more dilution | SM\SJ | Dilution |
| 38 | J6431-06DL2 | A41X2DL2 | PR034989.D | 21 Dec 2018 19:32 | AR1260 hits | SM\SJ | Ok |
| 39 | J6431-04DL | A41W4DL | PR034990.D | 21 Dec 2018 19:46 | AR1260 hits | SM\SJ | Ok,M |
| 40 | J6431-01DL | A41T6DL | PR034991.D | 21 Dec 2018 20:01 | AR1248, AR1254 & AR1260 hits & Need more dilution | SM\SJ | Dilution |
| | | | | | | | |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | | | | | |
|--------------------------|---|-------------------|-----------------------|-------------------|---|-------|----------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM | | | | |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM | | | | |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method | | | | |
| STD. NAME | STD REF.# | | | | | | |
| Tune/Reschk | na | | | | | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | | | | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | | | | | |
| Internal Standard/PEM | na | | | | | | |
| ICV/I.BLK | | | | | | | |
| 41 | J6431-01DL2 | A41T6DL2 | PR034992.D | 21 Dec 2018 20:15 | AR1248, AR1254 & AR1260 hits & DCB high 1st col and TCMX high 2nd col | SM\SJ | Ok,M |
| 42 | J6412-06DL | CB513DL | PR034993.D | 21 Dec 2018 20:30 | AR1260 hits,need further dilution | SM\SJ | Dilution |
| 43 | J6431-16 | A41Y2 | PR034994.D | 21 Dec 2018 20:44 | AR1260 hits | SM\SJ | Ok |
| 44 | J6431-17DL | A41Y3DL | PR034995.D | 21 Dec 2018 20:59 | AR1260 hits | SM\SJ | Ok |
| 45 | J6431-15 | A41Y1 | PR034996.D | 21 Dec 2018 21:13 | | SM\SJ | Not Ok |
| 46 | AIBLK97 | AIBLK97 | PR034997.D | 21 Dec 2018 21:27 | | SM\SJ | Ok |
| 47 | AR1660CCC400 | AR1660330 | PR034998.D | 21 Dec 2018 21:42 | | SM\SJ | Ok |
| 48 | AR1242CCC400 | AR1242330 | PR034999.D | 21 Dec 2018 21:56 | CCC Passing for closing but failing for Opening | SM\SJ | Ok |
| 49 | AR1248CCC400 | AR1248330 | PR035000.D | 21 Dec 2018 22:11 | | SM\SJ | Ok,M |
| 50 | AR1254CCC400 | AR1254330 | PR035001.D | 21 Dec 2018 22:25 | CCC Passing for closing but failing for Opening | SM\SJ | Ok,M |
| 51 | J6432-06 | A41Y5 | PR035002.D | 21 Dec 2018 22:40 | AR1260 hit | SM\SJ | Ok,M |
| 52 | J6432-07 | A41Y6 | PR035003.D | 21 Dec 2018 22:54 | AR1260 hit & Need 20x | SM\SJ | Dilution |
| 53 | J6432-08 | A41Y7 | PR035004.D | 21 Dec 2018 23:09 | AR1260 hit & Need 40x | SM\SJ | Dilution |
| 54 | J6432-09 | A41Y8 | PR035005.D | 21 Dec 2018 23:23 | AR1260 hit & Need 5x | SM\SJ | Dilution |
| 55 | J6432-10 | A41Y9 | PR035006.D | 21 Dec 2018 23:37 | | SM\SJ | Ok |
| 56 | J6432-11 | A41Z0 | PR035007.D | 21 Dec 2018 23:52 | AR1260 hit | SM\SJ | Ok,M |
| 57 | J6432-12 | A41Z1 | PR035008.D | 22 Dec 2018 00:06 | | SM\SJ | Ok |
| 58 | J6432-13 | A41Z2 | PR035009.D | 22 Dec 2018 00:21 | AR1254+AR1260 hit & Opening CCC fail | SM\SJ | Not Ok |
| 59 | J6432-14 | A41Z5 | PR035010.D | 22 Dec 2018 00:35 | AR1260 hit | SM\SJ | Ok |
| 60 | J6432-15 | A41Z6 | PR035011.D | 22 Dec 2018 00:50 | AR1260 hit | SM\SJ | Ok,M |
| 61 | J6432-16 | A41Z7 | PR035012.D | 22 Dec 2018 01:04 | AR1248+AR1260 hit & Need 5x | SM\SJ | Dilution |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122218

| | | | |
|--------------------------|---|-------------------|-----------------------|
| Review By | SOMINA | Review On | 12/26/2018 8:20:15 AM |
| Supervise By | Sohil | Supervise On | 12/26/2018 8:21:31 AM |
| SubDirectory | PR122218 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| | | | | | | | |
|----|--------------|-----------|------------|-------------------|----------------------|-------|----------|
| 62 | J6432-17 | A41Z8 | PR035013.D | 22 Dec 2018 01:19 | AR1260 hit | SM\SJ | Ok,M |
| 63 | J6432-18 | A41Z9 | PR035014.D | 22 Dec 2018 01:33 | AR1260 hit | SM\SJ | Ok |
| 64 | J6432-19 | A4200 | PR035015.D | 22 Dec 2018 01:47 | AR1260 hit & Need 5X | SM\SJ | Dilution |
| 65 | AIBLK98 | AIBLK98 | PR035016.D | 22 Dec 2018 02:02 | | SM\SJ | Ok |
| 66 | AR1660CCC400 | AR1660331 | PR035017.D | 22 Dec 2018 02:16 | | SM\SJ | Ok,M |
| 67 | AR1242CCC400 | AR1242331 | PR035018.D | 22 Dec 2018 02:31 | | SM\SJ | Ok |
| 68 | AR1248CCC400 | AR1248331 | PR035019.D | 22 Dec 2018 02:45 | | SM\SJ | Ok |
| 69 | AR1254CCC400 | AR1254331 | PR035020.D | 22 Dec 2018 03:00 | | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------|----------|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/IL.BLK | |

| Sr# | SampleID | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|-----|--------------|-----------|----------------|-------------------|---------------------------------|----------|----------|
| 1 | HEXANE | HEXANE | PR035049.D | 28 Dec 2018 02:29 | | SM\SJ | Ok |
| 2 | AIBLK51 | AIBLK51 | PR035050.D | 28 Dec 2018 02:43 | | SM\SJ | Ok,M |
| 3 | AR1660CCC400 | AR1660334 | PR035051.D | 28 Dec 2018 03:03 | | SM\SJ | Ok,NR |
| 4 | AR1248CCC400 | AR1248334 | PR035052.D | 28 Dec 2018 03:17 | | SM\SJ | Ok,M |
| 5 | AR1254CCC400 | AR1254334 | PR035053.D | 28 Dec 2018 03:31 | failing high | SM\SJ | Not Ok |
| 6 | J6428-05 | A41T9 | PR035054.D | 28 Dec 2018 04:18 | AR1248 & AR1260 hits, need 10X | SM\SJ | Dilution |
| 7 | J6428-06 | A41W0 | PR035055.D | 28 Dec 2018 04:32 | AR1260 hits, need 5X | SM\SJ | Dilution |
| 8 | J6428-07 | A41W1 | PR035056.D | 28 Dec 2018 04:46 | AR1260 hits, need 10X | SM\SJ | Dilution |
| 9 | J6428-10MSD | A41W2MSD | PR035057.D | 28 Dec 2018 05:01 | need MS | SM\SJ | Not Ok |
| 10 | J6428-11 | A41W3 | PR035058.D | 28 Dec 2018 05:15 | AR1248 & AR1260 hits, need 5X | SM\SJ | Dilution |
| 11 | J6428-12 | A41W5 | PR035059.D | 28 Dec 2018 05:30 | AR1260 hits | SM\SJ | Dilution |
| 12 | J6428-13 | A41W6 | PR035060.D | 28 Dec 2018 05:44 | AR1260 hits, need 2X | SM\SJ | Dilution |
| 13 | J6428-15 | A41W8 | PR035061.D | 28 Dec 2018 05:58 | AR1248&AR1260 hits, need 10X | SM\SJ | Dilution |
| 14 | J6428-16 | A41W9 | PR035062.D | 28 Dec 2018 06:13 | AR1248 & AR1260 hits, need 5X | SM\SJ | Dilution |
| 15 | J6428-17 | A41Z3 | PR035063.D | 28 Dec 2018 06:27 | AR1254 & AR1260 hits,need 20X | SM\SJ | Not Ok |
| 16 | J6428-02DL | A41T5 | PR035064.D | 28 Dec 2018 06:42 | AR1248 & AR1260 hits, need 50X | SM\SJ | Dilution |
| 17 | J6428-02DL2 | A41T5 | PR035065.D | 28 Dec 2018 06:56 | AR1248 & AR1260 hits | SM\SJ | Ok,M |
| 18 | J6428-03DL | A41T7 | PR035066.D | 28 Dec 2018 07:11 | AR1248 & AR1260 hits, | SM\SJ | Not Ok |
| 19 | J6428-04DL | A41T8 | PR035067.D | 28 Dec 2018 07:25 | AR1248 & AR1260 hits, need 200X | SM\SJ | Dilution |
| | | | | | | | |

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | | | | | |
|--------------------------|---|-------------------|------------------------|-------------------|---|-------|----------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM | | | | |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM | | | | |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method | | | | |
| STD. NAME | STD REF.# | | | | | | |
| Tune/Reschk | na | | | | | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | | | | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | | | | | |
| Internal Standard/PEM | na | | | | | | |
| ICV/I.BLK | | | | | | | |
| 20 | J6428-04DL2 | A41T8 | PR035068.D | 28 Dec 2018 07:40 | AR1248 & AR1260 hits, need further dilution | SM\SJ | Not Ok |
| 21 | AIBLK52 | AIBLK52 | PR035069.D | 28 Dec 2018 07:54 | | SM\SJ | Ok |
| 22 | AR1660CCC400 | AR1660335 | PR035070.D | 28 Dec 2018 08:11 | | SM\SJ | Ok |
| 23 | AR1248CCC400 | AR1248335 | PR035071.D | 28 Dec 2018 09:16 | | SM\SJ | Ok |
| 24 | AR1254CCC400 | AR1254335 | PR035072.D | 28 Dec 2018 09:47 | | SM\SJ | Ok |
| 25 | J6428-17 | A41Z3 | PR035073.D | 28 Dec 2018 10:02 | AR1254 & AR1260 hits, need 2X | SM\SJ | Dilution |
| 26 | PB115740BL | ABLK40 | PR035074.D | 28 Dec 2018 10:17 | | SM\SJ | Ok |
| 27 | PB115740BS | ALCS40 | PR035075.D | 28 Dec 2018 10:31 | Recovery fail for AR1016. | SM\SJ | Not Ok |
| 28 | J6428-17DL | A41Z3 | PR035076.D | 28 Dec 2018 10:46 | AR1254 & AR1260 hits, need further dilution | SM\SJ | Dilution |
| 29 | J6428-17DL2 | A41Z3 | PR035077.D | 28 Dec 2018 11:00 | | SM\SJ | Ok,M |
| 30 | J6428-01 | A41T4 | PR035078.D | 28 Dec 2018 11:14 | | SM\SJ | Ok |
| 31 | J6428-08 | A41W2 | PR035079.D | 28 Dec 2018 11:29 | AR1260 hits, need 5X | SM\SJ | Dilution |
| 32 | J6428-09MS | A41W2MS | PR035080.D | 28 Dec 2018 11:43 | | SM\SJ | Ok |
| 33 | J6428-10MSD | A41W2MSD | PR035081.D | 28 Dec 2018 11:58 | | SM\SJ | Ok |
| 34 | J6432-13 | A41Z2 | PR035082.D | 28 Dec 2018 12:12 | AR1254 & AR1260 hits, | SM\SJ | Ok,M |
| 35 | J6432-02DL | A41X0DL | PR035083.D | 28 Dec 2018 12:27 | AR1260 Hit | SM\SJ | Ok |
| 36 | J6432-13 | A41Z2 | PR035084.D | 28 Dec 2018 12:41 | | SM\SJ | Not Ok |
| 37 | J6432-09DL | A41Y8DL | PR035085.D | 28 Dec 2018 12:56 | AR1260 hit | SM\SJ | Ok |
| 38 | J6432-16DL | A41Z7DL | PR035086.D | 28 Dec 2018 13:10 | AR1248+AR1260 hit | SM\SJ | Ok,M |
| 39 | J6432-19DL | A4200DL | PR035087.D | 28 Dec 2018 13:24 | AR1260 hit | SM\SJ | Ok,M |
| 40 | J6432-01DL | A41T3DL | PR035088.D | 28 Dec 2018 13:39 | AR1260 hit & Need further dilution | SM\SJ | Dilution |
| 41 | J6432-01DL2 | A41T3DL2 | PR035089.D | 28 Dec 2018 13:53 | AR1260 hit | SM\SJ | Ok |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------------------|---|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |
| STD. NAME | STD REF.# | | |
| Tune/Reschk | na | | |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 | | |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 | | |
| Internal Standard/PEM | na | | |
| ICV/I.BLK | | | |

| Run # | Sample Name | Std Name | File Name | Time | Notes | Result | QC |
|-------|--------------|-----------|------------|-------------------|---------------------------------|--------|----------|
| 42 | J6432-07DL | A41Y6DL | PR035090.D | 28 Dec 2018 14:08 | AR1260 hit & Need 20x | SM\SJ | Dilution |
| 43 | J6432-07DL2 | A41Y6DL2 | PR035091.D | 28 Dec 2018 14:22 | AR1260 hit | SM\SJ | Ok,M |
| 44 | J6432-08DL | A41Y7DL | PR035092.D | 28 Dec 2018 14:37 | AR1260 hit & Need 40x | SM\SJ | Dilution |
| 45 | J6432-08DL2 | A41Y7DL2 | PR035093.D | 28 Dec 2018 14:51 | AR1260 hit | SM\SJ | Ok |
| 46 | AIBLK53 | AIBLK53 | PR035094.D | 28 Dec 2018 15:22 | | SM\SJ | Ok |
| 47 | AR1660CCC400 | AR1660336 | PR035095.D | 28 Dec 2018 16:09 | | SM\SJ | Ok |
| 48 | AR1248CCC400 | AR1248336 | PR035096.D | 28 Dec 2018 16:40 | | SM\SJ | Ok |
| 49 | AR1254CCC400 | AR1254336 | PR035097.D | 28 Dec 2018 17:10 | | SM\SJ | Ok,M |
| 50 | J6428-14 | A41W7 | PR035098.D | 28 Dec 2018 17:25 | AR1260 hits, need 50X | SM\SJ | Dilution |
| 51 | J6428-03 | A41T7 | PR035099.D | 28 Dec 2018 17:39 | AR1260 AR1248 | SM\SJ | Ok,M |
| 52 | J6428-03DL | A41T7DL | PR035100.D | 28 Dec 2018 17:54 | not require | SM\SJ | Not Ok |
| 53 | J6428-02 | A41T5 | PR035101.D | 28 Dec 2018 18:08 | AR1248 & AR1260 hits, need 50X | SM\SJ | Dilution |
| 54 | J6428-04 | A41T8 | PR035102.D | 28 Dec 2018 18:22 | AR1248 & AR1260 hits, need 10X | SM\SJ | Dilution |
| 55 | J6428-04DL2 | A41T8DL2 | PR035103.D | 28 Dec 2018 18:37 | | SM\SJ | Ok |
| 56 | J6428-05DL | A41T9DL | PR035104.D | 28 Dec 2018 18:51 | AR1248 & AR1260 hits, need 100X | SM\SJ | Dilution |
| 57 | J6428-05DL2 | A41T9DL2 | PR035105.D | 28 Dec 2018 19:06 | | SM\SJ | Ok,M |
| 58 | J6428-07DL | A41W1DL | PR035106.D | 28 Dec 2018 19:20 | | SM\SJ | Not Ok |
| 59 | J6428-07DL | A41W1DL | PR035107.D | 28 Dec 2018 19:35 | AR1260 hits | SM\SJ | Ok |
| 60 | J6428-07DL2 | A41W1DL2 | PR035108.D | 28 Dec 2018 19:49 | | SM\SJ | Not Ok |
| 61 | J6428-08DL | A41W2DL | PR035109.D | 28 Dec 2018 20:04 | AR1260 hits, need 50X | SM\SJ | Dilution |
| 62 | J6428-08DL2 | A41W2DL2 | PR035110.D | 28 Dec 2018 20:18 | | SM\SJ | Ok,M |

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QC Batch ID # PR122818

| | | | |
|--------------|----------|-------------------|------------------------|
| Review By | somina | Review On | 12/29/2018 8:26:41 AM |
| Supervise By | Sohil | Supervise On | 12/29/2018 12:19:26 PM |
| SubDirectory | PR122818 | HP Acquire Method | HP Processing Method |

| STD. NAME | STD REF.# |
|--------------------------|---|
| Tune/Reschk | na |
| Initial Calibration Stds | pp14395,pp14396,pp14397,pp14398,pp14399,pp14051,pp14064,pp14065,pp14066,pp14067,pp14394,pp14400,pp14401,pp14402 |
| CCC | PP14054,PP14076,PP14077,PP14078,PP14079,PP14055,PP14080,PP14081,PP14082,PP14083,PP14087,PP14091 |
| Internal Standard/PEM | na |
| ICV/I.BLK | |

| Row | Sample ID | Standard | File | Time | Notes | Result | Remarks |
|-----|--------------|-----------|------------|-------------------|---|--------|----------|
| 63 | J6428-11DL | A41W3DL | PR035111.D | 28 Dec 2018 20:32 | AR1248 & AR1260 hits, need further dilution | SM\SJ | Dilution |
| 64 | J6428-11DL2 | A41W3DL2 | PR035112.D | 28 Dec 2018 20:47 | | SM\SJ | Ok,M |
| 65 | J6428-11DL2 | A41W3DL2 | PR035113.D | 28 Dec 2018 21:01 | | SM\SJ | Not Ok |
| 66 | J6428-12DL | A41W5DL | PR035114.D | 28 Dec 2018 21:16 | need further dilution. all surrogate high | SM\SJ | Not Ok |
| 67 | J6428-12DL | A41W5DL | PR035115.D | 28 Dec 2018 21:30 | need further dilution | SM\SJ | Not Ok |
| 68 | J6428-12DL2 | A41W5DL2 | PR035116.D | 28 Dec 2018 21:45 | need further dilution | SM\SJ | Not Ok |
| 69 | J6428-13DL | A41W6DL | PR035117.D | 28 Dec 2018 21:59 | AR1260 hits | SM\SJ | Ok,M |
| 70 | J6428-14DL | A41W7DL | PR035118.D | 28 Dec 2018 22:13 | AR1260 hits, need 50X | SM\SJ | Dilution |
| 71 | J6428-14DL2 | A41W7DL2 | PR035119.D | 28 Dec 2018 22:28 | | SM\SJ | Ok |
| 72 | J6428-15DL | A41W8DL | PR035120.D | 28 Dec 2018 22:42 | AR1248&AR1260 hits, need 50X | SM\SJ | Dilution |
| 73 | J6428-15DL2 | A41W8DL2 | PR035121.D | 28 Dec 2018 22:57 | AR1248&AR1260 hits | SM\SJ | Ok,M |
| 74 | J6428-16DL | A41W9DL | PR035122.D | 28 Dec 2018 23:11 | | SM\SJ | Not Ok |
| 75 | J6428-16DL | A41W9DL | PR035123.D | 28 Dec 2018 23:26 | AR1248 & AR1260 hits, check hit | SM\SJ | Ok,M |
| 76 | AIBLK54 | AIBLK54 | PR035124.D | 29 Dec 2018 00:09 | | SM\SJ | Ok |
| 77 | AR1660CCC400 | AR1660337 | PR035125.D | 29 Dec 2018 00:23 | | SM\SJ | Ok |
| 78 | AR1248CCC400 | AR1248337 | PR035126.D | 29 Dec 2018 00:38 | | SM\SJ | Ok,M |
| 79 | AR1254CCC400 | AR1254337 | PR035127.D | 29 Dec 2018 00:52 | | SM\SJ | Ok,M |

Login Summary Report

| | | | | | |
|-----------------|-----------------------|----------------|-----------------------|---------------|-----------|
| Order ID : | J6432 | Order Date : | 12/14/2018 1:00:00 PM | Project Mgr : | Deepak |
| Client : | USEPA CLP Organics | Project : | 48033 | Report Type : | USEPA CLP |
| Contact : | Anita Kapadia | Receive Date : | 12/14/2018 1:00:00 PM | EDD Type : | EPA CLP |
| Date Sign Off : | 12/15/2018 8:06:58 AM | | | | |

| Sample ID | Client ID | Matrix | Sampling Date | Test | Test Group | Method | TAT Days | Fax Due Date | HC Due Date |
|-----------|-----------|--------|---------------|----------------|------------|---------------|----------|--------------|-------------|
| J6432-01 | A41T3 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-02 | A41X0 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-03 | A41X0MS | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-04 | A41X0MSD | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-05 | A41Y4 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-06 | A41Y5 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-07 | A41Y6 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-08 | A41Y7 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-09 | A41Y8 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-10 | A41Y9 | Solid | 12/12/2018 | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |

| | | | | | | | | | |
|----------|-------|-------|------------|----------------|----|---------------|----|------------|------------|
| J6432-11 | A41Z0 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-12 | A41Z1 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-13 | A41Z2 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-14 | A41Z5 | Solid | 12/12/2018 | | PE | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-15 | A41Z6 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-16 | A41Z7 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-17 | A41Z8 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-18 | A41Z9 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |
| J6432-19 | A4200 | Solid | 12/12/2018 | | | | | | |
| | | | | PCB | | SOM02.4_PCB | 15 | 01/04/2019 | 01/04/2019 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/04/2019 | 01/04/2019 |

01-01
101-51

WORKLIST(Hardcopy Internal Chain)

WorkList Name : J6432 WorkList ID : 120451 Date : 12/17/2018 7:56:28 AM

| Due Date | Matrix | Sample | Test | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method |
|------------|--------|----------|------|--------------|----------|------------------|-----------------|--------------|-------------|
| 12/26/2018 | Solid | J6432-01 | PCB | Cool 4 deg C | USEP04 | A13 | A41T3 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-02 | PCB | Cool 4 deg C | USEP04 | A13 | A41X0 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-03 | PCB | Cool 4 deg C | USEP04 | A13 | A41X0MS | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-04 | PCB | Cool 4 deg C | USEP04 | A13 | A41X0MSD | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-05 | PCB | Cool 4 deg C | USEP04 | A13 | A41Y4 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-06 | PCB | Cool 4 deg C | USEP04 | A13 | A41Y5 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-07 | PCB | Cool 4 deg C | USEP04 | A13 | A41Y6 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-08 | PCB | Cool 4 deg C | USEP04 | A13 | A41Y7 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-09 | PCB | Cool 4 deg C | USEP04 | A13 | A41Y8 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-10 | PCB | Cool 4 deg C | USEP04 | A13 | A41Y9 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-11 | PCB | Cool 4 deg C | USEP04 | A13 | A41Z0 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-12 | PCB | Cool 4 deg C | USEP04 | A13 | A41Z1 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-13 | PCB | Cool 4 deg C | USEP04 | A13 | A41Z2 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-14 | PCB | Cool 4 deg C | USEP04 | A13 | A41Z5 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-15 | PCB | Cool 4 deg C | USEP04 | A13 | A41Z6 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-16 | PCB | Cool 4 deg C | USEP04 | A13 | A41Z7 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-17 | PCB | Cool 4 deg C | USEP04 | A13 | A41Z8 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-18 | PCB | Cool 4 deg C | USEP04 | A13 | A41Z9 | 12/12/2018 | SOM02.4_PCB |
| 12/26/2018 | Solid | J6432-19 | PCB | Cool 4 deg C | USEP04 | A13 | A4200 | 12/12/2018 | SOM02.4_PCB |

504

Date/Time 12/17/18 10:30
 Received by: CP
 Relinquished by: RJ

Date/Time 12/17/18 10:00
 Received by: RJ
 Relinquished by: CP



~~ASTM~~
AS1867

Instructions for QATS Catalog Numbers: 04-005 06-001
06-002 06-005
06-006 SR-PES
Aroclors in Soil

QATS LABORATORY INSTRUCTIONS FOR AROCLORS IN SOIL
PERFORMANCE EVALUATION SAMPLES

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions, or other appropriate methods.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Acetone and Dichloromethane
FLAMMABLE LIQUID
POISON

Contains Trace Organics
Safety Data Sheets
Available Upon Request

(A) SAMPLE DESCRIPTION

Enclosed is a set of Aroclors in Soil Performance Evaluation Samples (PESs). This set consists of one (1) or more bottles, each containing 40 grams of soil. Check the chain-of-custody record for descriptions and number of bottles of soil provided for Aroclors in soil analysis. The bottle(s) should not be opened until sample preparation or analysis is to occur.

CAUTION: The bottle(s) could contain compounds that are light sensitive and should be protected from light during storage. Store the sample(s) at 4° C ± 2° C for up to ten (10) days.

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120





(C) ANALYSIS REQUIREMENTS

Samples generated from the bottle(s) are to be analyzed in accordance with the SOW, other appropriate method, or your contract. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the SOW, other appropriate method, or your contract, disregard these instructions.

(D) GENERATION OF SAMPLES FROM BOTTLE(S) FOR ANALYSIS

General Instructions

The instructions provided below are intended as an aid in preparing samples for analysis. Perform the analysis as per the SOW, other appropriate method, or your contract. The sample container does not contain sufficient material to perform duplicate analyses.

Instructions for Aroclors in Soil Analysis

The sample contains chemicals which are known or suspected to have severe health effects. Employing appropriate safety precautions, this sample is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The sample should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials.

The following steps should be performed rapidly after opening the container. Do not perform a pH determination on the sample. When calculating the concentrations of analytes, use 0% as the soil moisture content.

To prepare the Aroclors in soil sample for analysis, weigh out an appropriate aliquot of soil, as specified in the SOW (30 grams), other appropriate method, or your contract, and record the exact weight. Do not weigh out additional soil for moisture determination. Proceed immediately with the extraction and analysis as described in the SOW, other appropriate method, or your contract.

(E) REPORTING

Report the results for the soil sample(s) prepared as directed above.

Report format and other instructions for submission of data packages containing these analysis results are included in the SOW, other appropriate method, or your contract.