

## Cover Page

**Order ID :** Q3179

**Project ID :** RFP 916

**Client :** Weston Solutions, Inc.

**Lab Sample Number**

Q3179-01  
Q3179-02  
Q3179-03

**Client Sample Number**

EME-TS14-01  
EME-TS14-01MS  
EME-TS14-01MSD

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

Signature : \_\_\_\_\_

Date: 10/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

## **CASE NARRATIVE**

**Weston Solutions, Inc.**  
**Project Name: RFP 916**  
**Project # N/A**  
**Order ID # Q3179**  
**Test Name: EPH**

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

3 Solid samples were received on 09/23/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: EPH. This data package contains results for EPH.

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

The analysis were performed on instrument FID\_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224. The analysis were performed on instrument FID\_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302. The analysis of EPHs was based on method NJEPH and extraction was done based on method 3541.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.  
The Surrogate recoveries were met for all analysis.  
The Retention Times were met for all analysis.  
The MS recoveries met the requirements for all compounds.  
The MSD recoveries met the requirements for all compounds.  
The RPD were met for all analysis.  
The Blank Spike met requirements for all compounds.  
The Blank analysis did not indicate the presence of lab contamination.  
The Initial Calibration met the requirements.  
The Continuous Calibration met the requirements.

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

### **F. Calculation for Concentration in Water Samples:**

$$C \text{ (ug/L)} = \frac{(A) (D) (Ve)}{CF (Vs)}$$

Where:

C = Concentration of each compound or hydrocarbon range, ug/L

A = Area response of each compound or carbon range to be measured



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D = Dilution Factor

Vs = Volume of sample extracted, mL

Ve = Final volume of extract, uL

CF = Calibration factor of each compound or carbon range for each fraction

**G. Manual Integration Comments:**

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

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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\_\_\_\_\_

## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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





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

ORDER ID: Q3179

MATRIX: Solid

METHOD: NJEPH/3541

|                                                                                                                                                                                                                                                                                                                                                                                                               | NA | NO | YES |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. Chromatograms Labeled/Compounds Identified.                                                                                                                                                                                                                                                                                                                                                                |    |    | ✓   |
| 2. Standard Summary Submitted.                                                                                                                                                                                                                                                                                                                                                                                |    |    | ✓   |
| 3. Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD.<br><br>The Initial Calibration met the requirements.<br><br>The Continuous Calibration met the requirements                                                                                                     |    |    | ✓   |
| 4. Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                                                                                                                                                                                                             |    | ✓  |     |
| 5. Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable ranges.                                                                                                                                                                                                                                                                  |    |    | ✓   |
| 6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable range.<br><br>The MS recoveries met the requirements for all compounds.<br><br>The MSD recoveries met the requirements for all compounds.<br><br>The Blank Spike met requirements for all compounds.<br><br>The RPD were met for all analysis. |    | ✓  |     |
| 7. Retention Time Shift Meet Criteria (if applicable)<br><br>Comments:                                                                                                                                                                                                                                                                                                                                        |    |    | ✓   |
| 8. Extraction Holding Time Met<br><br>If not met, list number of days exceeded for each sample:                                                                                                                                                                                                                                                                                                               |    |    | ✓   |



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

|                                                                                                | NA | NO | YES |
|------------------------------------------------------------------------------------------------|----|----|-----|
| 9. Analysis Holding Time Met                                                                   |    |    | ✓   |
| If not met, list those compounds and their recoveries which fall outside the acceptable range. |    |    |     |

ADDITIONAL COMMENTS:

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

\_\_\_\_\_  
Date

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q3179

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/03/2025



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## LAB CHRONICLE

|                 |                        |                   |                       |
|-----------------|------------------------|-------------------|-----------------------|
| <b>OrderID:</b> | Q3179                  | <b>OrderDate:</b> | 9/24/2025 11:08:00 AM |
| <b>Client:</b>  | Weston Solutions, Inc. | <b>Project:</b>   | RFP 916               |
| <b>Contact:</b> | Smita Sumbaly          | <b>Location:</b>  | J42                   |

| LabID           | ClientID           | Matrix       | Test           | Method | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|--------------------|--------------|----------------|--------|-----------------|-----------|-----------|-----------------|
| <b>Q3179-01</b> | <b>EME-TS14-01</b> | <b>Water</b> |                |        | <b>09/23/25</b> |           |           | <b>09/23/25</b> |
|                 |                    |              | EPH            | NJEPH  |                 | 09/29/25  | 09/29/25  |                 |
|                 |                    |              | SPLP PCB       | 8082A  |                 | 09/29/25  | 09/29/25  |                 |
|                 |                    |              | SPLP Pesticide | 8081B  |                 | 09/29/25  | 09/29/25  |                 |



# QC SUMMARY

**SOIL EPH SURROGATE RECOVERY**

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG No.: Q3179

Run Number: FE092925AL

| CLIENT<br>SAMPLE NO. | 1-chlorooctadecane (SURR) |  |  | TOT<br>OUT |
|----------------------|---------------------------|--|--|------------|
| PB169879BL           | 67                        |  |  | 0          |
| PB169879BS           | 86                        |  |  | 0          |
| PB169879TB           | 67                        |  |  | 0          |
| EME-TS14-01          | 98                        |  |  | 0          |
| EME-TS14-01MS        | 118                       |  |  | 0          |
| EME-TS14-01MSD       | 117                       |  |  | 0          |

**QC LIMITS**

**1-chlorooctadecane (SURR)**

**(40-140)**

# Column to be used to flag recovery values  
\* Values outside of contract required QC Limits  
D Surrogate diluted out

**SOIL EPH SURROGATE RECOVERY**

Lab Name: Alliance Contract: ROYF02  
Lab Code: ACE SDG No.: Q3179  
Run Number: FF092925AR

| CLIENT<br>SAMPLE NO. | 2-Bromonaphthalene (SURR) | 2-Fluorobiphenyl (SURR) | ortho-Terphenyl (SURR) | TOT<br>OUT |
|----------------------|---------------------------|-------------------------|------------------------|------------|
| PB169879BL           | 95                        | 85                      | 77                     | 0          |
| PB169879BS           | 108                       | 109                     | 91                     | 0          |
| PB169879TB           | 96                        | 86                      | 78                     | 0          |
| EME-TS14-01          | 98                        | 97                      | 94                     | 0          |
| EME-TS14-01MS        | 101                       | 91                      | 99                     | 0          |
| EME-TS14-01MSD       | 99                        | 90                      | 97                     | 0          |

**QC LIMITS**

2-Bromonaphthalene (SURR) (40-140)  
2-Fluorobiphenyl (SURR) (40-140)  
ortho-Terphenyl (SURR) (40-140)

# Column to be used to flag recovery values  
\* Values outside of contract required QC Limits  
D Surrogate diluted out

**WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

|                    |                 |                    |                               |
|--------------------|-----------------|--------------------|-------------------------------|
| <b>Lab Name:</b>   | <u>Alliance</u> | <b>Client:</b>     | <u>Weston Solutions, Inc.</u> |
| <b>Lab Code:</b>   | <u>ACE</u>      | <b>SDG No:</b>     | <u>Q3179</u>                  |
| <b>Sample No :</b> | <u>Q3179-02</u> | <b>Datafile:</b>   | <u>FE056056.D</u>             |
|                    |                 | <b>Client ID :</b> | <u>EME-TS14-01MS</u>          |

| COMPOUND          | SPIKE<br>ADDED<br>ug/l | SAMPLE<br>CONCENTRATION<br>ug/l | MS/MSD<br>CONCENTRATION<br>ug/l | % REC | Qual | QC LIMITS (%) |
|-------------------|------------------------|---------------------------------|---------------------------------|-------|------|---------------|
| Aliphatic C9-C12  | 300                    | 8.68                            | 333                             | 108   |      | (40-140)      |
| Aliphatic C12-C16 | 200                    | 17.2                            | 293                             | 137   |      | (40-140)      |
| Aliphatic C16-C21 | 300                    | 100                             | 404                             | 101   |      | (40-140)      |
| Aliphatic C21-C28 | 400                    | 0                               | 486                             | 121   |      | (40-140)      |
| Aliphatic C28-C40 | 600                    | 403                             | 1130                            | 121   |      | (40-140)      |



**WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

|                    |                 |                    |                               |
|--------------------|-----------------|--------------------|-------------------------------|
| <b>Lab Name:</b>   | <u>Alliance</u> | <b>Client:</b>     | <u>Weston Solutions, Inc.</u> |
| <b>Lab Code:</b>   | <u>ACE</u>      | <b>SDG No:</b>     | <u>Q3179</u>                  |
| <b>Sample No :</b> | <u>Q3179-03</u> | <b>Datafile:</b>   | <u>FE056057.D</u>             |
|                    |                 | <b>Client ID :</b> | <u>EME-TS14-01MSD</u>         |

| COMPOUND          | SPIKE<br>ADDED<br>ug/l | SAMPLE<br>CONCENTRATION<br>ug/l | MS/MSD<br>CONCENTRATION<br>ug/l | % REC | Qual | RPD   QC LIMITS (%) QC Limit Of<br>RPD |
|-------------------|------------------------|---------------------------------|---------------------------------|-------|------|----------------------------------------|
| Aliphatic C9-C12  | 300                    | 8.68                            | 329                             | 106   |      | 1.87   (40-140) 50                     |
| Aliphatic C12-C16 | 200                    | 17.2                            | 286                             | 134   |      | 2.21   (40-140) 50                     |
| Aliphatic C16-C21 | 300                    | 100                             | 401                             | 100   |      | 1   (40-140) 50                        |
| Aliphatic C21-C28 | 400                    | 0                               | 491                             | 122   |      | 0.82   (40-140) 50                     |
| Aliphatic C28-C40 | 600                    | 403                             | 1120                            | 119   |      | 1.67   (40-140) 50                     |

**WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

|                    |                 |                    |                               |
|--------------------|-----------------|--------------------|-------------------------------|
| <b>Lab Name:</b>   | <u>Alliance</u> | <b>Client:</b>     | <u>Weston Solutions, Inc.</u> |
| <b>Lab Code:</b>   | <u>ACE</u>      | <b>SDG No:</b>     | <u>Q3179</u>                  |
| <b>Sample No :</b> | <u>Q3179-02</u> | <b>Datafile:</b>   | <u>FF016477.D</u>             |
|                    |                 | <b>Client ID :</b> | <u>EME-TS14-01MS</u>          |

| COMPOUND         | SPIKE<br>ADDED<br>ug/l | SAMPLE<br>CONCENTRATION<br>ug/l | MS/MSD<br>CONCENTRATION<br>ug/l | % REC | Qual | QC LIMITS (%) |
|------------------|------------------------|---------------------------------|---------------------------------|-------|------|---------------|
| Aromatic C10-C12 | 200                    | 3.71                            | 222                             | 109   |      | (40-140)      |
| Aromatic C12-C16 | 300                    | 7.91                            | 422                             | 138   |      | (40-140)      |
| Aromatic C16-C21 | 500                    | 43.8                            | 656                             | 122   |      | (40-140)      |
| Aromatic C21-C36 | 800                    | 0                               | 948                             | 118   |      | (40-140)      |

**WATER EPH MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

**Lab Name:** Alliance **Client:** Weston Solutions, Inc.  
**Lab Code:** ACE **SDG No:** Q3179  
**Sample No :** Q3179-03 **Datafile:** FF016478.D **Client ID :** EME-TS14-01MSD

| COMPOUND         | SPIKE<br>ADDED<br>ug/l | SAMPLE<br>CONCENTRATION<br>ug/l | MS/MSD<br>CONCENTRATION<br>ug/l | % REC | Qual | RPD   QC LIMITS (%) QC Limit Of<br>RPD |
|------------------|------------------------|---------------------------------|---------------------------------|-------|------|----------------------------------------|
| Aromatic C10-C12 | 200                    | 3.71                            | 216                             | 106   |      | 2.79   (40-140) 50                     |
| Aromatic C12-C16 | 300                    | 7.91                            | 359                             | 117   |      | 16.5   (40-140) 50                     |
| Aromatic C16-C21 | 500                    | 43.8                            | 745                             | 140   |      | 13   (40-140) 50                       |
| Aromatic C21-C36 | 800                    | 0                               | 933                             | 116   |      | 1.71   (40-140) 50                     |

**WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY**

**Lab Name:** Alliance
**Client:** Weston Solutions, Inc.  
**Lab Code:** ACE
**SDG No:** Q3179  
**Sample No :** PB169879BS
**Datafile:** FE056074.D
**Client ID :** PB169879BS

| COMPOUND          | SPIKE<br>ADDED<br>ug/l | LCS/LCSD<br>CONCENTRATION<br>ug/l | % REC | Qual | QC LIMITS (%) |
|-------------------|------------------------|-----------------------------------|-------|------|---------------|
| Aliphatic C9-C12  | 300                    | 135                               | 45    |      | (40-140)      |
| Aliphatic C12-C16 | 200                    | 131                               | 66    |      | (40-140)      |
| Aliphatic C16-C21 | 300                    | 232                               | 77    |      | (40-140)      |
| Aliphatic C21-C28 | 400                    | 308                               | 77    |      | (40-140)      |
| Aliphatic C28-C40 | 600                    | 513                               | 86    |      | (40-140)      |

**WATER EPH LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY**

**Lab Name:** Alliance **Client:** Weston Solutions, Inc.  
**Lab Code:** ACE **SDG No:** Q3179  
**Sample No :** PB169879BS **Datafile:** FF016471.D **Client ID :** PB169879BS

| COMPOUND         | SPIKE<br>ADDED<br>ug/l | LCS/LCSD<br>CONCENTRATION<br>ug/l | % REC | Qual | QC LIMITS (%) |
|------------------|------------------------|-----------------------------------|-------|------|---------------|
| Aromatic C10-C12 | 200                    | 160                               | 80    |      | (40-140)      |
| Aromatic C12-C16 | 300                    | 266                               | 89    |      | (40-140)      |
| Aromatic C16-C21 | 500                    | 469                               | 94    |      | (40-140)      |
| Aromatic C21-C36 | 800                    | 747                               | 93    |      | (40-140)      |

4B  
METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PB169879BL

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG NO.: Q3179

Instrument ID: FID\_E

Lab Sample ID: PB169879BL

Matrix: (soil/water) Water

Date Extracted: 9/29/2025 8:30:00 A

Level: (low/med) low

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

| CLIENT<br>SAMPLE NO. | LAB<br>SAMPLE ID |
|----------------------|------------------|
| PB169879BS           | PB169879BS       |
| EME-TS14-01          | Q3179-01         |
| EME-TS14-01MS        | Q3179-02         |
| EME-TS14-01MSD       | Q3179-03         |

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



# SAMPLE DATA

## Report of Analysis

|                    |                        |                 |              |
|--------------------|------------------------|-----------------|--------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25     |
| Project:           | RFP 916                | Date Received:  | 09/23/25     |
| Client Sample ID:  | EME-TS14-01            | SDG No.:        | Q3179        |
| Lab Sample ID:     | Q3179-01               | Matrix:         | Water        |
| Analytical Method: | NJEPH                  | % Solid:        | 0            |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 2000      uL |
| Soil Aliquot Vol:  | uL                     | Test:           | EPH          |
| Prep Method :      | SW3510                 |                 |              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 09/29/25 08:30 | 09/29/25 19:56  | PB169879      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |       |            |
| Aliphatic C9-C12   | Aliphatic C9-C12   | 8.68  | J         | 1        | 8.28 | 30.0       | ug/l  | FE056055.D |
| Aliphatic C12-C16  | Aliphatic C12-C16  | 17.2  | J         | 1        | 13.5 | 20.0       | ug/l  | FE056055.D |
| Aliphatic C16-C21  | Aliphatic C16-C21  | 100   |           | 1        | 8.34 | 30.0       | ug/l  | FE056055.D |
| Aliphatic C21-C28  | Aliphatic C21-C28  | 12.5  | U         | 1        | 12.5 | 40.0       | ug/l  | FE056055.D |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 403   |           | 1        | 23.8 | 60.0       | ug/l  | FE056055.D |
| Aromatic C10-C12   | Aromatic C10-C12   | 3.71  | J         | 1        | 2.07 | 20.0       | ug/l  | FF016476.D |
| Aromatic C12-C16   | Aromatic C12-C16   | 7.91  | J         | 1        | 4.26 | 30.0       | ug/l  | FF016476.D |
| Aromatic C16-C21   | Aromatic C16-C21   | 43.8  | J         | 1        | 8.27 | 50.0       | ug/l  | FF016476.D |
| Aromatic C21-C36   | Aromatic C21-C36   | 23.8  | U         | 1        | 23.8 | 80.0       | ug/l  | FF016476.D |
| Total AliphaticEPH | Total AliphaticEPH | 529   |           |          | 66.4 | 180        | ug/l  |            |
| Total AromaticEPH  | Total AromaticEPH  | 55.4  | J         |          | 38.4 | 180        | ug/l  |            |
| Total EPH          | Total EPH          | 584   |           |          | 105  | 360        | ug/l  |            |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution



## Report of Analysis

|                    |                        |           |                 |          |    |
|--------------------|------------------------|-----------|-----------------|----------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: | 09/23/25 |    |
| Project:           | RFP 916                |           | Date Received:  | 09/23/25 |    |
| Client Sample ID:  | EME-TS14-01            |           | SDG No.:        | Q3179    |    |
| Lab Sample ID:     | Q3179-01               |           | Matrix:         | Water    |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000     | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH      |    |
| Prep Method :      | SW3510                 |           |                 |          |    |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE056055.D | 1         | 09/29/25    | 09/29/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C12  | Aliphatic C9-C12          | 8.68  | J         | 8.28     | 30.0       | ug/l    |
| Aliphatic C12-C16 | Aliphatic C12-C16         | 17.2  | J         | 13.5     | 20.0       | ug/l    |
| Aliphatic C16-C21 | Aliphatic C16-C21         | 100   |           | 8.34     | 30.0       | ug/l    |
| Aliphatic C21-C28 | Aliphatic C21-C28         | 12.5  | U         | 12.5     | 40.0       | ug/l    |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 403   |           | 23.8     | 60.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 48.9  |           | 40 - 140 | 98%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 0.00  |           | 40 - 140 | 0%         | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |             |                    |                   |
|-------------------|-------------|--------------------|-------------------|
| Lab Sample ID:    | Q3179-01    | Acq On:            | 29 Sep 2025 19:56 |
| Client Sample ID: | EME-TS14-01 | Operator:          | YP\AJ             |
| Data file:        | FE056055.D  | Misc:              |                   |
| Instrument:       | FID_E       | ALS Vial:          | 28                |
| Dilution Factor:  | 1           | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.315  | 6.946  | 607540   | 4.339   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.947  | 10.396 | 1320678  | 8.611   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.397 | 13.773 | 8356375  | 50.376  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.774 | 17.443 | 920988   | 6.201   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.444 | 22.449 | 27507813 | 201.889 | 600              | ug/ml |
| Aliphatic EPH             | 3.315  | 22.449 | 38713394 | 271.416 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 0.000  | 0.000  | 0        | 0       |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.512 | 13.512 | 6818463  | 48.85   |                  | ug/ml |
| Aliphatic C9-C28          | 3.315  | 17.443 | 11205581 | 69.527  | 1200             | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056055.D  
Signal(s) : FID1B.ch  
Acq On : 29 Sep 2025 19:56  
Operator : YP\AJ  
Sample : Q3179-01  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01

Integration File: autoint1.e  
Quant Time: Sep 30 00:31:21 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units   |
|--------------------------------|--------|------------|--------------|
| -----                          |        |            |              |
| System Monitoring Compounds    |        |            |              |
| 12) S 1-chlorooctadecane (S... | 13.512 | 6818463    | 48.855 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 97.71%       |

Target Compounds

-----

(f)=RT Delta > 1/2 Window

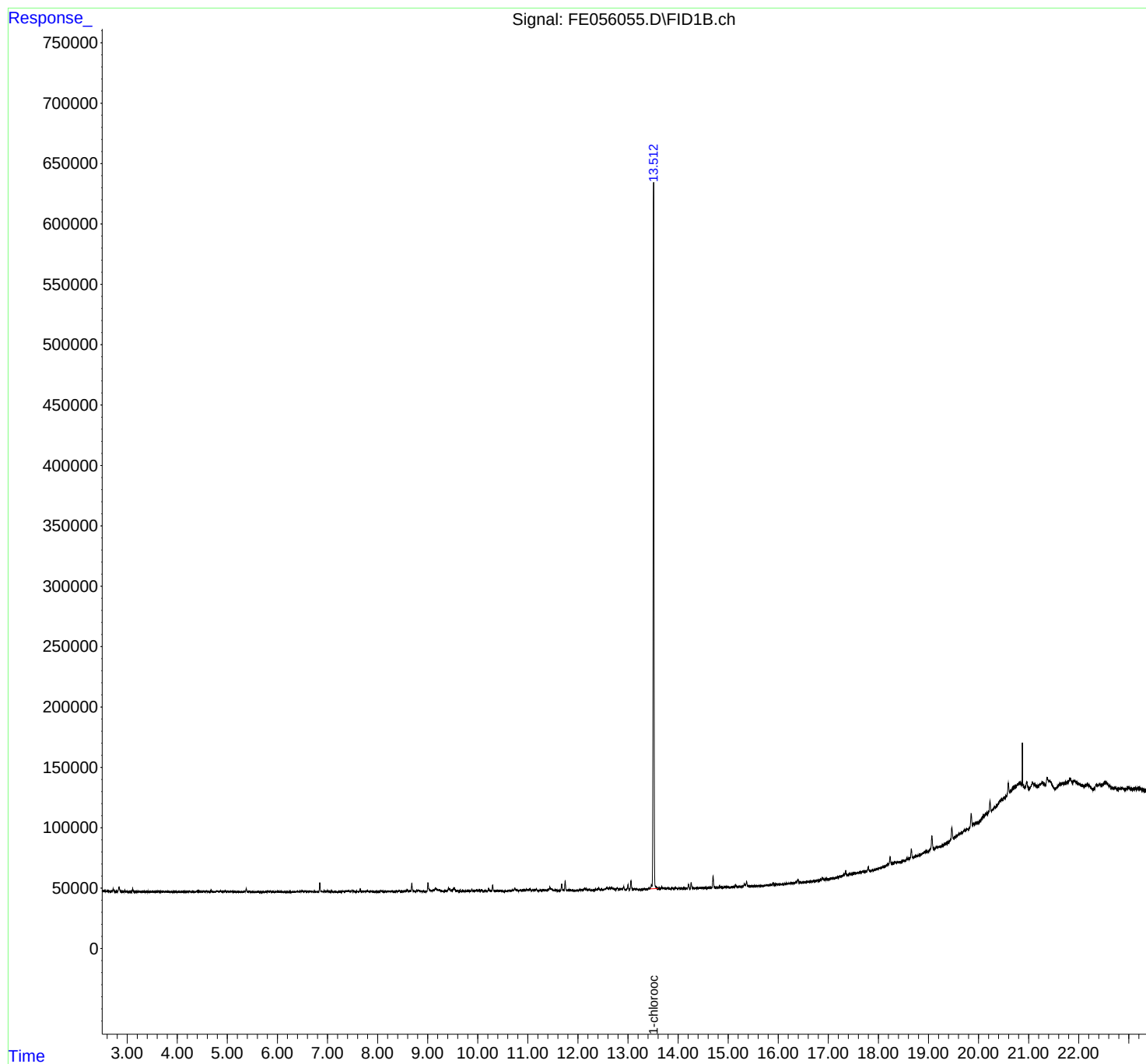
(m)=manual int.

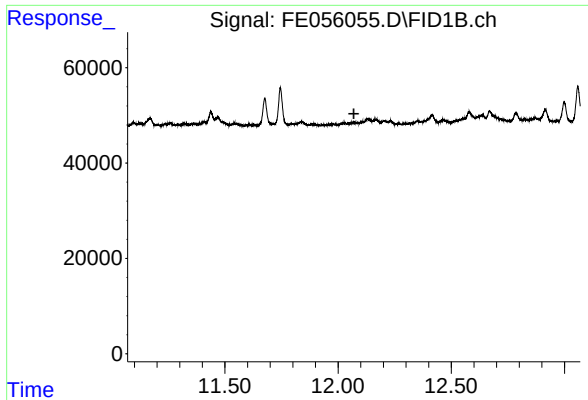
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056055.D  
Signal(s) : FID1B.ch  
Acq On : 29 Sep 2025 19:56  
Operator : YP\AJ  
Sample : Q3179-01  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01

Integration File: autoint1.e  
Quant Time: Sep 30 00:31:21 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

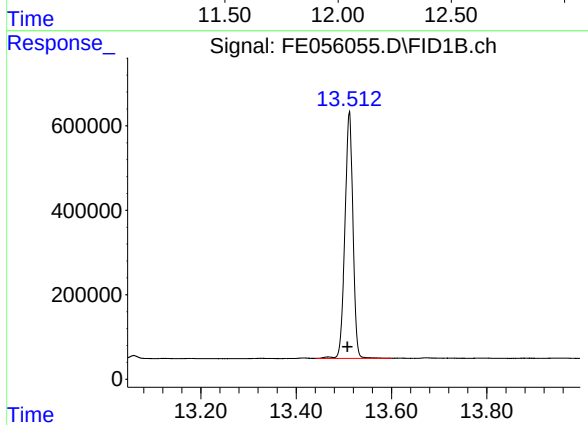




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min  
Exp R.T.: 12.070 min  
Response: 0  
Conc: N.D.

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01



#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min  
Delta R.T.: 0.004 min  
Response: 6818463  
Conc: 48.85 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056055.D  
 Signal(s) : FID1B.ch  
 Acq On : 29 Sep 2025 19:56  
 Sample : Q3179-01  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 2.840       | 2.805        | 2.878      | PV       | 3239           | 53644        | 0.79%          | 0.138%        |
| 2         | 2.886       | 2.878        | 2.913      | PV       | 123            | 1396         | 0.02%          | 0.004%        |
| 3         | 2.921       | 2.913        | 2.934      | PV       | 62             | 692          | 0.01%          | 0.002%        |
| 4         | 2.953       | 2.934        | 3.028      | PV       | 882            | 11642        | 0.17%          | 0.030%        |
| 5         | 3.052       | 3.028        | 3.074      | PV       | 157            | 2167         | 0.03%          | 0.006%        |
| 6         | 3.110       | 3.074        | 3.174      | PV       | 2444           | 27490        | 0.40%          | 0.071%        |
| 7         | 3.207       | 3.174        | 3.227      | VV       | 164            | 3344         | 0.05%          | 0.009%        |
| 8         | 3.237       | 3.227        | 3.248      | VV       | 169            | 1681         | 0.02%          | 0.004%        |
| 9         | 3.263       | 3.248        | 3.287      | VV       | 186            | 2662         | 0.04%          | 0.007%        |
| 10        | 3.295       | 3.287        | 3.304      | VV       | 151            | 1019         | 0.01%          | 0.003%        |
| 11        | 3.315       | 3.304        | 3.335      | VV       | 127            | 1953         | 0.03%          | 0.005%        |
| 12        | 3.346       | 3.335        | 3.365      | VV       | 118            | 1808         | 0.03%          | 0.005%        |
| 13        | 3.372       | 3.365        | 3.391      | VV       | 122            | 1468         | 0.02%          | 0.004%        |
| 14        | 3.416       | 3.391        | 3.447      | VV       | 335            | 5912         | 0.09%          | 0.015%        |
| 15        | 3.458       | 3.447        | 3.513      | VV       | 160            | 4759         | 0.07%          | 0.012%        |
| 16        | 3.535       | 3.513        | 3.553      | VV       | 181            | 3726         | 0.05%          | 0.010%        |
| 17        | 3.562       | 3.553        | 3.578      | VV       | 159            | 2257         | 0.03%          | 0.006%        |
| 18        | 3.587       | 3.578        | 3.601      | VV       | 193            | 2230         | 0.03%          | 0.006%        |
| 19        | 3.664       | 3.601        | 3.715      | VV       | 228            | 10761        | 0.16%          | 0.028%        |
| 20        | 3.728       | 3.715        | 3.775      | VV       | 215            | 5063         | 0.07%          | 0.013%        |
| 21        | 3.805       | 3.775        | 3.838      | VV       | 248            | 5760         | 0.08%          | 0.015%        |
| 22        | 3.845       | 3.838        | 3.855      | VV       | 145            | 1483         | 0.02%          | 0.004%        |
| 23        | 3.864       | 3.855        | 3.895      | VV       | 232            | 3977         | 0.06%          | 0.010%        |
| 24        | 3.902       | 3.895        | 3.919      | VV       | 154            | 1925         | 0.03%          | 0.005%        |
| 25        | 3.939       | 3.919        | 3.947      | VV       | 178            | 2041         | 0.03%          | 0.005%        |
| 26        | 3.960       | 3.947        | 3.977      | VV       | 162            | 2008         | 0.03%          | 0.005%        |
| 27        | 4.004       | 3.977        | 4.039      | VV       | 194            | 5085         | 0.07%          | 0.013%        |
| 28        | 4.110       | 4.039        | 4.125      | VV       | 169            | 5899         | 0.09%          | 0.015%        |
| 29        | 4.127       | 4.125        | 4.141      | VV       | 191            | 1132         | 0.02%          | 0.003%        |
| 30        | 4.212       | 4.141        | 4.227      | VV       | 412            | 7973         | 0.12%          | 0.021%        |
| 31        | 4.246       | 4.227        | 4.271      | VV       | 707            | 9309         | 0.14%          | 0.024%        |
| 32        | 4.278       | 4.271        | 4.302      | VV       | 130            | 2486         | 0.04%          | 0.006%        |
| 33        | 4.323       | 4.302        | 4.348      | VV       | 337            | 5763         | 0.08%          | 0.015%        |
| 34        | 4.416       | 4.348        | 4.463      | VV       | 599            | 19372        | 0.28%          | 0.050%        |
| 35        | 4.479       | 4.463        | 4.518      | VV       | 250            | 7001         | 0.10%          | 0.018%        |
| 36        | 4.535       | 4.518        | 4.545      | VV       | 269            | 3829         | 0.06%          | 0.010%        |

|    |       |       |       |    |            |       |       |        |  |
|----|-------|-------|-------|----|------------|-------|-------|--------|--|
|    |       |       |       |    | rteres.txt |       |       |        |  |
| 37 | 4.586 | 4.545 | 4.629 | VV | 751        | 17183 | 0.25% | 0.044% |  |
| 38 | 4.637 | 4.629 | 4.651 | VV | 178        | 2637  | 0.04% | 0.007% |  |
| 39 | 4.674 | 4.651 | 4.701 | VV | 1459       | 18621 | 0.27% | 0.048% |  |
| 40 | 4.714 | 4.701 | 4.733 | VV | 341        | 5096  | 0.07% | 0.013% |  |
| 41 | 4.791 | 4.733 | 4.821 | VV | 916        | 19299 | 0.28% | 0.050% |  |
| 42 | 4.864 | 4.821 | 4.909 | VV | 1006       | 20088 | 0.29% | 0.052% |  |
| 43 | 4.925 | 4.909 | 4.940 | VV | 793        | 8793  | 0.13% | 0.023% |  |
| 44 | 4.959 | 4.940 | 4.984 | VV | 1232       | 15368 | 0.23% | 0.040% |  |
| 45 | 4.998 | 4.984 | 5.051 | VV | 340        | 10971 | 0.16% | 0.028% |  |
| 46 | 5.086 | 5.051 | 5.126 | VV | 412        | 12699 | 0.19% | 0.033% |  |
| 47 | 5.138 | 5.126 | 5.211 | VV | 315        | 10289 | 0.15% | 0.027% |  |
| 48 | 5.217 | 5.211 | 5.246 | VV | 113        | 2014  | 0.03% | 0.005% |  |
| 49 | 5.259 | 5.246 | 5.278 | VV | 158        | 2486  | 0.04% | 0.006% |  |
| 50 | 5.291 | 5.278 | 5.326 | VV | 260        | 4486  | 0.07% | 0.012% |  |
| 51 | 5.377 | 5.326 | 5.415 | VV | 2892       | 41059 | 0.60% | 0.106% |  |
| 52 | 5.438 | 5.415 | 5.469 | VV | 635        | 9157  | 0.13% | 0.024% |  |
| 53 | 5.489 | 5.469 | 5.538 | VV | 434        | 7140  | 0.10% | 0.018% |  |
| 54 | 5.549 | 5.538 | 5.570 | PV | 81         | 977   | 0.01% | 0.003% |  |
| 55 | 5.586 | 5.570 | 5.605 | VV | 191        | 2529  | 0.04% | 0.007% |  |
| 56 | 5.619 | 5.605 | 5.659 | VV | 216        | 3271  | 0.05% | 0.008% |  |
| 57 | 5.697 | 5.659 | 5.714 | PV | 148        | 2248  | 0.03% | 0.006% |  |
| 58 | 5.724 | 5.714 | 5.733 | VV | 59         | 562   | 0.01% | 0.001% |  |
| 59 | 5.746 | 5.733 | 5.771 | VV | 180        | 2414  | 0.04% | 0.006% |  |
| 60 | 5.778 | 5.771 | 5.793 | VV | 181        | 1149  | 0.02% | 0.003% |  |
| 61 | 5.814 | 5.793 | 5.836 | VV | 728        | 8730  | 0.13% | 0.022% |  |
| 62 | 5.857 | 5.836 | 5.879 | VV | 1092       | 12216 | 0.18% | 0.031% |  |
| 63 | 5.918 | 5.879 | 5.952 | VV | 302        | 6596  | 0.10% | 0.017% |  |
| 64 | 6.010 | 5.952 | 6.036 | VV | 329        | 9402  | 0.14% | 0.024% |  |
| 65 | 6.077 | 6.036 | 6.096 | VV | 121        | 3958  | 0.06% | 0.010% |  |
| 66 | 6.125 | 6.096 | 6.148 | VV | 267        | 4716  | 0.07% | 0.012% |  |
| 67 | 6.165 | 6.148 | 6.223 | VV | 102        | 3471  | 0.05% | 0.009% |  |
| 68 | 6.233 | 6.223 | 6.273 | VV | 117        | 1602  | 0.02% | 0.004% |  |
| 69 | 6.295 | 6.273 | 6.313 | VV | 222        | 3286  | 0.05% | 0.008% |  |
| 70 | 6.398 | 6.313 | 6.428 | VV | 558        | 17661 | 0.26% | 0.045% |  |
| 71 | 6.446 | 6.428 | 6.471 | VV | 646        | 11962 | 0.18% | 0.031% |  |
| 72 | 6.492 | 6.471 | 6.528 | VV | 975        | 17428 | 0.26% | 0.045% |  |
| 73 | 6.555 | 6.528 | 6.588 | VV | 941        | 16453 | 0.24% | 0.042% |  |
| 74 | 6.630 | 6.588 | 6.658 | VV | 606        | 18404 | 0.27% | 0.047% |  |
| 75 | 6.681 | 6.658 | 6.715 | VV | 390        | 10432 | 0.15% | 0.027% |  |
| 76 | 6.733 | 6.715 | 6.757 | VV | 430        | 8192  | 0.12% | 0.021% |  |
| 77 | 6.771 | 6.757 | 6.788 | VV | 314        | 4471  | 0.07% | 0.012% |  |
| 78 | 6.795 | 6.788 | 6.814 | VV | 314        | 4189  | 0.06% | 0.011% |  |
| 79 | 6.846 | 6.814 | 6.903 | VV | 7559       | 87873 | 1.29% | 0.226% |  |
| 80 | 6.933 | 6.903 | 6.958 | VV | 674        | 10982 | 0.16% | 0.028% |  |
| 81 | 6.969 | 6.958 | 6.983 | VV | 410        | 4584  | 0.07% | 0.012% |  |
| 82 | 7.001 | 6.983 | 7.025 | VV | 1002       | 12114 | 0.18% | 0.031% |  |
| 83 | 7.036 | 7.025 | 7.061 | VV | 349        | 4073  | 0.06% | 0.010% |  |
| 84 | 7.076 | 7.061 | 7.105 | VV | 605        | 6917  | 0.10% | 0.018% |  |
| 85 | 7.112 | 7.105 | 7.120 | VV | 99         | 762   | 0.01% | 0.002% |  |
| 86 | 7.143 | 7.120 | 7.195 | VV | 299        | 6030  | 0.09% | 0.016% |  |
| 87 | 7.201 | 7.195 | 7.208 | VV | 47         | 429   | 0.01% | 0.001% |  |
| 88 | 7.234 | 7.208 | 7.276 | PV | 155        | 3853  | 0.06% | 0.010% |  |
| 89 | 7.303 | 7.276 | 7.335 | VV | 742        | 10599 | 0.16% | 0.027% |  |

|     |        |        |        |    |            |        |       |        |
|-----|--------|--------|--------|----|------------|--------|-------|--------|
|     |        |        |        |    | rteres.txt |        |       |        |
| 90  | 7.358  | 7.335  | 7.375  | VV | 866        | 13385  | 0.20% | 0.034% |
| 91  | 7.409  | 7.375  | 7.417  | VV | 931        | 17460  | 0.26% | 0.045% |
| 92  | 7.426  | 7.417  | 7.458  | VV | 951        | 15734  | 0.23% | 0.041% |
| 93  | 7.488  | 7.458  | 7.517  | VV | 1212       | 20799  | 0.30% | 0.054% |
| 94  | 7.527  | 7.517  | 7.547  | VV | 317        | 4634   | 0.07% | 0.012% |
| 95  | 7.567  | 7.547  | 7.580  | VV | 337        | 5187   | 0.08% | 0.013% |
| 96  | 7.596  | 7.580  | 7.621  | VV | 299        | 5675   | 0.08% | 0.015% |
| 97  | 7.653  | 7.621  | 7.684  | VV | 2713       | 33481  | 0.49% | 0.086% |
| 98  | 7.716  | 7.684  | 7.745  | VV | 454        | 12387  | 0.18% | 0.032% |
| 99  | 7.763  | 7.745  | 7.777  | VV | 592        | 8098   | 0.12% | 0.021% |
| 100 | 7.796  | 7.777  | 7.816  | VV | 1106       | 14648  | 0.21% | 0.038% |
| 101 | 7.862  | 7.816  | 7.875  | VV | 479        | 10137  | 0.15% | 0.026% |
| 102 | 7.890  | 7.875  | 7.923  | VV | 568        | 6987   | 0.10% | 0.018% |
| 103 | 7.932  | 7.923  | 7.937  | VV | 124        | 693    | 0.01% | 0.002% |
| 104 | 7.961  | 7.937  | 7.981  | VV | 299        | 4196   | 0.06% | 0.011% |
| 105 | 8.008  | 7.981  | 8.028  | PV | 194        | 2565   | 0.04% | 0.007% |
| 106 | 8.064  | 8.028  | 8.083  | VV | 1216       | 15345  | 0.22% | 0.040% |
| 107 | 8.090  | 8.083  | 8.121  | VV | 398        | 7357   | 0.11% | 0.019% |
| 108 | 8.135  | 8.121  | 8.181  | VV | 327        | 9837   | 0.14% | 0.025% |
| 109 | 8.232  | 8.181  | 8.249  | VV | 463        | 12759  | 0.19% | 0.033% |
| 110 | 8.259  | 8.249  | 8.313  | VV | 373        | 8904   | 0.13% | 0.023% |
| 111 | 8.329  | 8.313  | 8.348  | VV | 291        | 3506   | 0.05% | 0.009% |
| 112 | 8.374  | 8.348  | 8.405  | VV | 835        | 11356  | 0.17% | 0.029% |
| 113 | 8.431  | 8.405  | 8.453  | VV | 1550       | 18482  | 0.27% | 0.048% |
| 114 | 8.468  | 8.453  | 8.488  | VV | 348        | 5744   | 0.08% | 0.015% |
| 115 | 8.587  | 8.488  | 8.652  | VV | 1486       | 55007  | 0.81% | 0.142% |
| 116 | 8.682  | 8.652  | 8.758  | VV | 6893       | 103316 | 1.51% | 0.266% |
| 117 | 8.811  | 8.758  | 8.865  | VV | 1085       | 44419  | 0.65% | 0.114% |
| 118 | 8.877  | 8.865  | 8.905  | VV | 550        | 8086   | 0.12% | 0.021% |
| 119 | 8.919  | 8.905  | 8.965  | VV | 647        | 8558   | 0.13% | 0.022% |
| 120 | 9.006  | 8.965  | 9.083  | PV | 7474       | 133711 | 1.96% | 0.344% |
| 121 | 9.157  | 9.083  | 9.211  | VV | 2637       | 111637 | 1.64% | 0.288% |
| 122 | 9.228  | 9.211  | 9.274  | VV | 1437       | 35879  | 0.53% | 0.092% |
| 123 | 9.291  | 9.274  | 9.323  | VV | 710        | 12123  | 0.18% | 0.031% |
| 124 | 9.345  | 9.323  | 9.364  | VV | 642        | 10611  | 0.16% | 0.027% |
| 125 | 9.415  | 9.364  | 9.431  | VV | 3272       | 54527  | 0.80% | 0.140% |
| 126 | 9.443  | 9.431  | 9.485  | VV | 2074       | 42758  | 0.63% | 0.110% |
| 127 | 9.529  | 9.485  | 9.585  | VV | 3169       | 82403  | 1.21% | 0.212% |
| 128 | 9.601  | 9.585  | 9.625  | VV | 817        | 12030  | 0.18% | 0.031% |
| 129 | 9.651  | 9.625  | 9.677  | VV | 640        | 10543  | 0.15% | 0.027% |
| 130 | 9.697  | 9.677  | 9.718  | VV | 568        | 9920   | 0.15% | 0.026% |
| 131 | 9.734  | 9.718  | 9.780  | VV | 461        | 12173  | 0.18% | 0.031% |
| 132 | 9.815  | 9.780  | 9.836  | VV | 764        | 15984  | 0.23% | 0.041% |
| 133 | 9.882  | 9.836  | 9.918  | VV | 1447       | 28102  | 0.41% | 0.072% |
| 134 | 9.974  | 9.918  | 10.001 | VV | 1047       | 29482  | 0.43% | 0.076% |
| 135 | 10.022 | 10.001 | 10.054 | VV | 971        | 19151  | 0.28% | 0.049% |
| 136 | 10.076 | 10.054 | 10.114 | VV | 1287       | 20310  | 0.30% | 0.052% |
| 137 | 10.149 | 10.114 | 10.185 | VV | 736        | 16621  | 0.24% | 0.043% |
| 138 | 10.216 | 10.185 | 10.271 | VV | 2061       | 36280  | 0.53% | 0.093% |
| 139 | 10.297 | 10.271 | 10.340 | VV | 5350       | 69959  | 1.02% | 0.180% |
| 140 | 10.369 | 10.340 | 10.381 | VV | 476        | 8441   | 0.12% | 0.022% |
| 141 | 10.391 | 10.381 | 10.425 | VV | 476        | 9930   | 0.15% | 0.026% |



|     |        |        |        |    | rteres.txt |        |       |        |
|-----|--------|--------|--------|----|------------|--------|-------|--------|
| 142 | 10.450 | 10.425 | 10.491 | VV | 464        | 12397  | 0.18% | 0.032% |
| 143 | 10.576 | 10.491 | 10.593 | PV | 335        | 8783   | 0.13% | 0.023% |
| 144 | 10.619 | 10.593 | 10.638 | VV | 600        | 11147  | 0.16% | 0.029% |
| 145 | 10.647 | 10.638 | 10.656 | VV | 411        | 3835   | 0.06% | 0.010% |
| 146 | 10.690 | 10.656 | 10.710 | VV | 915        | 19491  | 0.29% | 0.050% |
| 147 | 10.738 | 10.710 | 10.821 | VV | 2430       | 68700  | 1.01% | 0.177% |
| 148 | 10.847 | 10.821 | 10.871 | VV | 733        | 16539  | 0.24% | 0.043% |
| 149 | 10.902 | 10.871 | 10.914 | VV | 803        | 15072  | 0.22% | 0.039% |
| 150 | 10.940 | 10.914 | 10.953 | VV | 801        | 17029  | 0.25% | 0.044% |
| 151 | 10.970 | 10.953 | 11.002 | VV | 1043       | 25740  | 0.38% | 0.066% |
| 152 | 11.039 | 11.002 | 11.075 | VV | 1848       | 43841  | 0.64% | 0.113% |
| 153 | 11.096 | 11.075 | 11.112 | VV | 851        | 13728  | 0.20% | 0.035% |
| 154 | 11.125 | 11.112 | 11.135 | VV | 735        | 9248   | 0.14% | 0.024% |
| 155 | 11.169 | 11.135 | 11.220 | VV | 1795       | 42541  | 0.62% | 0.110% |
| 156 | 11.261 | 11.220 | 11.284 | VV | 708        | 19341  | 0.28% | 0.050% |
| 157 | 11.324 | 11.284 | 11.345 | VV | 531        | 15755  | 0.23% | 0.041% |
| 158 | 11.363 | 11.345 | 11.380 | VV | 628        | 10739  | 0.16% | 0.028% |
| 159 | 11.408 | 11.380 | 11.418 | VV | 942        | 15553  | 0.23% | 0.040% |
| 160 | 11.438 | 11.418 | 11.455 | VV | 2991       | 43365  | 0.64% | 0.112% |
| 161 | 11.468 | 11.455 | 11.524 | VV | 1912       | 40948  | 0.60% | 0.105% |
| 162 | 11.546 | 11.524 | 11.584 | VV | 562        | 11960  | 0.18% | 0.031% |
| 163 | 11.620 | 11.584 | 11.638 | VV | 296        | 5657   | 0.08% | 0.015% |
| 164 | 11.676 | 11.638 | 11.717 | VV | 5777       | 77503  | 1.14% | 0.200% |
| 165 | 11.745 | 11.717 | 11.780 | VV | 7956       | 99202  | 1.45% | 0.256% |
| 166 | 11.793 | 11.780 | 11.804 | VV | 411        | 4780   | 0.07% | 0.012% |
| 167 | 11.839 | 11.804 | 11.867 | VV | 768        | 17048  | 0.25% | 0.044% |
| 168 | 11.887 | 11.867 | 11.921 | VV | 242        | 4551   | 0.07% | 0.012% |
| 169 | 11.976 | 11.921 | 12.001 | PV | 258        | 5678   | 0.08% | 0.015% |
| 170 | 12.024 | 12.001 | 12.051 | VV | 381        | 9092   | 0.13% | 0.023% |
| 171 | 12.068 | 12.051 | 12.081 | VV | 519        | 8123   | 0.12% | 0.021% |
| 172 | 12.133 | 12.081 | 12.152 | VV | 1219       | 32453  | 0.48% | 0.084% |
| 173 | 12.165 | 12.152 | 12.189 | VV | 1078       | 18639  | 0.27% | 0.048% |
| 174 | 12.204 | 12.189 | 12.218 | VV | 810        | 11431  | 0.17% | 0.029% |
| 175 | 12.231 | 12.218 | 12.253 | VV | 797        | 10775  | 0.16% | 0.028% |
| 176 | 12.265 | 12.253 | 12.282 | VV | 230        | 2238   | 0.03% | 0.006% |
| 177 | 12.351 | 12.282 | 12.362 | PV | 642        | 13001  | 0.19% | 0.033% |
| 178 | 12.415 | 12.362 | 12.444 | VV | 1864       | 46230  | 0.68% | 0.119% |
| 179 | 12.464 | 12.444 | 12.495 | VV | 823        | 17486  | 0.26% | 0.045% |
| 180 | 12.579 | 12.495 | 12.607 | VV | 2442       | 75763  | 1.11% | 0.195% |
| 181 | 12.636 | 12.607 | 12.652 | VV | 1742       | 39313  | 0.58% | 0.101% |
| 182 | 12.669 | 12.652 | 12.758 | VV | 2587       | 77368  | 1.13% | 0.199% |
| 183 | 12.786 | 12.758 | 12.815 | VV | 2074       | 37721  | 0.55% | 0.097% |
| 184 | 12.825 | 12.815 | 12.840 | VV | 806        | 10900  | 0.16% | 0.028% |
| 185 | 12.871 | 12.840 | 12.888 | VV | 992        | 22612  | 0.33% | 0.058% |
| 186 | 12.916 | 12.888 | 12.951 | VV | 2760       | 47406  | 0.69% | 0.122% |
| 187 | 12.999 | 12.951 | 13.035 | VV | 4316       | 62279  | 0.91% | 0.160% |
| 188 | 13.059 | 13.035 | 13.108 | VV | 7571       | 100375 | 1.47% | 0.259% |
| 189 | 13.123 | 13.108 | 13.162 | VV | 713        | 14074  | 0.21% | 0.036% |
| 190 | 13.178 | 13.162 | 13.221 | VV | 611        | 10647  | 0.16% | 0.027% |
| 191 | 13.229 | 13.221 | 13.251 | VV | 122        | 1421   | 0.02% | 0.004% |
| 192 | 13.260 | 13.251 | 13.282 | PV | 141        | 1633   | 0.02% | 0.004% |
| 193 | 13.326 | 13.282 | 13.371 | VV | 731        | 19502  | 0.29% | 0.050% |
| 194 | 13.379 | 13.371 | 13.388 | VV | 355        | 2737   | 0.04% | 0.007% |

|     |        |        |        |    |            |         |         |         |
|-----|--------|--------|--------|----|------------|---------|---------|---------|
|     |        |        |        |    | rteres.txt |         |         |         |
| 195 | 13.416 | 13.388 | 13.438 | VV | 1588       | 25791   | 0.38%   | 0.066%  |
| 196 | 13.467 | 13.438 | 13.477 | VV | 3957       | 52942   | 0.78%   | 0.136%  |
| 197 | 13.511 | 13.477 | 13.603 | VV | 582807     | 6826426 | 100.00% | 17.584% |
| 198 | 13.618 | 13.603 | 13.641 | VV | 938        | 17273   | 0.25%   | 0.044%  |
| 199 | 13.673 | 13.641 | 13.711 | VV | 1691       | 40324   | 0.59%   | 0.104%  |
| 200 | 13.726 | 13.711 | 13.764 | VV | 780        | 20229   | 0.30%   | 0.052%  |
| 201 | 13.797 | 13.764 | 13.851 | VV | 893        | 26620   | 0.39%   | 0.069%  |
| 202 | 13.881 | 13.851 | 13.915 | VV | 606        | 15196   | 0.22%   | 0.039%  |
| 203 | 13.948 | 13.915 | 13.995 | VV | 643        | 19977   | 0.29%   | 0.051%  |
| 204 | 14.017 | 13.995 | 14.041 | VV | 699        | 9973    | 0.15%   | 0.026%  |
| 205 | 14.057 | 14.041 | 14.091 | VV | 303        | 6106    | 0.09%   | 0.016%  |
| 206 | 14.116 | 14.091 | 14.157 | VV | 542        | 10865   | 0.16%   | 0.028%  |
| 207 | 14.209 | 14.157 | 14.236 | VV | 3340       | 45891   | 0.67%   | 0.118%  |
| 208 | 14.261 | 14.236 | 14.333 | VV | 4986       | 68938   | 1.01%   | 0.178%  |
| 209 | 14.360 | 14.333 | 14.401 | PV | 288        | 4459    | 0.07%   | 0.011%  |
| 210 | 14.422 | 14.401 | 14.441 | VV | 184        | 2446    | 0.04%   | 0.006%  |
| 211 | 14.485 | 14.441 | 14.528 | VV | 541        | 18008   | 0.26%   | 0.046%  |
| 212 | 14.536 | 14.528 | 14.545 | VV | 143        | 1528    | 0.02%   | 0.004%  |
| 213 | 14.554 | 14.545 | 14.573 | VV | 259        | 2460    | 0.04%   | 0.006%  |
| 214 | 14.597 | 14.573 | 14.611 | VV | 235        | 3656    | 0.05%   | 0.009%  |
| 215 | 14.700 | 14.611 | 14.755 | VV | 10076      | 139295  | 2.04%   | 0.359%  |
| 216 | 14.777 | 14.755 | 14.802 | VV | 396        | 8289    | 0.12%   | 0.021%  |
| 217 | 14.827 | 14.802 | 14.865 | VV | 1153       | 14242   | 0.21%   | 0.037%  |
| 218 | 14.896 | 14.865 | 14.918 | VV | 316        | 6032    | 0.09%   | 0.016%  |
| 219 | 14.953 | 14.918 | 14.965 | VV | 437        | 7910    | 0.12%   | 0.020%  |
| 220 | 14.973 | 14.965 | 15.007 | VV | 428        | 5475    | 0.08%   | 0.014%  |
| 221 | 15.027 | 15.007 | 15.043 | VV | 172        | 2462    | 0.04%   | 0.006%  |
| 222 | 15.056 | 15.043 | 15.065 | VV | 108        | 830     | 0.01%   | 0.002%  |
| 223 | 15.082 | 15.065 | 15.110 | PV | 303        | 4791    | 0.07%   | 0.012%  |
| 224 | 15.149 | 15.110 | 15.210 | VV | 1515       | 32961   | 0.48%   | 0.085%  |
| 225 | 15.223 | 15.210 | 15.264 | VV | 267        | 4077    | 0.06%   | 0.011%  |
| 226 | 15.324 | 15.264 | 15.342 | VV | 2430       | 37819   | 0.55%   | 0.097%  |
| 227 | 15.367 | 15.342 | 15.405 | VV | 4188       | 68223   | 1.00%   | 0.176%  |
| 228 | 15.413 | 15.405 | 15.441 | VV | 384        | 5884    | 0.09%   | 0.015%  |
| 229 | 15.449 | 15.441 | 15.498 | VV | 263        | 5066    | 0.07%   | 0.013%  |
| 230 | 15.532 | 15.498 | 15.547 | PV | 464        | 6896    | 0.10%   | 0.018%  |
| 231 | 15.561 | 15.547 | 15.601 | VV | 293        | 4450    | 0.07%   | 0.011%  |
| 232 | 15.778 | 15.601 | 15.824 | PV | 443        | 10349   | 0.15%   | 0.027%  |
| 233 | 15.849 | 15.824 | 15.868 | PV | 409        | 6520    | 0.10%   | 0.017%  |
| 234 | 15.890 | 15.868 | 15.926 | VV | 1271       | 21318   | 0.31%   | 0.055%  |
| 235 | 15.972 | 15.926 | 15.995 | VV | 338        | 9108    | 0.13%   | 0.023%  |
| 236 | 16.034 | 15.995 | 16.048 | VV | 182        | 4544    | 0.07%   | 0.012%  |
| 237 | 16.157 | 16.048 | 16.179 | VV | 293        | 8503    | 0.12%   | 0.022%  |
| 238 | 16.216 | 16.179 | 16.223 | VV | 217        | 3835    | 0.06%   | 0.010%  |
| 239 | 16.251 | 16.223 | 16.291 | VV | 322        | 7254    | 0.11%   | 0.019%  |
| 240 | 16.353 | 16.291 | 16.370 | PV | 1405       | 18394   | 0.27%   | 0.047%  |
| 241 | 16.393 | 16.370 | 16.435 | VV | 3075       | 46553   | 0.68%   | 0.120%  |
| 242 | 16.454 | 16.435 | 16.472 | VV | 332        | 5039    | 0.07%   | 0.013%  |
| 243 | 16.530 | 16.472 | 16.539 | PV | 227        | 3777    | 0.06%   | 0.010%  |
| 244 | 16.563 | 16.539 | 16.580 | VV | 314        | 4445    | 0.07%   | 0.011%  |
| 245 | 16.675 | 16.580 | 16.687 | VV | 192        | 8046    | 0.12%   | 0.021%  |
| 246 | 16.699 | 16.687 | 16.714 | PV | 224        | 2111    | 0.03%   | 0.005%  |

|     |        |        |        |    |            |         |        |         |
|-----|--------|--------|--------|----|------------|---------|--------|---------|
|     |        |        |        |    | rteres.txt |         |        |         |
| 247 | 16.877 | 16.714 | 16.945 | VV | 1508       | 37939   | 0.56%  | 0.098%  |
| 248 | 16.963 | 16.945 | 16.978 | VV | 201        | 2615    | 0.04%  | 0.007%  |
| 249 | 17.049 | 16.978 | 17.061 | VV | 124        | 1635    | 0.02%  | 0.004%  |
| 250 | 17.183 | 17.061 | 17.190 | PV | 121        | -340    | -0.00% | -0.001% |
| 251 | 17.234 | 17.190 | 17.245 | PV | 408        | 7291    | 0.11%  | 0.019%  |
| 252 | 17.311 | 17.245 | 17.322 | VV | 1488       | 35118   | 0.51%  | 0.090%  |
| 253 | 17.345 | 17.322 | 17.381 | VV | 3402       | 60551   | 0.89%  | 0.156%  |
| 254 | 17.431 | 17.381 | 17.445 | VV | 883        | 25558   | 0.37%  | 0.066%  |
| 255 | 17.542 | 17.445 | 17.568 | VV | 662        | 44620   | 0.65%  | 0.115%  |
| 256 | 17.688 | 17.568 | 17.708 | VV | 533        | 38238   | 0.56%  | 0.098%  |
| 257 | 17.732 | 17.708 | 17.741 | VV | 487        | 7954    | 0.12%  | 0.020%  |
| 258 | 17.796 | 17.741 | 17.825 | VV | 3156       | 50468   | 0.74%  | 0.130%  |
| 259 | 17.884 | 17.825 | 17.907 | PV | 437        | 4391    | 0.06%  | 0.011%  |
| 260 | 18.087 | 17.907 | 18.101 | PV | 456        | 23281   | 0.34%  | 0.060%  |
| 261 | 18.234 | 18.101 | 18.262 | VV | 7032       | 164812  | 2.41%  | 0.425%  |
| 262 | 18.273 | 18.262 | 18.277 | VV | 1112       | 9547    | 0.14%  | 0.025%  |
| 263 | 18.285 | 18.277 | 18.291 | VV | 1087       | 8687    | 0.13%  | 0.022%  |
| 264 | 18.324 | 18.291 | 18.344 | VV | 1266       | 33798   | 0.50%  | 0.087%  |
| 265 | 18.393 | 18.344 | 18.405 | VV | 719        | 24339   | 0.36%  | 0.063%  |
| 266 | 18.427 | 18.405 | 18.439 | VV | 452        | 7432    | 0.11%  | 0.019%  |
| 267 | 18.498 | 18.439 | 18.525 | VV | 579        | 17308   | 0.25%  | 0.045%  |
| 268 | 18.572 | 18.525 | 18.611 | PV | 1614       | 36250   | 0.53%  | 0.093%  |
| 269 | 18.658 | 18.611 | 18.698 | VV | 8121       | 125183  | 1.83%  | 0.322%  |
| 270 | 18.762 | 18.698 | 18.775 | VV | 531        | 17135   | 0.25%  | 0.044%  |
| 271 | 19.068 | 18.775 | 19.125 | VV | 12549      | 335627  | 4.92%  | 0.865%  |
| 272 | 19.173 | 19.125 | 19.186 | VV | 1442       | 42654   | 0.62%  | 0.110%  |
| 273 | 19.216 | 19.186 | 19.232 | VV | 1080       | 28657   | 0.42%  | 0.074%  |
| 274 | 19.330 | 19.232 | 19.345 | VV | 1617       | 63244   | 0.93%  | 0.163%  |
| 275 | 19.378 | 19.345 | 19.395 | VV | 1774       | 44933   | 0.66%  | 0.116%  |
| 276 | 19.466 | 19.395 | 19.508 | VV | 13163      | 332758  | 4.87%  | 0.857%  |
| 277 | 19.722 | 19.508 | 19.745 | VV | 7192       | 758585  | 11.11% | 1.954%  |
| 278 | 19.852 | 19.745 | 19.879 | VV | 18671      | 725684  | 10.63% | 1.869%  |
| 279 | 19.899 | 19.879 | 19.921 | VV | 9260       | 224679  | 3.29%  | 0.579%  |
| 280 | 20.098 | 19.921 | 20.112 | VV | 12768      | 1153619 | 16.90% | 2.972%  |
| 281 | 20.172 | 20.112 | 20.184 | VV | 13706      | 569854  | 8.35%  | 1.468%  |
| 282 | 20.228 | 20.184 | 20.262 | VV | 22989      | 785281  | 11.50% | 2.023%  |
| 283 | 20.458 | 20.262 | 20.485 | VV | 21114      | 2370994 | 34.73% | 6.107%  |
| 284 | 20.547 | 20.485 | 20.558 | VV | 22389      | 940629  | 13.78% | 2.423%  |
| 285 | 20.594 | 20.558 | 20.621 | VV | 32163      | 997455  | 14.61% | 2.569%  |
| 286 | 20.642 | 20.621 | 20.650 | VV | 25404      | 428571  | 6.28%  | 1.104%  |
| 287 | 20.692 | 20.650 | 20.700 | VV | 27170      | 780936  | 11.44% | 2.012%  |
| 288 | 20.817 | 20.700 | 20.855 | VV | 29164      | 2591892 | 37.97% | 6.676%  |
| 289 | 20.875 | 20.855 | 20.912 | VV | 37126      | 904567  | 13.25% | 2.330%  |
| 290 | 20.925 | 20.912 | 20.934 | VV | 24098      | 316256  | 4.63%  | 0.815%  |
| 291 | 20.962 | 20.934 | 21.011 | VV | 27645      | 1110401 | 16.27% | 2.860%  |
| 292 | 21.080 | 21.011 | 21.111 | VV | 25422      | 1371197 | 20.09% | 3.532%  |
| 293 | 21.122 | 21.111 | 21.179 | VV | 22766      | 883571  | 12.94% | 2.276%  |
| 294 | 21.274 | 21.179 | 21.335 | VV | 22177      | 1946636 | 28.52% | 5.014%  |
| 295 | 21.370 | 21.335 | 21.518 | VV | 24688      | 2105416 | 30.84% | 5.423%  |
| 296 | 21.619 | 21.518 | 21.628 | VV | 15557      | 918675  | 13.46% | 2.366%  |
| 297 | 21.641 | 21.628 | 21.665 | VV | 15448      | 329084  | 4.82%  | 0.848%  |
| 298 | 21.685 | 21.665 | 21.700 | VV | 15135      | 316128  | 4.63%  | 0.814%  |
| 299 | 21.828 | 21.700 | 21.874 | VV | 16670      | 1513431 | 22.17% | 3.898%  |

|     |        |        |        |    |                         |        |          |        |
|-----|--------|--------|--------|----|-------------------------|--------|----------|--------|
|     |        |        |        |    | rteres.txt              |        |          |        |
| 300 | 21.905 | 21.874 | 21.981 | VV | 13538                   | 787627 | 11.54%   | 2.029% |
| 301 | 22.001 | 21.981 | 22.065 | VV | 9870                    | 433979 | 6.36%    | 1.118% |
| 302 | 22.081 | 22.065 | 22.106 | VV | 7004                    | 162745 | 2.38%    | 0.419% |
| 303 | 22.117 | 22.106 | 22.130 | VV | 5923                    | 82657  | 1.21%    | 0.213% |
| 304 | 22.174 | 22.130 | 22.288 | VV | 6256                    | 383568 | 5.62%    | 0.988% |
| 305 | 22.348 | 22.288 | 22.381 | PV | 3250                    | 90671  | 1.33%    | 0.234% |
| 306 | 22.404 | 22.381 | 22.433 | VV | 2014                    | 49931  | 0.73%    | 0.129% |
| 307 | 22.442 | 22.433 | 22.467 | VV | 1007                    | 11778  | 0.17%    | 0.030% |
| 308 | 22.482 | 22.467 | 22.491 | PV | 507                     | 2659   | 0.04%    | 0.007% |
|     |        |        |        |    | Sum of corrected areas: |        | 38821782 |        |

Aliphatic EPH 092425.M Tue Sep 30 06:34:23 2025

## Report of Analysis

|                    |                        |           |                 |          |    |
|--------------------|------------------------|-----------|-----------------|----------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: | 09/23/25 |    |
| Project:           | RFP 916                |           | Date Received:  | 09/23/25 |    |
| Client Sample ID:  | EME-TS14-01            |           | SDG No.:        | Q3179    |    |
| Lab Sample ID:     | Q3179-01               |           | Matrix:         | Water    |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000     | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH      |    |
| Prep Method :      | SW3510                 |           |                 |          |    |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FF016476.D | 1         | 09/29/25    | 09/29/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aromatic C10-C12  | Aromatic C10-C12          | 3.71  | J         | 2.07     | 20.0       | ug/l    |
| Aromatic C12-C16  | Aromatic C12-C16          | 7.91  | J         | 4.26     | 30.0       | ug/l    |
| Aromatic C16-C21  | Aromatic C16-C21          | 43.8  | J         | 8.27     | 50.0       | ug/l    |
| Aromatic C21-C36  | Aromatic C21-C36          | 23.8  | U         | 23.8     | 80.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 580-13-2          | 2-Bromonaphthalene (SURR) | 49.2  |           | 40 - 140 | 98%        | SPK: 50 |
| 321-60-8          | 2-Fluorobiphenyl (SURR)   | 48.6  |           | 40 - 140 | 97%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 47.1  |           | 40 - 140 | 94%        | SPK: 50 |

## Quantitation Report For Aromatic EPH Range.

|                   |             |                    |                   |
|-------------------|-------------|--------------------|-------------------|
| Lab Sample ID:    | Q3179-01    | Acq On:            | 29 Sep 2025 19:33 |
| Client Sample ID: | EME-TS14-01 | Operator:          | YP\AJ             |
| Data file:        | FF016476.D  | Misc:              |                   |
| Instrument:       | FID_F       | ALS Vial:          | 87                |
| Dilution Factor:  | 1           | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc   | highest_standard | Units |
|---------------------------|--------|--------|----------|--------|------------------|-------|
| Aromatic C10-C12          | 4.521  | 6.397  | 266219   | 1.857  | 200              | ug/ml |
| Aromatic C12-C16          | 6.398  | 9.101  | 574540   | 3.957  | 300              | ug/ml |
| Aromatic C16-C21          | 9.102  | 13.420 | 3159636  | 21.916 | 500              | ug/ml |
| Aromatic C21-C36          | 13.421 | 18.876 | 852645   | 6.517  | 800              | ug/ml |
| Aromatic EPH              | 4.521  | 18.876 | 4853040  | 34.247 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.972 | 11.972 | 7183345  | 47.12  |                  | ug/ml |
| 2-Bromonaphthalene (SURR) | 8.027  | 8.027  | 6163999  | 49.21  |                  | ug/ml |
| 2-Fluorobiphenyl (SURR)   | 8.902  | 8.902  | 4098461  | 48.59  |                  | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016476.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 19:33  
 Operator : YP\AJ  
 Sample : Q3179-01  
 Misc :  
 ALS Vial : 87 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 EME-TS14-01

Integration File: autoint1.e  
 Quant Time: Sep 30 01:05:56 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.027  | 6163999    | 49.207 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 98.41%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.902  | 4098461    | 48.595 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 97.19%       |
| 11) S ortho-Terphenyl (SURR)       | 11.972 | 7183345    | 47.120 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 94.24%       |

Target Compounds

-----

(f)=RT Delta > 1/2 Window

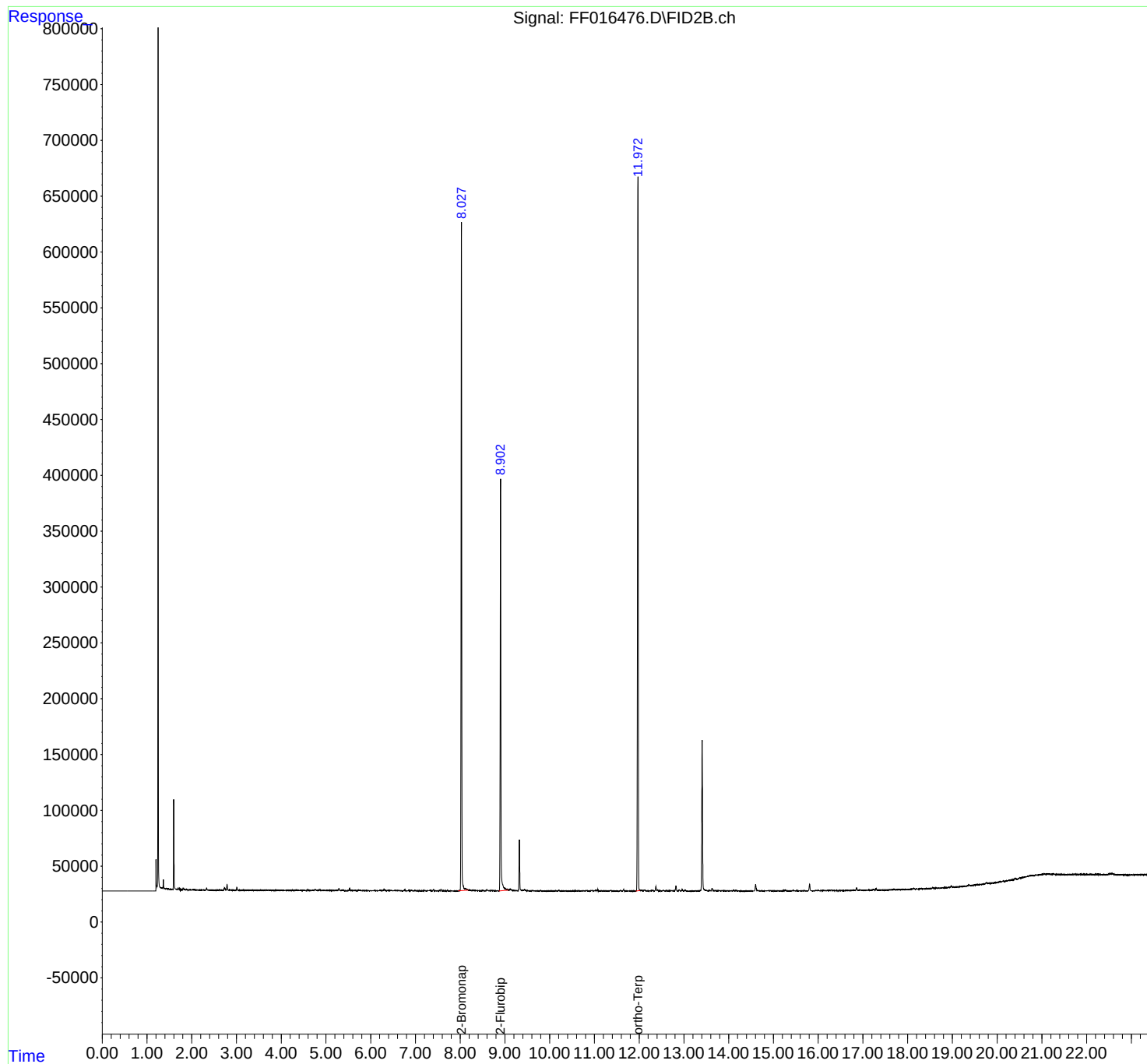
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016476.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 19:33  
Operator : YP\AJ  
Sample : Q3179-01  
Misc :  
ALS Vial : 87 Sample Multiplier: 1

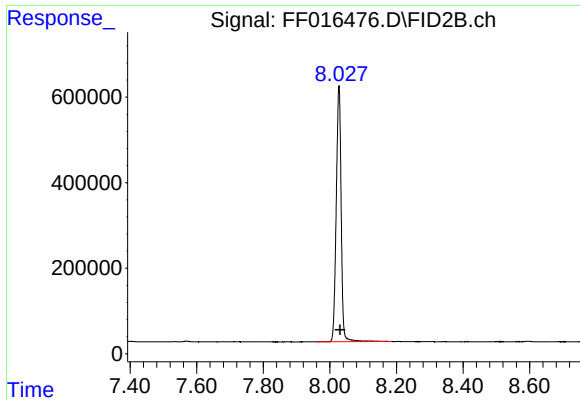
Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01

Integration File: autoint1.e  
Quant Time: Sep 30 01:05:56 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:24:48 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm



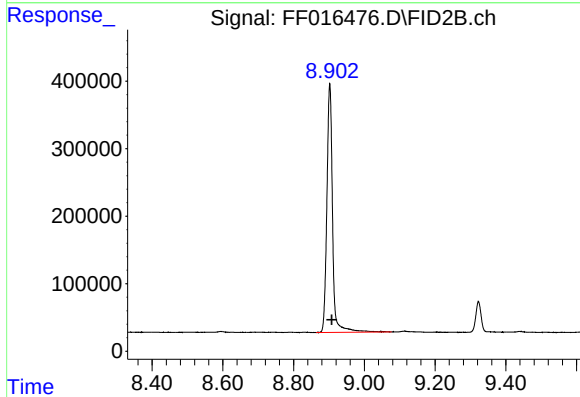




#4 2-Bromonaphthalene (SURRE)

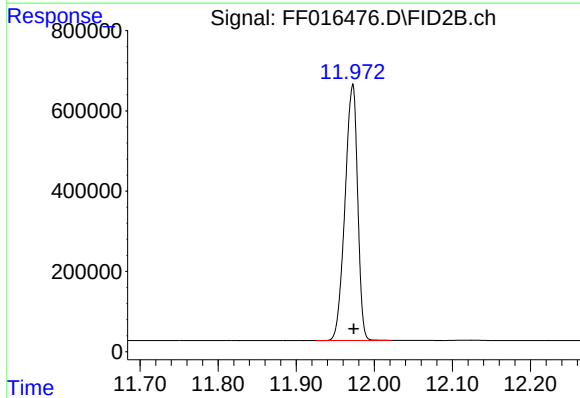
R.T.: 8.027 min  
Delta R.T.: -0.003 min  
Response: 6163999  
Conc: 49.21 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01



#6 2-Fluorobiphenyl (SURRE)

R.T.: 8.902 min  
Delta R.T.: -0.005 min  
Response: 4098461  
Conc: 48.59 ug/ml



#11 ortho-Terphenyl (SURRE)

R.T.: 11.972 min  
Delta R.T.: -0.002 min  
Response: 7183345  
Conc: 47.12 ug/ml

rteres

Area Percent

## Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016476.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 19:33  
 Sample : Q3179-01  
 Misc :  
 ALS Vial : 87 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH  
 092425.M  
 Title : GC Extractables

Signal : FID2B.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 4.450       | 4.424        | 4.481      | PV       | 169            | 2791         | 0.04%          | 0.012%        |
| 2         | 4.494       | 4.481        | 4.522      | VV       | 245            | 3122         | 0.04%          | 0.014%        |
| 3         | 4.584       | 4.556        | 4.606      | VV       | 603            | 7438         | 0.10%          | 0.033%        |
| 4         | 4.618       | 4.606        | 4.657      | VV       | 261            | 3369         | 0.05%          | 0.015%        |
| 5         | 4.694       | 4.676        | 4.725      | VV       | 345            | 6834         | 0.09%          | 0.031%        |
| 6         | 4.747       | 4.725        | 4.760      | VV       | 933            | 11849        | 0.16%          | 0.053%        |
| 7         | 4.772       | 4.760        | 4.797      | VV       | 752            | 9594         | 0.13%          | 0.043%        |
| 8         | 4.802       | 4.797        | 4.820      | VV       | 102            | 1522         | 0.02%          | 0.007%        |
| 9         | 4.837       | 4.820        | 4.851      | VV       | 538            | 5220         | 0.07%          | 0.023%        |
| 10        | 4.870       | 4.851        | 4.889      | VV       | 831            | 9129         | 0.13%          | 0.041%        |
| 11        | 4.945       | 4.904        | 4.966      | VV       | 256            | 5877         | 0.08%          | 0.026%        |
| 12        | 4.971       | 4.966        | 4.982      | VV       | 222            | 1661         | 0.02%          | 0.007%        |
| 13        | 4.997       | 4.982        | 5.021      | VV       | 331            | 4590         | 0.06%          | 0.021%        |
| 14        | 5.046       | 5.021        | 5.068      | VV       | 231            | 4309         | 0.06%          | 0.019%        |
| 15        | 5.085       | 5.068        | 5.121      | VV       | 289            | 4621         | 0.06%          | 0.021%        |
| 16        | 5.164       | 5.157        | 5.188      | VV       | 168            | 1991         | 0.03%          | 0.009%        |
| 17        | 5.201       | 5.188        | 5.206      | VV       | 182            | 1313         | 0.02%          | 0.006%        |
| 18        | 5.209       | 5.206        | 5.219      | VV       | 171            | 1126         | 0.02%          | 0.005%        |
| 19        | 5.230       | 5.219        | 5.243      | VV       | 147            | 1602         | 0.02%          | 0.007%        |
| 20        | 5.263       | 5.243        | 5.270      | VV       | 359            | 3537         | 0.05%          | 0.016%        |
| 21        | 5.290       | 5.270        | 5.317      | VV       | 2111           | 25980        | 0.36%          | 0.116%        |
| 22        | 5.352       | 5.328        | 5.366      | VV       | 500            | 6810         | 0.09%          | 0.030%        |
| 23        | 5.381       | 5.366        | 5.432      | VV       | 695            | 10177        | 0.14%          | 0.045%        |
| 24        | 5.456       | 5.448        | 5.484      | VV       | 132            | 1553         | 0.02%          | 0.007%        |
| 25        | 5.496       | 5.484        | 5.508      | VV       | 203            | 2045         | 0.03%          | 0.009%        |

|    |       |       |       | rteres |      |       |       |        |
|----|-------|-------|-------|--------|------|-------|-------|--------|
| 26 | 5.528 | 5.508 | 5.580 | VV     | 2451 | 30874 | 0.43% | 0.138% |
| 27 | 5.586 | 5.580 | 5.594 | VV     | 189  | 1486  | 0.02% | 0.007% |
| 28 | 5.598 | 5.594 | 5.611 | VV     | 189  | 1525  | 0.02% | 0.007% |
| 29 | 5.662 | 5.642 | 5.677 | VV     | 214  | 3023  | 0.04% | 0.014% |
| 30 | 5.693 | 5.677 | 5.704 | VV     | 214  | 2198  | 0.03% | 0.010% |
|    |       |       |       |        |      |       |       |        |
| 31 | 5.724 | 5.704 | 5.745 | VV     | 470  | 6146  | 0.09% | 0.027% |
| 32 | 5.772 | 5.745 | 5.796 | VV     | 737  | 11404 | 0.16% | 0.051% |
| 33 | 5.804 | 5.796 | 5.815 | VV     | 180  | 1729  | 0.02% | 0.008% |
| 34 | 5.834 | 5.815 | 5.840 | VV     | 276  | 2843  | 0.04% | 0.013% |
| 35 | 5.842 | 5.840 | 5.882 | VV     | 237  | 3150  | 0.04% | 0.014% |
|    |       |       |       |        |      |       |       |        |
| 36 | 5.887 | 5.882 | 5.897 | VV     | 147  | 1009  | 0.01% | 0.005% |
| 37 | 5.918 | 5.897 | 5.924 | VV     | 287  | 2910  | 0.04% | 0.013% |
| 38 | 5.927 | 5.924 | 5.944 | VV     | 202  | 1397  | 0.02% | 0.006% |
| 39 | 5.979 | 5.967 | 6.003 | PV     | 132  | 1746  | 0.02% | 0.008% |
| 40 | 6.020 | 6.003 | 6.033 | VV     | 193  | 1972  | 0.03% | 0.009% |
|    |       |       |       |        |      |       |       |        |
| 41 | 6.038 | 6.033 | 6.066 | VV     | 182  | 2007  | 0.03% | 0.009% |
| 42 | 6.074 | 6.066 | 6.100 | VV     | 282  | 3734  | 0.05% | 0.017% |
| 43 | 6.110 | 6.100 | 6.162 | VV     | 204  | 4117  | 0.06% | 0.018% |
| 44 | 6.171 | 6.162 | 6.187 | VV     | 148  | 1629  | 0.02% | 0.007% |
| 45 | 6.209 | 6.192 | 6.247 | VV     | 534  | 9416  | 0.13% | 0.042% |
|    |       |       |       |        |      |       |       |        |
| 46 | 6.252 | 6.247 | 6.257 | VV     | 207  | 1123  | 0.02% | 0.005% |
| 47 | 6.260 | 6.257 | 6.273 | VV     | 211  | 1677  | 0.02% | 0.007% |
| 48 | 6.298 | 6.273 | 6.346 | VV     | 1796 | 28826 | 0.40% | 0.129% |
| 49 | 6.360 | 6.346 | 6.390 | VV     | 389  | 8131  | 0.11% | 0.036% |
| 50 | 6.407 | 6.390 | 6.435 | VV     | 581  | 9213  | 0.13% | 0.041% |
|    |       |       |       |        |      |       |       |        |
| 51 | 6.473 | 6.435 | 6.499 | VV     | 382  | 8994  | 0.12% | 0.040% |
| 52 | 6.504 | 6.499 | 6.510 | VV     | 172  | 1045  | 0.01% | 0.005% |
| 53 | 6.547 | 6.510 | 6.578 | VV     | 436  | 11282 | 0.16% | 0.050% |
| 54 | 6.601 | 6.578 | 6.620 | VV     | 417  | 6622  | 0.09% | 0.030% |
| 55 | 6.624 | 6.620 | 6.629 | VV     | 238  | 1188  | 0.02% | 0.005% |
|    |       |       |       |        |      |       |       |        |
| 56 | 6.637 | 6.629 | 6.657 | VV     | 247  | 3416  | 0.05% | 0.015% |
| 57 | 6.664 | 6.657 | 6.670 | VV     | 227  | 1458  | 0.02% | 0.007% |
| 58 | 6.674 | 6.670 | 6.694 | VV     | 226  | 2560  | 0.04% | 0.011% |
| 59 | 6.700 | 6.694 | 6.710 | VV     | 163  | 1587  | 0.02% | 0.007% |
| 60 | 6.762 | 6.710 | 6.800 | VV     | 1453 | 22757 | 0.32% | 0.102% |
|    |       |       |       |        |      |       |       |        |
| 61 | 6.807 | 6.800 | 6.812 | VV     | 217  | 1370  | 0.02% | 0.006% |
| 62 | 6.816 | 6.812 | 6.834 | VV     | 210  | 2522  | 0.04% | 0.011% |
| 63 | 6.849 | 6.834 | 6.864 | VV     | 501  | 5973  | 0.08% | 0.027% |
| 64 | 6.886 | 6.864 | 6.899 | VV     | 377  | 5281  | 0.07% | 0.024% |
| 65 | 6.916 | 6.899 | 6.940 | VV     | 732  | 9032  | 0.13% | 0.040% |
|    |       |       |       |        |      |       |       |        |
| 66 | 6.953 | 6.940 | 6.972 | VV     | 260  | 3442  | 0.05% | 0.015% |
| 67 | 6.991 | 6.972 | 7.015 | VV     | 595  | 7749  | 0.11% | 0.035% |
| 68 | 7.023 | 7.015 | 7.033 | VV     | 208  | 1738  | 0.02% | 0.008% |
| 69 | 7.054 | 7.033 | 7.074 | VV     | 345  | 4983  | 0.07% | 0.022% |

|     |       |       |       |        |        |         |        |         |
|-----|-------|-------|-------|--------|--------|---------|--------|---------|
|     |       |       |       | rteres |        |         |        |         |
| 70  | 7.078 | 7.074 | 7.095 | VV     | 182    | 1989    | 0.03%  | 0.009%  |
| 71  | 7.101 | 7.095 | 7.115 | VV     | 141    | 1265    | 0.02%  | 0.006%  |
| 72  | 7.123 | 7.115 | 7.137 | VV     | 120    | 1419    | 0.02%  | 0.006%  |
| 73  | 7.162 | 7.137 | 7.180 | VV     | 215    | 3752    | 0.05%  | 0.017%  |
| 74  | 7.216 | 7.180 | 7.255 | VV     | 539    | 10706   | 0.15%  | 0.048%  |
| 75  | 7.273 | 7.255 | 7.301 | VV     | 584    | 9371    | 0.13%  | 0.042%  |
| 76  | 7.326 | 7.301 | 7.373 | VV     | 899    | 18228   | 0.25%  | 0.081%  |
| 77  | 7.402 | 7.373 | 7.446 | VV     | 1273   | 22921   | 0.32%  | 0.102%  |
| 78  | 7.465 | 7.446 | 7.475 | VV     | 266    | 3720    | 0.05%  | 0.017%  |
| 79  | 7.501 | 7.475 | 7.520 | VV     | 274    | 6059    | 0.08%  | 0.027%  |
| 80  | 7.535 | 7.520 | 7.549 | VV     | 534    | 5975    | 0.08%  | 0.027%  |
| 81  | 7.569 | 7.549 | 7.610 | VV     | 1742   | 22794   | 0.32%  | 0.102%  |
| 82  | 7.630 | 7.610 | 7.640 | VV     | 389    | 5028    | 0.07%  | 0.022%  |
| 83  | 7.648 | 7.640 | 7.665 | VV     | 390    | 4140    | 0.06%  | 0.019%  |
| 84  | 7.678 | 7.665 | 7.690 | VV     | 381    | 3979    | 0.06%  | 0.018%  |
| 85  | 7.713 | 7.690 | 7.731 | VV     | 500    | 7365    | 0.10%  | 0.033%  |
| 86  | 7.751 | 7.731 | 7.761 | VV     | 260    | 3448    | 0.05%  | 0.015%  |
| 87  | 7.780 | 7.761 | 7.795 | VV     | 432    | 6828    | 0.09%  | 0.031%  |
| 88  | 7.805 | 7.795 | 7.855 | VV     | 430    | 7684    | 0.11%  | 0.034%  |
| 89  | 7.875 | 7.855 | 7.888 | PV     | 283    | 3313    | 0.05%  | 0.015%  |
| 90  | 7.949 | 7.907 | 7.962 | VV     | 330    | 6962    | 0.10%  | 0.031%  |
| 91  | 7.980 | 7.962 | 7.992 | VV     | 727    | 8730    | 0.12%  | 0.039%  |
| 92  | 8.027 | 7.992 | 8.109 | VV     | 599497 | 6160709 | 85.50% | 27.544% |
| 93  | 8.117 | 8.109 | 8.195 | VV     | 2118   | 79020   | 1.10%  | 0.353%  |
| 94  | 8.205 | 8.195 | 8.228 | VV     | 1018   | 16897   | 0.23%  | 0.076%  |
| 95  | 8.232 | 8.228 | 8.264 | VV     | 725    | 12987   | 0.18%  | 0.058%  |
| 96  | 8.290 | 8.264 | 8.332 | VV     | 818    | 22817   | 0.32%  | 0.102%  |
| 97  | 8.342 | 8.332 | 8.374 | VV     | 575    | 11011   | 0.15%  | 0.049%  |
| 98  | 8.397 | 8.374 | 8.442 | VV     | 539    | 16546   | 0.23%  | 0.074%  |
| 99  | 8.447 | 8.442 | 8.470 | VV     | 384    | 5196    | 0.07%  | 0.023%  |
| 100 | 8.503 | 8.470 | 8.534 | VV     | 532    | 15919   | 0.22%  | 0.071%  |
| 101 | 8.557 | 8.534 | 8.573 | VV     | 493    | 10068   | 0.14%  | 0.045%  |
| 102 | 8.595 | 8.573 | 8.641 | VV     | 1587   | 28507   | 0.40%  | 0.127%  |
| 103 | 8.650 | 8.641 | 8.655 | VV     | 347    | 2670    | 0.04%  | 0.012%  |
| 104 | 8.657 | 8.655 | 8.661 | VV     | 353    | 1122    | 0.02%  | 0.005%  |
| 105 | 8.692 | 8.661 | 8.725 | VV     | 577    | 15963   | 0.22%  | 0.071%  |
| 106 | 8.747 | 8.725 | 8.771 | VV     | 467    | 8771    | 0.12%  | 0.039%  |
| 107 | 8.788 | 8.771 | 8.815 | VV     | 424    | 7368    | 0.10%  | 0.033%  |
| 108 | 8.830 | 8.815 | 8.869 | VV     | 497    | 7782    | 0.11%  | 0.035%  |
| 109 | 8.902 | 8.869 | 9.044 | VV     | 368734 | 4141252 | 57.47% | 18.515% |
| 110 | 9.050 | 9.044 | 9.077 | VV     | 1361   | 24462   | 0.34%  | 0.109%  |
| 111 | 9.080 | 9.077 | 9.093 | VV     | 1062   | 9546    | 0.13%  | 0.043%  |
| 112 | 9.114 | 9.093 | 9.178 | VV     | 2123   | 59783   | 0.83%  | 0.267%  |

|     |        |        |        |        |       |        |       |        |
|-----|--------|--------|--------|--------|-------|--------|-------|--------|
|     |        |        |        | rteres |       |        |       |        |
| 113 | 9.197  | 9.178  | 9.232  | VV     | 625   | 15217  | 0.21% | 0.068% |
| 114 | 9.257  | 9.232  | 9.272  | VV     | 575   | 10921  | 0.15% | 0.049% |
| 115 | 9.323  | 9.272  | 9.390  | VV     | 46146 | 508676 | 7.06% | 2.274% |
| 116 | 9.402  | 9.390  | 9.413  | VV     | 797   | 9838   | 0.14% | 0.044% |
| 117 | 9.439  | 9.413  | 9.469  | VV     | 1722  | 31885  | 0.44% | 0.143% |
| 118 | 9.476  | 9.469  | 9.495  | VV     | 568   | 6836   | 0.09% | 0.031% |
| 119 | 9.514  | 9.495  | 9.536  | VV     | 574   | 9262   | 0.13% | 0.041% |
| 120 | 9.560  | 9.536  | 9.584  | VV     | 437   | 7543   | 0.10% | 0.034% |
| 121 | 9.609  | 9.584  | 9.631  | VV     | 645   | 11993  | 0.17% | 0.054% |
| 122 | 9.646  | 9.631  | 9.690  | VV     | 396   | 8978   | 0.12% | 0.040% |
| 123 | 9.714  | 9.690  | 9.759  | VV     | 410   | 10097  | 0.14% | 0.045% |
| 124 | 9.792  | 9.769  | 9.838  | VV     | 748   | 13394  | 0.19% | 0.060% |
| 125 | 9.868  | 9.838  | 9.905  | VV     | 414   | 8131   | 0.11% | 0.036% |
| 126 | 9.935  | 9.905  | 9.957  | VV     | 347   | 5983   | 0.08% | 0.027% |
| 127 | 9.977  | 9.957  | 10.017 | VV     | 215   | 6074   | 0.08% | 0.027% |
| 128 | 10.040 | 10.017 | 10.060 | VV     | 583   | 7387   | 0.10% | 0.033% |
| 129 | 10.074 | 10.060 | 10.095 | VV     | 170   | 2383   | 0.03% | 0.011% |
| 130 | 10.125 | 10.095 | 10.155 | VV     | 535   | 9452   | 0.13% | 0.042% |
| 131 | 10.160 | 10.155 | 10.179 | VV     | 206   | 2126   | 0.03% | 0.010% |
| 132 | 10.204 | 10.179 | 10.255 | VV     | 1069  | 17133  | 0.24% | 0.077% |
| 133 | 10.277 | 10.255 | 10.287 | VV     | 276   | 3878   | 0.05% | 0.017% |
| 134 | 10.291 | 10.287 | 10.295 | VV     | 271   | 1080   | 0.01% | 0.005% |
| 135 | 10.304 | 10.295 | 10.329 | VV     | 259   | 4202   | 0.06% | 0.019% |
| 136 | 10.335 | 10.329 | 10.344 | VV     | 171   | 1077   | 0.01% | 0.005% |
| 137 | 10.379 | 10.344 | 10.396 | VV     | 215   | 4454   | 0.06% | 0.020% |
| 138 | 10.432 | 10.396 | 10.472 | VV     | 298   | 7402   | 0.10% | 0.033% |
| 139 | 10.481 | 10.472 | 10.498 | VV     | 181   | 2099   | 0.03% | 0.009% |
| 140 | 10.530 | 10.498 | 10.552 | VV     | 365   | 7769   | 0.11% | 0.035% |
| 141 | 10.559 | 10.552 | 10.585 | VV     | 323   | 4825   | 0.07% | 0.022% |
| 142 | 10.602 | 10.585 | 10.617 | VV     | 428   | 6153   | 0.09% | 0.028% |
| 143 | 10.636 | 10.617 | 10.659 | VV     | 414   | 7256   | 0.10% | 0.032% |
| 144 | 10.690 | 10.659 | 10.707 | VV     | 367   | 7596   | 0.11% | 0.034% |
| 145 | 10.724 | 10.707 | 10.742 | VV     | 632   | 8885   | 0.12% | 0.040% |
| 146 | 10.762 | 10.742 | 10.782 | VV     | 424   | 7244   | 0.10% | 0.032% |
| 147 | 10.829 | 10.782 | 10.864 | VV     | 497   | 17292  | 0.24% | 0.077% |
| 148 | 10.895 | 10.864 | 10.914 | VV     | 418   | 10290  | 0.14% | 0.046% |
| 149 | 10.960 | 10.914 | 10.981 | VV     | 484   | 14706  | 0.20% | 0.066% |
| 150 | 11.003 | 10.981 | 11.012 | VV     | 402   | 5758   | 0.08% | 0.026% |
| 151 | 11.043 | 11.012 | 11.054 | VV     | 681   | 13105  | 0.18% | 0.059% |
| 152 | 11.076 | 11.054 | 11.114 | VV     | 1302  | 19377  | 0.27% | 0.087% |
| 153 | 11.136 | 11.114 | 11.151 | VV     | 329   | 6174   | 0.09% | 0.028% |
| 154 | 11.165 | 11.151 | 11.184 | VV     | 302   | 4616   | 0.06% | 0.021% |
| 155 | 11.204 | 11.184 | 11.250 | VV     | 363   | 10841  | 0.15% | 0.048% |

|     |        |        |        | rteres |        |         |         |         |
|-----|--------|--------|--------|--------|--------|---------|---------|---------|
| 156 | 11.266 | 11.250 | 11.301 | VV     | 269    | 7186    | 0.10%   | 0.032%  |
| 157 | 11.316 | 11.301 | 11.325 | VV     | 226    | 2905    | 0.04%   | 0.013%  |
| 158 | 11.364 | 11.325 | 11.425 | VV     | 571    | 17895   | 0.25%   | 0.080%  |
| 159 | 11.458 | 11.425 | 11.494 | VV     | 209    | 4978    | 0.07%   | 0.022%  |
| 160 | 11.510 | 11.494 | 11.526 | PV     | 160    | 1969    | 0.03%   | 0.009%  |
| 161 | 11.582 | 11.526 | 11.610 | VV     | 914    | 14288   | 0.20%   | 0.064%  |
| 162 | 11.651 | 11.610 | 11.678 | VV     | 1570   | 22989   | 0.32%   | 0.103%  |
| 163 | 11.727 | 11.678 | 11.769 | VV     | 289    | 10206   | 0.14%   | 0.046%  |
| 164 | 11.781 | 11.769 | 11.797 | VV     | 192    | 2578    | 0.04%   | 0.012%  |
| 165 | 11.808 | 11.797 | 11.828 | VV     | 153    | 2302    | 0.03%   | 0.010%  |
| 166 | 11.843 | 11.828 | 11.854 | VV     | 123    | 1412    | 0.02%   | 0.006%  |
| 167 | 11.870 | 11.854 | 11.886 | VV     | 146    | 1699    | 0.02%   | 0.008%  |
| 168 | 11.895 | 11.886 | 11.909 | VV     | 109    | 1048    | 0.01%   | 0.005%  |
| 169 | 11.972 | 11.925 | 12.027 | VV     | 638159 | 7205718 | 100.00% | 32.216% |
| 170 | 12.039 | 12.027 | 12.089 | VV     | 747    | 21495   | 0.30%   | 0.096%  |
| 171 | 12.113 | 12.089 | 12.166 | VV     | 1076   | 28733   | 0.40%   | 0.128%  |
| 172 | 12.179 | 12.166 | 12.205 | VV     | 261    | 5043    | 0.07%   | 0.023%  |
| 173 | 12.218 | 12.205 | 12.232 | VV     | 252    | 3374    | 0.05%   | 0.015%  |
| 174 | 12.246 | 12.232 | 12.262 | VV     | 272    | 4430    | 0.06%   | 0.020%  |
| 175 | 12.311 | 12.262 | 12.337 | VV     | 654    | 20208   | 0.28%   | 0.090%  |
| 176 | 12.373 | 12.337 | 12.397 | VV     | 4229   | 57770   | 0.80%   | 0.258%  |
| 177 | 12.412 | 12.397 | 12.440 | VV     | 1410   | 20327   | 0.28%   | 0.091%  |
| 178 | 12.456 | 12.440 | 12.472 | VV     | 356    | 6635    | 0.09%   | 0.030%  |
| 179 | 12.481 | 12.472 | 12.500 | VV     | 383    | 5457    | 0.08%   | 0.024%  |
| 180 | 12.542 | 12.500 | 12.576 | VV     | 775    | 19654   | 0.27%   | 0.088%  |
| 181 | 12.611 | 12.576 | 12.650 | VV     | 439    | 14395   | 0.20%   | 0.064%  |
| 182 | 12.661 | 12.650 | 12.677 | VV     | 315    | 4969    | 0.07%   | 0.022%  |
| 183 | 12.698 | 12.677 | 12.720 | VV     | 492    | 10241   | 0.14%   | 0.046%  |
| 184 | 12.732 | 12.720 | 12.765 | VV     | 427    | 10854   | 0.15%   | 0.049%  |
| 185 | 12.773 | 12.765 | 12.785 | VV     | 414    | 4219    | 0.06%   | 0.019%  |
| 186 | 12.823 | 12.785 | 12.854 | VV     | 4831   | 70957   | 0.98%   | 0.317%  |
| 187 | 12.900 | 12.854 | 12.932 | VV     | 1298   | 24675   | 0.34%   | 0.110%  |
| 188 | 12.962 | 12.932 | 12.995 | VV     | 1574   | 23452   | 0.33%   | 0.105%  |
| 189 | 13.026 | 12.995 | 13.067 | VV     | 707    | 15061   | 0.21%   | 0.067%  |
| 190 | 13.090 | 13.067 | 13.119 | VV     | 247    | 4567    | 0.06%   | 0.020%  |
| 191 | 13.147 | 13.119 | 13.154 | VV     | 109    | 1330    | 0.02%   | 0.006%  |
| 192 | 13.239 | 13.154 | 13.284 | PV     | 425    | 14033   | 0.19%   | 0.063%  |
| 193 | 13.287 | 13.284 | 13.300 | VV     | 190    | 1489    | 0.02%   | 0.007%  |
| 194 | 13.325 | 13.300 | 13.349 | VV     | 358    | 7972    | 0.11%   | 0.036%  |
| 195 | 13.408 | 13.349 | 13.554 | VV     | 135136 | 1727670 | 23.98%  | 7.724%  |
| 196 | 13.577 | 13.554 | 13.607 | VV     | 546    | 13776   | 0.19%   | 0.062%  |
| 197 | 13.630 | 13.607 | 13.670 | VV     | 2505   | 40724   | 0.57%   | 0.182%  |
| 198 | 13.693 | 13.670 | 13.755 | VV     | 453    | 16500   | 0.23%   | 0.074%  |
| 199 | 13.793 | 13.755 | 13.818 | VV     | 460    | 13157   | 0.18%   | 0.059%  |

|     |        |        |        |        |      |        |       |        |
|-----|--------|--------|--------|--------|------|--------|-------|--------|
|     |        |        |        | rteres |      |        |       |        |
| 200 | 13.870 | 13.818 | 13.893 | VV     | 491  | 16776  | 0.23% | 0.075% |
| 201 | 13.919 | 13.893 | 13.935 | VV     | 378  | 7226   | 0.10% | 0.032% |
| 202 | 13.954 | 13.935 | 13.962 | VV     | 358  | 4593   | 0.06% | 0.021% |
| 203 | 13.969 | 13.962 | 13.976 | VV     | 317  | 2566   | 0.04% | 0.011% |
| 204 | 13.982 | 13.976 | 14.004 | VV     | 326  | 4543   | 0.06% | 0.020% |
| 205 | 14.033 | 14.004 | 14.065 | VV     | 392  | 10409  | 0.14% | 0.047% |
| 206 | 14.073 | 14.065 | 14.080 | VV     | 246  | 1770   | 0.02% | 0.008% |
| 207 | 14.111 | 14.080 | 14.140 | VV     | 1018 | 16719  | 0.23% | 0.075% |
| 208 | 14.163 | 14.140 | 14.207 | VV     | 1005 | 17264  | 0.24% | 0.077% |
| 209 | 14.220 | 14.207 | 14.267 | VV     | 196  | 4048   | 0.06% | 0.018% |
| 210 | 14.290 | 14.267 | 14.325 | VV     | 116  | 2016   | 0.03% | 0.009% |
| 211 | 14.403 | 14.350 | 14.429 | PV     | 129  | 4368   | 0.06% | 0.020% |
| 212 | 14.439 | 14.429 | 14.452 | VV     | 149  | 1438   | 0.02% | 0.006% |
| 213 | 14.458 | 14.452 | 14.539 | VV     | 171  | 5367   | 0.07% | 0.024% |
| 214 | 14.602 | 14.539 | 14.715 | VV     | 5893 | 109262 | 1.52% | 0.489% |
| 215 | 14.729 | 14.715 | 14.767 | VV     | 385  | 6945   | 0.10% | 0.031% |
| 216 | 14.828 | 14.767 | 14.864 | VV     | 359  | 15234  | 0.21% | 0.068% |
| 217 | 14.878 | 14.864 | 14.919 | VV     | 357  | 9310   | 0.13% | 0.042% |
| 218 | 14.936 | 14.919 | 14.965 | VV     | 407  | 8103   | 0.11% | 0.036% |
| 219 | 14.986 | 14.965 | 14.997 | VV     | 233  | 4042   | 0.06% | 0.018% |
| 220 | 15.043 | 14.997 | 15.064 | VV     | 334  | 8640   | 0.12% | 0.039% |
| 221 | 15.079 | 15.064 | 15.134 | VV     | 293  | 8153   | 0.11% | 0.036% |
| 222 | 15.151 | 15.134 | 15.183 | VV     | 187  | 2682   | 0.04% | 0.012% |
| 223 | 15.225 | 15.183 | 15.245 | VV     | 582  | 11393  | 0.16% | 0.051% |
| 224 | 15.269 | 15.245 | 15.342 | VV     | 1005 | 20696  | 0.29% | 0.093% |
| 225 | 15.370 | 15.342 | 15.397 | PV     | 152  | 2900   | 0.04% | 0.013% |
| 226 | 15.440 | 15.397 | 15.495 | VV     | 738  | 15350  | 0.21% | 0.069% |
| 227 | 15.513 | 15.495 | 15.542 | VV     | 260  | 4294   | 0.06% | 0.019% |
| 228 | 15.572 | 15.542 | 15.610 | VV     | 210  | 4831   | 0.07% | 0.022% |
| 229 | 15.641 | 15.610 | 15.669 | VV     | 234  | 4902   | 0.07% | 0.022% |
| 230 | 15.690 | 15.669 | 15.738 | VV     | 301  | 6767   | 0.09% | 0.030% |
| 231 | 15.809 | 15.738 | 15.843 | VV     | 6166 | 88323  | 1.23% | 0.395% |
| 232 | 15.851 | 15.843 | 15.884 | VV     | 151  | 2899   | 0.04% | 0.013% |
| 233 | 15.903 | 15.884 | 15.919 | VV     | 154  | 2163   | 0.03% | 0.010% |
| 234 | 15.938 | 15.919 | 15.961 | VV     | 175  | 3663   | 0.05% | 0.016% |
| 235 | 16.001 | 15.961 | 16.052 | VV     | 400  | 9048   | 0.13% | 0.040% |
| 236 | 16.117 | 16.052 | 16.128 | VV     | 260  | 7427   | 0.10% | 0.033% |
| 237 | 16.153 | 16.128 | 16.169 | VV     | 246  | 5019   | 0.07% | 0.022% |
| 238 | 16.176 | 16.169 | 16.199 | VV     | 208  | 2400   | 0.03% | 0.011% |
| 239 | 16.217 | 16.199 | 16.231 | VV     | 229  | 3318   | 0.05% | 0.015% |
| 240 | 16.254 | 16.231 | 16.273 | VV     | 389  | 6997   | 0.10% | 0.031% |
| 241 | 16.294 | 16.273 | 16.321 | VV     | 766  | 12212  | 0.17% | 0.055% |
| 242 | 16.343 | 16.321 | 16.367 | VV     | 283  | 4628   | 0.06% | 0.021% |

| rteres                  |        |        |        |     |      |          |       |        |  |
|-------------------------|--------|--------|--------|-----|------|----------|-------|--------|--|
| 243                     | 16.405 | 16.367 | 16.420 | VV  | 181  | 3158     | 0.04% | 0.014% |  |
| 244                     | 16.441 | 16.420 | 16.455 | VV  | 178  | 2308     | 0.03% | 0.010% |  |
| 245                     | 16.485 | 16.455 | 16.527 | VV  | 121  | 2823     | 0.04% | 0.013% |  |
| 246                     | 16.589 | 16.527 | 16.603 | PV  | 91   | 1829     | 0.03% | 0.008% |  |
| 247                     | 16.640 | 16.603 | 16.649 | VV  | 151  | 2031     | 0.03% | 0.009% |  |
| 248                     | 16.676 | 16.649 | 16.695 | VV  | 133  | 2604     | 0.04% | 0.012% |  |
| 249                     | 16.704 | 16.695 | 16.738 | VV  | 67   | 1596     | 0.02% | 0.007% |  |
| 250                     | 16.780 | 16.738 | 16.834 | VV  | 457  | 9188     | 0.13% | 0.041% |  |
| 251                     | 16.860 | 16.834 | 16.895 | VV  | 2671 | 36769    | 0.51% | 0.164% |  |
| 252                     | 16.922 | 16.895 | 17.024 | VV  | 563  | 23821    | 0.33% | 0.107% |  |
| 253                     | 17.033 | 17.024 | 17.049 | VV  | 156  | 2247     | 0.03% | 0.010% |  |
| 254                     | 17.060 | 17.049 | 17.070 | VV  | 207  | 1791     | 0.02% | 0.008% |  |
| 255                     | 17.134 | 17.070 | 17.167 | VV  | 270  | 11620    | 0.16% | 0.052% |  |
| 256                     | 17.172 | 17.167 | 17.184 | VV  | 226  | 1920     | 0.03% | 0.009% |  |
| 257                     | 17.246 | 17.184 | 17.270 | VV  | 848  | 23540    | 0.33% | 0.105% |  |
| 258                     | 17.295 | 17.270 | 17.344 | VV  | 1601 | 26662    | 0.37% | 0.119% |  |
| 259                     | 17.362 | 17.344 | 17.397 | VV  | 183  | 3915     | 0.05% | 0.018% |  |
| 260                     | 17.409 | 17.397 | 17.463 | VV  | 192  | 3754     | 0.05% | 0.017% |  |
| 261                     | 17.481 | 17.463 | 17.507 | PV  | 142  | 2044     | 0.03% | 0.009% |  |
| 262                     | 17.529 | 17.507 | 17.545 | PV  | 150  | 2168     | 0.03% | 0.010% |  |
| 263                     | 17.576 | 17.545 | 17.601 | VV  | 312  | 6098     | 0.08% | 0.027% |  |
| 264                     | 17.698 | 17.601 | 17.737 | VV  | 662  | 16346    | 0.23% | 0.073% |  |
| 265                     | 17.792 | 17.737 | 17.834 | VV  | 286  | 8104     | 0.11% | 0.036% |  |
| 266                     | 17.842 | 17.834 | 17.855 | VV  | 84   | 1191     | 0.02% | 0.005% |  |
| 267                     | 17.907 | 17.855 | 17.916 | VV  | 131  | 3744     | 0.05% | 0.017% |  |
| 268                     | 17.934 | 17.916 | 17.974 | VV  | 148  | 2986     | 0.04% | 0.013% |  |
| 269                     | 17.987 | 17.974 | 18.002 | VV  | 117  | 1463     | 0.02% | 0.007% |  |
| 270                     | 18.009 | 18.002 | 18.024 | VV  | 125  | 1039     | 0.01% | 0.005% |  |
| 271                     | 18.136 | 18.024 | 18.174 | PV  | 994  | 22464    | 0.31% | 0.100% |  |
| 272                     | 18.191 | 18.174 | 18.229 | VV  | 156  | 2220     | 0.03% | 0.010% |  |
| 273                     | 18.306 | 18.229 | 18.332 | PV  | 256  | 6790     | 0.09% | 0.030% |  |
| 274                     | 18.372 | 18.332 | 18.385 | VV  | 78   | 2009     | 0.03% | 0.009% |  |
| 275                     | 18.418 | 18.385 | 18.444 | PV  | 324  | 6325     | 0.09% | 0.028% |  |
| 276                     | 18.488 | 18.444 | 18.495 | PV  | 84   | 1629     | 0.02% | 0.007% |  |
| 277                     | 18.526 | 18.495 | 18.534 | VV  | 112  | 1959     | 0.03% | 0.009% |  |
| 278                     | 18.561 | 18.534 | 18.605 | VV  | 952  | 16384    | 0.23% | 0.073% |  |
| 279                     | 18.662 | 18.605 | 18.684 | VV  | 158  | 5395     | 0.07% | 0.024% |  |
| 280                     | 18.696 | 18.684 | 18.730 | VV  | 150  | 2108     | 0.03% | 0.009% |  |
| 281                     | 18.787 | 18.730 | 18.799 | PV  | 123  | 1687     | 0.02% | 0.008% |  |
| 282                     | 18.828 | 18.799 | 18.850 | VBA | 83   | 2055     | 0.03% | 0.009% |  |
| Sum of corrected areas: |        |        |        |     |      | 22366622 |       |        |  |



## Report of Analysis

|                    |                        |           |                 |       |    |
|--------------------|------------------------|-----------|-----------------|-------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: |       |    |
| Project:           | RFP 916                |           | Date Received:  |       |    |
| Client Sample ID:  | PB169879TB             |           | SDG No.:        | Q3179 |    |
| Lab Sample ID:     | PB169879TB             |           | Matrix:         | water |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0     |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000  | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH   |    |
| Prep Method :      | SW3510                 |           |                 |       |    |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE056075.D | 1         |             | 09/30/25        | FE092925AL    |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C12  | Aliphatic C9-C12          | 8.28  | U         | 8.28     | 30.0       | ug/l    |
| Aliphatic C12-C16 | Aliphatic C12-C16         | 13.5  | U         | 13.5     | 20.0       | ug/l    |
| Aliphatic C16-C21 | Aliphatic C16-C21         | 8.34  | U         | 8.34     | 30.0       | ug/l    |
| Aliphatic C21-C28 | Aliphatic C21-C28         | 12.5  | U         | 12.5     | 40.0       | ug/l    |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 23.8  | U         | 23.8     | 60.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 33.6  |           | 40 - 140 | 67%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 0.00  |           | 40 - 140 | 0%         | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | PB169879TB | Acq On:            | 30 Sep 2025 07:06 |
| Client Sample ID: | PB169879TB | Operator:          | YP\AJ             |
| Data file:        | FE056075.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 44                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc  | highest_standard | Units |
|---------------------------|--------|--------|----------|-------|------------------|-------|
| Aliphatic C9-C12          | 3.315  | 6.946  | 0        | 0     | 300              | ug/ml |
| Aliphatic C12-C16         | 6.947  | 10.396 | 0        | 0     | 200              | ug/ml |
| Aliphatic C16-C21         | 10.397 | 13.773 | 0        | 0     | 300              | ug/ml |
| Aliphatic C21-C28         | 13.774 | 17.443 | 0        | 0     | 400              | ug/ml |
| Aliphatic C28-C40         | 17.444 | 22.449 | 0        | 0     | 600              | ug/ml |
| Aliphatic EPH             | 3.315  | 22.449 | 0        | 0     |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 0.000  | 0.000  | 0        | 0     |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.511 | 13.511 | 4690622  | 33.61 |                  | ug/ml |
| Aliphatic C9-C28          | 3.315  | 17.443 | 0        | 0     | 1200             | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056075.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 07:06  
Operator : YP\AJ  
Sample : PB169879TB  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
PB169879TB

Integration File: autoint1.e  
Quant Time: Sep 30 08:10:21 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units   |
|--------------------------------|--------|------------|--------------|
| -----                          |        |            |              |
| System Monitoring Compounds    |        |            |              |
| 12) S 1-chlorooctadecane (S... | 13.511 | 4690622    | 33.609 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 67.22%       |

Target Compounds

-----

(f)=RT Delta > 1/2 Window

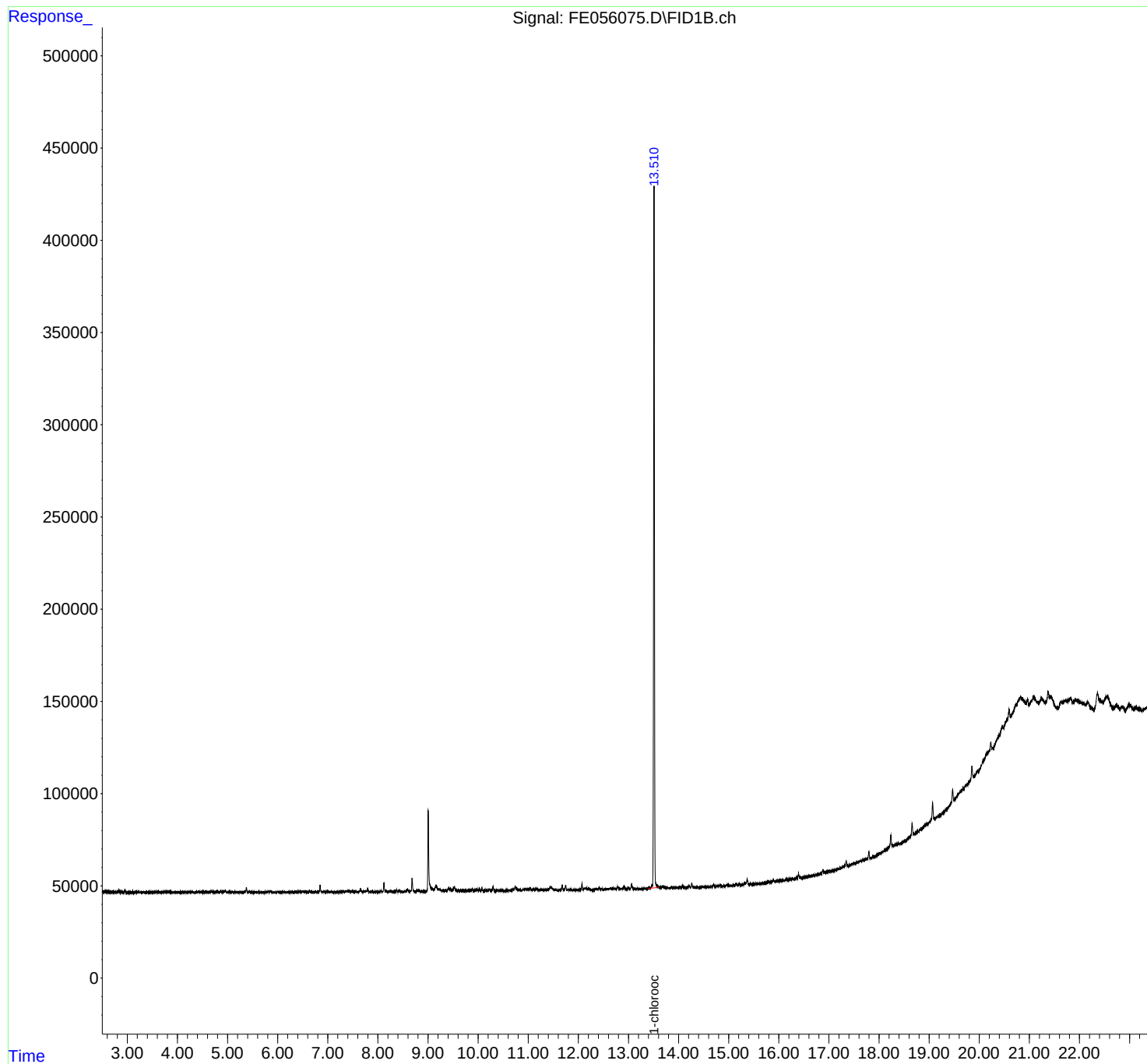
(m)=manual int.

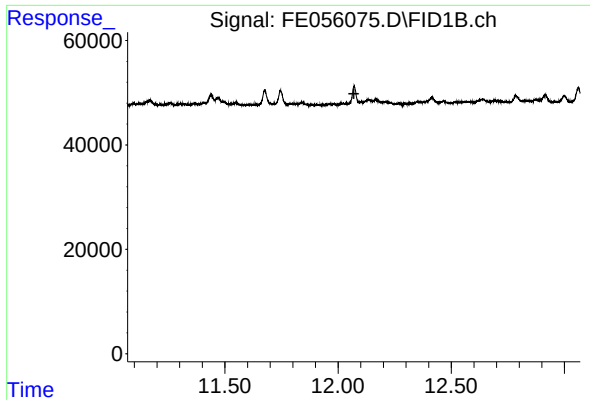
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056075.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 07:06  
Operator : YP\AJ  
Sample : PB169879TB  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
PB169879TB

Integration File: autoint1.e  
Quant Time: Sep 30 08:10:21 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

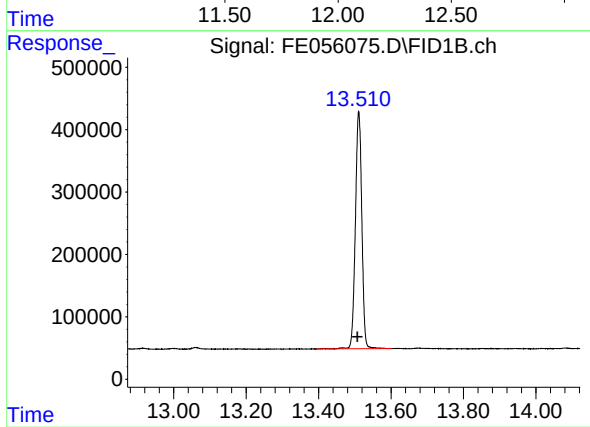




#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min  
Exp R.T.: 12.070 min  
Response: 0  
Conc: N.D.

Instrument :  
FID\_E  
ClientSampleId :  
PB169879TB



#12 1-chlorooctadecane (SURR)

R.T.: 13.511 min  
Delta R.T.: 0.004 min  
Response: 4690622  
Conc: 33.61 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056075.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 07:06  
Sample : PB169879TB  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 13.511      | 13.393       | 13.602     | BB       | 380082         | 4690622      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 4690622      |                |               |

Aliphatic EPH 092425.M Tue Sep 30 08:14:46 2025

## Report of Analysis

|                    |                        |           |                 |         |
|--------------------|------------------------|-----------|-----------------|---------|
| Client:            | Weston Solutions, Inc. |           | Date Collected: |         |
| Project:           | RFP 916                |           | Date Received:  |         |
| Client Sample ID:  | PB169879TB             |           | SDG No.:        | Q3179   |
| Lab Sample ID:     | PB169879TB             |           | Matrix:         | water   |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0       |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000 uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH     |
| Prep Method :      | SW3510                 |           |                 |         |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FF016472.D | 1         |             | 09/29/25        | FF092925AR    |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aromatic C10-C12  | Aromatic C10-C12          | 2.07  | U         | 2.07     | 20.0       | ug/l    |
| Aromatic C12-C16  | Aromatic C12-C16          | 4.26  | U         | 4.26     | 30.0       | ug/l    |
| Aromatic C16-C21  | Aromatic C16-C21          | 8.27  | U         | 8.27     | 50.0       | ug/l    |
| Aromatic C21-C36  | Aromatic C21-C36          | 23.8  | U         | 23.8     | 80.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 580-13-2          | 2-Bromonaphthalene (SURR) | 48.0  |           | 40 - 140 | 96%        | SPK: 50 |
| 321-60-8          | 2-Fluorobiphenyl (SURR)   | 43.2  |           | 40 - 140 | 86%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 38.9  |           | 40 - 140 | 78%        | SPK: 50 |

## Quantitation Report For Aromatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | PB169879TB | Acq On:            | 29 Sep 2025 17:35 |
| Client Sample ID: | PB169879TB | Operator:          | YP\AJ             |
| Data file:        | FF016472.D | Misc:              |                   |
| Instrument:       | FID_F      | ALS Vial:          | 83                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc  | highest_standard | Units |
|---------------------------|--------|--------|----------|-------|------------------|-------|
| Aromatic C10-C12          | 4.521  | 6.397  | 0        | 0     | 200              | ug/ml |
| Aromatic C12-C16          | 6.398  | 9.101  | 0        | 0     | 300              | ug/ml |
| Aromatic C16-C21          | 9.102  | 13.420 | 0        | 0     | 500              | ug/ml |
| Aromatic C21-C36          | 13.421 | 18.876 | 0        | 0     | 800              | ug/ml |
| Aromatic EPH              | 4.521  | 18.876 | 0        | 0     |                  | ug/ml |
| 2-Bromonaphthalene (SURR) | 8.027  | 8.027  | 6015712  | 48.02 |                  | ug/ml |
| 2-Fluorobiphenyl (SURR)   | 8.902  | 8.902  | 3646317  | 43.23 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.971 | 11.971 | 5934502  | 38.93 |                  | ug/ml |



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016472.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 17:35  
 Operator : YP\AJ  
 Sample : PB169879TB  
 Misc :  
 ALS Vial : 83 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 PB169879TB

Integration File: autoint1.e  
 Quant Time: Sep 30 01:04:35 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.027  | 6015712    | 48.023 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 96.05%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.902  | 3646317    | 43.234 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 86.47%       |
| 11) S ortho-Terphenyl (SURR)       | 11.971 | 5934502    | 38.928 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 77.86%       |

Target Compounds

-----

(f)=RT Delta > 1/2 Window

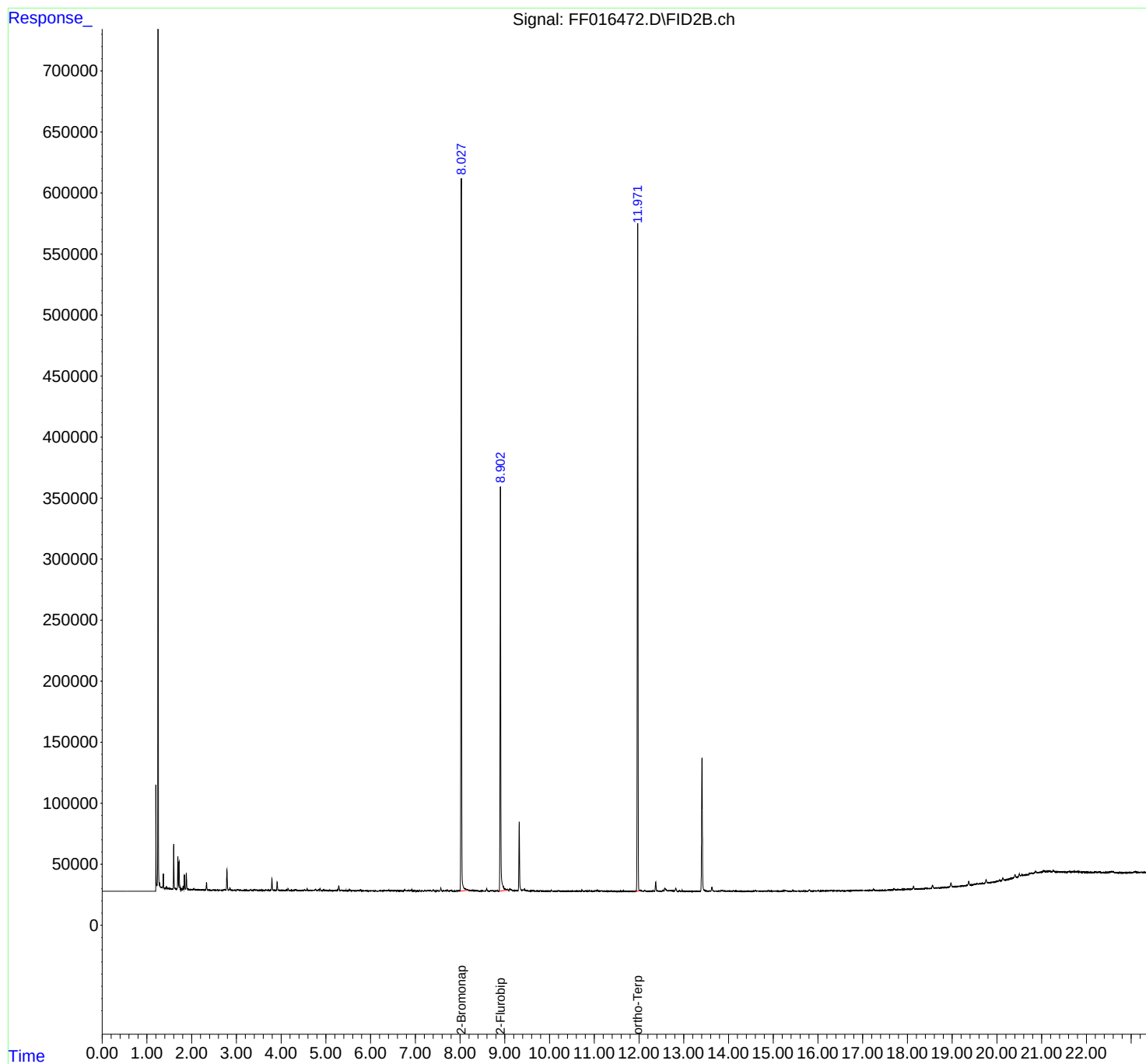
(m)=manual int.

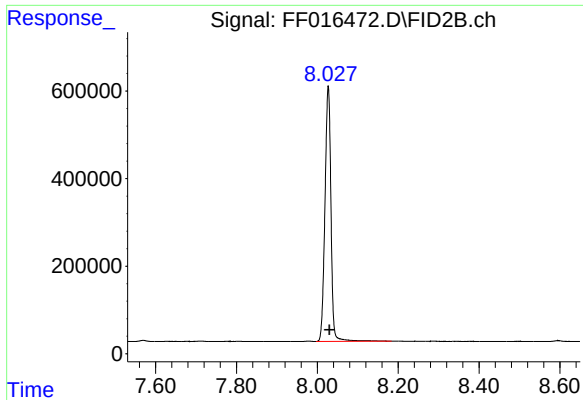
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016472.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 17:35  
Operator : YP\AJ  
Sample : PB169879TB  
Misc :  
ALS Vial : 83 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
PB169879TB

Integration File: autoint1.e  
Quant Time: Sep 30 01:04:35 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:24:48 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

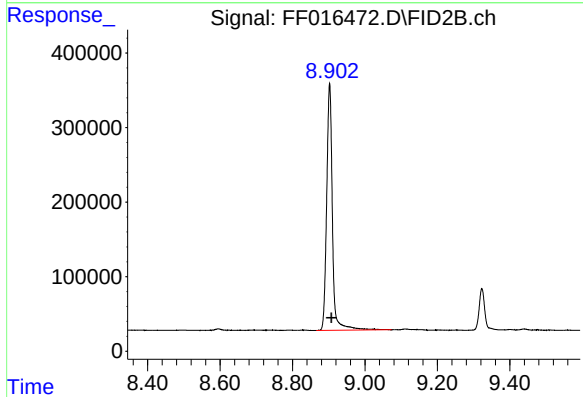




#4 2-Bromonaphthalene (SURRE)

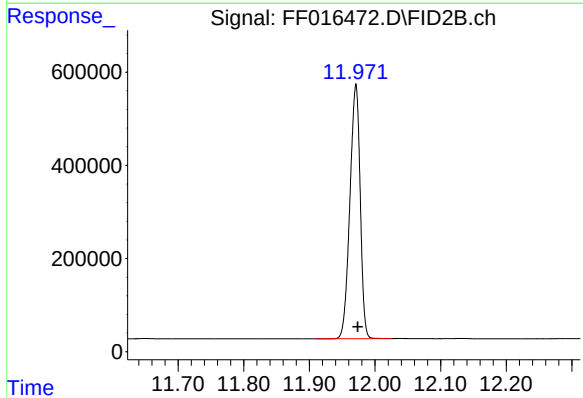
R.T.: 8.027 min  
Delta R.T.: -0.004 min  
Response: 6015712  
Conc: 48.02 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB169879TB



#6 2-Fluorobiphenyl (SURRE)

R.T.: 8.902 min  
Delta R.T.: -0.005 min  
Response: 3646317  
Conc: 43.23 ug/ml



#11 ortho-Terphenyl (SURRE)

R.T.: 11.971 min  
Delta R.T.: -0.003 min  
Response: 5934502  
Conc: 38.93 ug/ml

rteres

Area Percent

Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016472.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 17:35  
Sample : PB169879TB  
Misc :  
ALS Vial : 83 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH  
092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 8.027       | 7.997        | 8.184      | PB       | 584415         | 6015712      | 100.00%        | 38.571%       |
| 2                       | 8.902       | 8.865        | 9.074      | BB       | 331338         | 3646317      | 60.61%         | 23.379%       |
| 3                       | 11.971      | 11.910       | 12.025     | BB       | 544549         | 5934502      | 98.65%         | 38.050%       |
| Sum of corrected areas: |             |              |            |          |                | 15596530     |                |               |

Aromatic EPH 092425.M Tue Sep 30 01:28:23 2025



# CALIBRATION SUMMARY

Initial Calibration Report for SequenceID : FE092425AL

**AreaCount**

| Parameter Range   | FE055962.D    | FE055963.D    | FE055964.D   | FE055965.D   | FE055966.D   |  |
|-------------------|---------------|---------------|--------------|--------------|--------------|--|
| Aliphatic C9-C12  | 37542791.000  | 22892697.000  | 8462672.000  | 4191009.000  | 2124515.000  |  |
| Aliphatic C12-C16 | 28448375.000  | 15981763.000  | 6036724.000  | 3116285.000  | 1580906.000  |  |
| Aliphatic C16-C21 | 47319022.000  | 24326712.000  | 9480340.000  | 5176882.000  | 2683832.000  |  |
| Aliphatic C21-C28 | 56499296.000  | 28330990.000  | 11268637.000 | 6189034.000  | 3282975.000  |  |
| Aliphatic C28-C40 | 72708634.000  | 38000593.000  | 15509370.000 | 8760386.000  | 4744762.000  |  |
| Aliphatic EPH     | 242518118.000 | 129532755.000 | 50757743.000 | 27433596.000 | 14416990.000 |  |

**AVG Response Factor**

| Parameter Range   | AVG RF         | % RSD |  |  |  |  |
|-------------------|----------------|-------|--|--|--|--|
| Aliphatic C9-C12  | 140027.9566664 | 6.995 |  |  |  |  |
| Aliphatic C12-C16 | 153376.491     | 4.607 |  |  |  |  |
| Aliphatic C16-C21 | 165879.737333  | 5.694 |  |  |  |  |
| Aliphatic C21-C28 | 148527.1505    | 7.073 |  |  |  |  |
| Aliphatic C28-C40 | 136251.923333  | 11.27 |  |  |  |  |
| Aliphatic EPH     | 146449.7892216 | 6.809 |  |  |  |  |

**Concentration**

| Parameter Range   | FE055962.D | FE055963.D | FE055964.D | FE055965.D | FE055966.D |  |
|-------------------|------------|------------|------------|------------|------------|--|
| Aliphatic C9-C12  | 300.000    | 150.000    | 60.000     | 30.000     | 15.000     |  |
| Aliphatic C12-C16 | 200.000    | 100.000    | 40.000     | 20.000     | 10.000     |  |
| Aliphatic C16-C21 | 300.000    | 150.000    | 60.000     | 30.000     | 15.000     |  |
| Aliphatic C21-C28 | 400.000    | 200.000    | 80.000     | 40.000     | 20.000     |  |
| Aliphatic C28-C40 | 600.000    | 300.000    | 120.000    | 60.000     | 30.000     |  |
| Aliphatic EPH     | 1800.000   | 900.000    | 360.000    | 180.000    | 90.000     |  |

**Response Factor**

| Parameter Range   | FE055962.D    | FE055963.D    | FE055964.D    | FE055965.D    | FE055966.D    |  |
|-------------------|---------------|---------------|---------------|---------------|---------------|--|
| Aliphatic C9-C12  | 125142.636666 | 152617.980000 | 141044.533333 | 139700.300000 | 141634.333333 |  |
| Aliphatic C12-C16 | 142241.875000 | 159817.630000 | 150918.100000 | 155814.250000 | 158090.600000 |  |
| Aliphatic C16-C21 | 157730.073333 | 162178.080000 | 158005.666666 | 172562.733333 | 178922.133333 |  |

Initial Calibration Report for SequenceID : FE092425AL

|                   |               |               |               |               |               |  |
|-------------------|---------------|---------------|---------------|---------------|---------------|--|
| Aliphatic C21-C28 | 141248.240000 | 141654.950000 | 140857.962500 | 154725.850000 | 164148.750000 |  |
| Aliphatic C28-C40 | 121181.056666 | 126668.643333 | 129244.750000 | 146006.433333 | 158158.733333 |  |
| Aliphatic EPH     | 134732.287777 | 143925.283333 | 140993.730555 | 152408.866666 | 160188.777777 |  |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055962.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 09:07  
 Operator : YP\AJ  
 Sample : 100 PPM ALIPHATIC HC STD1  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e  
 Quant Time: Sep 24 11:03:08 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 11:00:43 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units    |
|--------------------------------|--------|------------|---------------|
| -----                          |        |            |               |
| System Monitoring Compounds    |        |            |               |
| 9) S ortho-Terphenyl (SURR)    | 12.083 | 17950450   | 100.309 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 200.62%       |
| 12) S 1-chlorooctadecane (S... | 13.517 | 13586232   | 101.305 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 202.61%       |
|                                |        |            |               |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.411  | 12115570   | 93.377 ug/ml  |
| 2) T n-Decane (C10)            | 4.672  | 12431596   | 93.812 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.393  | 15093772   | 97.535 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.849  | 12995625   | 94.848 ug/ml  |
| 5) T A~2-methylnaphthalene...  | 7.496  | 15025333   | 99.098 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.687  | 13579491   | 96.250 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.303 | 14868884   | 97.774 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.755 | 15922809   | 98.959 ug/ml  |
| 10) T n-Eicosane (C20)         | 13.069 | 15819296   | 100.191 ug/ml |
| 11) T n-Heneicosane (C21)      | 13.683 | 15576917   | 100.620 ug/ml |
| 13) T n-Docosane (C22)         | 14.272 | 15366782   | 100.893 ug/ml |
| 14) T n-Tetracosane (C24)      | 15.378 | 14649046   | 100.840 ug/ml |
| 15) T n-Hexacosane (C26)       | 16.402 | 13607731   | 100.166 ug/ml |
| 16) T n-Octacosane (C28)       | 17.355 | 12875737   | 98.451 ug/ml  |
| 17) T n-Tricontane (C30)       | 18.245 | 13054346   | 96.132 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 19.079 | 12955482   | 94.902 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.864 | 12597203   | 95.888 ug/ml  |
| 20) T n-Hexatriacontane (C36)  | 20.607 | 11820206   | 97.397 ug/ml  |
| 21) T n-Octatriacontane (C38)  | 21.384 | 11503060   | 99.564 ug/ml  |
| 22) T n-Tetracontane (C40)     | 22.374 | 10778337   | 97.367 ug/ml  |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

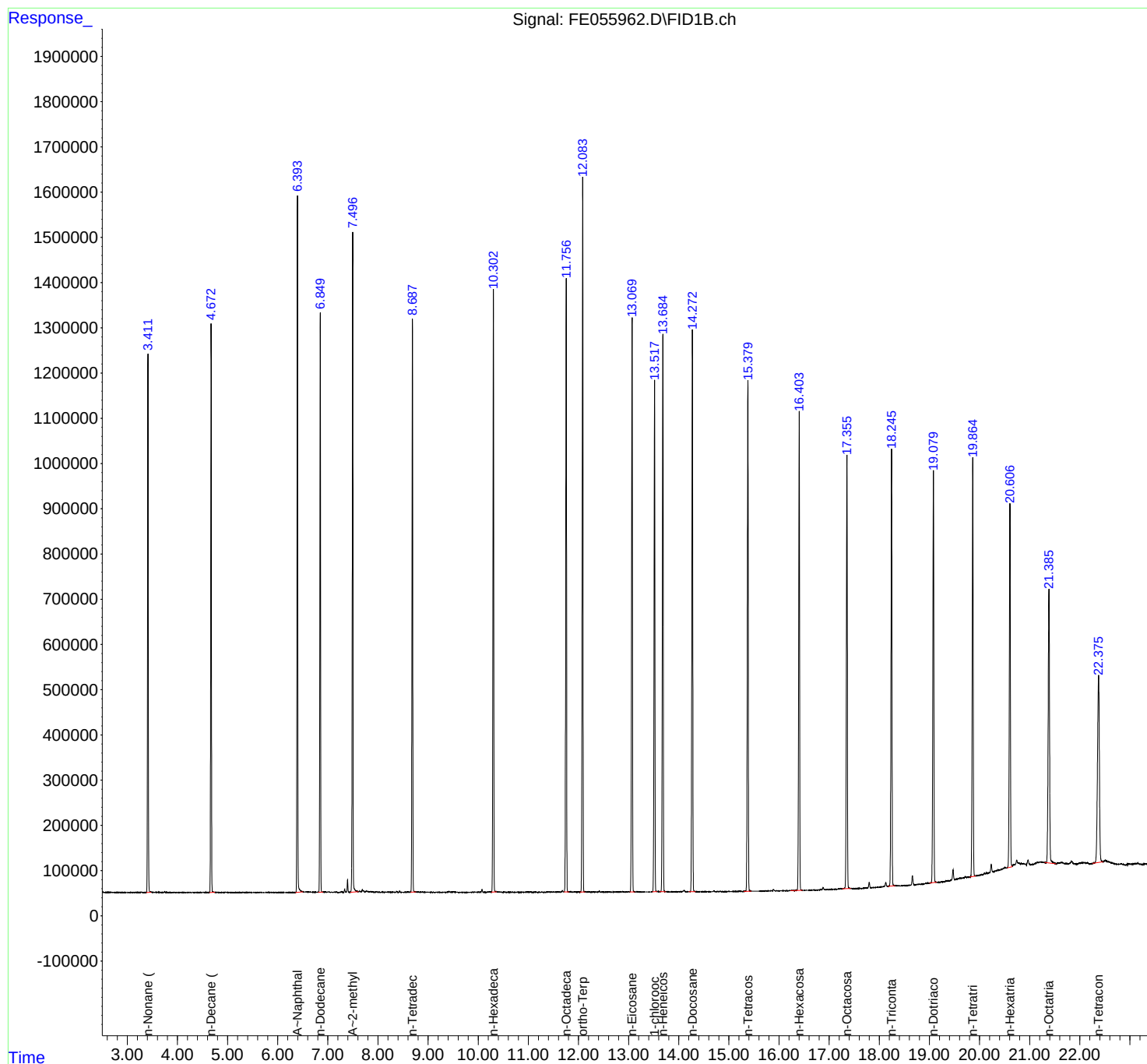


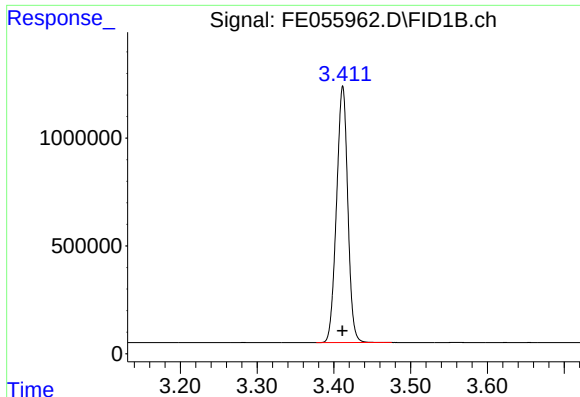
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
Data File : FE055962.D  
Signal(s) : FID1B.ch  
Acq On : 24 Sep 2025 09:07  
Operator : YP\AJ  
Sample : 100 PPM ALIPHATIC HC STD1  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
100 PPM ALIPHATIC HC STD1

Integration File: autoint1.e  
Quant Time: Sep 24 11:03:08 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 11:00:43 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

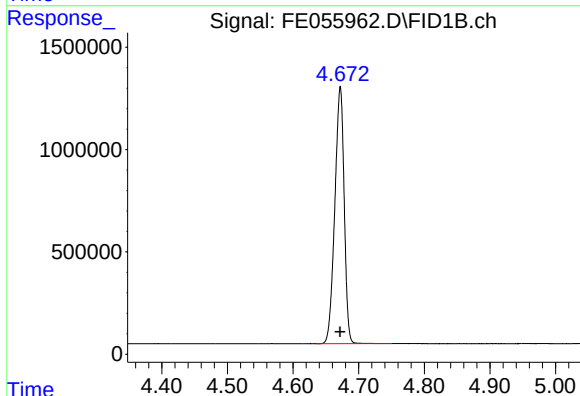
R.T.: 3.411 min  
Delta R.T.: 0.000 min  
Response: 12115570  
Conc: 93.38 ug/ml

Instrument :

FID\_E

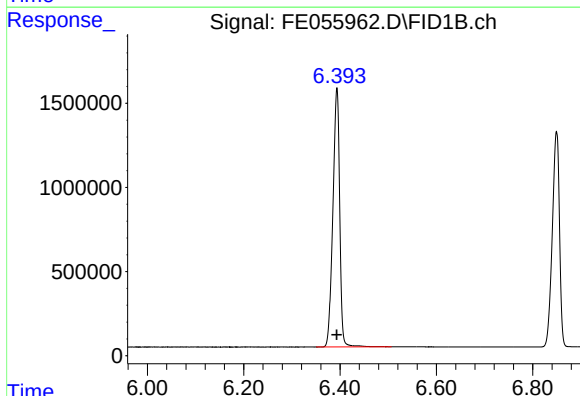
ClientSampleId :

100 PPM ALIPHATIC HC STD1



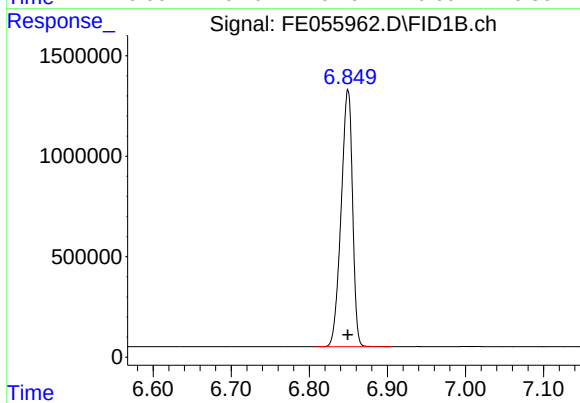
#2 n-Decane (C10)

R.T.: 4.672 min  
Delta R.T.: 0.000 min  
Response: 12431596  
Conc: 93.81 ug/ml



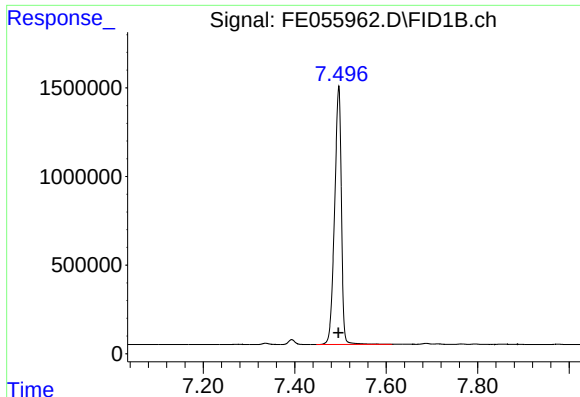
#3 A~Naphthalene (C11.7)

R.T.: 6.393 min  
Delta R.T.: 0.000 min  
Response: 15093772  
Conc: 97.54 ug/ml



#4 n-Dodecane (C12)

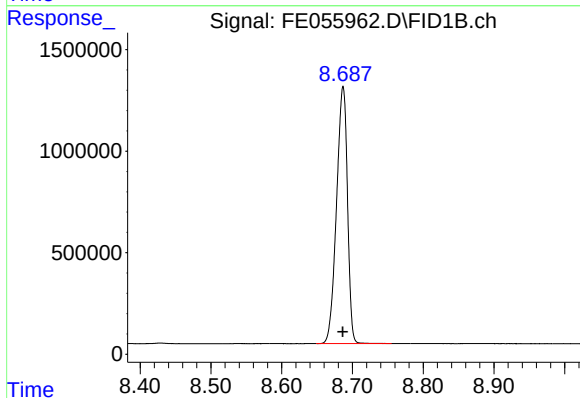
R.T.: 6.849 min  
Delta R.T.: 0.000 min  
Response: 12995625  
Conc: 94.85 ug/ml



#5 A~2-methylnaphthalene (C12.89)

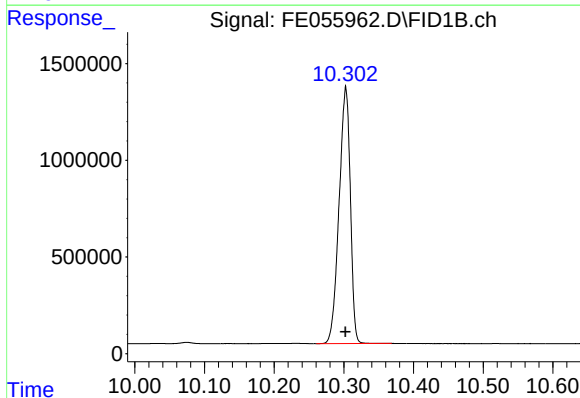
R.T.: 7.496 min  
Delta R.T.: 0.000 min  
Response: 15025333  
Conc: 99.10 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
100 PPM ALIPHATIC HC STD1



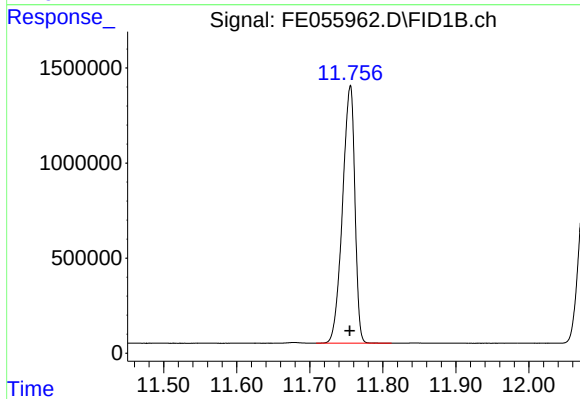
#6 n-Tetradecane (C14)

R.T.: 8.687 min  
Delta R.T.: 0.000 min  
Response: 13579491  
Conc: 96.25 ug/ml



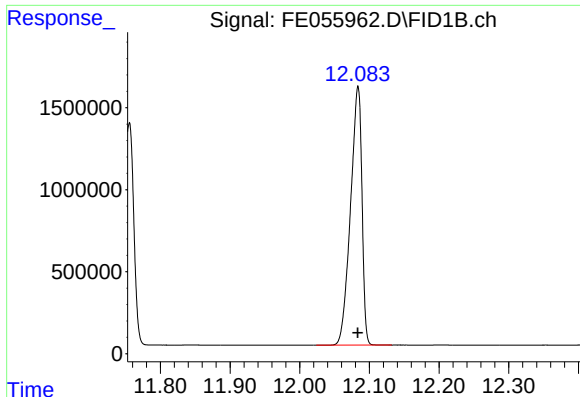
#7 n-Hexadecane (C16)

R.T.: 10.303 min  
Delta R.T.: 0.000 min  
Response: 14868884  
Conc: 97.77 ug/ml



#8 n-Octadecane (C18)

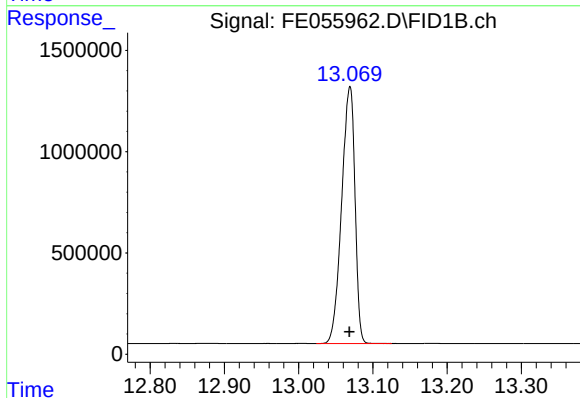
R.T.: 11.755 min  
Delta R.T.: 0.000 min  
Response: 15922809  
Conc: 98.96 ug/ml



#9 ortho-Terphenyl (SURR)

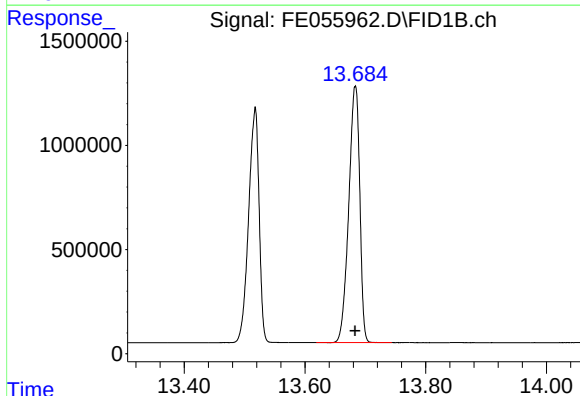
R.T.: 12.083 min  
Delta R.T.: 0.000 min  
Response: 17950450  
Conc: 100.31 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
100 PPM ALIPHATIC HC STD1



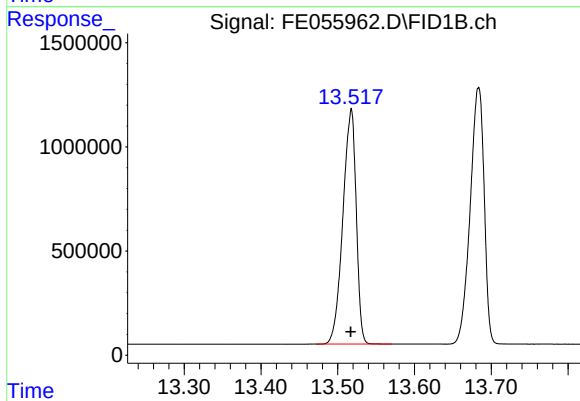
#10 n-Eicosane (C20)

R.T.: 13.069 min  
Delta R.T.: 0.000 min  
Response: 15819296  
Conc: 100.19 ug/ml



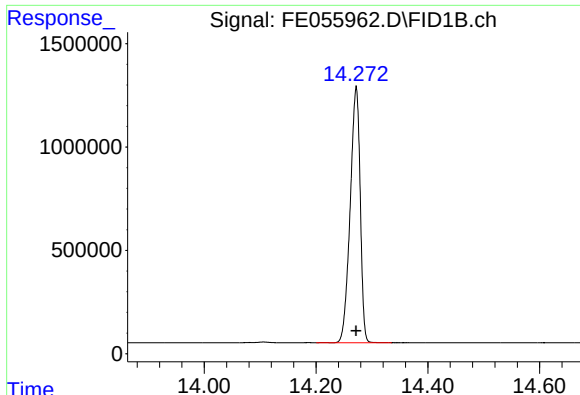
#11 n-Heneicosane (C21)

R.T.: 13.683 min  
Delta R.T.: 0.000 min  
Response: 15576917  
Conc: 100.62 ug/ml



#12 1-chlorooctadecane (SURR)

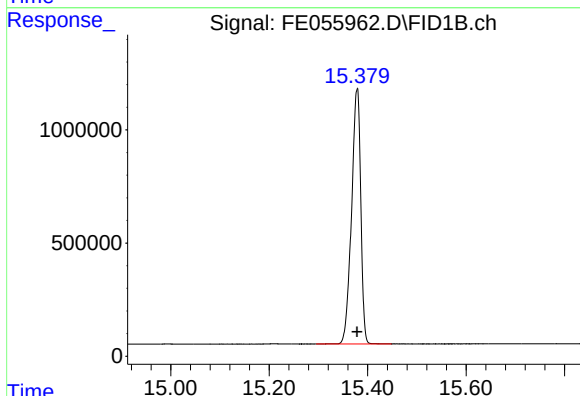
R.T.: 13.517 min  
Delta R.T.: 0.000 min  
Response: 13586232  
Conc: 101.30 ug/ml



#13 n-Docosane (C22)

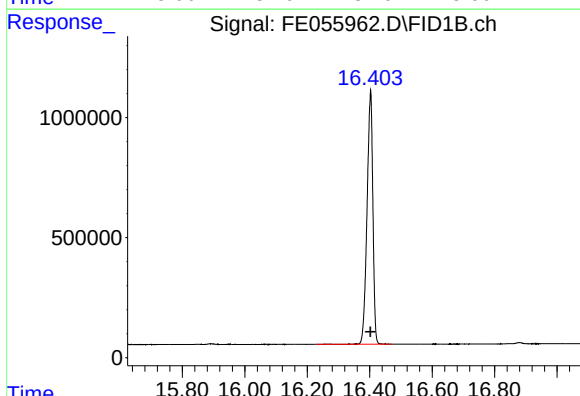
R.T.: 14.272 min  
Delta R.T.: 0.000 min  
Response: 15366782  
Conc: 100.89 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
100 PPM ALIPHATIC HC STD1



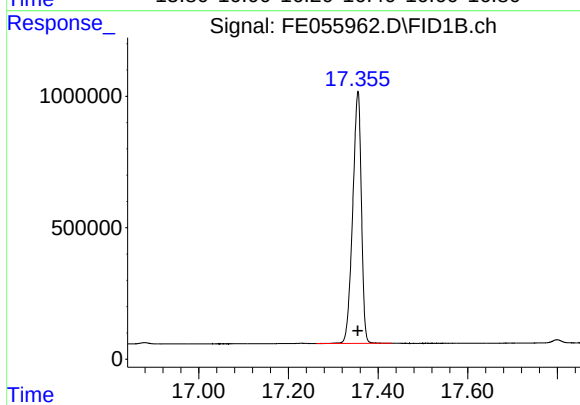
#14 n-Tetracosane (C24)

R.T.: 15.378 min  
Delta R.T.: 0.000 min  
Response: 14649046  
Conc: 100.84 ug/ml



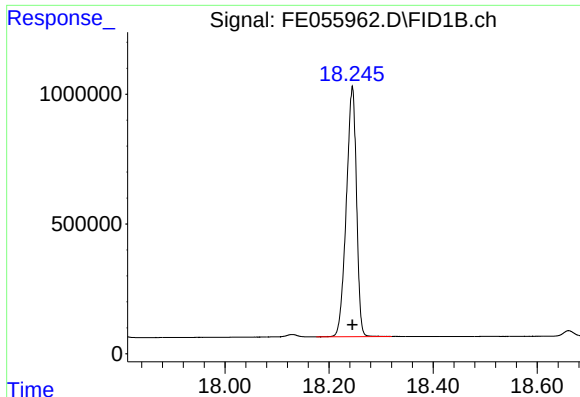
#15 n-Hexacosane (C26)

R.T.: 16.402 min  
Delta R.T.: 0.000 min  
Response: 13607731  
Conc: 100.17 ug/ml



#16 n-Octacosane (C28)

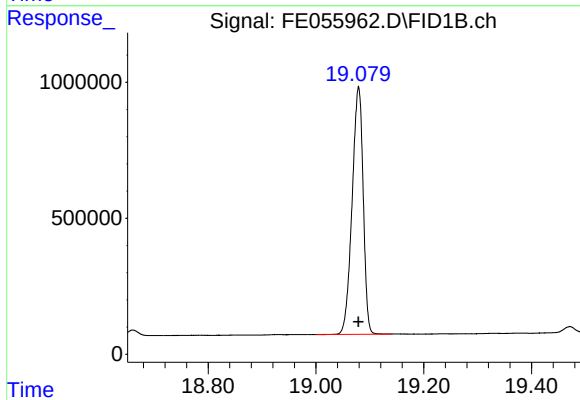
R.T.: 17.355 min  
Delta R.T.: 0.000 min  
Response: 12875737  
Conc: 98.45 ug/ml



#17 n-Tricontane (C30)

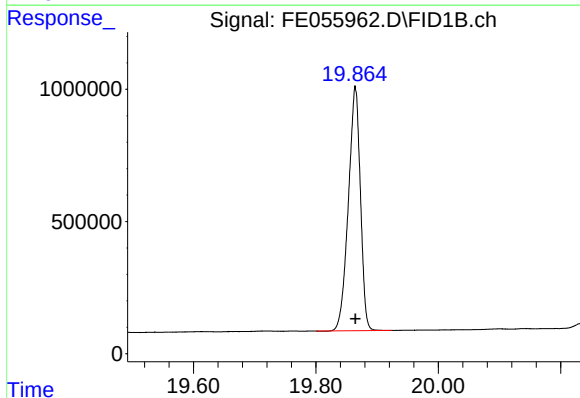
R.T.: 18.245 min  
Delta R.T.: 0.000 min  
Response: 13054346  
Conc: 96.13 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
100 PPM ALIPHATIC HC STD1



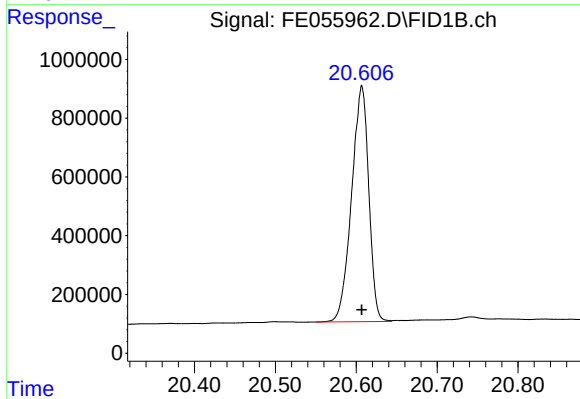
#18 n-Dotriacontane (C32)

R.T.: 19.079 min  
Delta R.T.: 0.000 min  
Response: 12955482  
Conc: 94.90 ug/ml



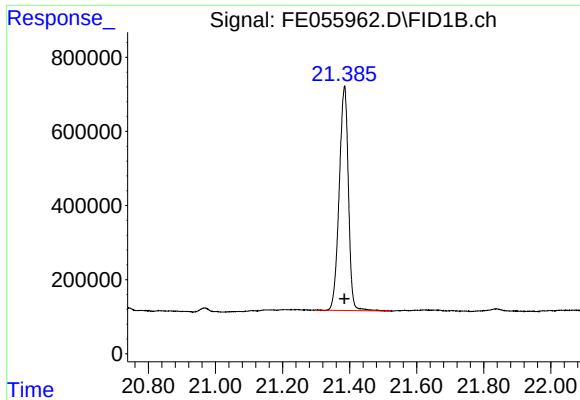
#19 n-Tetratriacontane (C34)

R.T.: 19.864 min  
Delta R.T.: 0.000 min  
Response: 12597203  
Conc: 95.89 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.607 min  
Delta R.T.: 0.000 min  
Response: 11820206  
Conc: 97.40 ug/ml



#21 n-Octatriacontane (C38)

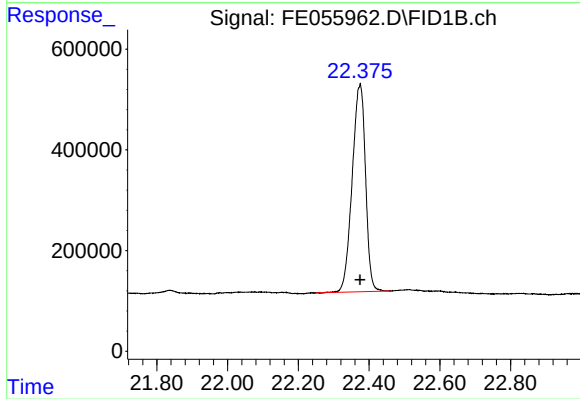
R.T.: 21.384 min  
Delta R.T.: 0.000 min  
Response: 11503060  
Conc: 99.56 ug/ml

Instrument :

FID\_E

ClientSampleId :

100 PPM ALIPHATIC HC STD1



#22 n-Tetracontane (C40)

R.T.: 22.374 min  
Delta R.T.: 0.000 min  
Response: 10778337  
Conc: 97.37 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055962.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 09:07  
 Sample : 100 PPM ALIPHATIC HC STD1  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.411       | 3.377        | 3.475      | BB       | 1193159        | 12115570     | 67.49%         | 3.983%        |
| 2                       | 4.672       | 4.635        | 4.750      | BB       | 1259842        | 12431596     | 69.26%         | 4.087%        |
| 3                       | 6.393       | 6.350        | 6.507      | BB       | 1548803        | 15093772     | 84.09%         | 4.962%        |
| 4                       | 6.849       | 6.809        | 6.905      | BB       | 1279643        | 12995625     | 72.40%         | 4.272%        |
| 5                       | 7.496       | 7.447        | 7.612      | BV       | 1444836        | 15025333     | 83.70%         | 4.940%        |
| 6                       | 8.687       | 8.649        | 8.755      | BB       | 1270645        | 13579491     | 75.65%         | 4.464%        |
| 7                       | 10.303      | 10.260       | 10.369     | BB       | 1320044        | 14868884     | 82.83%         | 4.888%        |
| 8                       | 11.755      | 11.709       | 11.812     | BB       | 1355244        | 15922809     | 88.70%         | 5.235%        |
| 9                       | 12.083      | 12.024       | 12.132     | BB       | 1585493        | 17950450     | 100.00%        | 5.901%        |
| 10                      | 13.069      | 13.024       | 13.125     | BB       | 1269287        | 15819296     | 88.13%         | 5.201%        |
| 11                      | 13.517      | 13.472       | 13.570     | BB       | 1123920        | 13586232     | 75.69%         | 4.467%        |
| 12                      | 13.683      | 13.619       | 13.744     | BB       | 1232389        | 15576917     | 86.78%         | 5.121%        |
| 13                      | 14.272      | 14.200       | 14.335     | BB       | 1243326        | 15366782     | 85.61%         | 5.052%        |
| 14                      | 15.378      | 15.295       | 15.449     | BB       | 1126624        | 14649046     | 81.61%         | 4.816%        |
| 15                      | 16.402      | 16.229       | 16.470     | BB       | 1045801        | 13607731     | 75.81%         | 4.474%        |
| 16                      | 17.355      | 17.262       | 17.430     | BB       | 961185         | 12875737     | 71.73%         | 4.233%        |
| 17                      | 18.245      | 18.175       | 18.320     | BB       | 969341         | 13054346     | 72.72%         | 4.292%        |
| 18                      | 19.079      | 19.000       | 19.140     | BB       | 910160         | 12955482     | 72.17%         | 4.259%        |
| 19                      | 19.864      | 19.800       | 19.924     | BB       | 924104         | 12597203     | 70.18%         | 4.141%        |
| 20                      | 20.607      | 20.550       | 20.644     | BV       | 804428         | 11820206     | 65.85%         | 3.886%        |
| 21                      | 21.385      | 21.300       | 21.525     | BV       | 607871         | 11503060     | 64.08%         | 3.782%        |
| 22                      | 22.374      | 22.250       | 22.464     | BV       | 410718         | 10778337     | 60.04%         | 3.543%        |
| Sum of corrected areas: |             |              |            |          |                | 304173905    |                |               |

Aliphatic EPH 092425.M Wed Sep 24 15:36:25 2025



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055963.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 09:37  
 Operator : YP\AJ  
 Sample : 50 PPM ALIPHATIC HC STD2  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e  
 Quant Time: Sep 24 11:04:51 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 11:00:43 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units   |
|--------------------------------|--------|------------|--------------|
| -----                          |        |            |              |
| System Monitoring Compounds    |        |            |              |
| 9) S ortho-Terphenyl (SURR)    | 12.077 | 9105995    | 50.587 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 101.17%      |
| 12) S 1-chlorooctadecane (S... | 13.512 | 6779455    | 50.366 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 100.73%      |
| Target Compounds               |        |            |              |
| 1) T n-Nonane (C9)             | 3.414  | 7521327    | 55.044 ug/ml |
| 2) T n-Decane (C10)            | 4.671  | 7621160    | 54.769 ug/ml |
| 3) T A~Naphthalene (C11.7)     | 6.390  | 8539649    | 53.340 ug/ml |
| 4) T n-Dodecane (C12)          | 6.846  | 7750210    | 54.193 ug/ml |
| 5) T A~2-methylnaphthalene...  | 7.492  | 8232099    | 52.783 ug/ml |
| 6) T n-Tetradecane (C14)       | 8.683  | 7796895    | 53.390 ug/ml |
| 7) T n-Hexadecane (C16)        | 10.299 | 8184868    | 52.484 ug/ml |
| 8) T n-Octadecane (C18)        | 11.750 | 8429200    | 51.566 ug/ml |
| 10) T n-Eicosane (C20)         | 13.064 | 8067243    | 50.724 ug/ml |
| 11) T n-Heneicosane (C21)      | 13.679 | 7830269    | 50.385 ug/ml |
| 13) T n-Docosane (C22)         | 14.267 | 7654502    | 50.171 ug/ml |
| 14) T n-Tetracosane (C24)      | 15.374 | 7266695    | 50.015 ug/ml |
| 15) T n-Hexacosane (C26)       | 16.397 | 6822136    | 50.145 ug/ml |
| 16) T n-Octacosane (C28)       | 17.350 | 6587657    | 50.247 ug/ml |
| 17) T n-Tricontane (C30)       | 18.240 | 6773890    | 49.922 ug/ml |
| 18) T n-Dotriacontane (C32)    | 19.075 | 6740087    | 49.580 ug/ml |
| 19) T n-Tetratriacontane (C34) | 19.861 | 6516174    | 49.733 ug/ml |
| 20) T n-Hexatriacontane (C36)  | 20.601 | 6074929    | 50.038 ug/ml |
| 21) T n-Octatriacontane (C38)  | 21.379 | 6099413    | 51.828 ug/ml |
| 22) T n-Tetracontane (C40)     | 22.366 | 5796100    | 51.549 ug/ml |
| -----                          |        |            |              |

(f)=RT Delta > 1/2 Window

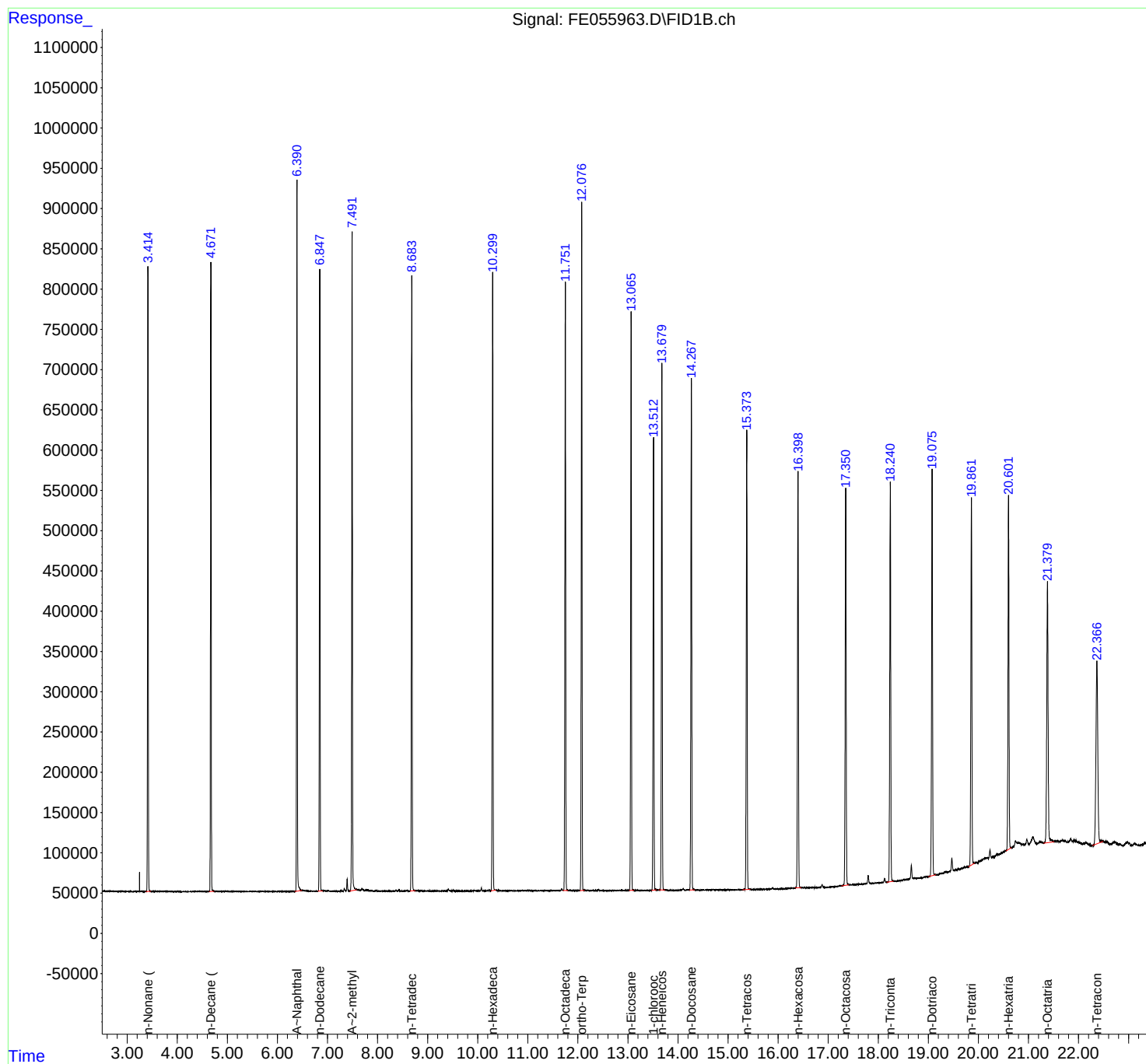
(m)=manual int.

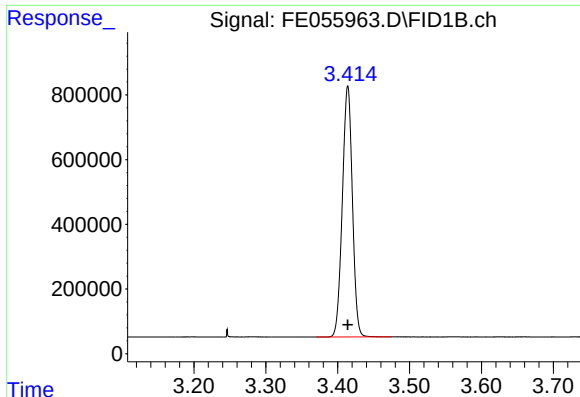
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
Data File : FE055963.D  
Signal(s) : FID1B.ch  
Acq On : 24 Sep 2025 09:37  
Operator : YP\AJ  
Sample : 50 PPM ALIPHATIC HC STD2  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
50 PPM ALIPHATIC HC STD2

Integration File: autoint1.e  
Quant Time: Sep 24 11:04:51 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 11:00:43 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

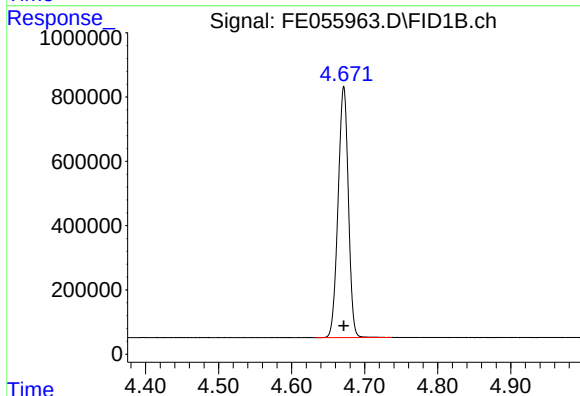




#1 n-Nonane (C9)

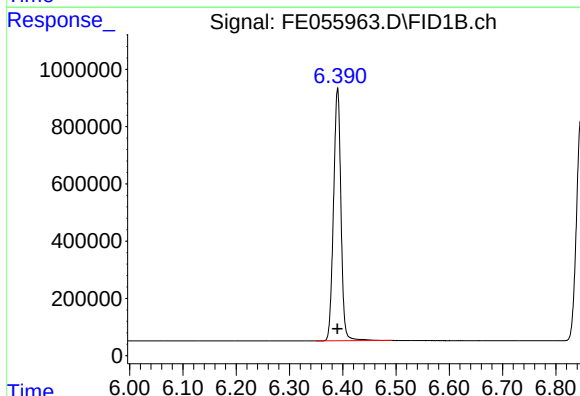
R.T.: 3.414 min  
Delta R.T.: 0.000 min  
Response: 7521327  
Conc: 55.04 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
50 PPM ALIPHATIC HC STD2



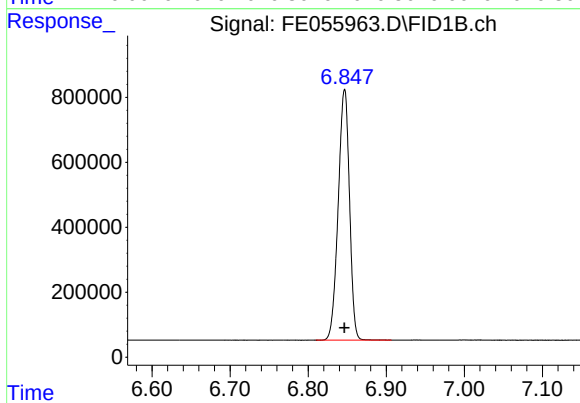
#2 n-Decane (C10)

R.T.: 4.671 min  
Delta R.T.: 0.000 min  
Response: 7621160  
Conc: 54.77 ug/ml



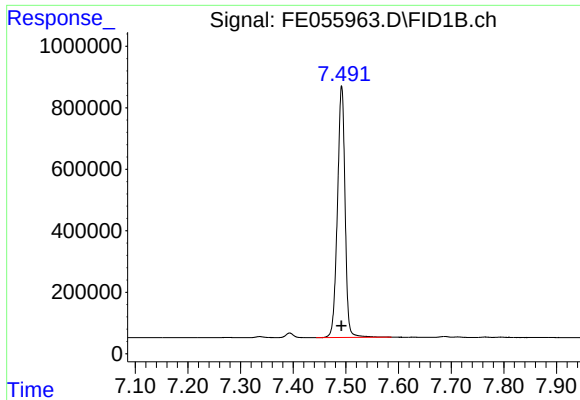
#3 A~Naphthalene (C11.7)

R.T.: 6.390 min  
Delta R.T.: 0.000 min  
Response: 8539649  
Conc: 53.34 ug/ml



#4 n-Dodecane (C12)

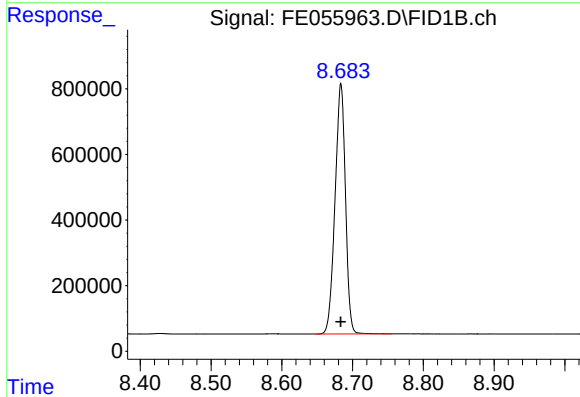
R.T.: 6.846 min  
Delta R.T.: 0.000 min  
Response: 7750210  
Conc: 54.19 ug/ml



#5 A~2-methylnaphthalene (C12.89)

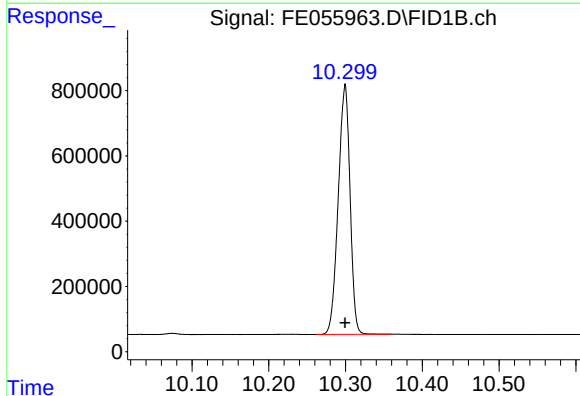
R.T.: 7.492 min  
Delta R.T.: 0.000 min  
Response: 8232099  
Conc: 52.78 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
50 PPM ALIPHATIC HC STD2



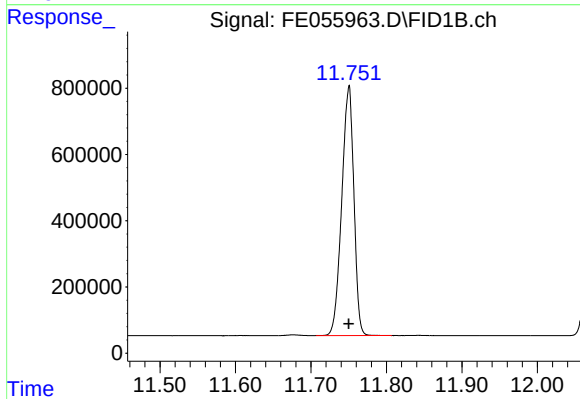
#6 n-Tetradecane (C14)

R.T.: 8.683 min  
Delta R.T.: 0.000 min  
Response: 7796895  
Conc: 53.39 ug/ml



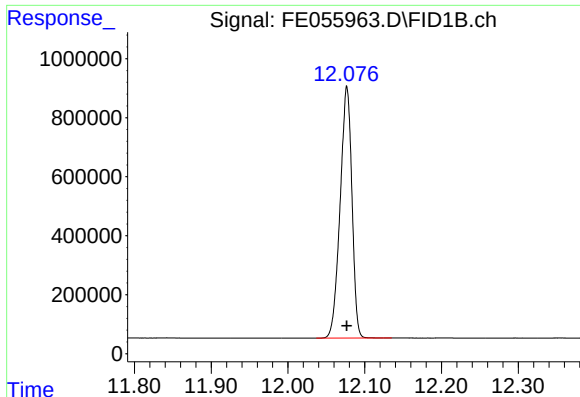
#7 n-Hexadecane (C16)

R.T.: 10.299 min  
Delta R.T.: 0.000 min  
Response: 8184868  
Conc: 52.48 ug/ml



#8 n-Octadecane (C18)

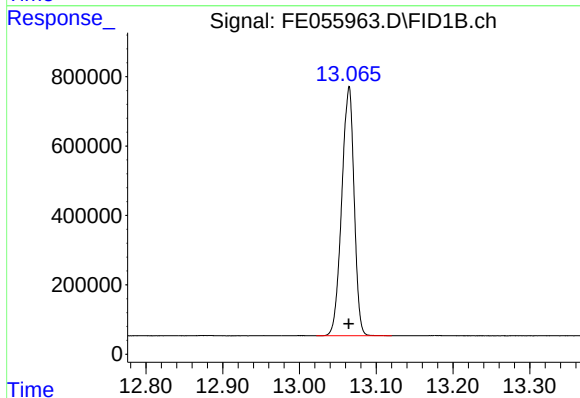
R.T.: 11.750 min  
Delta R.T.: 0.000 min  
Response: 8429200  
Conc: 51.57 ug/ml



#9 ortho-Terphenyl (SURR)

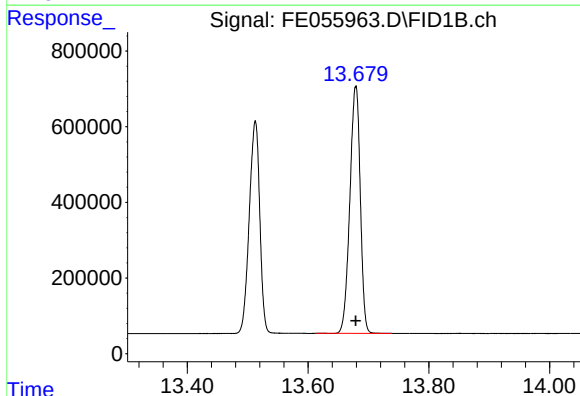
R.T.: 12.077 min  
Delta R.T.: 0.000 min  
Response: 9105995  
Conc: 50.59 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
50 PPM ALIPHATIC HC STD2



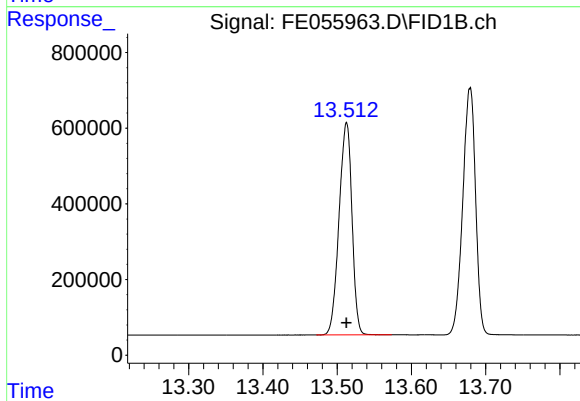
#10 n-Eicosane (C20)

R.T.: 13.064 min  
Delta R.T.: 0.000 min  
Response: 8067243  
Conc: 50.72 ug/ml



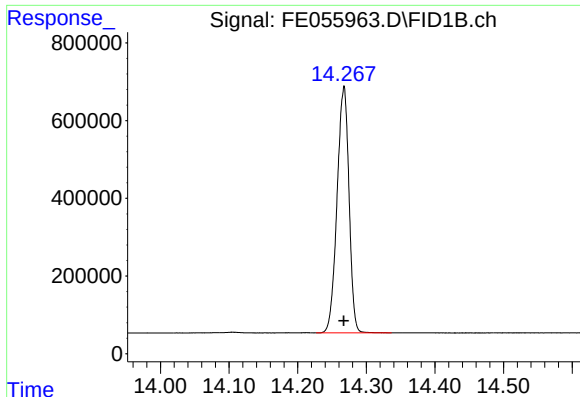
#11 n-Heneicosane (C21)

R.T.: 13.679 min  
Delta R.T.: 0.000 min  
Response: 7830269  
Conc: 50.39 ug/ml



#12 1-chlorooctadecane (SURR)

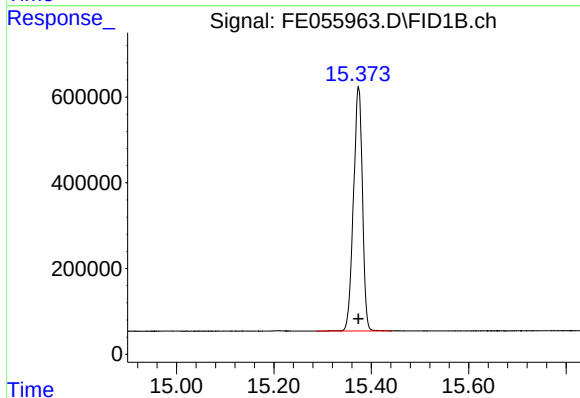
R.T.: 13.512 min  
Delta R.T.: 0.000 min  
Response: 6779455  
Conc: 50.37 ug/ml



#13 n-Docosane (C22)

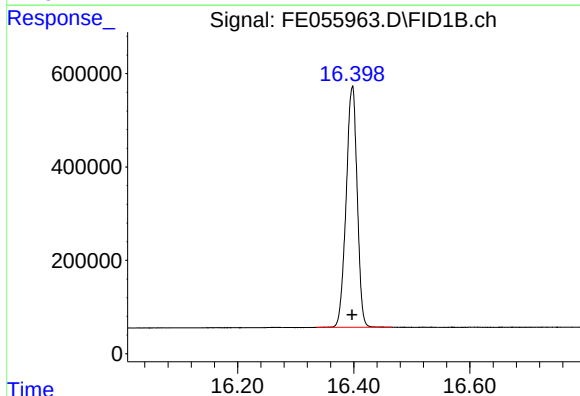
R.T.: 14.267 min  
Delta R.T.: 0.000 min  
Response: 7654502  
Conc: 50.17 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
50 PPM ALIPHATIC HC STD2



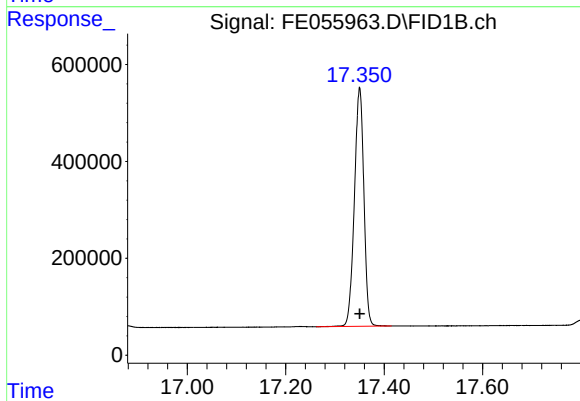
#14 n-Tetracosane (C24)

R.T.: 15.374 min  
Delta R.T.: 0.000 min  
Response: 7266695  
Conc: 50.01 ug/ml



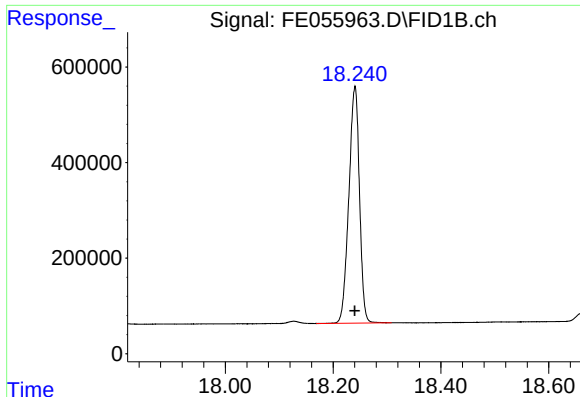
#15 n-Hexacosane (C26)

R.T.: 16.397 min  
Delta R.T.: 0.000 min  
Response: 6822136  
Conc: 50.14 ug/ml



#16 n-Octacosane (C28)

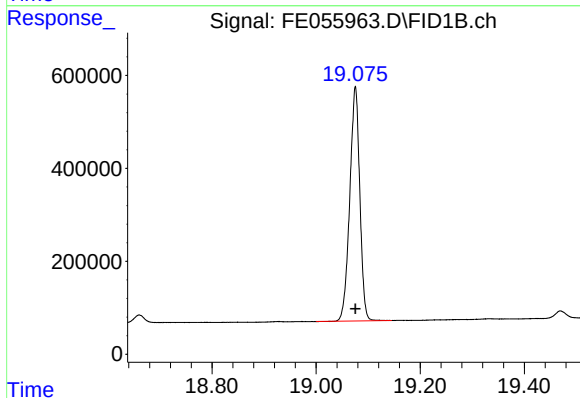
R.T.: 17.350 min  
Delta R.T.: 0.000 min  
Response: 6587657  
Conc: 50.25 ug/ml



#17 n-Tricontane (C30)

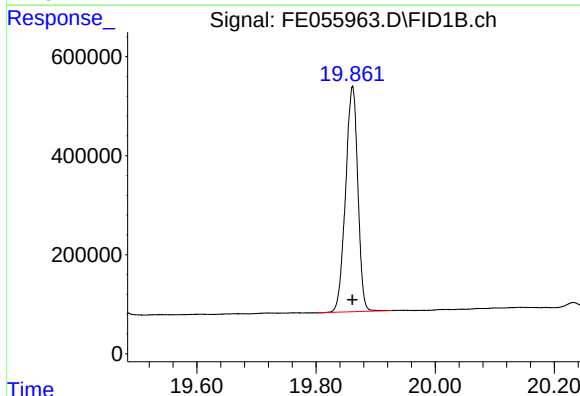
R.T.: 18.240 min  
Delta R.T.: 0.000 min  
Response: 6773890  
Conc: 49.92 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
50 PPM ALIPHATIC HC STD2



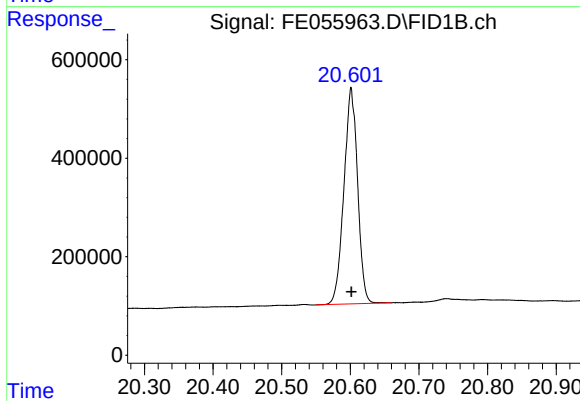
#18 n-Dotriacontane (C32)

R.T.: 19.075 min  
Delta R.T.: 0.000 min  
Response: 6740087  
Conc: 49.58 ug/ml



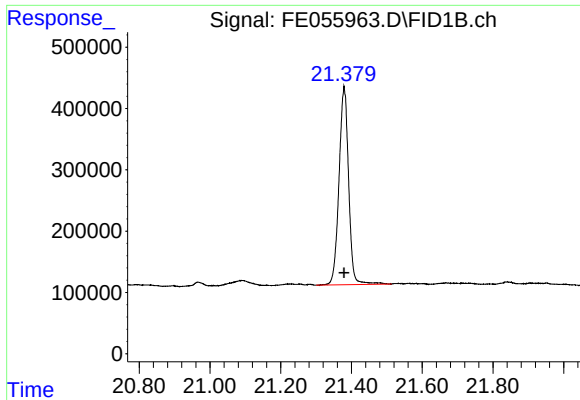
#19 n-Tetratriacontane (C34)

R.T.: 19.861 min  
Delta R.T.: 0.000 min  
Response: 6516174  
Conc: 49.73 ug/ml



#20 n-Hexatriacontane (C36)

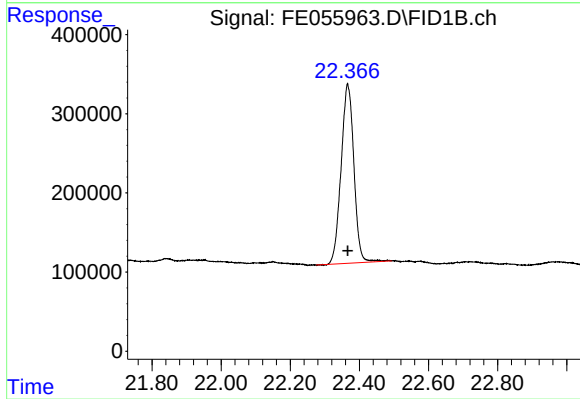
R.T.: 20.601 min  
Delta R.T.: 0.000 min  
Response: 6074929  
Conc: 50.04 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.379 min  
Delta R.T.: 0.000 min  
Response: 6099413  
Conc: 51.83 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
50 PPM ALIPHATIC HC STD2



#22 n-Tetracontane (C40)

R.T.: 22.366 min  
Delta R.T.: 0.000 min  
Response: 5796100  
Conc: 51.55 ug/ml



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055963.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 09:37  
 Sample : 50 PPM ALIPHATIC HC STD2  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.414       | 3.370        | 3.475      | BB       | 776378         | 7521327      | 82.60%         | 4.637%        |
| 2                       | 4.671       | 4.633        | 4.737      | BB       | 783988         | 7621160      | 83.69%         | 4.699%        |
| 3                       | 6.390       | 6.350        | 6.492      | BB       | 881625         | 8539649      | 93.78%         | 5.265%        |
| 4                       | 6.847       | 6.810        | 6.907      | BB       | 774294         | 7750210      | 85.11%         | 4.778%        |
| 5                       | 7.492       | 7.443        | 7.587      | BB       | 820251         | 8232099      | 90.40%         | 5.076%        |
| 6                       | 8.683       | 8.648        | 8.755      | BB       | 764717         | 7796895      | 85.62%         | 4.807%        |
| 7                       | 10.299      | 10.262       | 10.360     | BB       | 758326         | 8184868      | 89.88%         | 5.046%        |
| 8                       | 11.750      | 11.707       | 11.807     | BB       | 753100         | 8429200      | 92.57%         | 5.197%        |
| 9                       | 12.077      | 12.037       | 12.135     | BB       | 854162         | 9105995      | 100.00%        | 5.614%        |
| 10                      | 13.064      | 13.022       | 13.120     | BB       | 711166         | 8067243      | 88.59%         | 4.974%        |
| 11                      | 13.512      | 13.472       | 13.573     | BB       | 561964         | 6779455      | 74.45%         | 4.180%        |
| 12                      | 13.679      | 13.613       | 13.738     | BB       | 653612         | 7830269      | 85.99%         | 4.828%        |
| 13                      | 14.267      | 14.227       | 14.337     | BB       | 630007         | 7654502      | 84.06%         | 4.719%        |
| 14                      | 15.374      | 15.287       | 15.442     | BB       | 570219         | 7266695      | 79.80%         | 4.480%        |
| 15                      | 16.397      | 16.335       | 16.465     | BB       | 514565         | 6822136      | 74.92%         | 4.206%        |
| 16                      | 17.350      | 17.262       | 17.415     | BB       | 493737         | 6587657      | 72.34%         | 4.062%        |
| 17                      | 18.240      | 18.168       | 18.308     | BB       | 493734         | 6773890      | 74.39%         | 4.177%        |
| 18                      | 19.075      | 19.000       | 19.145     | BB       | 505191         | 6740087      | 74.02%         | 4.156%        |
| 19                      | 19.861      | 19.800       | 19.927     | BB       | 456961         | 6516174      | 71.56%         | 4.018%        |
| 20                      | 20.601      | 20.550       | 20.660     | BB       | 437030         | 6074929      | 66.71%         | 3.746%        |
| 21                      | 21.379      | 21.300       | 21.513     | BV       | 323069         | 6099413      | 66.98%         | 3.761%        |
| 22                      | 22.366      | 22.275       | 22.493     | BB       | 226612         | 5796100      | 63.65%         | 3.574%        |
| Sum of corrected areas: |             |              |            |          |                | 162189953    |                |               |

Aliphatic EPH 092425.M Wed Sep 24 15:36:54 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055964.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 10:07  
 Operator : YP\AJ  
 Sample : 20 PPM ALIPHATIC HC STD3  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e  
 Quant Time: Sep 24 11:01:05 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 11:00:43 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units   |
|--------------------------------|--------|------------|--------------|
| -----                          |        |            |              |
| System Monitoring Compounds    |        |            |              |
| 9) S ortho-Terphenyl (SURR)    | 12.072 | 3567994    | 20.000 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 40.00%       |
| 12) S 1-chlorooctadecane (S... | 13.509 | 2647245    | 20.000 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 40.00%       |
| Target Compounds               |        |            |              |
| 1) T n-Nonane (C9)             | 3.411  | 2766852    | 20.000 ug/ml |
| 2) T n-Decane (C10)            | 4.669  | 2814312    | 20.000 ug/ml |
| 3) T A~Naphthalene (C11.7)     | 6.388  | 3171326    | 20.000 ug/ml |
| 4) T n-Dodecane (C12)          | 6.844  | 2881508    | 20.000 ug/ml |
| 5) T A~2-methylnaphthalene...  | 7.489  | 3059763    | 20.000 ug/ml |
| 6) T n-Tetradecane (C14)       | 8.681  | 2927514    | 20.000 ug/ml |
| 7) T n-Hexadecane (C16)        | 10.296 | 3109210    | 20.000 ug/ml |
| 8) T n-Octadecane (C18)        | 11.746 | 3251555    | 20.000 ug/ml |
| 10) T n-Eicosane (C20)         | 13.061 | 3151785    | 20.000 ug/ml |
| 11) T n-Heneicosane (C21)      | 13.675 | 3077000    | 20.000 ug/ml |
| 13) T n-Docosane (C22)         | 14.264 | 3018934    | 20.000 ug/ml |
| 14) T n-Tetracosane (C24)      | 15.369 | 2880999    | 20.000 ug/ml |
| 15) T n-Hexacosane (C26)       | 16.394 | 2712524    | 20.000 ug/ml |
| 16) T n-Octacosane (C28)       | 17.346 | 2656180    | 20.000 ug/ml |
| 17) T n-Tricontane (C30)       | 18.236 | 2820975    | 20.000 ug/ml |
| 18) T n-Dotriacontane (C32)    | 19.071 | 2869454    | 20.000 ug/ml |
| 19) T n-Tetratriacontane (C34) | 19.856 | 2735529    | 20.000 ug/ml |
| 20) T n-Hexatriacontane (C36)  | 20.598 | 2490383    | 20.000 ug/ml |
| 21) T n-Octatriacontane (C38)  | 21.374 | 2320773    | 20.000 ug/ml |
| 22) T n-Tetracontane (C40)     | 22.360 | 2272256    | 20.000 ug/ml |
| -----                          |        |            |              |

(f)=RT Delta > 1/2 Window

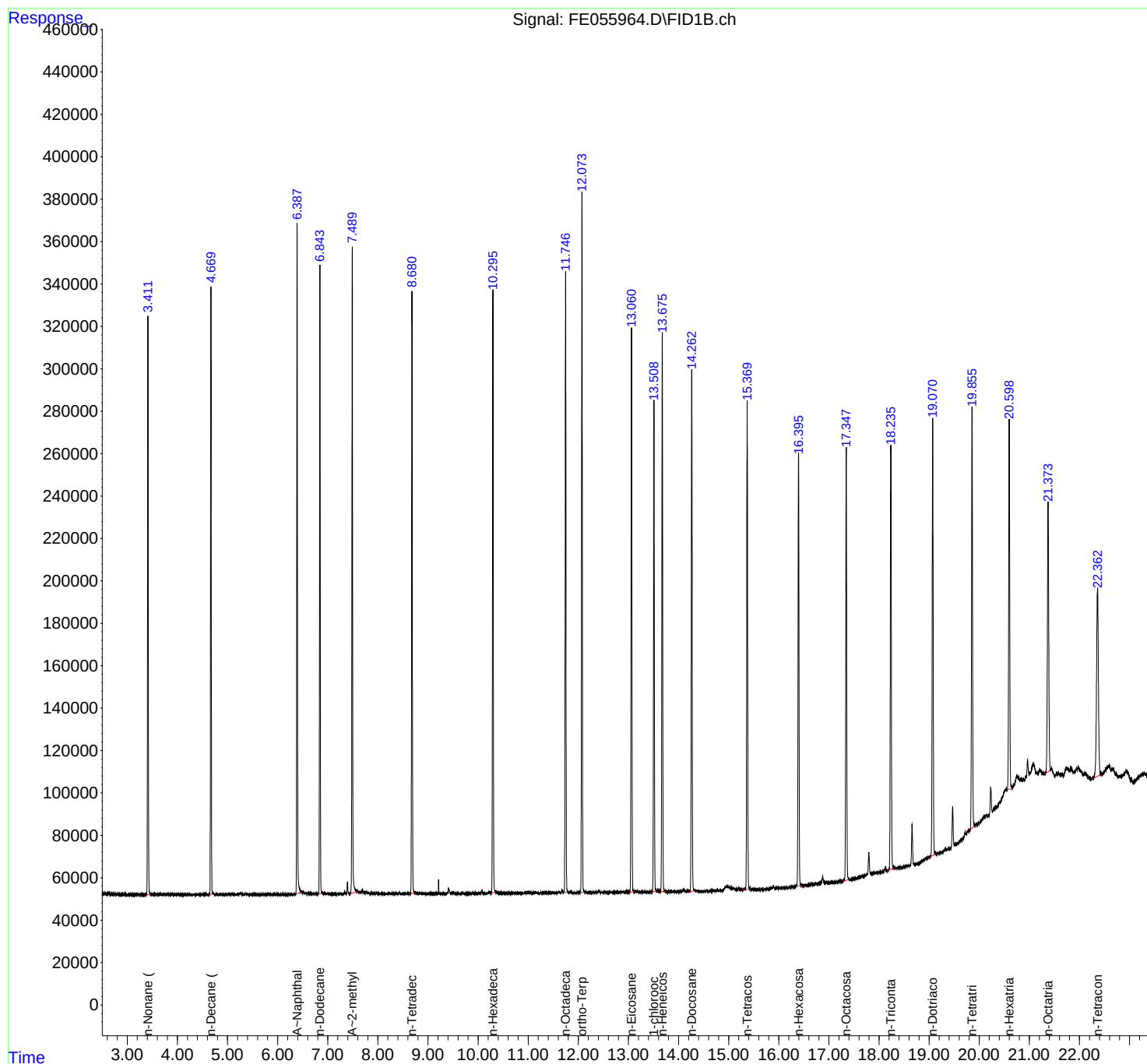
(m)=manual int.

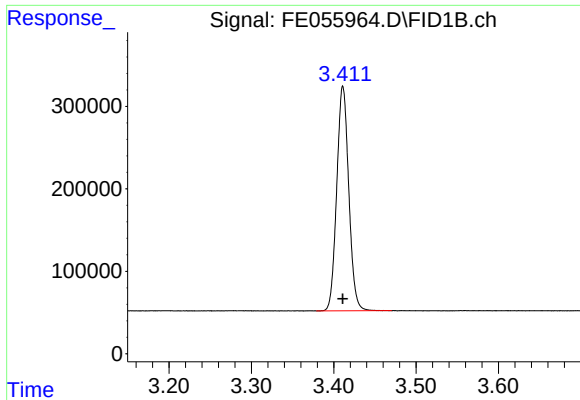
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
Data File : FE055964.D  
Signal(s) : FID1B.ch  
Acq On : 24 Sep 2025 10:07  
Operator : YP\AJ  
Sample : 20 PPM ALIPHATIC HC STD3  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD3

Integration File: autoint1.e  
Quant Time: Sep 24 11:01:05 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 11:00:43 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

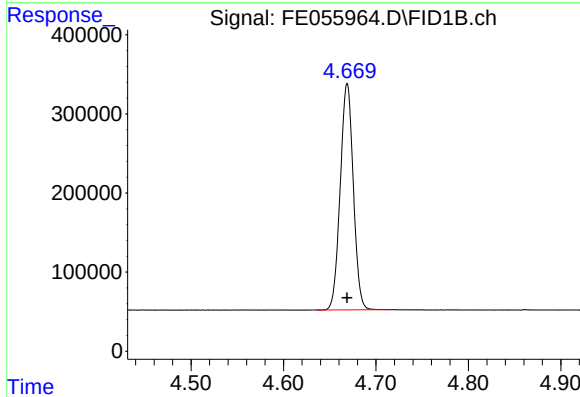




#1 n-Nonane (C9)

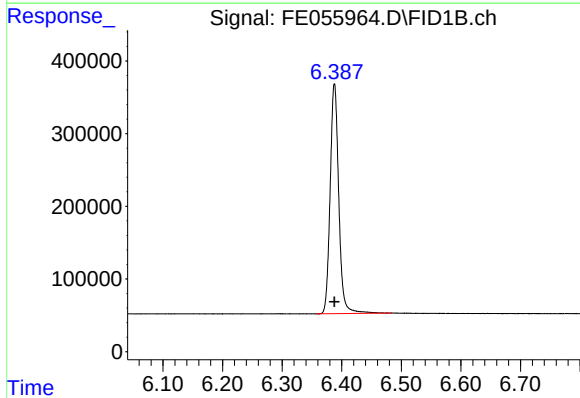
R.T.: 3.411 min  
Delta R.T.: 0.000 min  
Response: 2766852  
Conc: 20.00 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD3



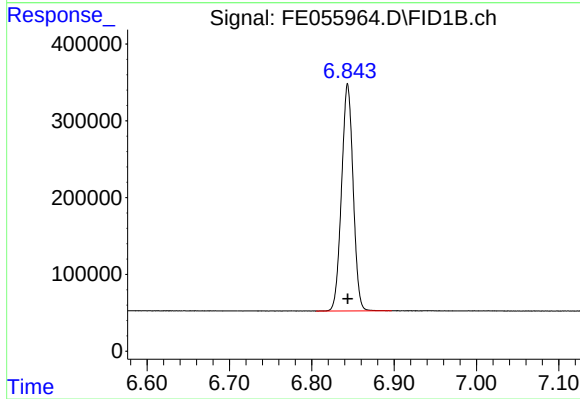
#2 n-Decane (C10)

R.T.: 4.669 min  
Delta R.T.: 0.000 min  
Response: 2814312  
Conc: 20.00 ug/ml



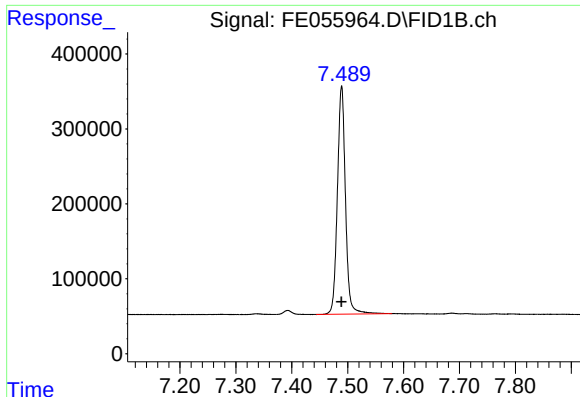
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min  
Delta R.T.: 0.000 min  
Response: 3171326  
Conc: 20.00 ug/ml



#4 n-Dodecane (C12)

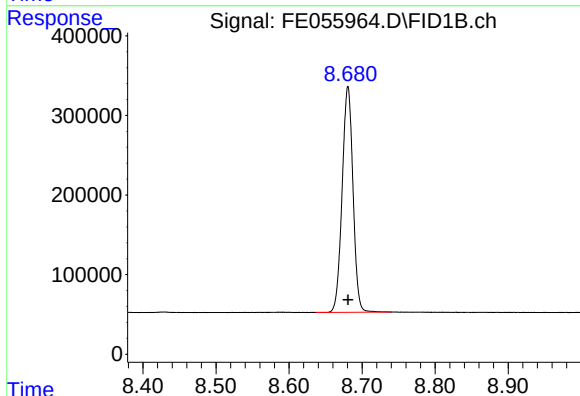
R.T.: 6.844 min  
Delta R.T.: 0.000 min  
Response: 2881508  
Conc: 20.00 ug/ml



#5 A~2-methylnaphthalene (C12.89)

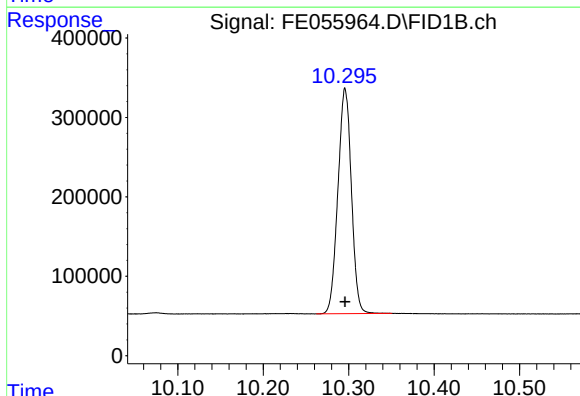
R.T.: 7.489 min  
Delta R.T.: 0.000 min  
Response: 3059763  
Conc: 20.00 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD3



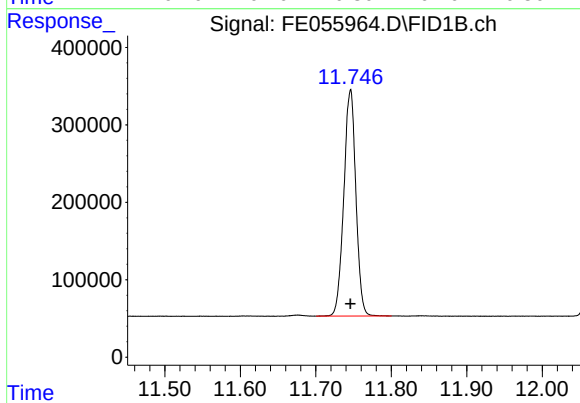
#6 n-Tetradecane (C14)

R.T.: 8.681 min  
Delta R.T.: 0.000 min  
Response: 2927514  
Conc: 20.00 ug/ml



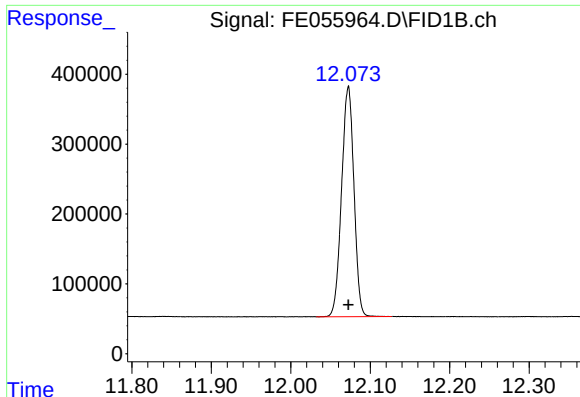
#7 n-Hexadecane (C16)

R.T.: 10.296 min  
Delta R.T.: 0.000 min  
Response: 3109210  
Conc: 20.00 ug/ml



#8 n-Octadecane (C18)

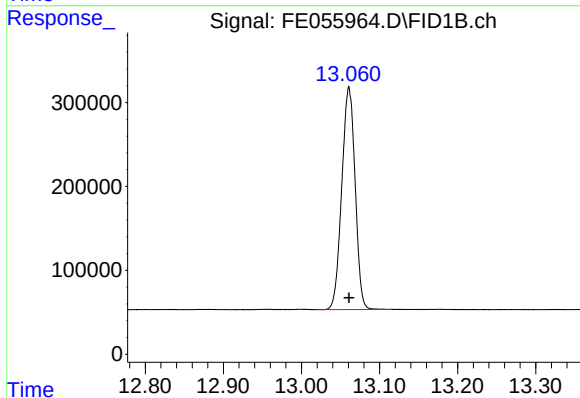
R.T.: 11.746 min  
Delta R.T.: 0.000 min  
Response: 3251555  
Conc: 20.00 ug/ml



#9 ortho-Terphenyl (SURR)

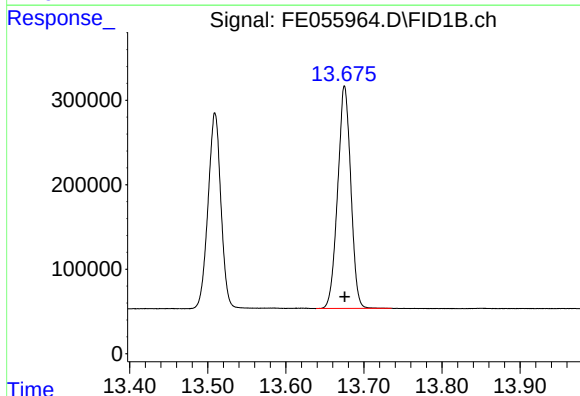
R.T.: 12.072 min  
Delta R.T.: 0.000 min  
Response: 3567994  
Conc: 20.00 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD3



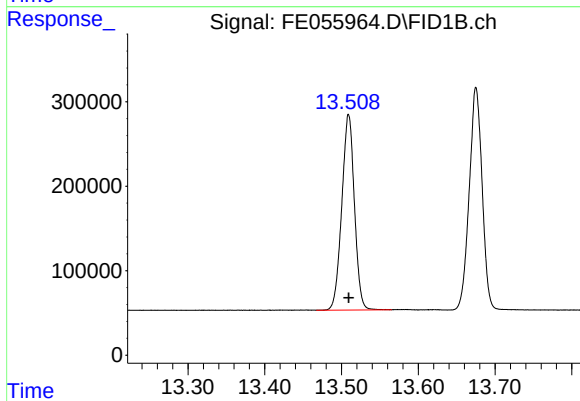
#10 n-Eicosane (C20)

R.T.: 13.061 min  
Delta R.T.: 0.000 min  
Response: 3151785  
Conc: 20.00 ug/ml



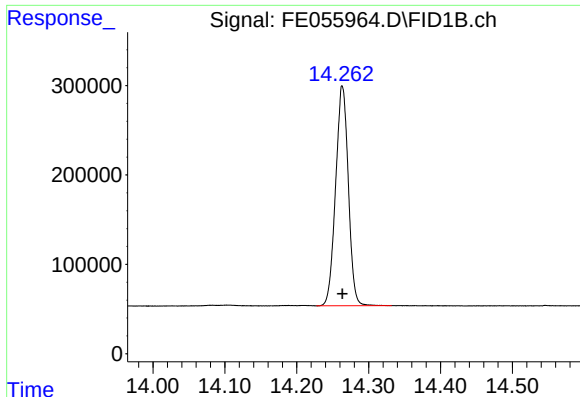
#11 n-Heneicosane (C21)

R.T.: 13.675 min  
Delta R.T.: 0.000 min  
Response: 3077000  
Conc: 20.00 ug/ml



#12 1-chlorooctadecane (SURR)

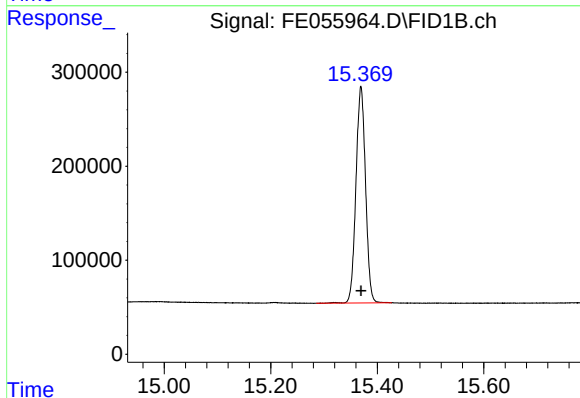
R.T.: 13.509 min  
Delta R.T.: 0.000 min  
Response: 2647245  
Conc: 20.00 ug/ml



#13 n-Docosane (C22)

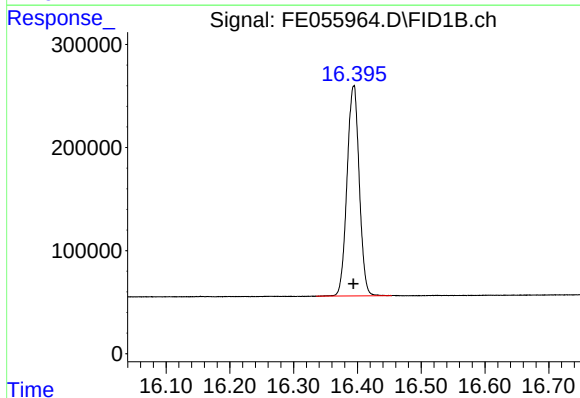
R.T.: 14.264 min  
Delta R.T.: 0.000 min  
Response: 3018934  
Conc: 20.00 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD3



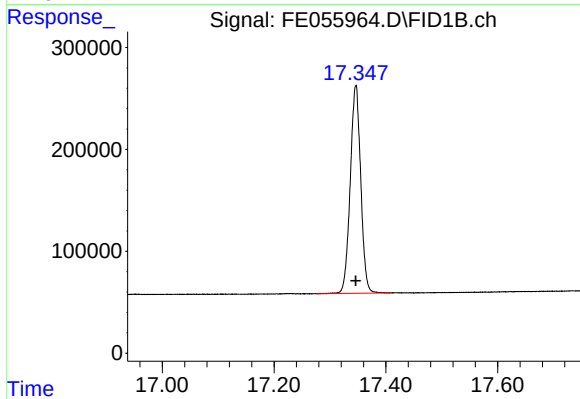
#14 n-Tetracosane (C24)

R.T.: 15.369 min  
Delta R.T.: 0.000 min  
Response: 2880999  
Conc: 20.00 ug/ml



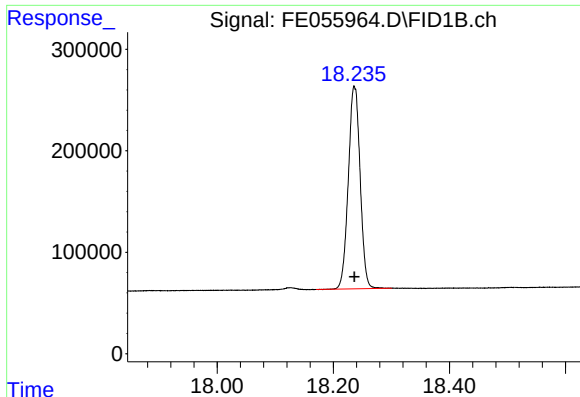
#15 n-Hexacosane (C26)

R.T.: 16.394 min  
Delta R.T.: 0.000 min  
Response: 2712524  
Conc: 20.00 ug/ml



#16 n-Octacosane (C28)

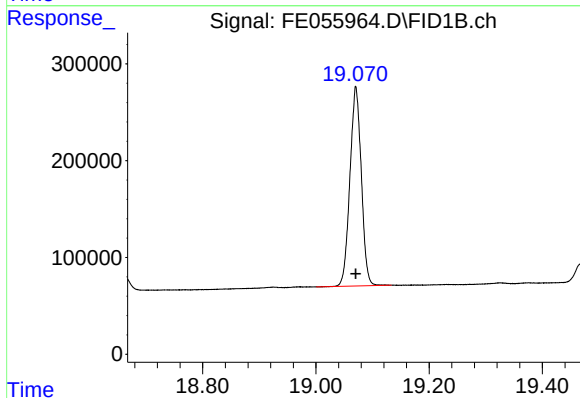
R.T.: 17.346 min  
Delta R.T.: 0.000 min  
Response: 2656180  
Conc: 20.00 ug/ml



#17 n-Tricontane (C30)

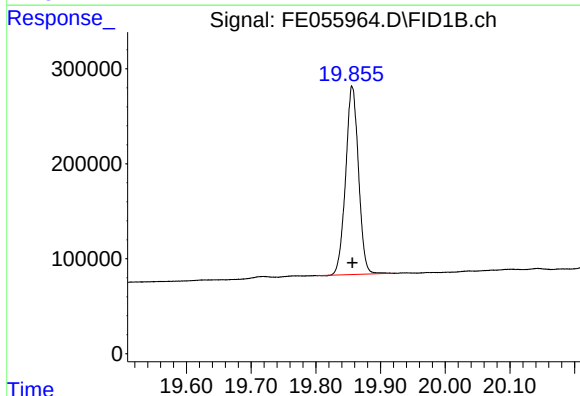
R.T.: 18.236 min  
Delta R.T.: 0.000 min  
Response: 2820975  
Conc: 20.00 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD3



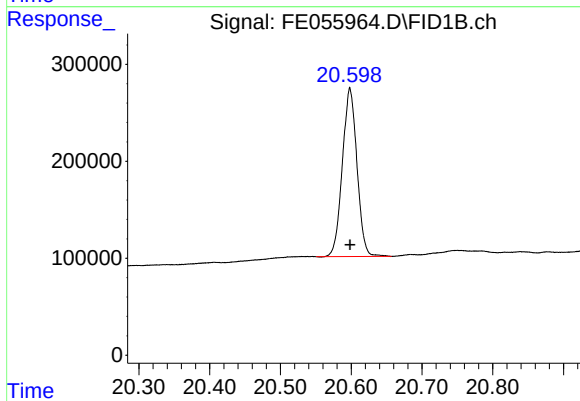
#18 n-Dotriacontane (C32)

R.T.: 19.071 min  
Delta R.T.: 0.000 min  
Response: 2869454  
Conc: 20.00 ug/ml



#19 n-Tetratriacontane (C34)

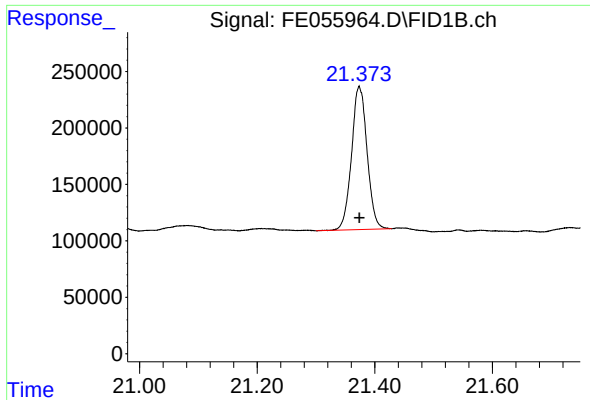
R.T.: 19.856 min  
Delta R.T.: 0.000 min  
Response: 2735529  
Conc: 20.00 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.598 min  
Delta R.T.: 0.000 min  
Response: 2490383  
Conc: 20.00 ug/ml

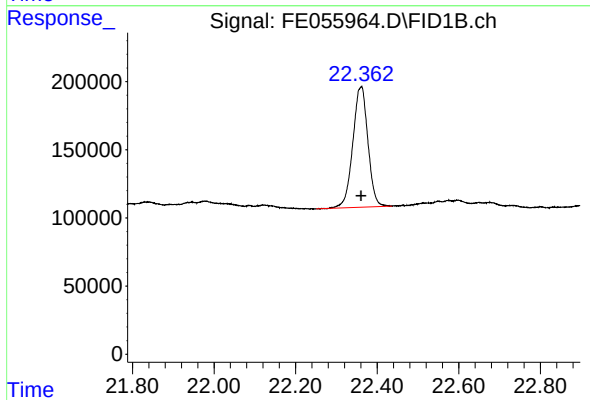




#21 n-Octatriacontane (C38)

R.T.: 21.374 min  
Delta R.T.: 0.000 min  
Response: 2320773  
Conc: 20.00 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD3



#22 n-Tetracontane (C40)

R.T.: 22.360 min  
Delta R.T.: 0.000 min  
Response: 2272256  
Conc: 20.00 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055964.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 10:07  
 Sample : 20 PPM ALIPHATIC HC STD3  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.411       | 3.379        | 3.470      | BB       | 272925         | 2766852      | 77.55%         | 4.378%        |
| 2                       | 4.669       | 4.635        | 4.717      | BB       | 286203         | 2814312      | 78.88%         | 4.453%        |
| 3                       | 6.388       | 6.357        | 6.484      | BB       | 317204         | 3171326      | 88.88%         | 5.018%        |
| 4                       | 6.844       | 6.805        | 6.897      | BB       | 295559         | 2881508      | 80.76%         | 4.559%        |
| 5                       | 7.489       | 7.444        | 7.579      | BB       | 304084         | 3059763      | 85.76%         | 4.841%        |
| 6                       | 8.681       | 8.637        | 8.740      | BB       | 284130         | 2927514      | 82.05%         | 4.632%        |
| 7                       | 10.296      | 10.262       | 10.350     | BB       | 283977         | 3109210      | 87.14%         | 4.919%        |
| 8                       | 11.746      | 11.700       | 11.800     | BB       | 291244         | 3251555      | 91.13%         | 5.145%        |
| 9                       | 12.072      | 12.032       | 12.127     | BB       | 328303         | 3567994      | 100.00%        | 5.645%        |
| 10                      | 13.061      | 13.019       | 13.115     | BB       | 265259         | 3151785      | 88.33%         | 4.987%        |
| 11                      | 13.509      | 13.467       | 13.565     | BB       | 232459         | 2647245      | 74.19%         | 4.188%        |
| 12                      | 13.675      | 13.639       | 13.735     | BB       | 263085         | 3077000      | 86.24%         | 4.868%        |
| 13                      | 14.264      | 14.227       | 14.332     | BB       | 245238         | 3018934      | 84.61%         | 4.776%        |
| 14                      | 15.369      | 15.285       | 15.427     | BB       | 230996         | 2880999      | 80.75%         | 4.558%        |
| 15                      | 16.394      | 16.335       | 16.454     | BB       | 203871         | 2712524      | 76.02%         | 4.292%        |
| 16                      | 17.346      | 17.275       | 17.410     | BB       | 204223         | 2656180      | 74.44%         | 4.203%        |
| 17                      | 18.236      | 18.170       | 18.300     | BB       | 198304         | 2820975      | 79.06%         | 4.463%        |
| 18                      | 19.071      | 19.000       | 19.134     | BB       | 206283         | 2869454      | 80.42%         | 4.540%        |
| 19                      | 19.856      | 19.800       | 19.917     | BB       | 197030         | 2735529      | 76.67%         | 4.328%        |
| 20                      | 20.598      | 20.550       | 20.657     | BV       | 173259         | 2490383      | 69.80%         | 3.940%        |
| 21                      | 21.374      | 21.300       | 21.429     | BV       | 126907         | 2320773      | 65.04%         | 3.672%        |
| 22                      | 22.360      | 22.250       | 22.435     | BB       | 88187          | 2272256      | 63.68%         | 3.595%        |
| Sum of corrected areas: |             |              |            |          |                | 63204070     |                |               |

Aliphatic EPH 092425.M Wed Sep 24 15:37:20 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055965.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 10:38  
 Operator : YP\AJ  
 Sample : 10 PPM ALIPHATIC HC STD4  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e  
 Quant Time: Sep 24 12:53:13 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:53:03 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units   |
|--------------------------------|--------|------------|--------------|
| -----                          |        |            |              |
| System Monitoring Compounds    |        |            |              |
| 9) S ortho-Terphenyl (SURR)    | 12.070 | 1954951    | 10.632 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 21.26%       |
| 12) S 1-chlorooctadecane (S... | 13.507 | 1449608    | 10.566 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 21.13%       |
| Target Compounds               |        |            |              |
| 1) T n-Nonane (C9)             | 3.408  | 1363863    | 9.986 ug/ml  |
| 2) T n-Decane (C10)            | 4.667  | 1391033    | 9.997 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.387  | 1598546    | 9.989 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.843  | 1436113    | 10.031 ug/ml |
| 5) T A~2-methylnaphthalene...  | 7.488  | 1559116    | 9.998 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.680  | 1496128    | 10.183 ug/ml |
| 7) T n-Hexadecane (C16)        | 10.294 | 1620157    | 10.289 ug/ml |
| 8) T n-Octadecane (C18)        | 11.744 | 1759004    | 10.560 ug/ml |
| 10) T n-Eicosane (C20)         | 13.059 | 1725698    | 10.625 ug/ml |
| 11) T n-Heneicosane (C21)      | 13.674 | 1692180    | 10.652 ug/ml |
| 13) T n-Docosane (C22)         | 14.262 | 1664317    | 10.666 ug/ml |
| 14) T n-Tetracosane (C24)      | 15.369 | 1581785    | 10.651 ug/ml |
| 15) T n-Hexacosane (C26)       | 16.393 | 1487319    | 10.683 ug/ml |
| 16) T n-Octacosane (C28)       | 17.345 | 1455613    | 10.805 ug/ml |
| 17) T n-Tricontane (C30)       | 18.235 | 1558692    | 11.075 ug/ml |
| 18) T n-Dotriacontane (C32)    | 19.070 | 1561208    | 11.073 ug/ml |
| 19) T n-Tetratriacontane (C34) | 19.856 | 1478766    | 10.935 ug/ml |
| 20) T n-Hexatriacontane (C36)  | 20.597 | 1356484    | 10.855 ug/ml |
| 21) T n-Octatriacontane (C38)  | 21.372 | 1544566    | 12.174 ug/ml |
| 22) T n-Tetracontane (C40)     | 22.359 | 1260670    | 10.882 ug/ml |
| -----                          |        |            |              |

(f)=RT Delta > 1/2 Window

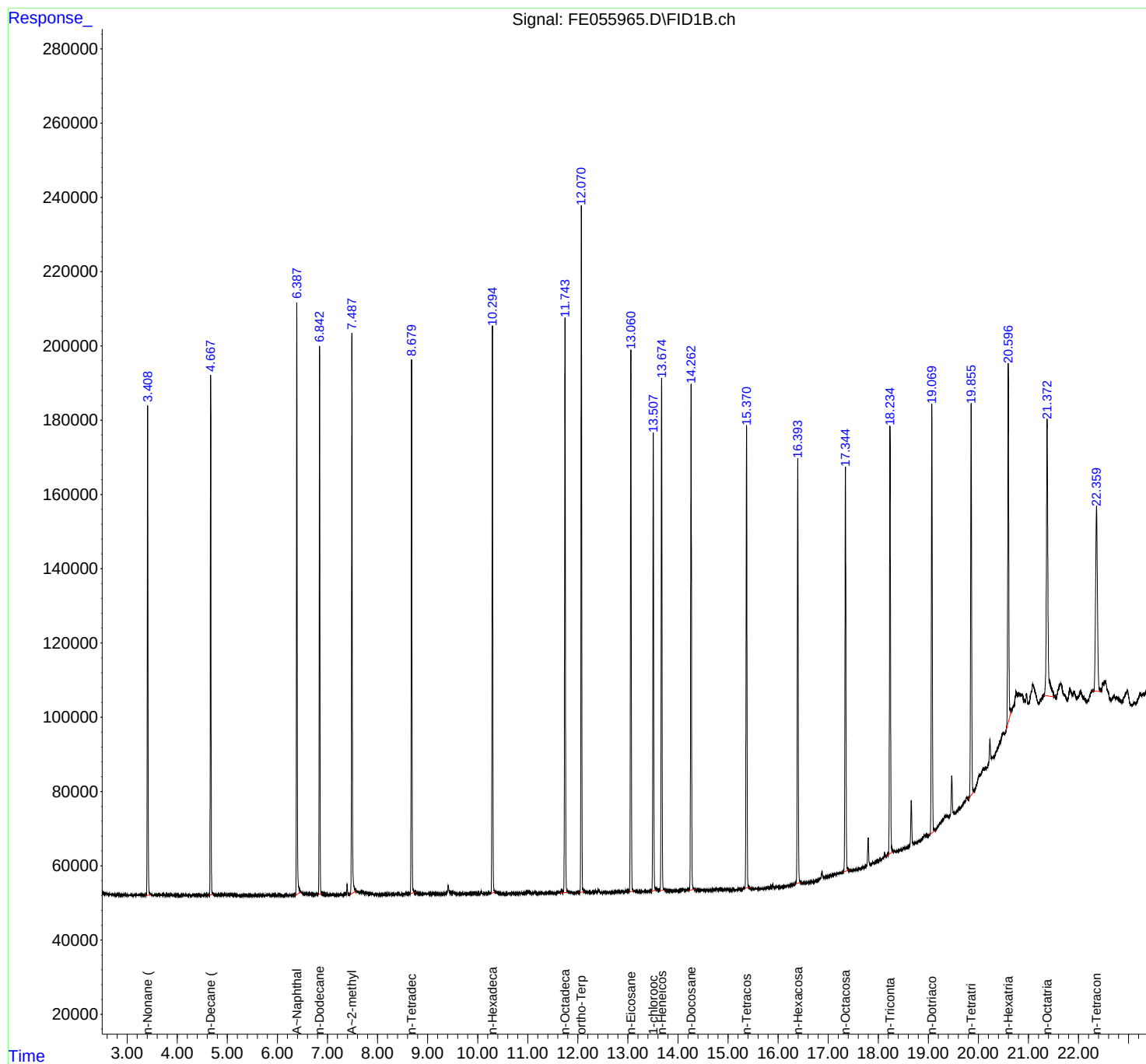
(m)=manual int.

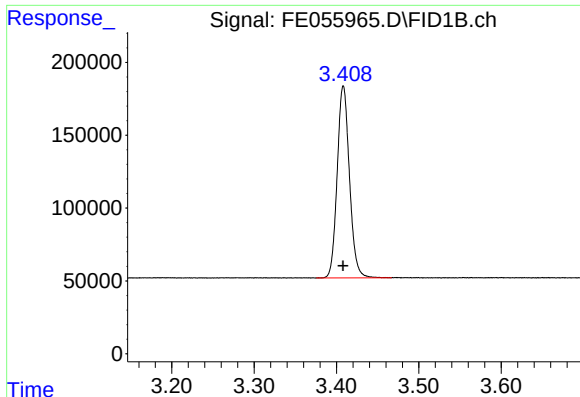
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
Data File : FE055965.D  
Signal(s) : FID1B.ch  
Acq On : 24 Sep 2025 10:38  
Operator : YP\AJ  
Sample : 10 PPM ALIPHATIC HC STD4  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
10 PPM ALIPHATIC HC STD4

Integration File: autoint1.e  
Quant Time: Sep 24 12:53:13 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:53:03 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

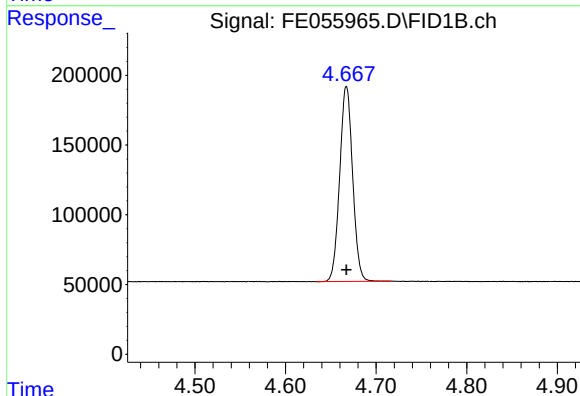




#1 n-Nonane (C9)

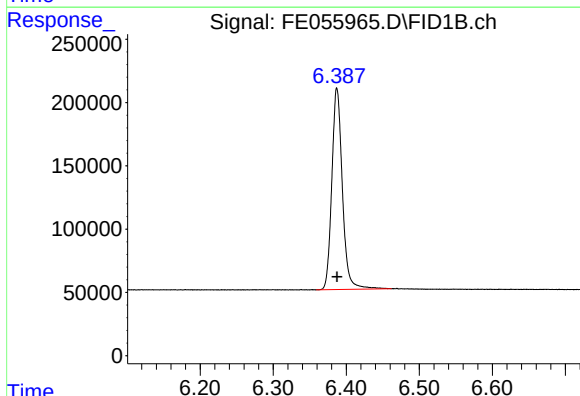
R.T.: 3.408 min  
Delta R.T.: 0.000 min  
Response: 1363863  
Conc: 9.99 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
10 PPM ALIPHATIC HC STD4



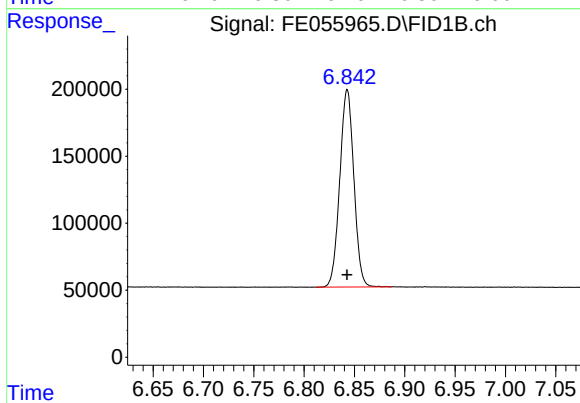
#2 n-Decane (C10)

R.T.: 4.667 min  
Delta R.T.: 0.000 min  
Response: 1391033  
Conc: 10.00 ug/ml



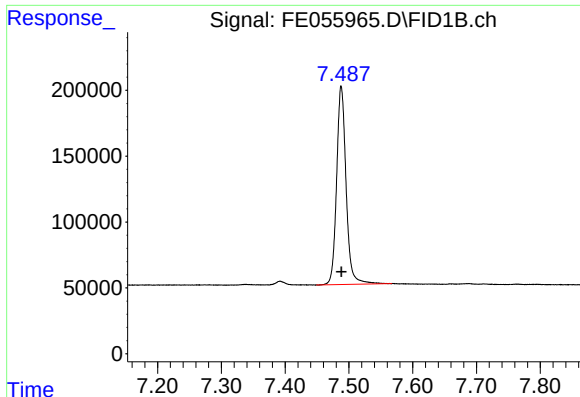
#3 A~Naphthalene (C11.7)

R.T.: 6.387 min  
Delta R.T.: 0.000 min  
Response: 1598546  
Conc: 9.99 ug/ml



#4 n-Dodecane (C12)

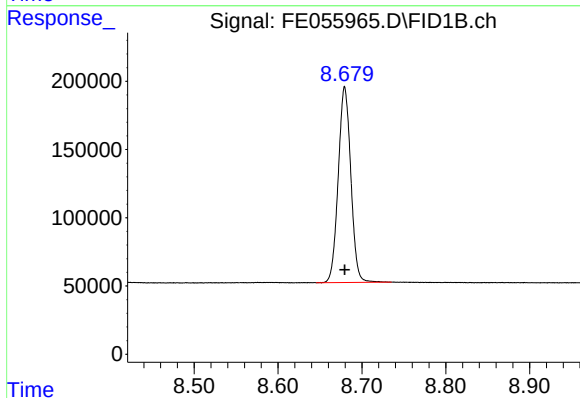
R.T.: 6.843 min  
Delta R.T.: 0.000 min  
Response: 1436113  
Conc: 10.03 ug/ml



#5 A~2-methylnaphthalene (C12.89)

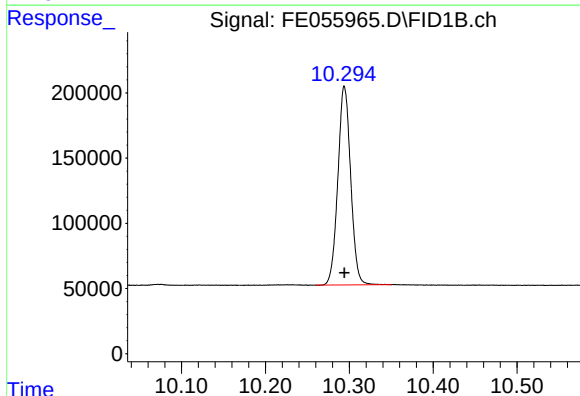
R.T.: 7.488 min  
Delta R.T.: 0.000 min  
Response: 1559116  
Conc: 10.00 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
10 PPM ALIPHATIC HC STD4



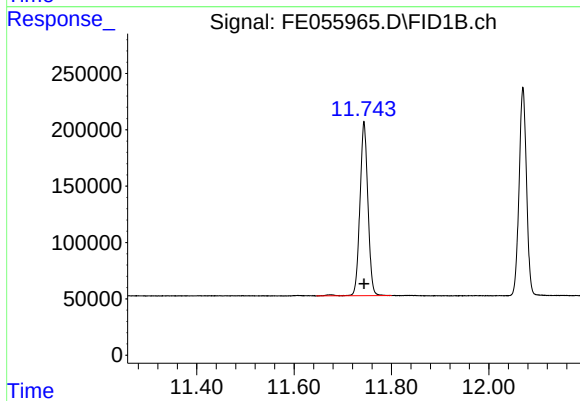
#6 n-Tetradecane (C14)

R.T.: 8.680 min  
Delta R.T.: 0.000 min  
Response: 1496128  
Conc: 10.18 ug/ml



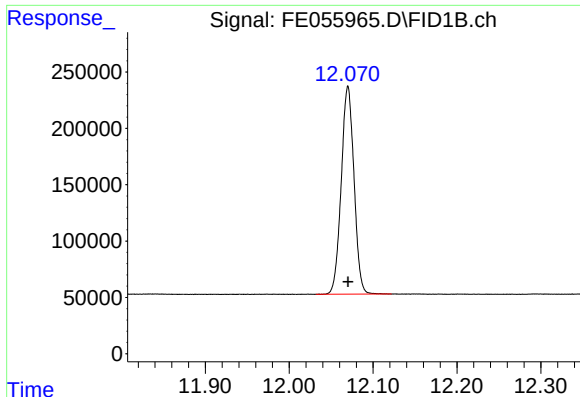
#7 n-Hexadecane (C16)

R.T.: 10.294 min  
Delta R.T.: 0.000 min  
Response: 1620157  
Conc: 10.29 ug/ml



#8 n-Octadecane (C18)

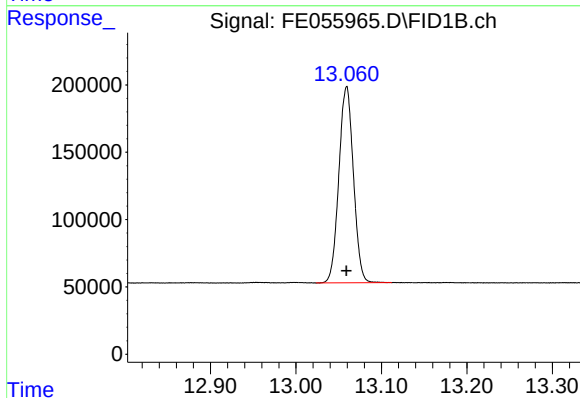
R.T.: 11.744 min  
Delta R.T.: 0.000 min  
Response: 1759004  
Conc: 10.56 ug/ml



#9 ortho-Terphenyl (SURR)

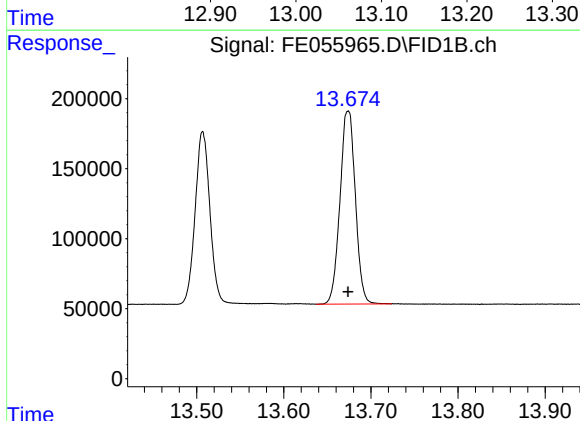
R.T.: 12.070 min  
Delta R.T.: 0.000 min  
Response: 1954951  
Conc: 10.63 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
10 PPM ALIPHATIC HC STD4



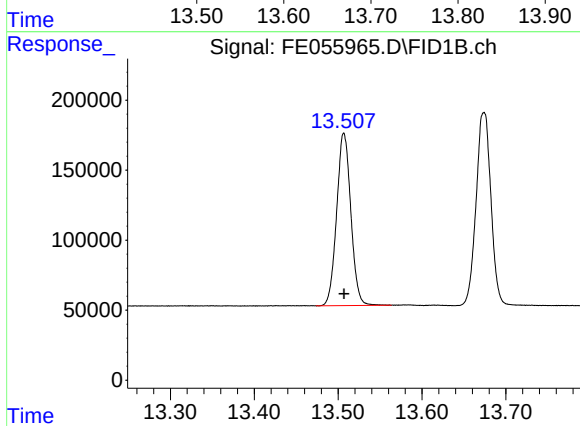
#10 n-Eicosane (C20)

R.T.: 13.059 min  
Delta R.T.: 0.000 min  
Response: 1725698  
Conc: 10.62 ug/ml



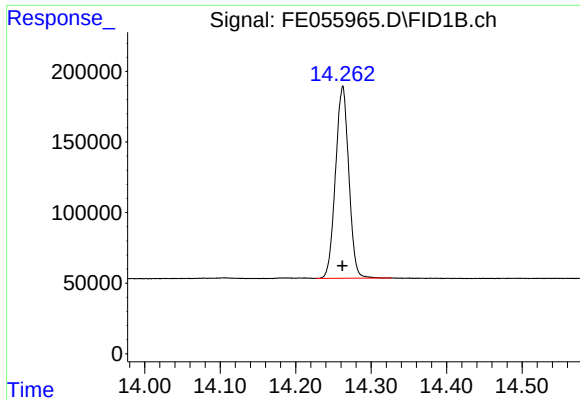
#11 n-Heneicosane (C21)

R.T.: 13.674 min  
Delta R.T.: 0.000 min  
Response: 1692180  
Conc: 10.65 ug/ml



#12 1-chlorooctadecane (SURR)

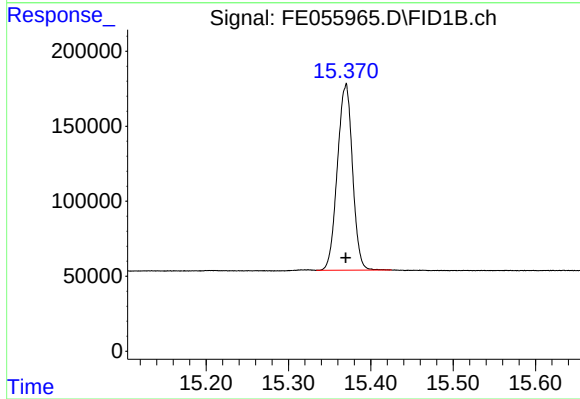
R.T.: 13.507 min  
Delta R.T.: 0.000 min  
Response: 1449608  
Conc: 10.57 ug/ml



#13 n-Docosane (C22)

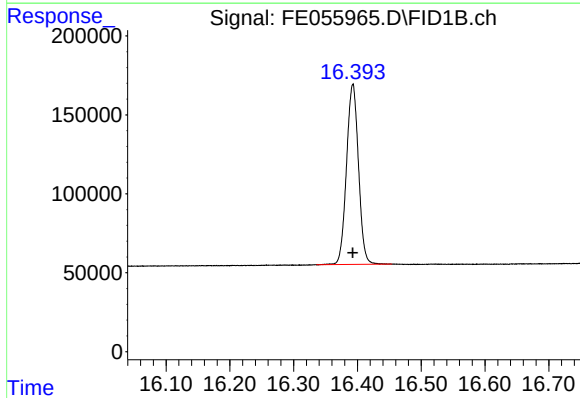
R.T.: 14.262 min  
Delta R.T.: 0.000 min  
Response: 1664317  
Conc: 10.67 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
10 PPM ALIPHATIC HC STD4



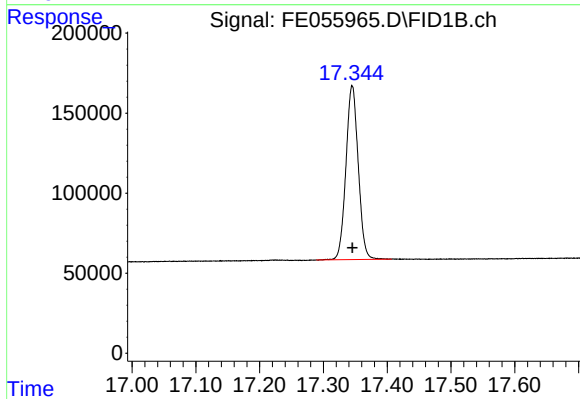
#14 n-Tetracosane (C24)

R.T.: 15.369 min  
Delta R.T.: 0.000 min  
Response: 1581785  
Conc: 10.65 ug/ml



#15 n-Hexacosane (C26)

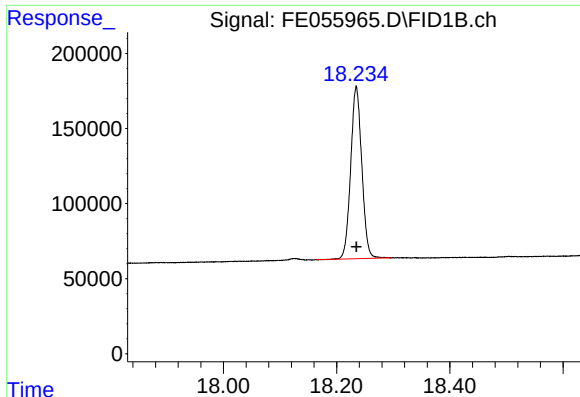
R.T.: 16.393 min  
Delta R.T.: 0.000 min  
Response: 1487319  
Conc: 10.68 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.345 min  
Delta R.T.: 0.000 min  
Response: 1455613  
Conc: 10.80 ug/ml

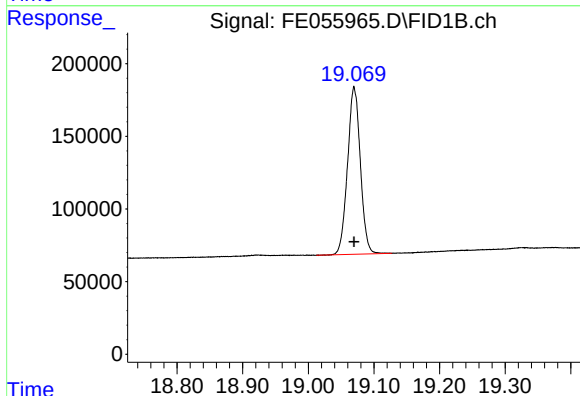




#17 n-Tricontane (C30)

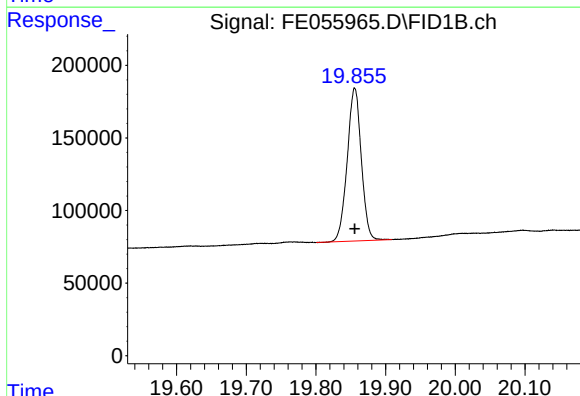
R.T.: 18.235 min  
Delta R.T.: 0.000 min  
Response: 1558692  
Conc: 11.08 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
10 PPM ALIPHATIC HC STD4



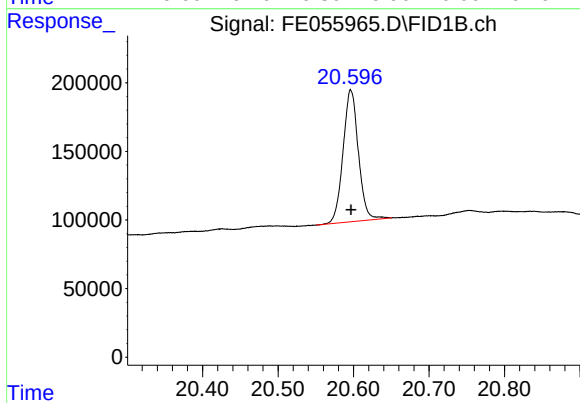
#18 n-Dotriacontane (C32)

R.T.: 19.070 min  
Delta R.T.: 0.000 min  
Response: 1561208  
Conc: 11.07 ug/ml



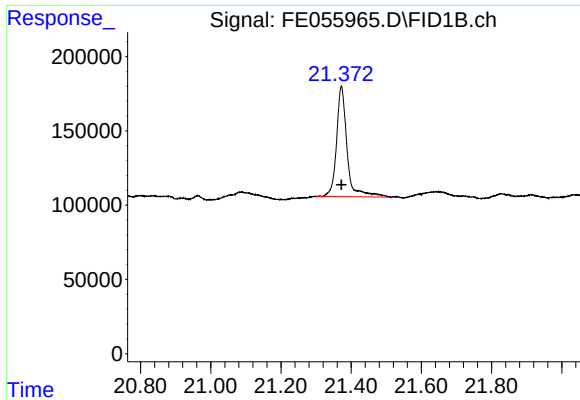
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min  
Delta R.T.: 0.000 min  
Response: 1478766  
Conc: 10.93 ug/ml



#20 n-Hexatriacontane (C36)

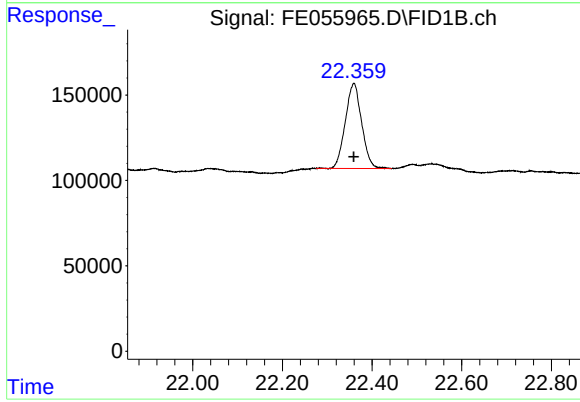
R.T.: 20.597 min  
Delta R.T.: 0.000 min  
Response: 1356484  
Conc: 10.85 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.372 min  
Delta R.T.: 0.000 min  
Response: 1544566  
Conc: 12.17 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
10 PPM ALIPHATIC HC STD4



#22 n-Tetracontane (C40)

R.T.: 22.359 min  
Delta R.T.: 0.000 min  
Response: 1260670  
Conc: 10.88 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055965.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 10:38  
 Sample : 10 PPM ALIPHATIC HC STD4  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.408       | 3.375        | 3.467      | BB       | 131891         | 1363863      | 69.76%         | 4.012%        |
| 2                       | 4.667       | 4.634        | 4.717      | BB       | 140046         | 1391033      | 71.15%         | 4.092%        |
| 3                       | 6.387       | 6.359        | 6.462      | BB       | 159227         | 1598546      | 81.77%         | 4.702%        |
| 4                       | 6.843       | 6.812        | 6.887      | BB       | 147153         | 1436113      | 73.46%         | 4.224%        |
| 5                       | 7.488       | 7.449        | 7.567      | BB       | 149955         | 1559116      | 79.75%         | 4.586%        |
| 6                       | 8.680       | 8.645        | 8.735      | BB       | 142760         | 1496128      | 76.53%         | 4.401%        |
| 7                       | 10.294      | 10.260       | 10.350     | BB       | 152463         | 1620157      | 82.87%         | 4.766%        |
| 8                       | 11.744      | 11.645       | 11.800     | BB       | 154452         | 1759004      | 89.98%         | 5.174%        |
| 9                       | 12.070      | 12.032       | 12.122     | BB       | 185078         | 1954951      | 100.00%        | 5.751%        |
| 10                      | 13.059      | 13.024       | 13.112     | BB       | 145649         | 1725698      | 88.27%         | 5.076%        |
| 11                      | 13.507      | 13.474       | 13.564     | BB       | 123157         | 1449608      | 74.15%         | 4.264%        |
| 12                      | 13.674      | 13.637       | 13.724     | BB       | 137839         | 1692180      | 86.56%         | 4.978%        |
| 13                      | 14.262      | 14.227       | 14.327     | BB       | 136020         | 1664317      | 85.13%         | 4.896%        |
| 14                      | 15.369      | 15.334       | 15.425     | BB       | 122593         | 1581785      | 80.91%         | 4.653%        |
| 15                      | 16.393      | 16.335       | 16.454     | BB       | 114164         | 1487319      | 76.08%         | 4.375%        |
| 16                      | 17.345      | 17.289       | 17.407     | BB       | 108605         | 1455613      | 74.46%         | 4.282%        |
| 17                      | 18.235      | 18.164       | 18.297     | BB       | 114916         | 1558692      | 79.73%         | 4.585%        |
| 18                      | 19.070      | 19.012       | 19.127     | BB       | 114664         | 1561208      | 79.86%         | 4.592%        |
| 19                      | 19.856      | 19.800       | 19.909     | BB       | 105560         | 1478766      | 75.64%         | 4.350%        |
| 20                      | 20.597      | 20.550       | 20.650     | BB       | 95575          | 1356484      | 69.39%         | 3.990%        |
| 21                      | 21.372      | 21.300       | 21.515     | BB       | 74470          | 1544566      | 79.01%         | 4.543%        |
| 22                      | 22.359      | 22.275       | 22.444     | BB       | 49805          | 1260670      | 64.49%         | 3.708%        |
| Sum of corrected areas: |             |              |            |          |                |              | 33995817       |               |

Aliphatic EPH 092425.M Wed Sep 24 15:37:44 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055966.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 11:08  
 Operator : YP\AJ  
 Sample : 5 PPM ALIPHATIC HC STD5  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e  
 Quant Time: Sep 24 12:55:06 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:54:57 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units  |
|--------------------------------|--------|------------|-------------|
| -----                          |        |            |             |
| System Monitoring Compounds    |        |            |             |
| 9) S ortho-Terphenyl (SURR)    | 12.070 | 1013713    | 5.402 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 10.80%      |
| 12) S 1-chlorooctadecane (S... | 13.507 | 745262     | 5.340 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 10.68%      |
| Target Compounds               |        |            |             |
| 1) T n-Nonane (C9)             | 3.408  | 693246     | 5.060 ug/ml |
| 2) T n-Decane (C10)            | 4.667  | 706292     | 5.061 ug/ml |
| 3) T A~Naphthalene (C11.7)     | 6.388  | 790843     | 4.953 ug/ml |
| 4) T n-Dodecane (C12)          | 6.843  | 724977     | 5.051 ug/ml |
| 5) T A~2-methylnaphthalene...  | 7.489  | 768994     | 4.945 ug/ml |
| 6) T n-Tetradecane (C14)       | 8.679  | 757520     | 5.124 ug/ml |
| 7) T n-Hexadecane (C16)        | 10.294 | 823386     | 5.182 ug/ml |
| 8) T n-Octadecane (C18)        | 11.744 | 903131     | 5.332 ug/ml |
| 10) T n-Eicosane (C20)         | 13.059 | 895641     | 5.403 ug/ml |
| 11) T n-Heneicosane (C21)      | 13.673 | 885060     | 5.447 ug/ml |
| 13) T n-Docosane (C22)         | 14.262 | 874093     | 5.470 ug/ml |
| 14) T n-Tetracosane (C24)      | 15.369 | 839256     | 5.508 ug/ml |
| 15) T n-Hexacosane (C26)       | 16.393 | 781387     | 5.478 ug/ml |
| 16) T n-Octacosane (C28)       | 17.345 | 788239     | 5.658 ug/ml |
| 17) T n-Tricontane (C30)       | 18.235 | 889830     | 6.005 ug/ml |
| 18) T n-Dotriacontane (C32)    | 19.070 | 910224     | 6.101 ug/ml |
| 19) T n-Tetratriacontane (C34) | 19.855 | 831525     | 5.879 ug/ml |
| 20) T n-Hexatriacontane (C36)  | 20.596 | 709931     | 5.530 ug/ml |
| 21) T n-Octatriacontane (C38)  | 21.372 | 745994     | 5.680 ug/ml |
| 22) T n-Tetracontane (C40)     | 22.356 | 657258     | 5.525 ug/ml |
| -----                          |        |            |             |

(f)=RT Delta > 1/2 Window

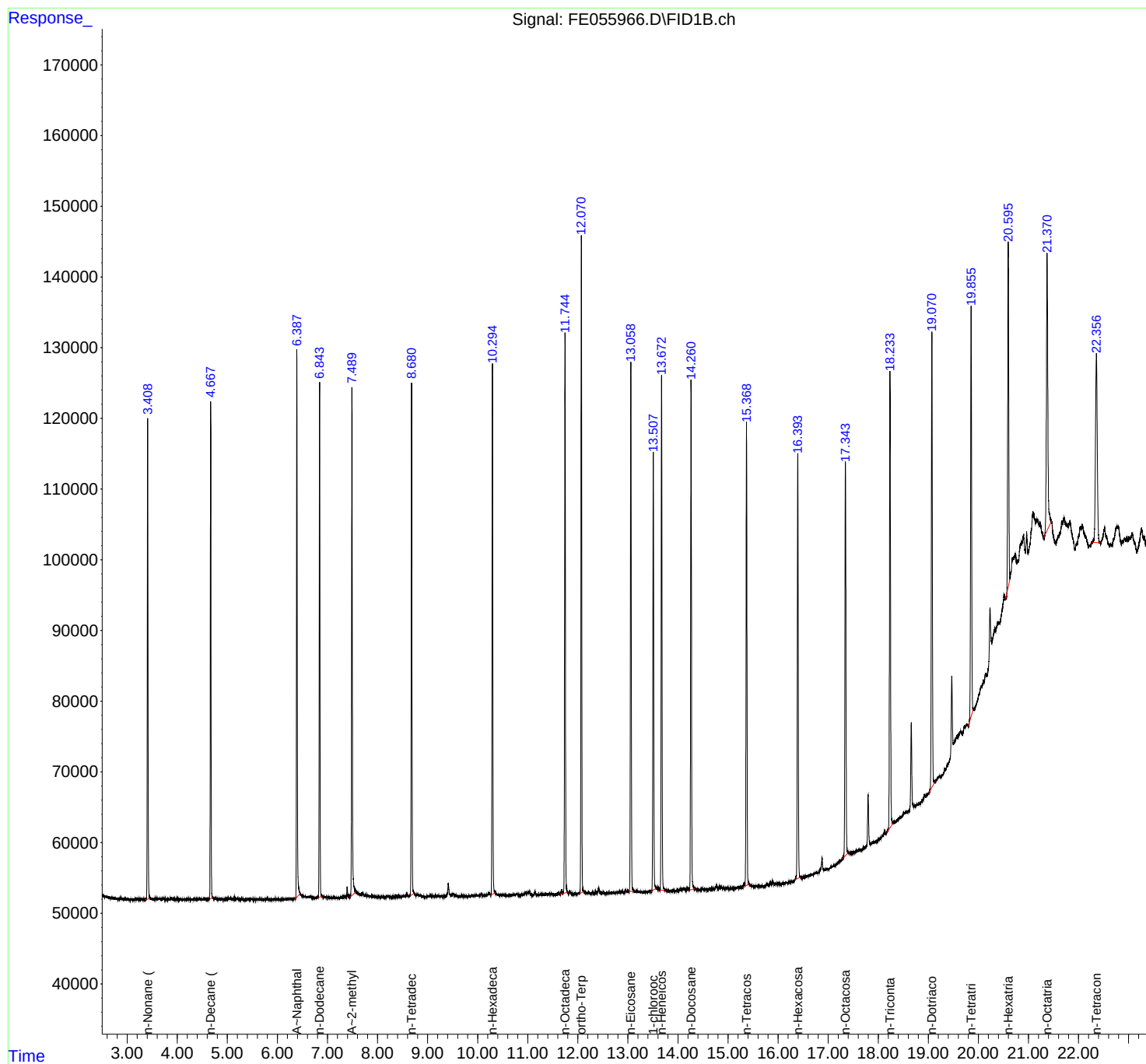
(m)=manual int.

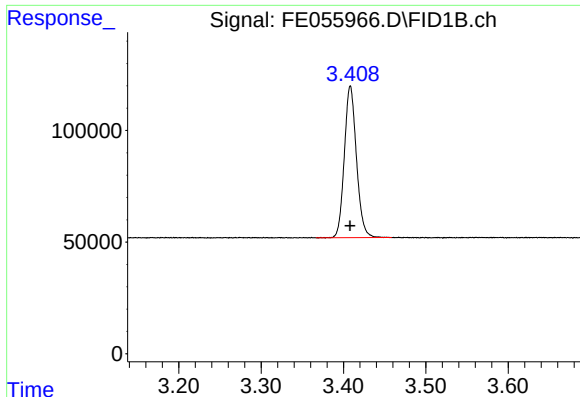
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
Data File : FE055966.D  
Signal(s) : FID1B.ch  
Acq On : 24 Sep 2025 11:08  
Operator : YP\AJ  
Sample : 5 PPM ALIPHATIC HC STD5  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
5 PPM ALIPHATIC HC STD5

Integration File: autoint1.e  
Quant Time: Sep 24 12:55:06 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:54:57 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

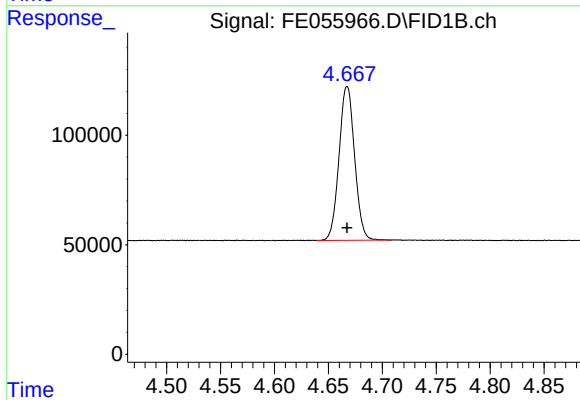




#1 n-Nonane (C9)

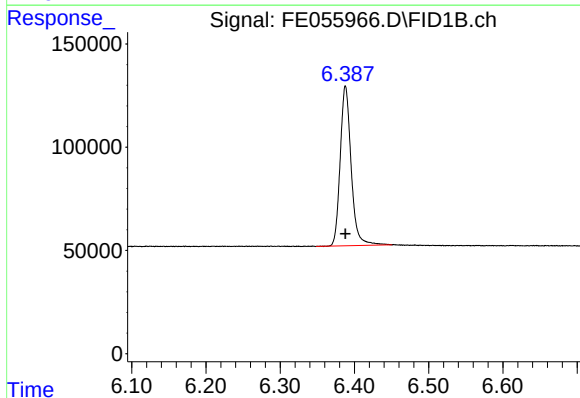
R.T.: 3.408 min  
Delta R.T.: 0.000 min  
Response: 693246  
Conc: 5.06 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
5 PPM ALIPHATIC HC STD5



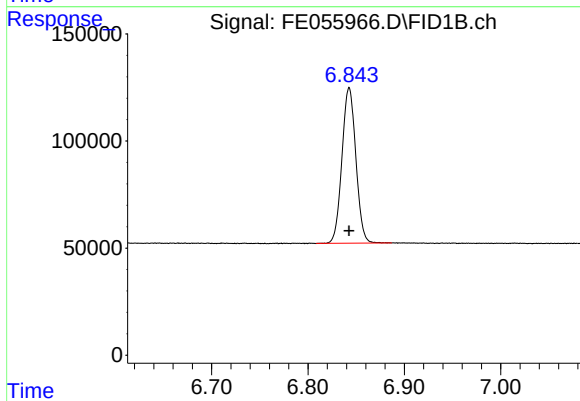
#2 n-Decane (C10)

R.T.: 4.667 min  
Delta R.T.: 0.000 min  
Response: 706292  
Conc: 5.06 ug/ml



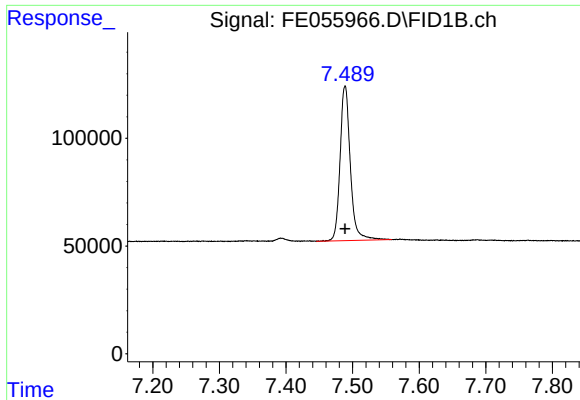
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min  
Delta R.T.: 0.000 min  
Response: 790843  
Conc: 4.95 ug/ml



#4 n-Dodecane (C12)

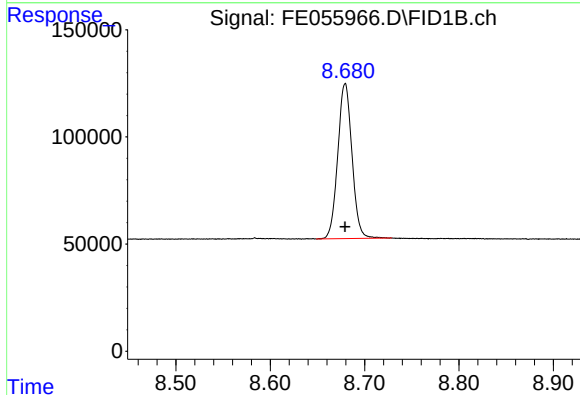
R.T.: 6.843 min  
Delta R.T.: 0.000 min  
Response: 724977  
Conc: 5.05 ug/ml



#5 A~2-methylnaphthalene (C12.89)

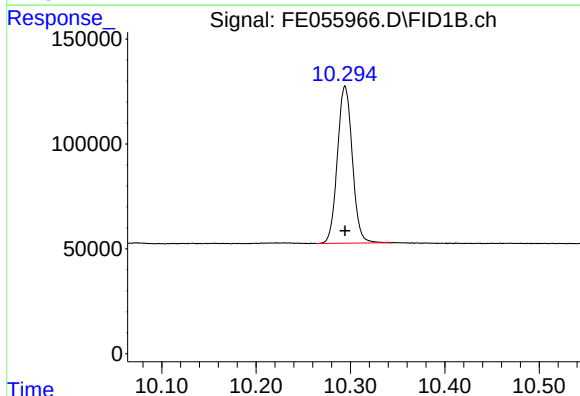
R.T.: 7.489 min  
Delta R.T.: 0.000 min  
Response: 768994  
Conc: 4.94 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
5 PPM ALIPHATIC HC STD5



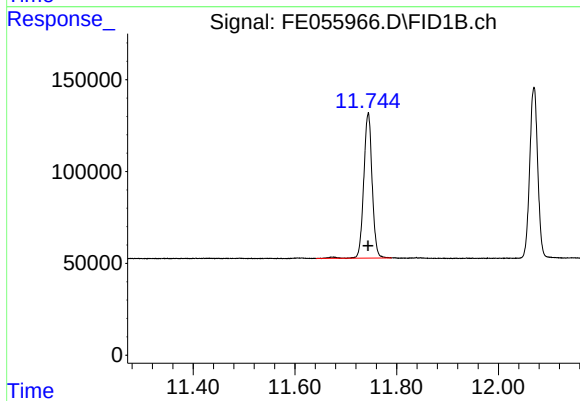
#6 n-Tetradecane (C14)

R.T.: 8.679 min  
Delta R.T.: 0.000 min  
Response: 757520  
Conc: 5.12 ug/ml



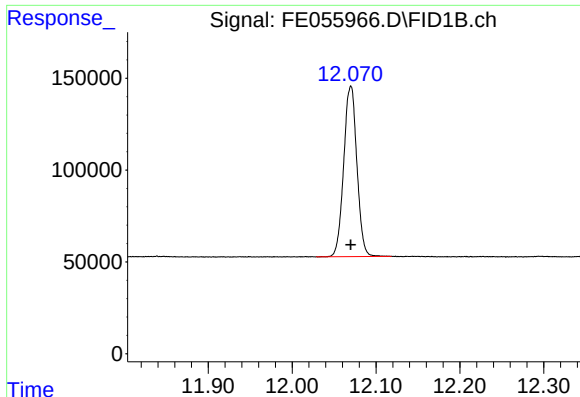
#7 n-Hexadecane (C16)

R.T.: 10.294 min  
Delta R.T.: 0.000 min  
Response: 823386  
Conc: 5.18 ug/ml



#8 n-Octadecane (C18)

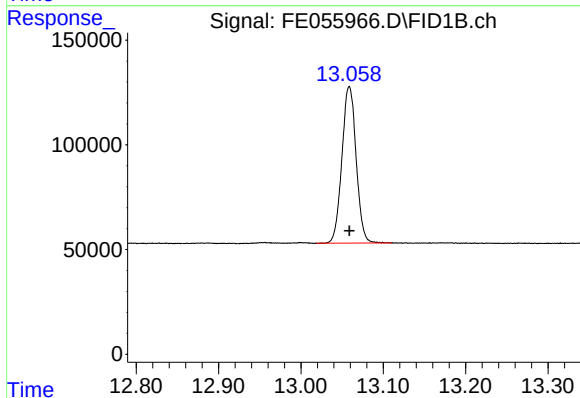
R.T.: 11.744 min  
Delta R.T.: 0.000 min  
Response: 903131  
Conc: 5.33 ug/ml



#9 ortho-Terphenyl (SURR)

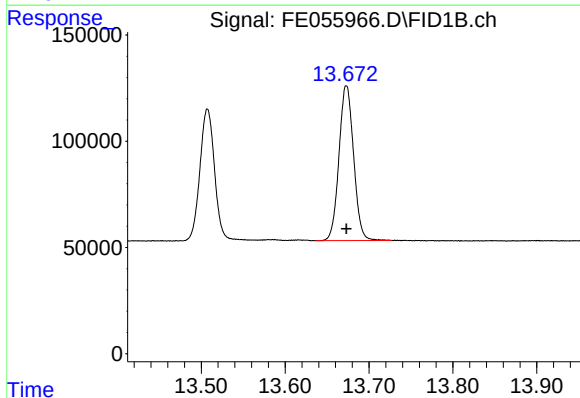
R.T.: 12.070 min  
Delta R.T.: 0.000 min  
Response: 1013713  
Conc: 5.40 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
5 PPM ALIPHATIC HC STD5



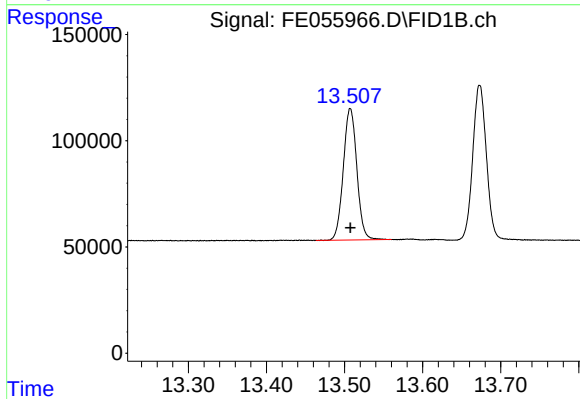
#10 n-Eicosane (C20)

R.T.: 13.059 min  
Delta R.T.: 0.000 min  
Response: 895641  
Conc: 5.40 ug/ml



#11 n-Heneicosane (C21)

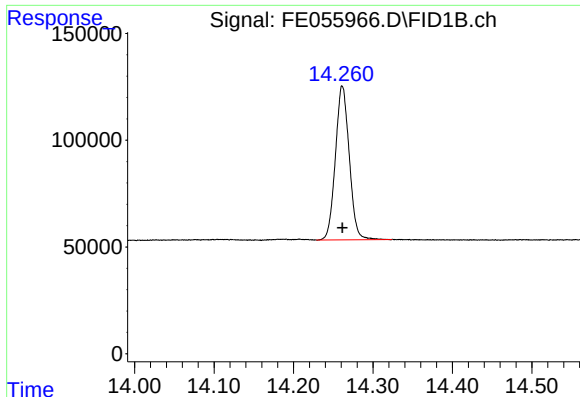
R.T.: 13.673 min  
Delta R.T.: 0.000 min  
Response: 885060  
Conc: 5.45 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.507 min  
Delta R.T.: 0.000 min  
Response: 745262  
Conc: 5.34 ug/ml

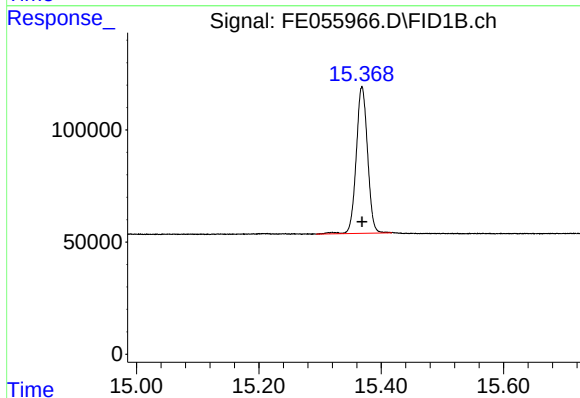




#13 n-Docosane (C22)

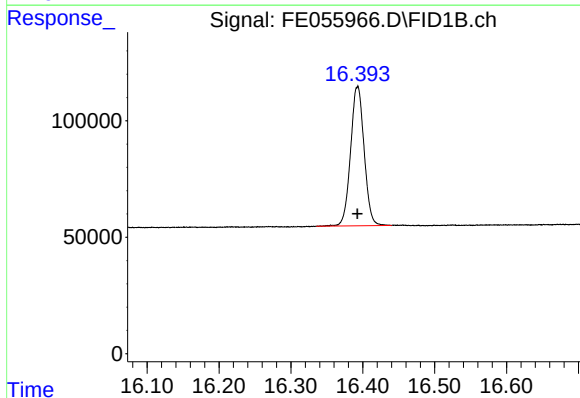
R.T.: 14.262 min  
Delta R.T.: 0.000 min  
Response: 874093  
Conc: 5.47 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
5 PPM ALIPHATIC HC STD5



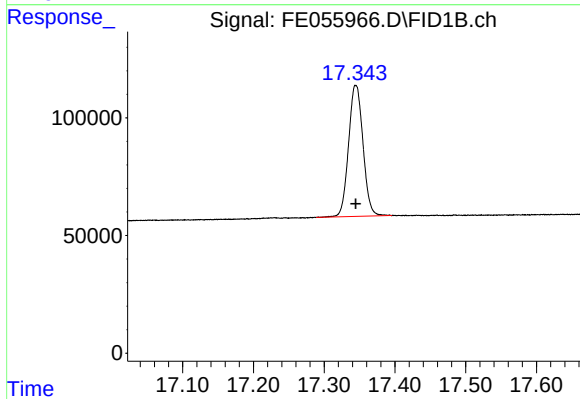
#14 n-Tetracosane (C24)

R.T.: 15.369 min  
Delta R.T.: 0.000 min  
Response: 839256  
Conc: 5.51 ug/ml



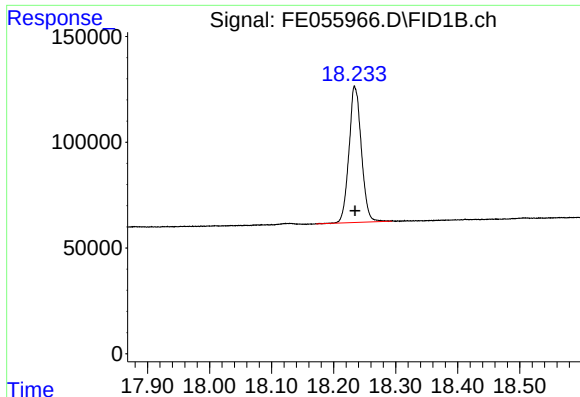
#15 n-Hexacosane (C26)

R.T.: 16.393 min  
Delta R.T.: 0.000 min  
Response: 781387  
Conc: 5.48 ug/ml



#16 n-Octacosane (C28)

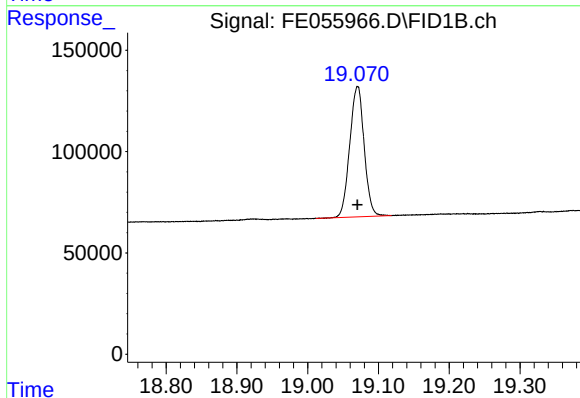
R.T.: 17.345 min  
Delta R.T.: 0.000 min  
Response: 788239  
Conc: 5.66 ug/ml



#17 n-Tricontane (C30)

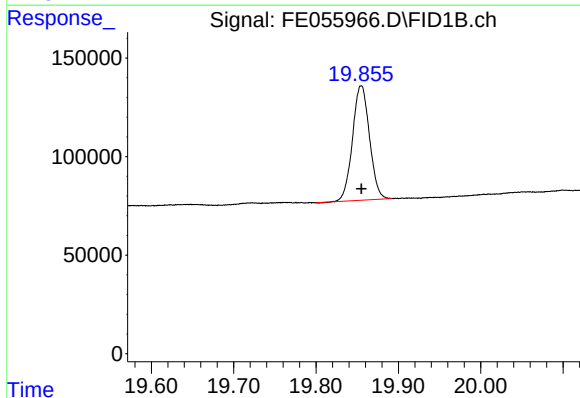
R.T.: 18.235 min  
Delta R.T.: 0.000 min  
Response: 889830  
Conc: 6.01 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
5 PPM ALIPHATIC HC STD5



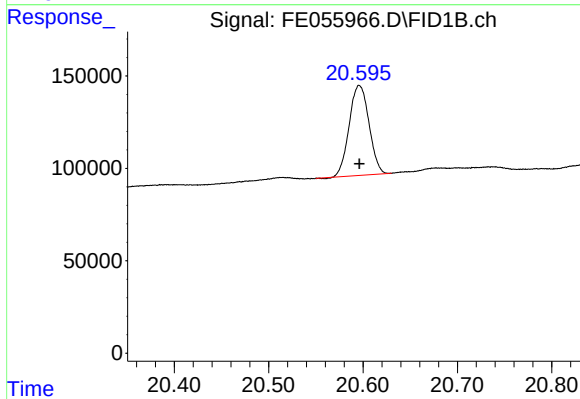
#18 n-Dotriacontane (C32)

R.T.: 19.070 min  
Delta R.T.: 0.000 min  
Response: 910224  
Conc: 6.10 ug/ml



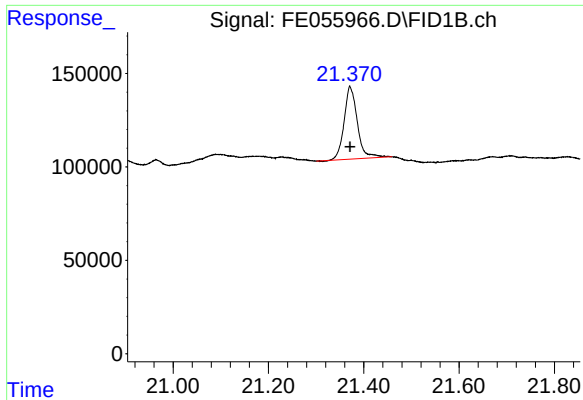
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min  
Delta R.T.: 0.000 min  
Response: 831525  
Conc: 5.88 ug/ml



#20 n-Hexatriacontane (C36)

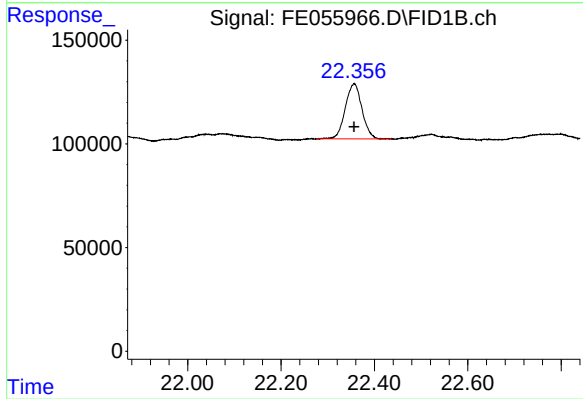
R.T.: 20.596 min  
Delta R.T.: 0.000 min  
Response: 709931  
Conc: 5.53 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.372 min  
Delta R.T.: 0.000 min  
Response: 745994  
Conc: 5.68 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
5 PPM ALIPHATIC HC STD5



#22 n-Tetracontane (C40)

R.T.: 22.356 min  
Delta R.T.: 0.000 min  
Response: 657258  
Conc: 5.52 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055966.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 11:08  
 Sample : 5 PPM ALIPHATIC HC STD5  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.408       | 3.367        | 3.459      | BB       | 67953          | 693246       | 68.39%         | 3.909%        |
| 2                       | 4.667       | 4.639        | 4.709      | BB       | 70375          | 706292       | 69.67%         | 3.982%        |
| 3                       | 6.388       | 6.349        | 6.450      | BB       | 77149          | 790843       | 78.01%         | 4.459%        |
| 4                       | 6.843       | 6.809        | 6.887      | BB       | 72831          | 724977       | 71.52%         | 4.088%        |
| 5                       | 7.489       | 7.445        | 7.559      | BB       | 71709          | 768994       | 75.86%         | 4.336%        |
| 6                       | 8.679       | 8.649        | 8.729      | BB       | 72794          | 757520       | 74.73%         | 4.271%        |
| 7                       | 10.294      | 10.264       | 10.344     | BB       | 74847          | 823386       | 81.22%         | 4.643%        |
| 8                       | 11.744      | 11.642       | 11.790     | BB       | 78656          | 903131       | 89.09%         | 5.092%        |
| 9                       | 12.070      | 12.029       | 12.119     | BB       | 93200          | 1013713      | 100.00%        | 5.716%        |
| 10                      | 13.059      | 13.019       | 13.110     | BB       | 74727          | 895641       | 88.35%         | 5.050%        |
| 11                      | 13.507      | 13.464       | 13.560     | BB       | 62028          | 745262       | 73.52%         | 4.202%        |
| 12                      | 13.673      | 13.637       | 13.727     | BB       | 72909          | 885060       | 87.31%         | 4.990%        |
| 13                      | 14.262      | 14.229       | 14.324     | BB       | 71830          | 874093       | 86.23%         | 4.928%        |
| 14                      | 15.369      | 15.294       | 15.417     | BB       | 65352          | 839256       | 82.79%         | 4.732%        |
| 15                      | 16.393      | 16.335       | 16.440     | BB       | 60152          | 781387       | 77.08%         | 4.406%        |
| 16                      | 17.345      | 17.289       | 17.395     | BB       | 55612          | 788239       | 77.76%         | 4.444%        |
| 17                      | 18.235      | 18.172       | 18.294     | BB       | 63264          | 889830       | 87.78%         | 5.017%        |
| 18                      | 19.070      | 19.012       | 19.119     | BB       | 64493          | 910224       | 89.79%         | 5.132%        |
| 19                      | 19.855      | 19.800       | 19.892     | BB       | 58084          | 831525       | 82.03%         | 4.688%        |
| 20                      | 20.596      | 20.550       | 20.630     | BV       | 48579          | 709931       | 70.03%         | 4.003%        |
| 21                      | 21.372      | 21.300       | 21.459     | BB       | 38611          | 745994       | 73.59%         | 4.206%        |
| 22                      | 22.356      | 22.275       | 22.437     | BB       | 26685          | 657258       | 64.84%         | 3.706%        |
| Sum of corrected areas: |             |              |            |          |                |              | 17735802       |               |

Aliphatic EPH 092425.M Wed Sep 24 15:38:07 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055967.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 11:39  
 Operator : YP\AJ  
 Sample : 20 PPM ALIPHATIC HC STD ICV  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e  
 Quant Time: Sep 24 12:56:12 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:55:37 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units   |
|--------------------------------|--------|------------|--------------|
| -----                          |        |            |              |
| System Monitoring Compounds    |        |            |              |
| 9) S ortho-Terphenyl (SURR)    | 12.071 | 3668282    | 19.548 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 39.10%       |
| 12) S 1-chlorooctadecane (S... | 13.508 | 2728050    | 19.547 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 39.09%       |
| Target Compounds               |        |            |              |
| 1) T n-Nonane (C9)             | 3.411  | 2817872    | 20.570 ug/ml |
| 2) T n-Decane (C10)            | 4.668  | 2859346    | 20.488 ug/ml |
| 3) T A~Naphthalene (C11.7)     | 6.388  | 3249421    | 20.352 ug/ml |
| 4) T n-Dodecane (C12)          | 6.843  | 2929821    | 20.413 ug/ml |
| 5) T A~2-methylnaphthalene...  | 7.488  | 3143650    | 20.214 ug/ml |
| 6) T n-Tetradecane (C14)       | 8.680  | 2980588    | 20.160 ug/ml |
| 7) T n-Hexadecane (C16)        | 10.295 | 3166204    | 19.925 ug/ml |
| 8) T n-Octadecane (C18)        | 11.745 | 3336057    | 19.695 ug/ml |
| 10) T n-Eicosane (C20)         | 13.060 | 3245046    | 19.576 ug/ml |
| 11) T n-Heneicosane (C21)      | 13.674 | 3169164    | 19.504 ug/ml |
| 13) T n-Docosane (C22)         | 14.262 | 3099587    | 19.398 ug/ml |
| 14) T n-Tetracosane (C24)      | 15.369 | 2928176    | 19.216 ug/ml |
| 15) T n-Hexacosane (C26)       | 16.393 | 2744599    | 19.243 ug/ml |
| 16) T n-Octacosane (C28)       | 17.346 | 2675215    | 19.204 ug/ml |
| 17) T n-Tricontane (C30)       | 18.236 | 2835374    | 19.135 ug/ml |
| 18) T n-Dotriacontane (C32)    | 19.070 | 2865562    | 19.206 ug/ml |
| 19) T n-Tetratriacontane (C34) | 19.855 | 2719117    | 19.223 ug/ml |
| 20) T n-Hexatriacontane (C36)  | 20.597 | 2416072    | 18.821 ug/ml |
| 21) T n-Octatriacontane (C38)  | 21.374 | 2366982    | 18.021 ug/ml |
| 22) T n-Tetracontane (C40)     | 22.357 | 2042298    | 17.167 ug/ml |
| -----                          |        |            |              |

(f)=RT Delta > 1/2 Window

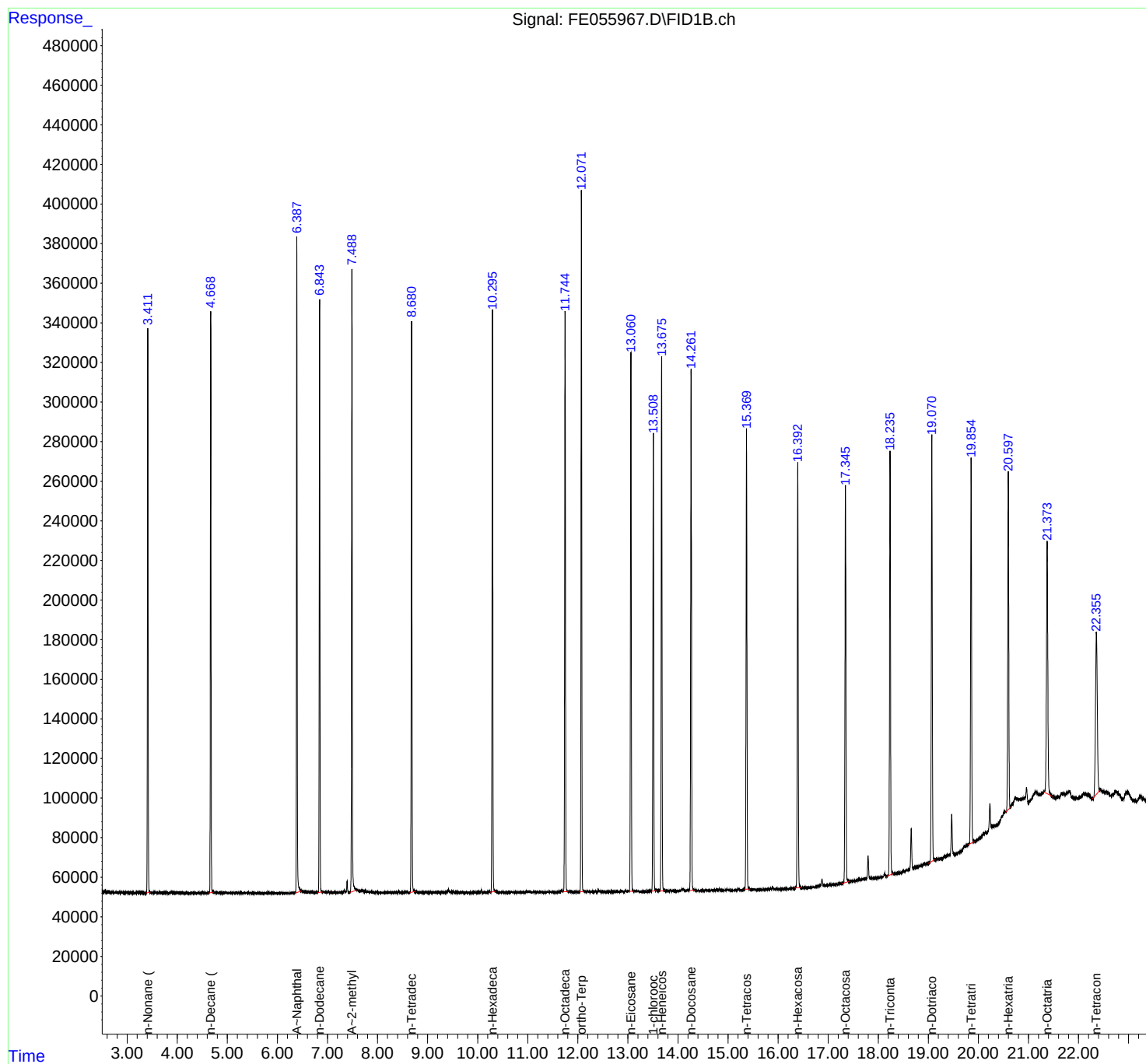
(m)=manual int.

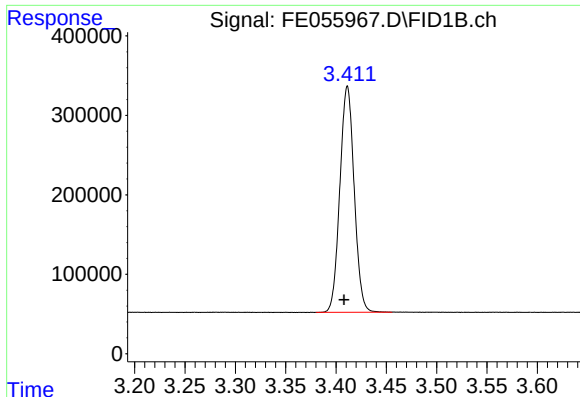
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
Data File : FE055967.D  
Signal(s) : FID1B.ch  
Acq On : 24 Sep 2025 11:39  
Operator : YP\AJ  
Sample : 20 PPM ALIPHATIC HC STD ICV  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD ICV

Integration File: autoint1.e  
Quant Time: Sep 24 12:56:12 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

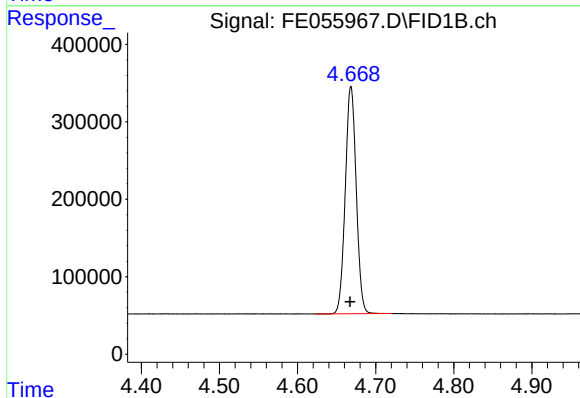
R.T.: 3.411 min  
Delta R.T.: 0.003 min  
Response: 2817872  
Conc: 20.57 ug/ml

Instrument :

FID\_E

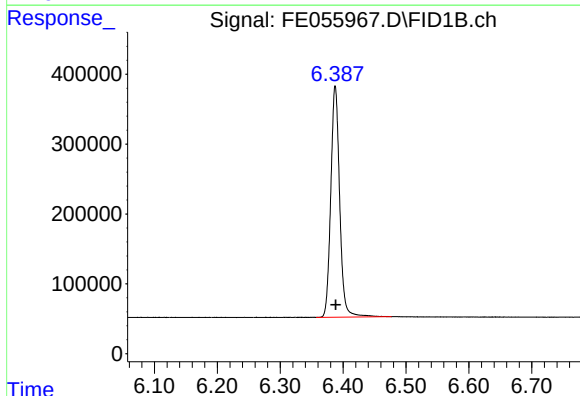
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



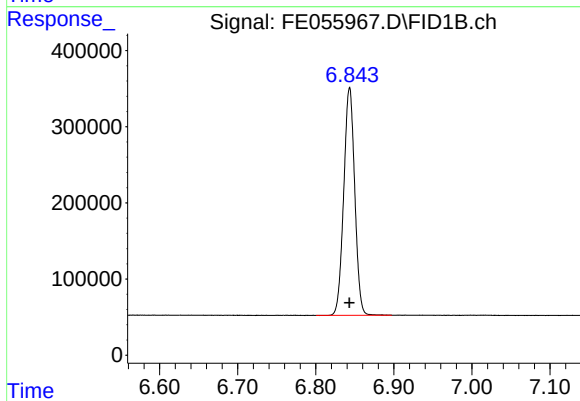
#2 n-Decane (C10)

R.T.: 4.668 min  
Delta R.T.: 0.001 min  
Response: 2859346  
Conc: 20.49 ug/ml



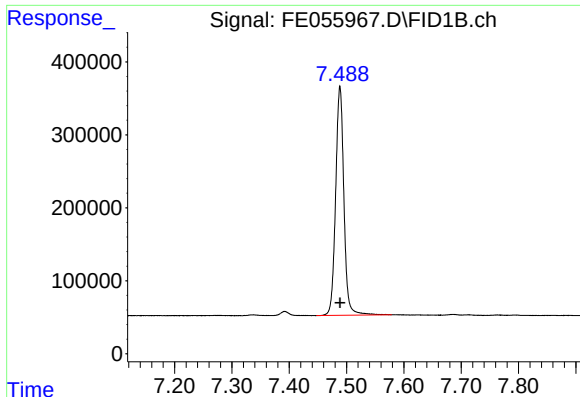
#3 A~Naphthalene (C11.7)

R.T.: 6.388 min  
Delta R.T.: 0.000 min  
Response: 3249421  
Conc: 20.35 ug/ml



#4 n-Dodecane (C12)

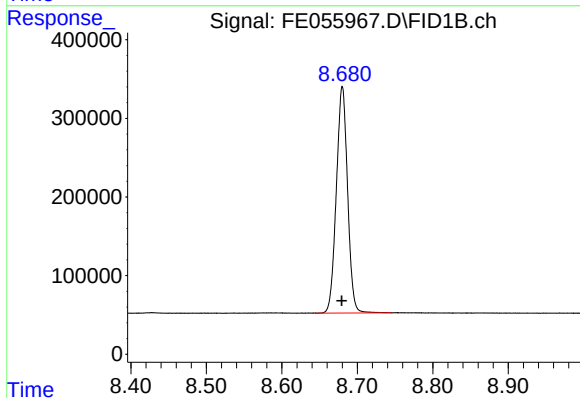
R.T.: 6.843 min  
Delta R.T.: 0.000 min  
Response: 2929821  
Conc: 20.41 ug/ml



#5 A~2-methylnaphthalene (C12.89)

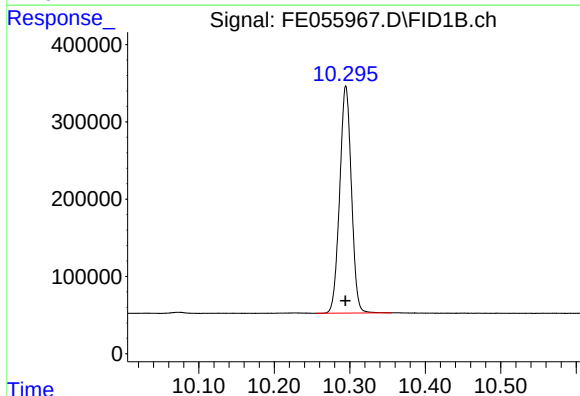
R.T.: 7.488 min  
Delta R.T.: 0.000 min  
Response: 3143650  
Conc: 20.21 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD ICV



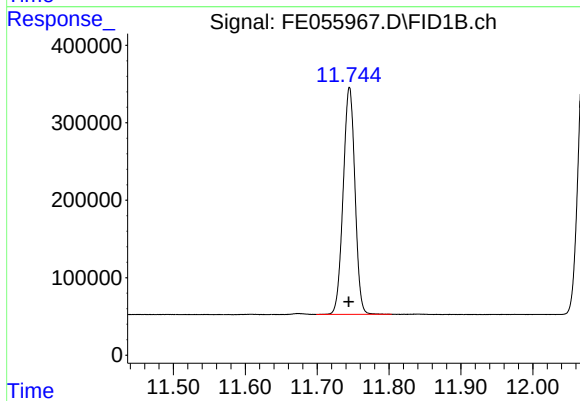
#6 n-Tetradecane (C14)

R.T.: 8.680 min  
Delta R.T.: 0.000 min  
Response: 2980588  
Conc: 20.16 ug/ml



#7 n-Hexadecane (C16)

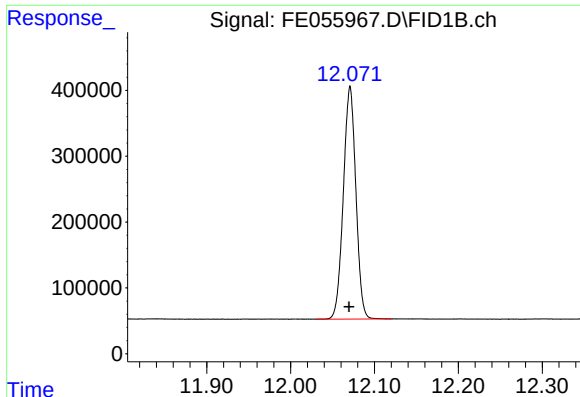
R.T.: 10.295 min  
Delta R.T.: 0.000 min  
Response: 3166204  
Conc: 19.92 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.745 min  
Delta R.T.: 0.000 min  
Response: 3336057  
Conc: 19.70 ug/ml

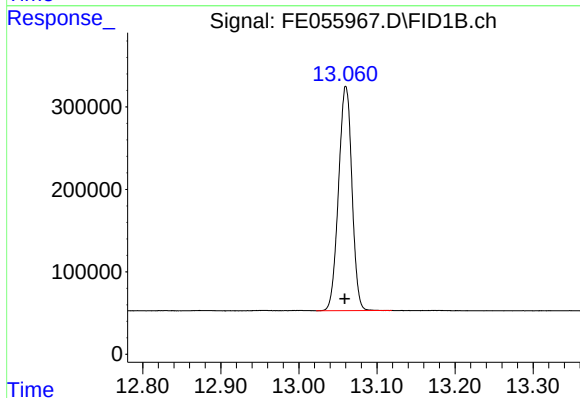




#9 ortho-Terphenyl (SURR)

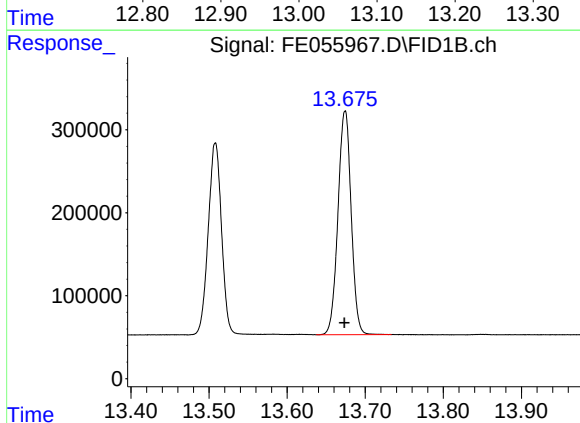
R.T.: 12.071 min  
Delta R.T.: 0.001 min  
Response: 3668282  
Conc: 19.55 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD ICV



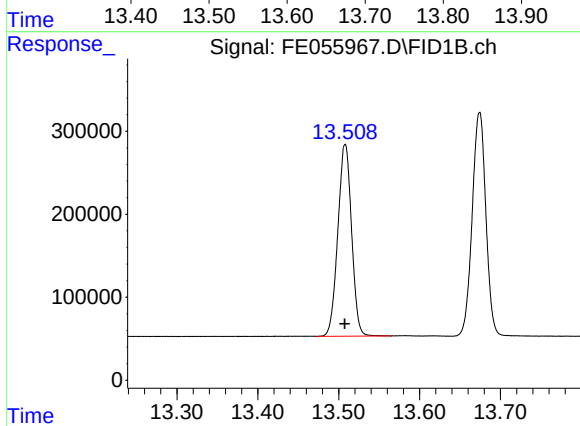
#10 n-Eicosane (C20)

R.T.: 13.060 min  
Delta R.T.: 0.001 min  
Response: 3245046  
Conc: 19.58 ug/ml



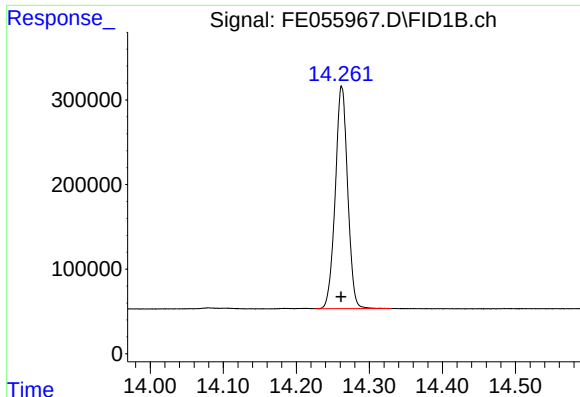
#11 n-Heneicosane (C21)

R.T.: 13.674 min  
Delta R.T.: 0.000 min  
Response: 3169164  
Conc: 19.50 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.508 min  
Delta R.T.: 0.000 min  
Response: 2728050  
Conc: 19.55 ug/ml



#13 n-Docosane (C22)

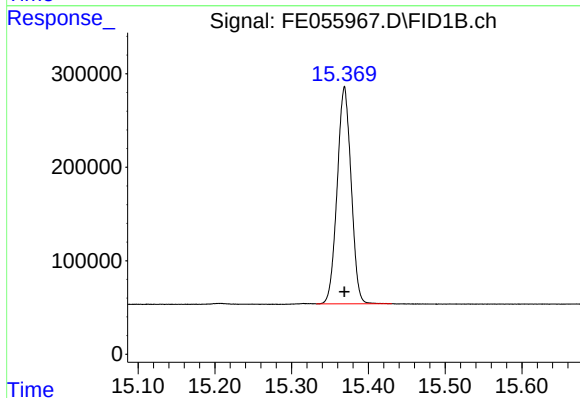
R.T.: 14.262 min  
Delta R.T.: 0.000 min  
Response: 3099587  
Conc: 19.40 ug/ml

Instrument :

FID\_E

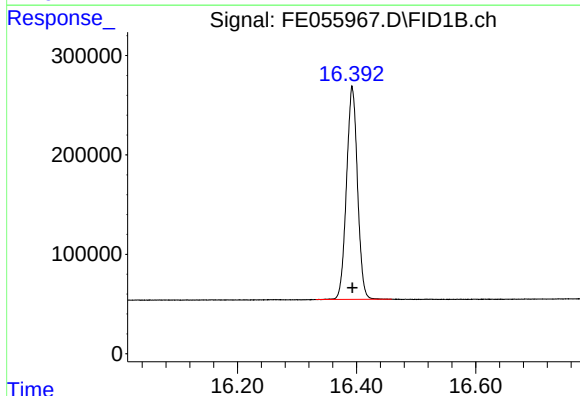
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



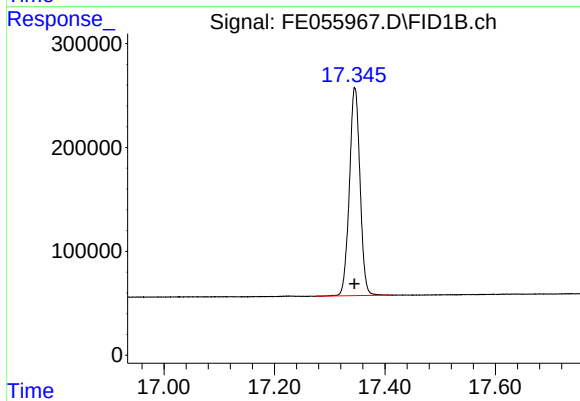
#14 n-Tetracosane (C24)

R.T.: 15.369 min  
Delta R.T.: 0.000 min  
Response: 2928176  
Conc: 19.22 ug/ml



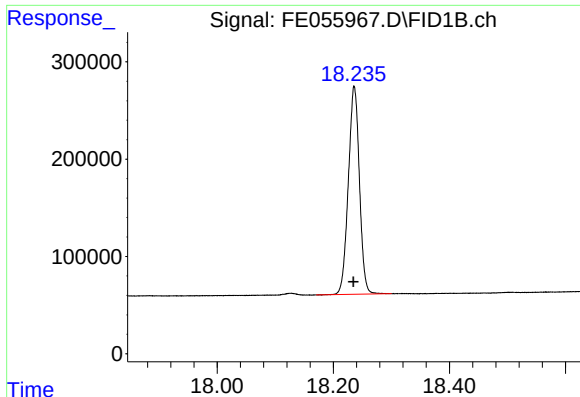
#15 n-Hexacosane (C26)

R.T.: 16.393 min  
Delta R.T.: 0.000 min  
Response: 2744599  
Conc: 19.24 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.346 min  
Delta R.T.: 0.000 min  
Response: 2675215  
Conc: 19.20 ug/ml



#17 n-Tricontane (C30)

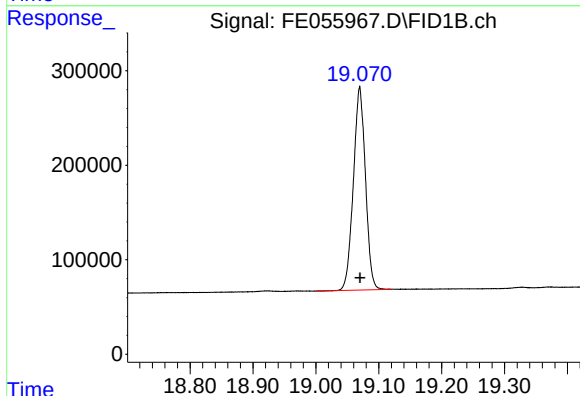
R.T.: 18.236 min  
Delta R.T.: 0.002 min  
Response: 2835374  
Conc: 19.13 ug/ml

Instrument :

FID\_E

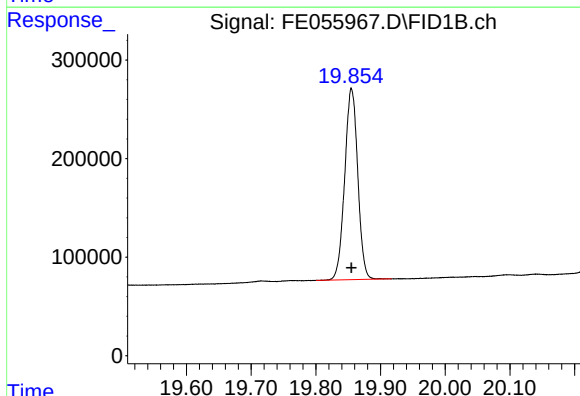
ClientSampleId :

20 PPM ALIPHATIC HC STD ICV



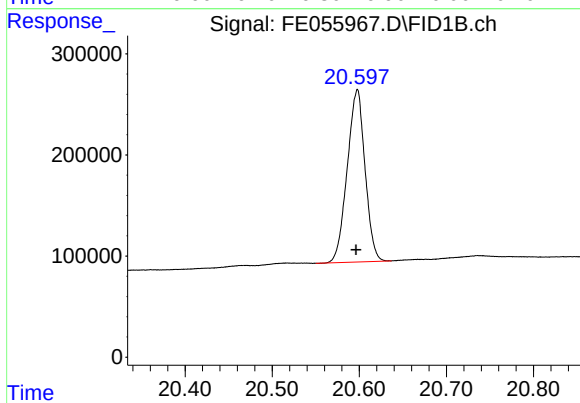
#18 n-Dotriacontane (C32)

R.T.: 19.070 min  
Delta R.T.: 0.000 min  
Response: 2865562  
Conc: 19.21 ug/ml



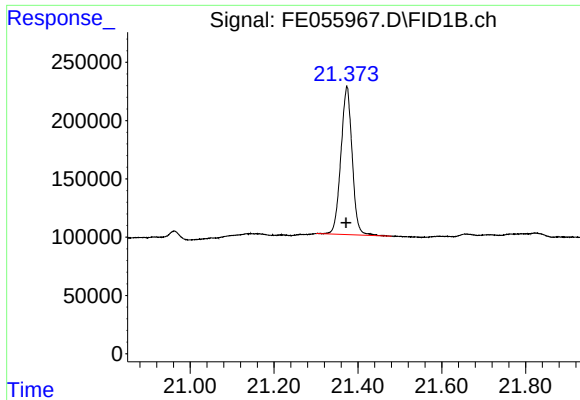
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min  
Delta R.T.: 0.000 min  
Response: 2719117  
Conc: 19.22 ug/ml



#20 n-Hexatriacontane (C36)

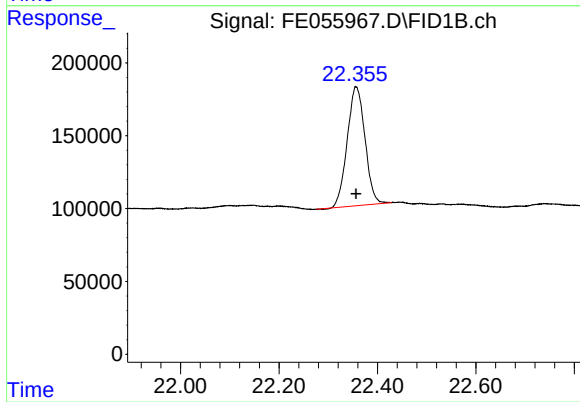
R.T.: 20.597 min  
Delta R.T.: 0.001 min  
Response: 2416072  
Conc: 18.82 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.374 min  
Delta R.T.: 0.002 min  
Response: 2366982  
Conc: 18.02 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD ICV



#22 n-Tetracontane (C40)

R.T.: 22.357 min  
Delta R.T.: 0.000 min  
Response: 2042298  
Conc: 17.17 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092425AL\  
 Data File : FE055967.D  
 Signal(s) : FID1B.ch  
 Acq On : 24 Sep 2025 11:39  
 Sample : 20 PPM ALIPHATIC HC STD ICV  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.411       | 3.380        | 3.455      | BB       | 285220         | 2817872      | 76.82%         | 4.404%        |
| 2                       | 4.668       | 4.624        | 4.720      | BB       | 293455         | 2859346      | 77.95%         | 4.469%        |
| 3                       | 6.388       | 6.357        | 6.477      | BB       | 331697         | 3249421      | 88.58%         | 5.078%        |
| 4                       | 6.843       | 6.800        | 6.897      | BB       | 299925         | 2929821      | 79.87%         | 4.579%        |
| 5                       | 7.488       | 7.447        | 7.579      | BB       | 314271         | 3143650      | 85.70%         | 4.913%        |
| 6                       | 8.680       | 8.645        | 8.745      | BB       | 288401         | 2980588      | 81.25%         | 4.658%        |
| 7                       | 10.295      | 10.255       | 10.355     | BB       | 293683         | 3166204      | 86.31%         | 4.948%        |
| 8                       | 11.745      | 11.699       | 11.804     | BB       | 293541         | 3336057      | 90.94%         | 5.214%        |
| 9                       | 12.071      | 12.030       | 12.120     | BB       | 352970         | 3668282      | 100.00%        | 5.733%        |
| 10                      | 13.060      | 13.022       | 13.119     | BB       | 272237         | 3245046      | 88.46%         | 5.071%        |
| 11                      | 13.508      | 13.472       | 13.565     | BB       | 231703         | 2728050      | 74.37%         | 4.263%        |
| 12                      | 13.674      | 13.637       | 13.734     | BB       | 270029         | 3169164      | 86.39%         | 4.953%        |
| 13                      | 14.262      | 14.227       | 14.330     | BB       | 262720         | 3099587      | 84.50%         | 4.844%        |
| 14                      | 15.369      | 15.332       | 15.430     | BB       | 232304         | 2928176      | 79.82%         | 4.576%        |
| 15                      | 16.393      | 16.332       | 16.459     | BB       | 214476         | 2744599      | 74.82%         | 4.289%        |
| 16                      | 17.346      | 17.275       | 17.412     | BB       | 200293         | 2675215      | 72.93%         | 4.181%        |
| 17                      | 18.236      | 18.170       | 18.300     | BB       | 214339         | 2835374      | 77.29%         | 4.431%        |
| 18                      | 19.070      | 19.000       | 19.120     | BB       | 215278         | 2865562      | 78.12%         | 4.478%        |
| 19                      | 19.855      | 19.800       | 19.917     | BB       | 193722         | 2719117      | 74.13%         | 4.250%        |
| 20                      | 20.597      | 20.550       | 20.637     | BV       | 169926         | 2416072      | 65.86%         | 3.776%        |
| 21                      | 21.374      | 21.300       | 21.480     | BB       | 127571         | 2366982      | 64.53%         | 3.699%        |
| 22                      | 22.357      | 22.275       | 22.429     | BB       | 81304          | 2042298      | 55.67%         | 3.192%        |
| Sum of corrected areas: |             |              |            |          |                | 63986485     |                |               |

Aliphatic EPH 092425.M Wed Sep 24 15:38:29 2025

Initial Calibration Report for SequenceID : FF092425AR

**AreaCount**

| Parameter Range  | FF016431.D    | FF016432.D    | FF016433.D   | FF016434.D   | FF016435.D   |  |
|------------------|---------------|---------------|--------------|--------------|--------------|--|
| Aromatic C10-C12 | 26571922.000  | 12782593.000  | 5812094.000  | 3378672.000  | 1416900.000  |  |
| Aromatic C12-C16 | 40903703.000  | 19727791.000  | 8893990.000  | 5140294.000  | 2077321.000  |  |
| Aromatic C16-C21 | 52642385.000  | 25632968.000  | 11754819.000 | 6912075.000  | 2827142.000  |  |
| Aromatic C21-C36 | 104382932.000 | 51250874.000  | 23922689.000 | 14310932.000 | 5957294.000  |  |
| Aromatic EPH     | 224500942.000 | 109394226.000 | 50383592.000 | 29741973.000 | 12278657.000 |  |

**AVG Response Factor**

| Parameter Range  | AVG RF         | % RSD  |  |  |  |  |
|------------------|----------------|--------|--|--|--|--|
| Aromatic C10-C12 | 143322.298     | 11.099 |  |  |  |  |
| Aromatic C12-C16 | 145185.7299994 | 10.908 |  |  |  |  |
| Aromatic C16-C21 | 144173.003     | 12.258 |  |  |  |  |
| Aromatic C21-C36 | 130834.0722218 | 13.823 |  |  |  |  |
| Aromatic EPH     | 137577.8026664 | 12.558 |  |  |  |  |

**Concentration**

| Parameter Range  | FF016431.D | FF016432.D | FF016433.D | FF016434.D | FF016435.D |  |
|------------------|------------|------------|------------|------------|------------|--|
| Aromatic C10-C12 | 200.000    | 100.000    | 40.000     | 20.000     | 10.000     |  |
| Aromatic C12-C16 | 300.000    | 150.000    | 60.000     | 30.000     | 15.000     |  |
| Aromatic C16-C21 | 400.000    | 200.000    | 80.000     | 40.000     | 20.000     |  |
| Aromatic C21-C36 | 900.000    | 450.000    | 180.000    | 90.000     | 45.000     |  |
| Aromatic EPH     | 1800.000   | 900.000    | 360.000    | 180.000    | 90.000     |  |

**Response Factor**

| Parameter Range  | FF016431.D    | FF016432.D    | FF016433.D    | FF016434.D    | FF016435.D    |  |
|------------------|---------------|---------------|---------------|---------------|---------------|--|
| Aromatic C10-C12 | 132859.610000 | 127825.930000 | 145302.350000 | 168933.600000 | 141690.000000 |  |
| Aromatic C12-C16 | 136345.676666 | 131518.606666 | 148233.166666 | 171343.133333 | 138488.066666 |  |
| Aromatic C16-C21 | 131605.962500 | 128164.840000 | 146935.237500 | 172801.875000 | 141357.100000 |  |
| Aromatic C21-C36 | 115981.035555 | 113890.831111 | 132903.827777 | 159010.355555 | 132384.311111 |  |
| Aromatic EPH     | 124722.745555 | 121549.140000 | 139954.422222 | 165233.183333 | 136429.522222 |  |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
 Data File : FF016431.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Sep 2025 13:59  
 Operator : YP\AJ  
 Sample : 100 PPM AROMATIC HC STD1  
 Misc :  
 ALS Vial : 71 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 100 PPM AROMATIC HC STD1

Integration File: autoint1.e  
 Quant Time: Sep 24 15:18:40 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 15:16:11 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.039  | 11754305   | 95.774 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 191.55%      |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.917  | 8058977    | 96.138 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 192.28%#     |
| 11) S ortho-Terphenyl (SURR)       | 11.986 | 13753707   | 94.360 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 188.72%      |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.630  | 12963406   | 95.293 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.309  | 13608516   | 95.751 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.411  | 13820236   | 95.722 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.719  | 13570625   | 95.611 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.020  | 13512842   | 96.140 ug/ml |
| 8) T Fluorene (C16.55)             | 9.810  | 13450975   | 94.941 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.220 | 13438313   | 94.914 ug/ml |
| 10) T Anthracene (C19.43)          | 11.297 | 12723925   | 93.585 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.047 | 13192658   | 94.131 ug/ml |
| 13) T Pyrene (C20.8)               | 13.348 | 13029172   | 94.511 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.231 | 12303315   | 93.967 ug/ml |
| 15) T Chrysene (C27.41)            | 15.280 | 12463435   | 93.088 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.796 | 11802907   | 93.353 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.835 | 10991506   | 92.578 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.181 | 11301951   | 93.024 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.558 | 10849044   | 96.965 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.597 | 10510879   | 89.285 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.822 | 10967237   | 93.492 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

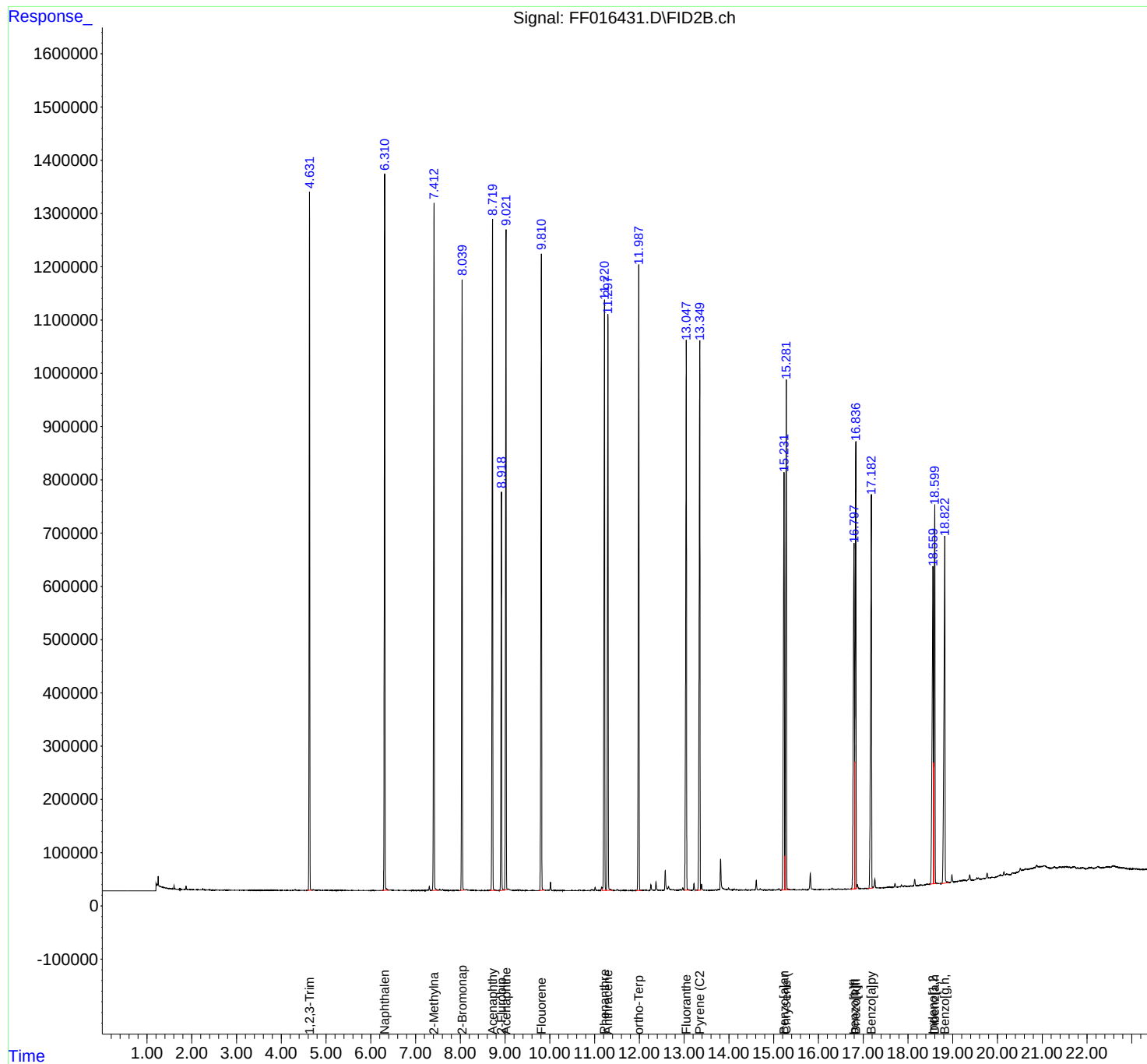
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016431.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 13:59  
Operator : YP\AJ  
Sample : 100 PPM AROMATIC HC STD1  
Misc :  
ALS Vial : 71 Sample Multiplier: 1

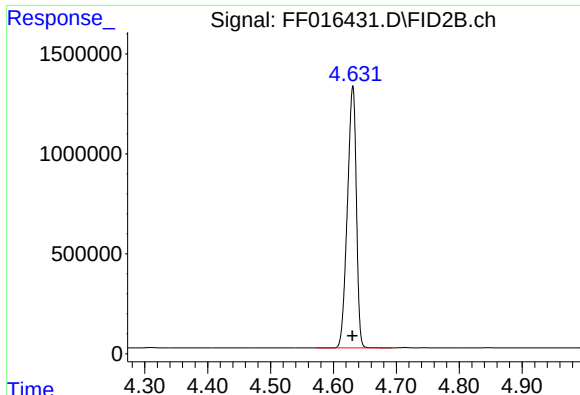
Instrument :  
FID\_F  
ClientSampleId :  
100 PPM AROMATIC HC STD1

Integration File: autoint1.e  
Quant Time: Sep 24 15:18:40 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 15:16:11 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm







#1 1,2,3-Trimethylbenzene (C10.1)

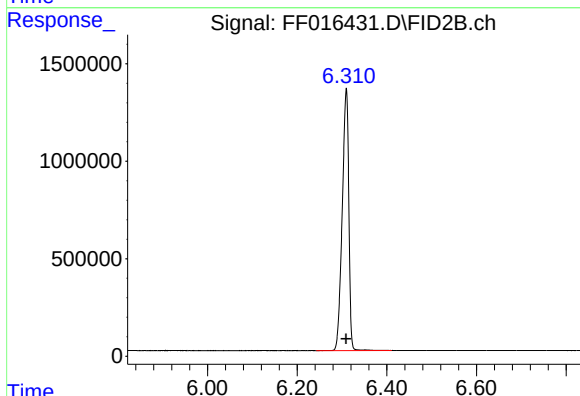
R.T.: 4.630 min  
Delta R.T.: 0.000 min  
Response: 12963406  
Conc: 95.29 ug/ml

Instrument :

FID\_F

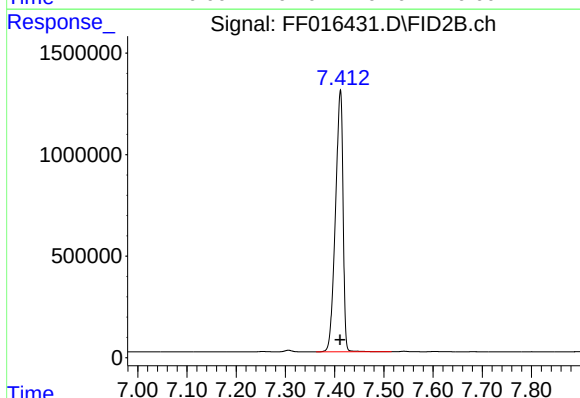
ClientSampleId :

100 PPM AROMATIC HC STD1



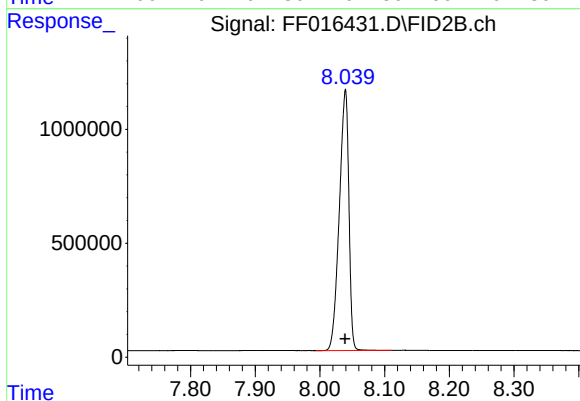
#2 Naphthalene (C11.7)

R.T.: 6.309 min  
Delta R.T.: 0.000 min  
Response: 13608516  
Conc: 95.75 ug/ml



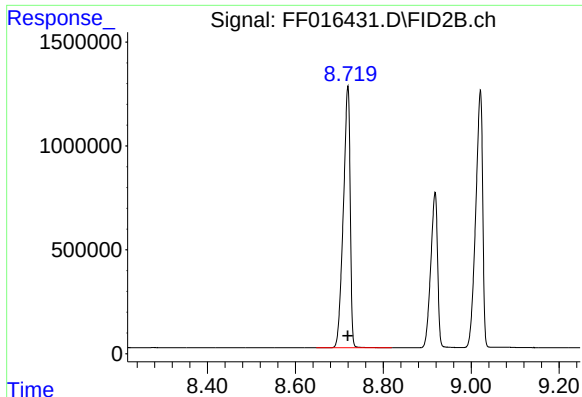
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.411 min  
Delta R.T.: 0.000 min  
Response: 13820236  
Conc: 95.72 ug/ml



#4 2-Bromonaphthalene (SURR)

R.T.: 8.039 min  
Delta R.T.: 0.000 min  
Response: 11754305  
Conc: 95.77 ug/ml



#5 Acenaphthylene (C15.06)

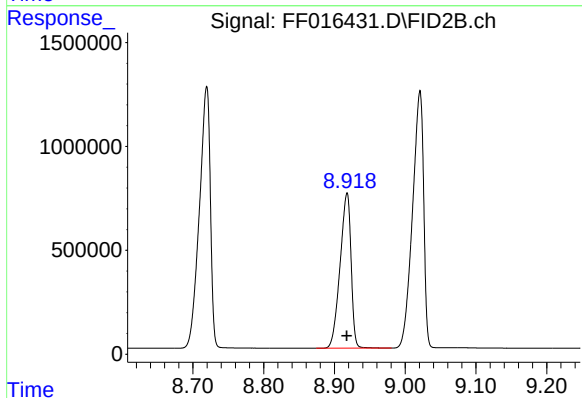
R.T.: 8.719 min  
Delta R.T.: 0.000 min  
Response: 13570625  
Conc: 95.61 ug/ml

Instrument :

FID\_F

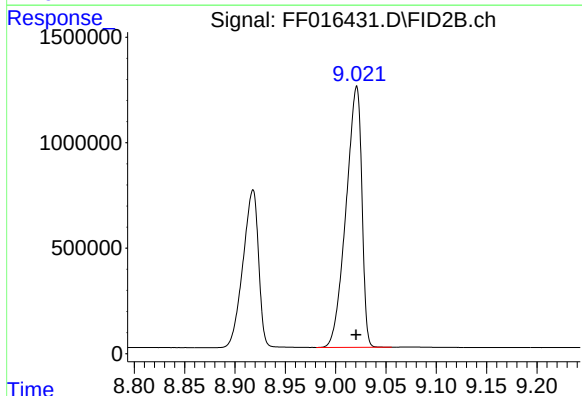
ClientSampleId :

100 PPM AROMATIC HC STD1



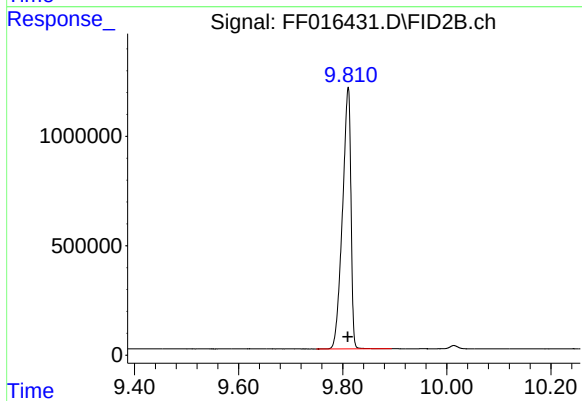
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.917 min  
Delta R.T.: 0.000 min  
Response: 8058977  
Conc: 96.14 ug/ml



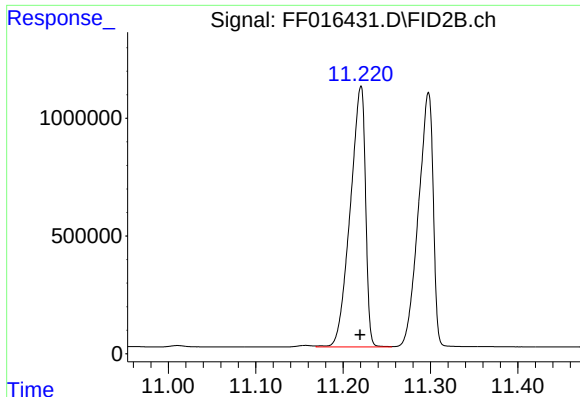
#7 Acenaphthene (C15.5)

R.T.: 9.020 min  
Delta R.T.: 0.000 min  
Response: 13512842  
Conc: 96.14 ug/ml



#8 Flouorene (C16.55)

R.T.: 9.810 min  
Delta R.T.: 0.000 min  
Response: 13450975  
Conc: 94.94 ug/ml



#9 Phenanthrene (C19.36)

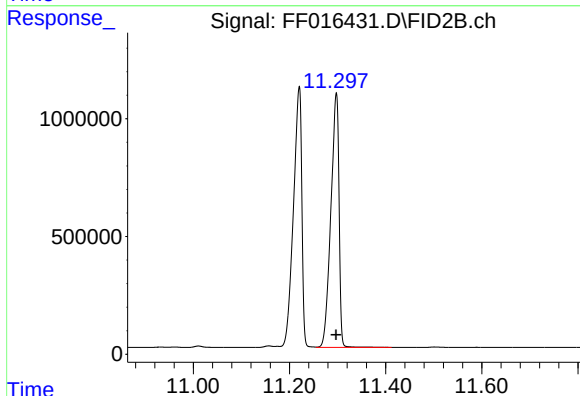
R.T.: 11.220 min  
Delta R.T.: 0.000 min  
Response: 13438313  
Conc: 94.91 ug/ml

Instrument :

FID\_F

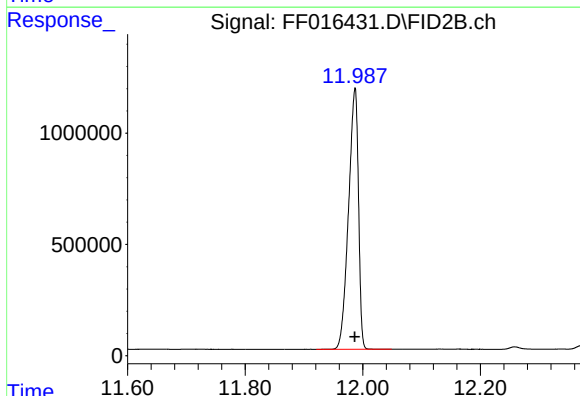
ClientSampleId :

100 PPM AROMATIC HC STD1



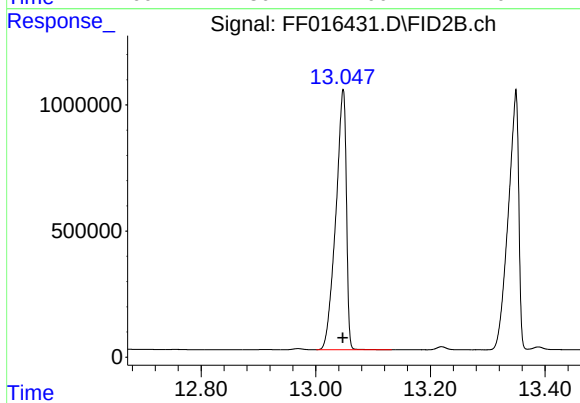
#10 Anthracene (C19.43)

R.T.: 11.297 min  
Delta R.T.: 0.000 min  
Response: 12723925  
Conc: 93.58 ug/ml



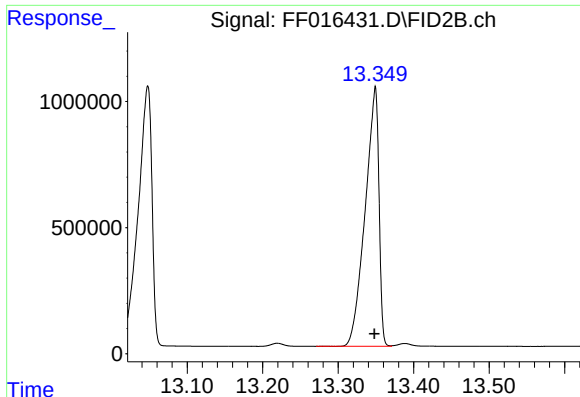
#11 ortho-Terphenyl (SURR)

R.T.: 11.986 min  
Delta R.T.: 0.000 min  
Response: 13753707  
Conc: 94.36 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 13.047 min  
Delta R.T.: 0.000 min  
Response: 13192658  
Conc: 94.13 ug/ml



#13 Pyrene (C20.8)

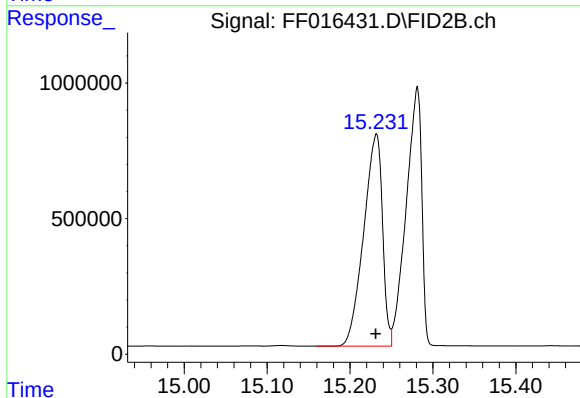
R.T.: 13.348 min  
Delta R.T.: 0.000 min  
Response: 13029172  
Conc: 94.51 ug/ml

Instrument :

FID\_F

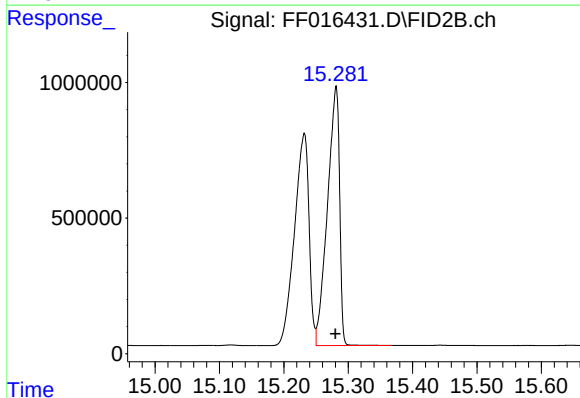
ClientSampleId :

100 PPM AROMATIC HC STD1



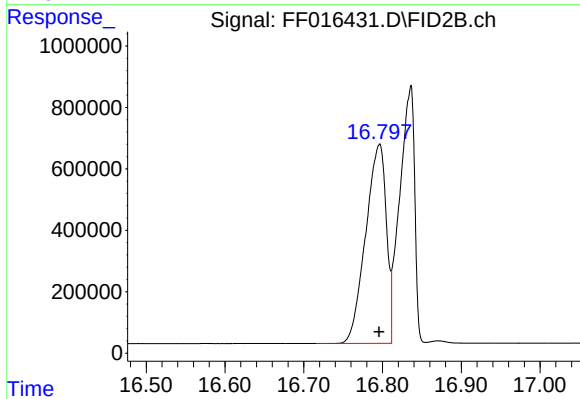
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.231 min  
Delta R.T.: 0.000 min  
Response: 12303315  
Conc: 93.97 ug/ml



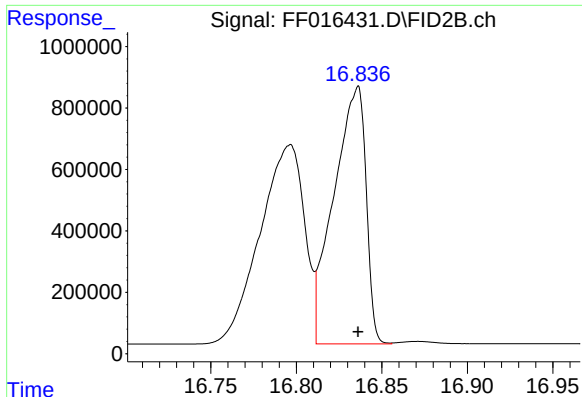
#15 Chrysene (C27.41)

R.T.: 15.280 min  
Delta R.T.: 0.000 min  
Response: 12463435  
Conc: 93.09 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.796 min  
Delta R.T.: 0.000 min  
Response: 11802907  
Conc: 93.35 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

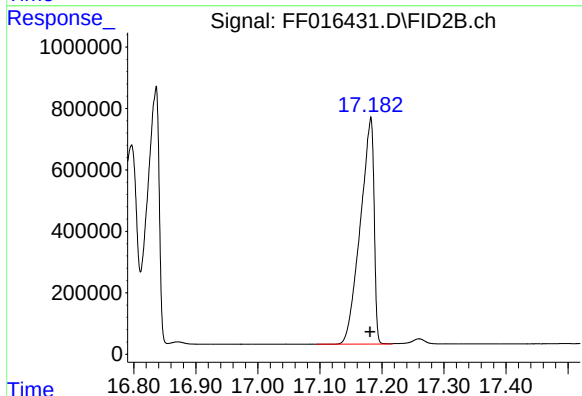
R.T.: 16.835 min  
Delta R.T.: -0.002 min  
Response: 10991506  
Conc: 92.58 ug/ml

Instrument :

FID\_F

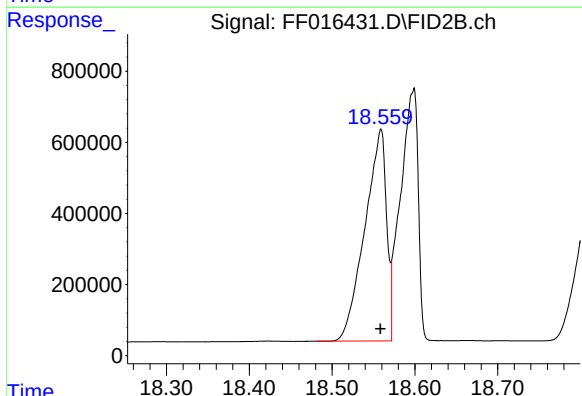
ClientSampleId :

100 PPM AROMATIC HC STD1



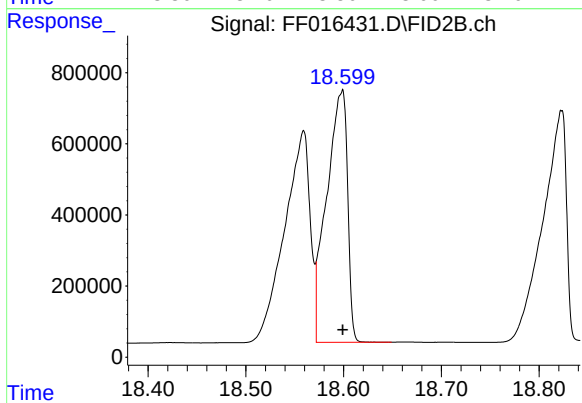
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.181 min  
Delta R.T.: 0.000 min  
Response: 11301951  
Conc: 93.02 ug/ml



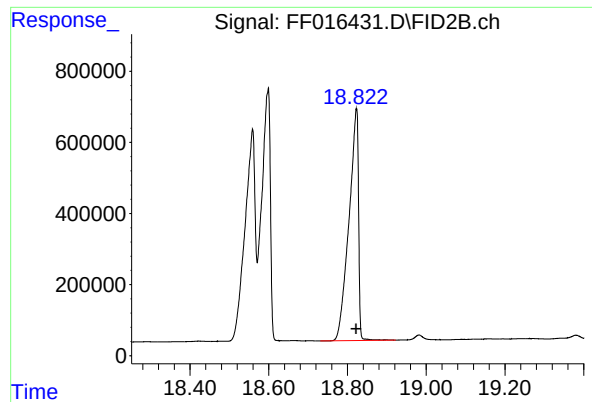
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.558 min  
Delta R.T.: 0.000 min  
Response: 10849044  
Conc: 96.96 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.597 min  
Delta R.T.: -0.002 min  
Response: 10510879  
Conc: 89.28 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.822 min  
Delta R.T.: 0.000 min  
Response: 10967237  
Conc: 93.49 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
100 PPM AROMATIC HC STD1

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
 Data File : FF016431.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Sep 2025 13:59  
 Sample : 100 PPM AROMATIC HC STD1  
 Misc :  
 ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.630       | 4.572        | 4.692      | BV       | 1313701        | 12963406     | 93.80%         | 5.023%        |
| 2                       | 6.309       | 6.242        | 6.411      | BB       | 1342183        | 13608516     | 98.47%         | 5.273%        |
| 3                       | 7.411       | 7.362        | 7.516      | BB       | 1282824        | 13820236     | 100.00%        | 5.355%        |
| 4                       | 8.039       | 7.994        | 8.111      | BV       | 1147422        | 11754305     | 85.05%         | 4.555%        |
| 5                       | 8.719       | 8.647        | 8.819      | BB       | 1259569        | 13570625     | 98.19%         | 5.259%        |
| 6                       | 8.917       | 8.874        | 8.981      | BV       | 747111         | 8058977      | 58.31%         | 3.123%        |
| 7                       | 9.020       | 8.981        | 9.056      | PV       | 1241449        | 13512842     | 97.78%         | 5.236%        |
| 8                       | 9.810       | 9.749        | 9.894      | BB       | 1185459        | 13450975     | 97.33%         | 5.212%        |
| 9                       | 11.220      | 11.169       | 11.256     | VV       | 1101311        | 13438313     | 97.24%         | 5.207%        |
| 10                      | 11.297      | 11.256       | 11.412     | VB       | 1083190        | 12723925     | 92.07%         | 4.930%        |
| 11                      | 11.986      | 11.921       | 12.049     | BB       | 1166117        | 13753707     | 99.52%         | 5.329%        |
| 12                      | 13.047      | 13.001       | 13.132     | BB       | 1034838        | 13192658     | 95.46%         | 5.112%        |
| 13                      | 13.348      | 13.271       | 13.371     | BV       | 1004023        | 13029172     | 94.28%         | 5.049%        |
| 14                      | 15.231      | 15.159       | 15.250     | BV       | 779980         | 12303315     | 89.02%         | 4.767%        |
| 15                      | 15.280      | 15.250       | 15.367     | VB       | 957678         | 12463435     | 90.18%         | 4.830%        |
| 16                      | 16.796      | 16.716       | 16.812     | BV       | 647217         | 11802907     | 85.40%         | 4.574%        |
| 17                      | 16.835      | 16.812       | 16.856     | VV       | 817147         | 10991506     | 79.53%         | 4.259%        |
| 18                      | 17.181      | 17.094       | 17.216     | BV       | 725721         | 11301951     | 81.78%         | 4.379%        |
| 19                      | 18.558      | 18.481       | 18.572     | BV       | 591631         | 10849044     | 78.50%         | 4.204%        |
| 20                      | 18.597      | 18.572       | 18.649     | VV       | 699591         | 10510879     | 76.05%         | 4.073%        |
| 21                      | 18.822      | 18.731       | 18.922     | BV       | 653295         | 10967237     | 79.36%         | 4.250%        |
| Sum of corrected areas: |             |              |            |          |                | 258067930    |                |               |

Aromatic EPH 092425.M Thu Sep 25 00:47:17 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
 Data File : FF016432.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Sep 2025 14:29  
 Operator : YP\AJ  
 Sample : 50 PPM AROMATIC HC STD2  
 Misc :  
 ALS Vial : 72 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 50 PPM AROMATIC HC STD2

Integration File: autoint1.e  
 Quant Time: Sep 24 15:20:35 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 15:16:11 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.034  | 5654549    | 47.312 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 94.62%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.912  | 3878601    | 47.449 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 94.90%       |
| 11) S ortho-Terphenyl (SURR)       | 11.980 | 6709235    | 47.282 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 94.56%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.627  | 6249533    | 47.218 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.304  | 6533060    | 47.237 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.406  | 6650030    | 47.302 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.712  | 6564172    | 47.434 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.013  | 6513589    | 47.501 ug/ml |
| 8) T Flouorene (C16.55)            | 9.803  | 6507793    | 47.214 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.212 | 6532119    | 47.356 ug/ml |
| 10) T Anthracene (C19.43)          | 11.287 | 6223741    | 47.102 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.037 | 6442747    | 47.239 ug/ml |
| 13) T Pyrene (C20.8)               | 13.337 | 6369315    | 47.402 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.221 | 6018657    | 47.238 ug/ml |
| 15) T Chrysene (C27.41)            | 15.266 | 6125610    | 47.085 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.783 | 5795694    | 47.148 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.819 | 5445729    | 47.102 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.166 | 5558378    | 47.084 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.542 | 5087687    | 46.887 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.582 | 5425328    | 46.992 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.802 | 5351044    | 46.989 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

(m)=manual int.

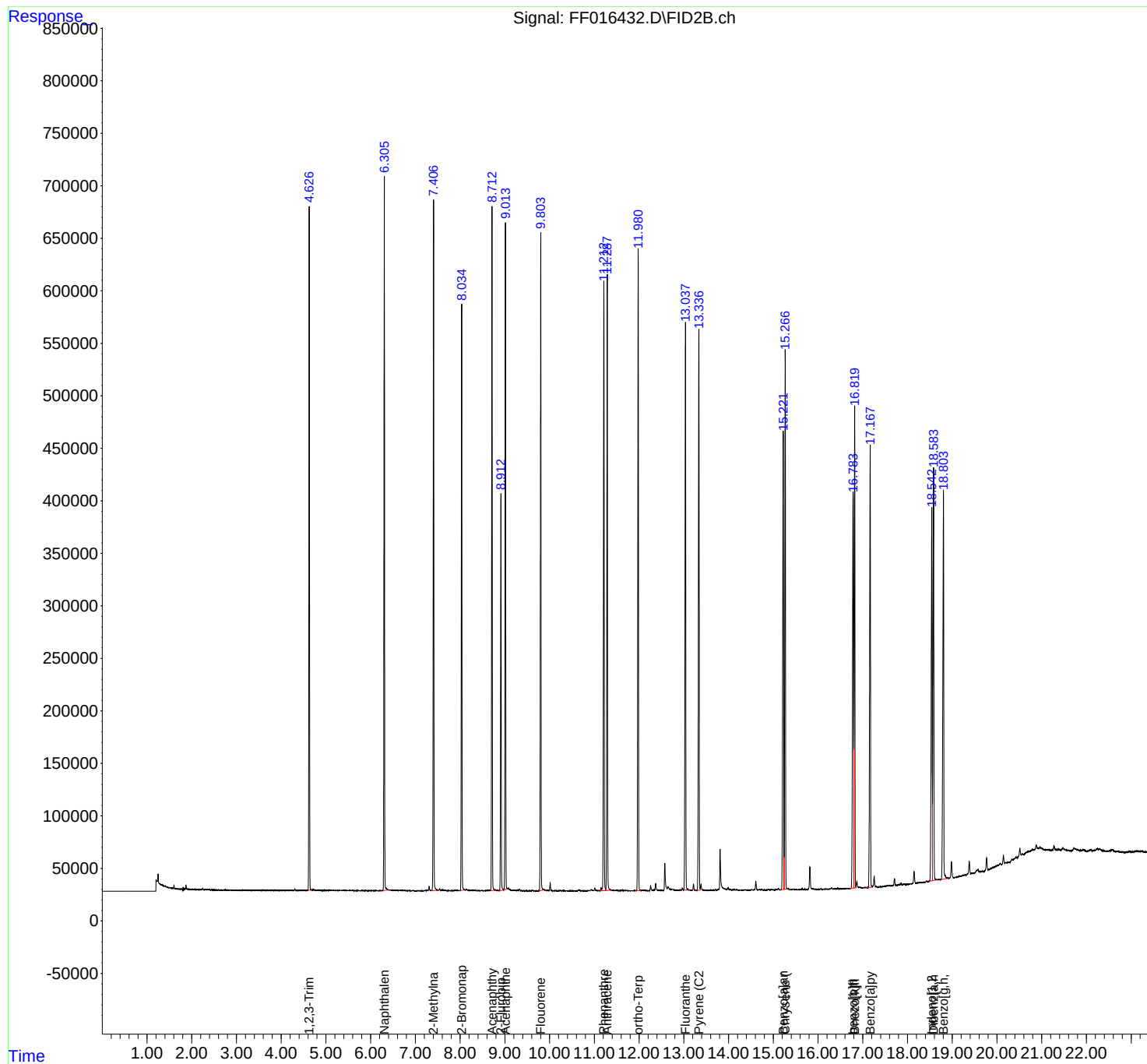


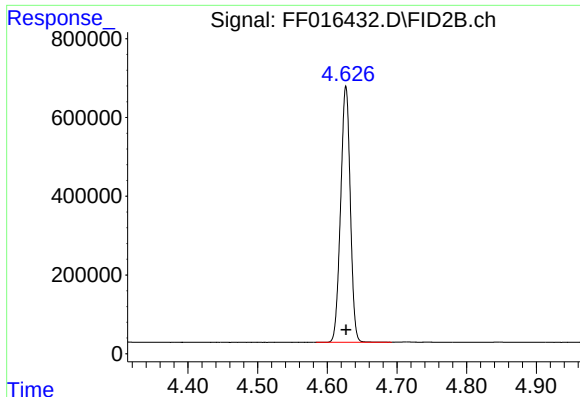
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016432.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 14:29  
Operator : YP\AJ  
Sample : 50 PPM AROMATIC HC STD2  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM AROMATIC HC STD2

Integration File: autoint1.e  
Quant Time: Sep 24 15:20:35 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 15:16:11 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

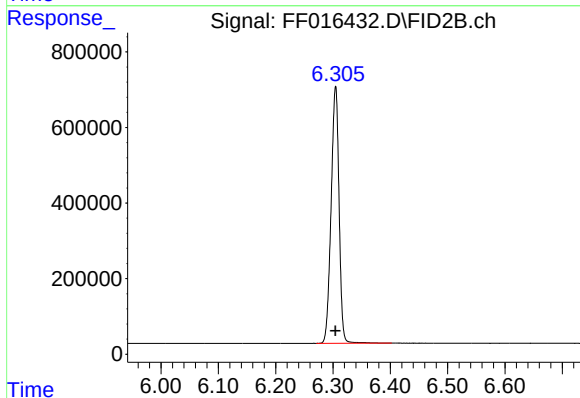




#1 1,2,3-Trimethylbenzene (C10.1)

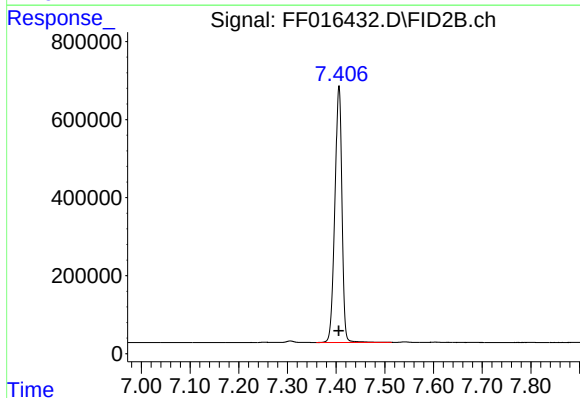
R.T.: 4.627 min  
Delta R.T.: 0.000 min  
Response: 6249533  
Conc: 47.22 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM AROMATIC HC STD2



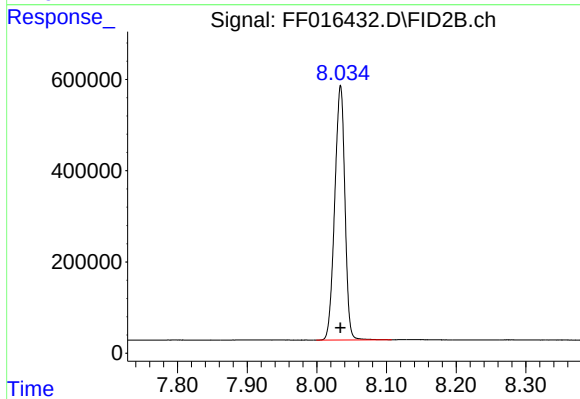
#2 Naphthalene (C11.7)

R.T.: 6.304 min  
Delta R.T.: 0.000 min  
Response: 6533060  
Conc: 47.24 ug/ml



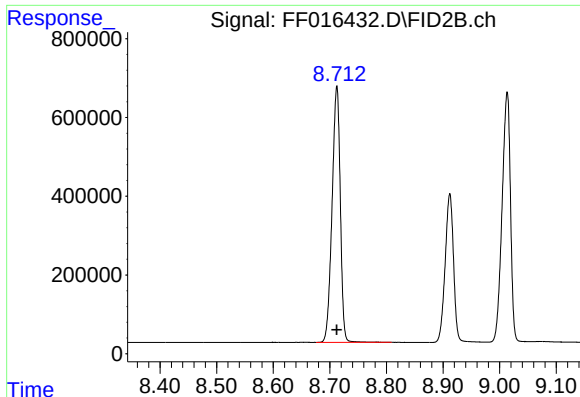
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.406 min  
Delta R.T.: 0.000 min  
Response: 6650030  
Conc: 47.30 ug/ml



#4 2-Bromonaphthalene (SURR)

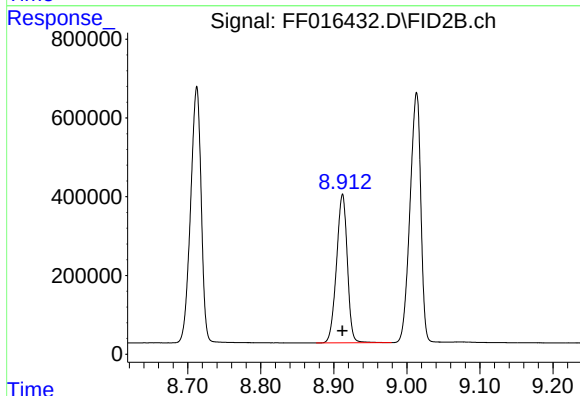
R.T.: 8.034 min  
Delta R.T.: 0.000 min  
Response: 5654549  
Conc: 47.31 ug/ml



#5 Acenaphthylene (C15.06)

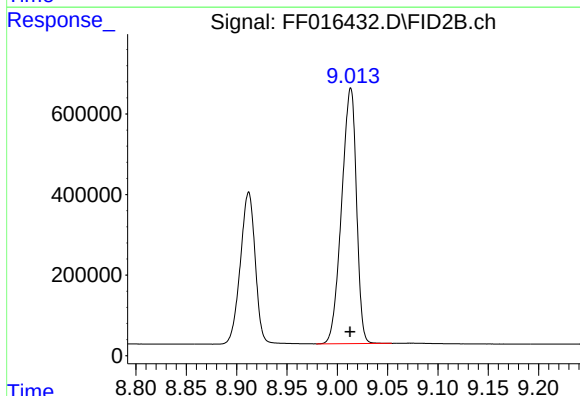
R.T.: 8.712 min  
Delta R.T.: 0.000 min  
Response: 6564172  
Conc: 47.43 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM AROMATIC HC STD2



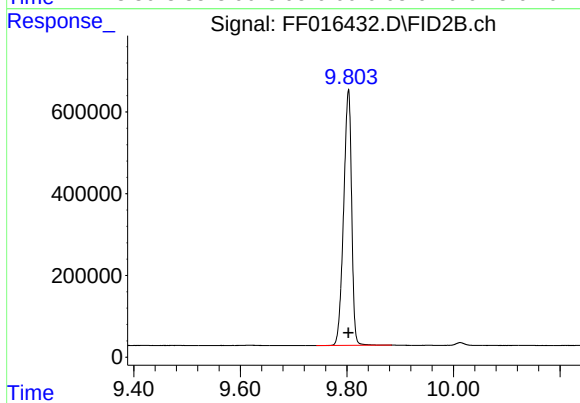
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.912 min  
Delta R.T.: 0.000 min  
Response: 3878601  
Conc: 47.45 ug/ml



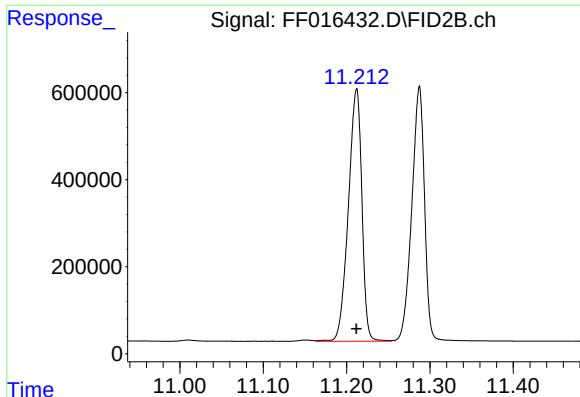
#7 Acenaphthene (C15.5)

R.T.: 9.013 min  
Delta R.T.: 0.000 min  
Response: 6513589  
Conc: 47.50 ug/ml



#8 Fluorene (C16.55)

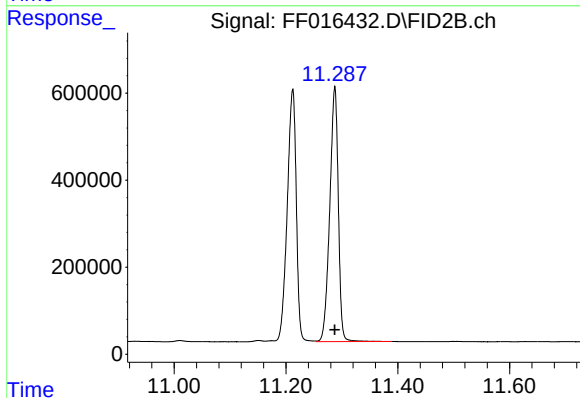
R.T.: 9.803 min  
Delta R.T.: 0.000 min  
Response: 6507793  
Conc: 47.21 ug/ml



#9 Phenanthrene (C19.36)

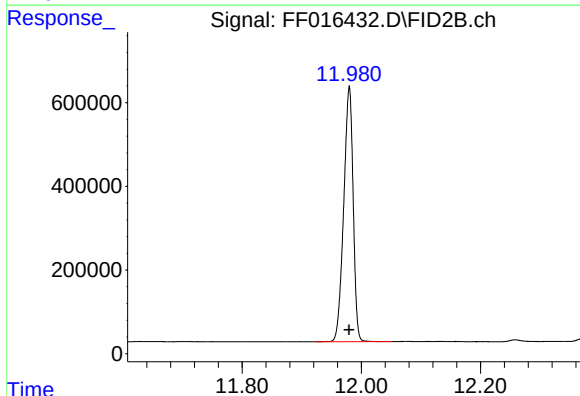
R.T.: 11.212 min  
Delta R.T.: 0.000 min  
Response: 6532119  
Conc: 47.36 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM AROMATIC HC STD2



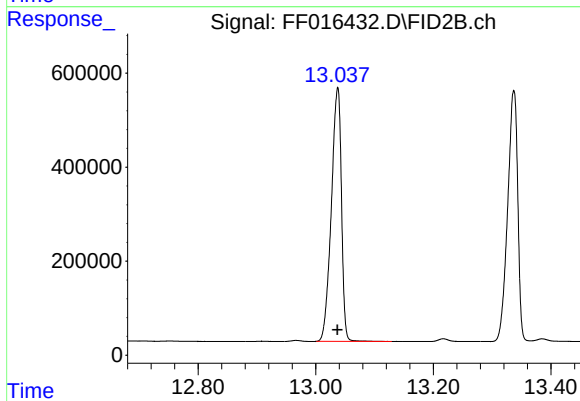
#10 Anthracene (C19.43)

R.T.: 11.287 min  
Delta R.T.: 0.000 min  
Response: 6223741  
Conc: 47.10 ug/ml



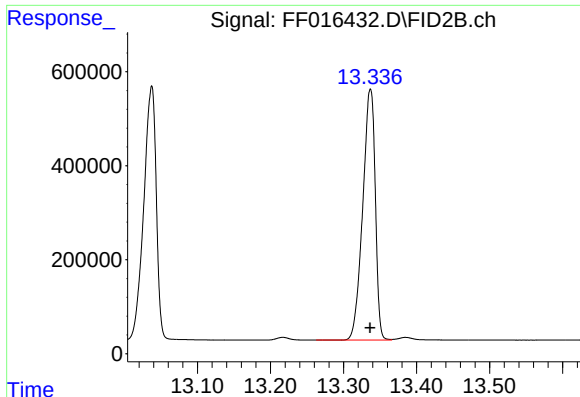
#11 ortho-Terphenyl (SURR)

R.T.: 11.980 min  
Delta R.T.: 0.000 min  
Response: 6709235  
Conc: 47.28 ug/ml



#12 Fluoranthene (C21.85)

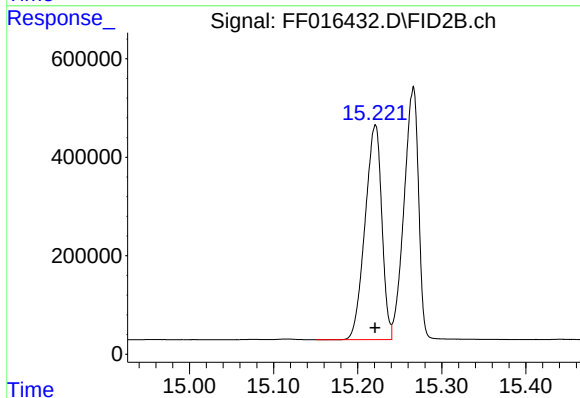
R.T.: 13.037 min  
Delta R.T.: 0.000 min  
Response: 6442747  
Conc: 47.24 ug/ml



#13 Pyrene (C20.8)

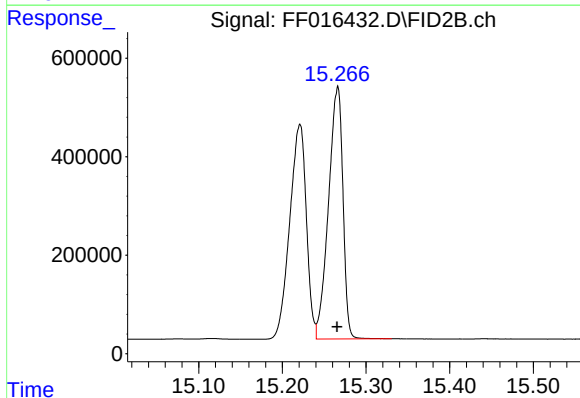
R.T.: 13.337 min  
Delta R.T.: 0.000 min  
Response: 6369315  
Conc: 47.40 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM AROMATIC HC STD2



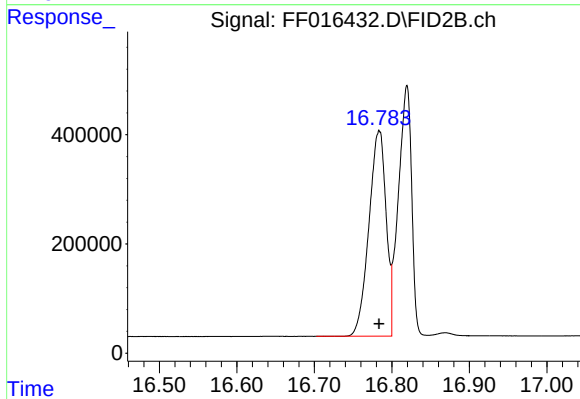
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.221 min  
Delta R.T.: 0.000 min  
Response: 6018657  
Conc: 47.24 ug/ml



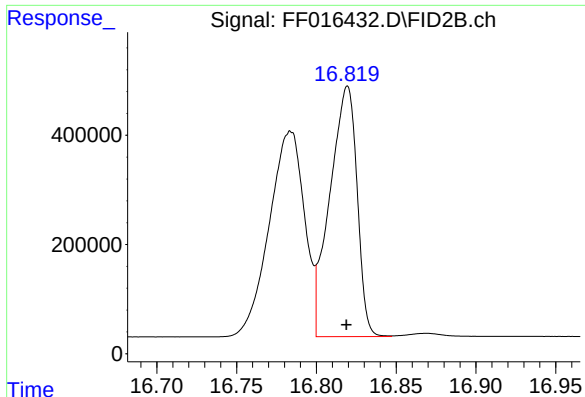
#15 Chrysene (C27.41)

R.T.: 15.266 min  
Delta R.T.: 0.000 min  
Response: 6125610  
Conc: 47.09 ug/ml



#16 benzo[b]fluoranthene (C30.41)

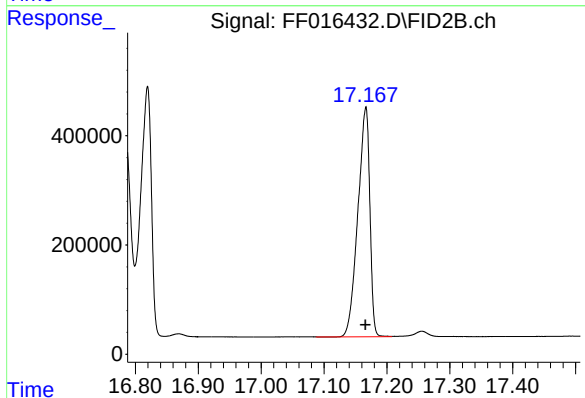
R.T.: 16.783 min  
Delta R.T.: 0.000 min  
Response: 5795694  
Conc: 47.15 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

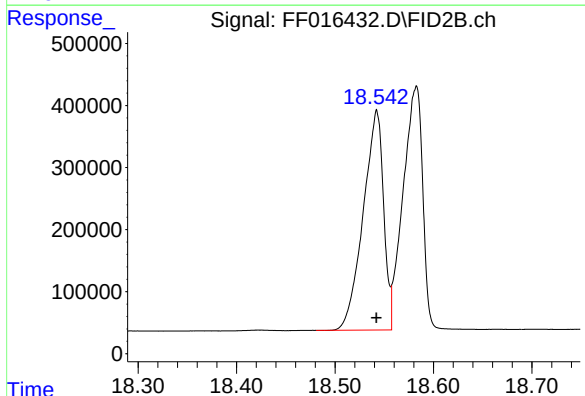
R.T.: 16.819 min  
Delta R.T.: 0.000 min  
Response: 5445729  
Conc: 47.10 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM AROMATIC HC STD2



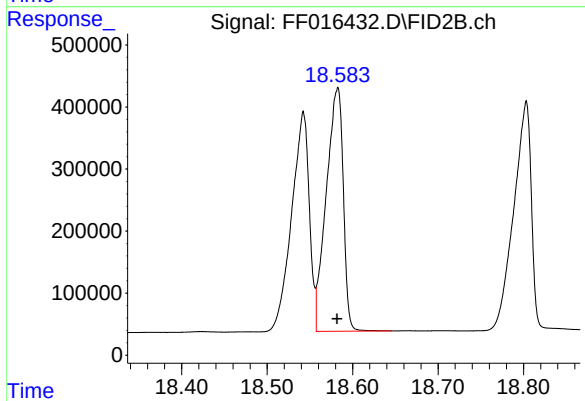
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.166 min  
Delta R.T.: 0.000 min  
Response: 5558378  
Conc: 47.08 ug/ml



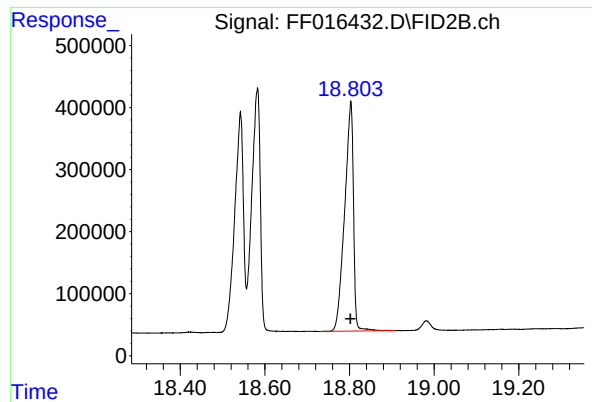
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.542 min  
Delta R.T.: 0.000 min  
Response: 5087687  
Conc: 46.89 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.582 min  
Delta R.T.: 0.000 min  
Response: 5425328  
Conc: 46.99 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.802 min  
Delta R.T.: 0.000 min  
Response: 5351044  
Conc: 46.99 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
50 PPM AROMATIC HC STD2

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016432.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 14:29  
Sample : 50 PPM AROMATIC HC STD2  
Misc :  
ALS Vial : 72 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.627       | 4.584        | 4.692      | BB       | 651647         | 6249533      | 93.15%         | 4.974%        |
| 2                       | 6.304       | 6.271        | 6.402      | BB       | 680296         | 6533060      | 97.37%         | 5.200%        |
| 3                       | 7.406       | 7.359        | 7.514      | BB       | 658661         | 6650030      | 99.12%         | 5.293%        |
| 4                       | 8.034       | 7.999        | 8.107      | BV       | 559602         | 5654549      | 84.28%         | 4.501%        |
| 5                       | 8.712       | 8.676        | 8.809      | BB       | 652555         | 6564172      | 97.84%         | 5.225%        |
| 6                       | 8.912       | 8.876        | 8.979      | BV       | 379317         | 3878601      | 57.81%         | 3.087%        |
| 7                       | 9.013       | 8.979        | 9.054      | PV       | 633241         | 6513589      | 97.08%         | 5.184%        |
| 8                       | 9.803       | 9.742        | 9.884      | BB       | 623665         | 6507793      | 97.00%         | 5.180%        |
| 9                       | 11.212      | 11.164       | 11.254     | VV       | 583678         | 6532119      | 97.36%         | 5.199%        |
| 10                      | 11.287      | 11.254       | 11.389     | VB       | 587179         | 6223741      | 92.76%         | 4.954%        |
| 11                      | 11.980      | 11.924       | 12.051     | BV       | 608338         | 6709235      | 100.00%        | 5.340%        |
| 12                      | 13.037      | 13.001       | 13.129     | BB       | 542872         | 6442747      | 96.03%         | 5.128%        |
| 13                      | 13.337      | 13.262       | 13.366     | BV       | 535712         | 6369315      | 94.93%         | 5.070%        |
| 14                      | 15.221      | 15.151       | 15.241     | BV       | 436284         | 6018657      | 89.71%         | 4.791%        |
| 15                      | 15.266      | 15.241       | 15.331     | VB       | 510620         | 6125610      | 91.30%         | 4.876%        |
| 16                      | 16.783      | 16.702       | 16.800     | BV       | 376389         | 5795694      | 86.38%         | 4.613%        |
| 17                      | 16.819      | 16.800       | 16.847     | VV       | 459725         | 5445729      | 81.17%         | 4.335%        |
| 18                      | 17.166      | 17.087       | 17.207     | BV       | 418349         | 5558378      | 82.85%         | 4.424%        |
| 19                      | 18.542      | 18.481       | 18.557     | BV       | 355784         | 5087687      | 75.83%         | 4.050%        |
| 20                      | 18.582      | 18.557       | 18.646     | VB       | 392603         | 5425328      | 80.86%         | 4.318%        |
| 21                      | 18.802      | 18.731       | 18.909     | BB       | 367802         | 5351044      | 79.76%         | 4.259%        |
| Sum of corrected areas: |             |              |            |          |                | 125636611    |                |               |

Aromatic EPH 092425.M Thu Sep 25 00:48:32 2025



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
 Data File : FF016433.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Sep 2025 14:59  
 Operator : YP\AJ  
 Sample : 20 PPM AROMATIC HC STD3  
 Misc :  
 ALS Vial : 73 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 20 PPM AROMATIC HC STD3

Integration File: autoint1.e  
 Quant Time: Sep 24 15:16:26 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 15:16:11 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.031  | 2558337    | 20.000 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 40.00%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.909  | 1741301    | 20.000 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 40.00%       |
| 11) S ortho-Terphenyl (SURR)       | 11.976 | 3079552    | 20.000 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 40.00%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.625  | 2848825    | 20.000 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.302  | 2963269    | 20.000 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.402  | 3011112    | 20.000 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.708  | 2963322    | 20.000 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.008  | 2919556    | 20.000 ug/ml |
| 8) T Flouorene (C16.55)            | 9.798  | 2976884    | 20.000 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.207 | 2975729    | 20.000 ug/ml |
| 10) T Anthracene (C19.43)          | 11.283 | 2893687    | 20.000 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.032 | 2967546    | 20.000 ug/ml |
| 13) T Pyrene (C20.8)               | 13.331 | 2908519    | 20.000 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.215 | 2776618    | 20.000 ug/ml |
| 15) T Chrysene (C27.41)            | 15.257 | 2862862    | 20.000 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.777 | 2696749    | 20.000 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.809 | 2560301    | 20.000 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.157 | 2599389    | 20.000 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.533 | 2305647    | 20.000 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.572 | 2654779    | 20.000 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.789 | 2498798    | 20.000 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

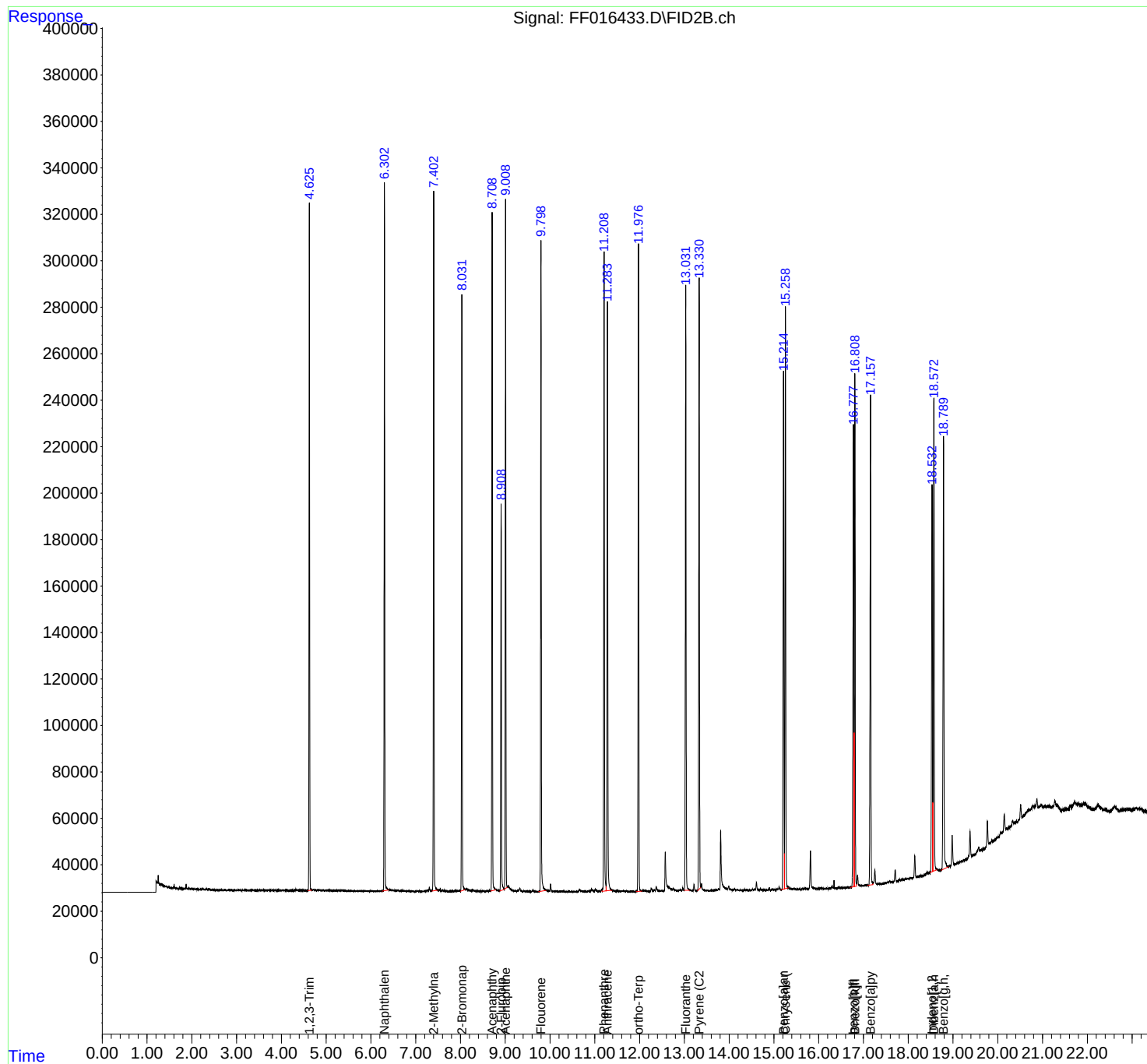
(m)=manual int.

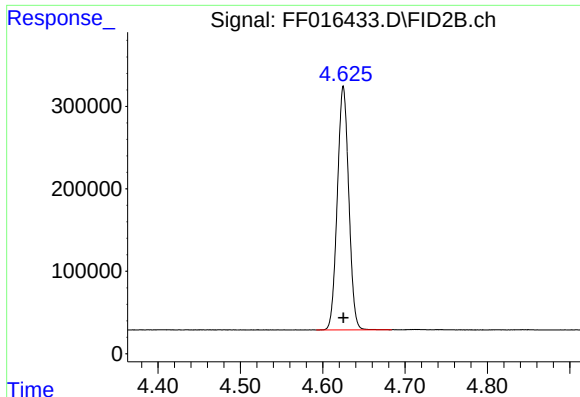
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016433.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 14:59  
Operator : YP\AJ  
Sample : 20 PPM AROMATIC HC STD3  
Misc :  
ALS Vial : 73 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD3

Integration File: autoint1.e  
Quant Time: Sep 24 15:16:26 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 15:16:11 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

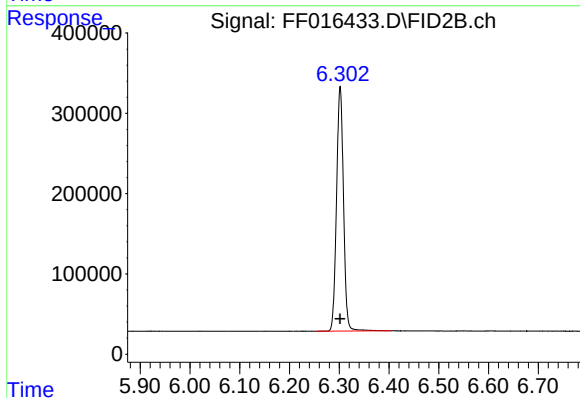




#1 1,2,3-Trimethylbenzene (C10.1)

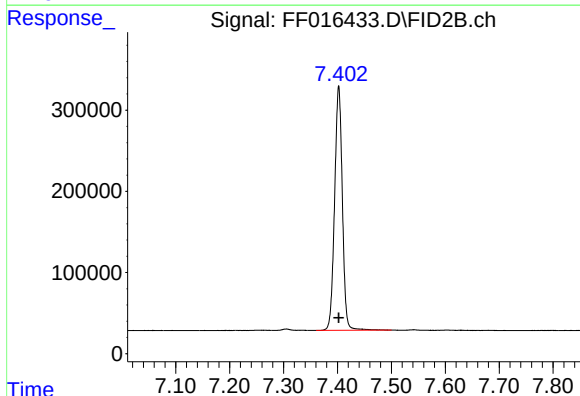
R.T.: 4.625 min  
Delta R.T.: 0.000 min  
Response: 2848825  
Conc: 20.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD3



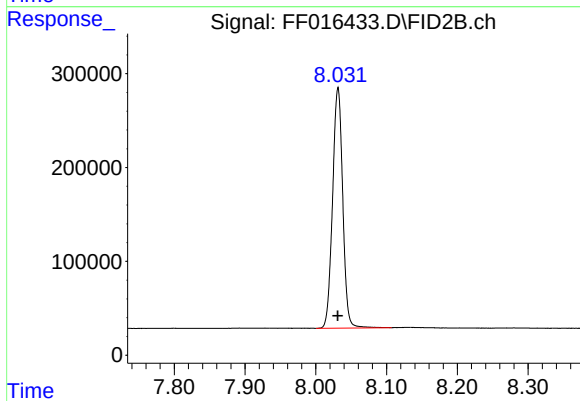
#2 Naphthalene (C11.7)

R.T.: 6.302 min  
Delta R.T.: 0.000 min  
Response: 2963269  
Conc: 20.00 ug/ml



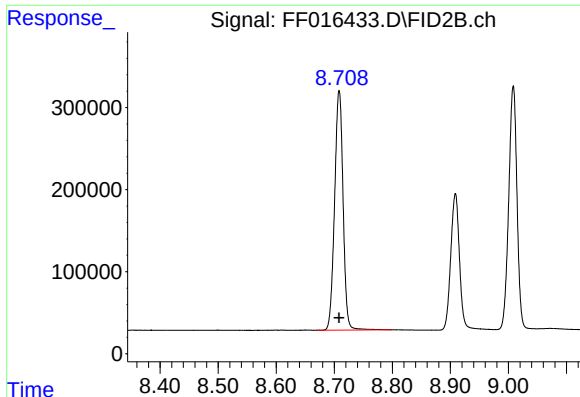
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min  
Delta R.T.: 0.000 min  
Response: 3011112  
Conc: 20.00 ug/ml



#4 2-Bromonaphthalene (SURR)

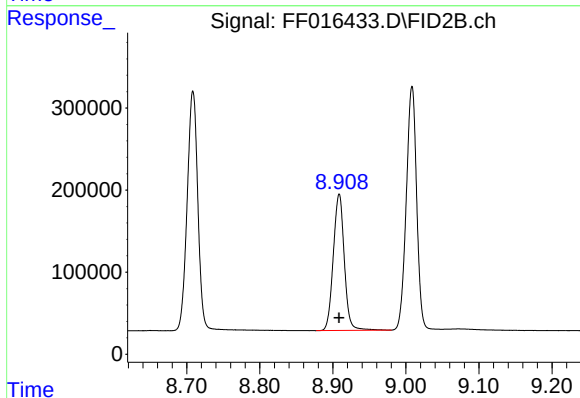
R.T.: 8.031 min  
Delta R.T.: 0.000 min  
Response: 2558337  
Conc: 20.00 ug/ml



#5 Acenaphthylene (C15.06)

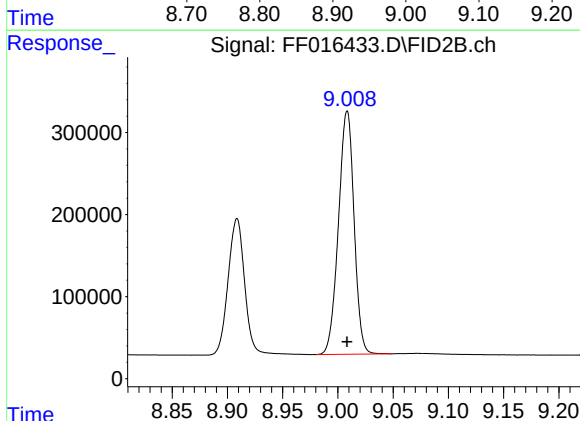
R.T.: 8.708 min  
Delta R.T.: 0.000 min  
Response: 2963322  
Conc: 20.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD3



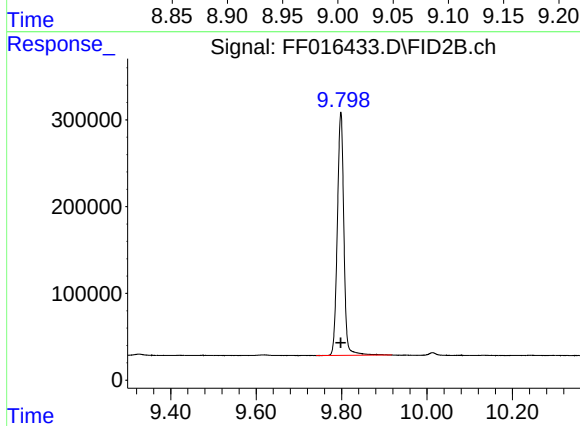
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.909 min  
Delta R.T.: 0.000 min  
Response: 1741301  
Conc: 20.00 ug/ml



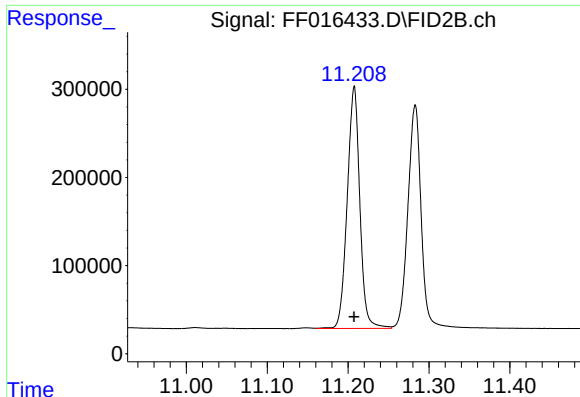
#7 Acenaphthene (C15.5)

R.T.: 9.008 min  
Delta R.T.: 0.000 min  
Response: 2919556  
Conc: 20.00 ug/ml



#8 Fluorene (C16.55)

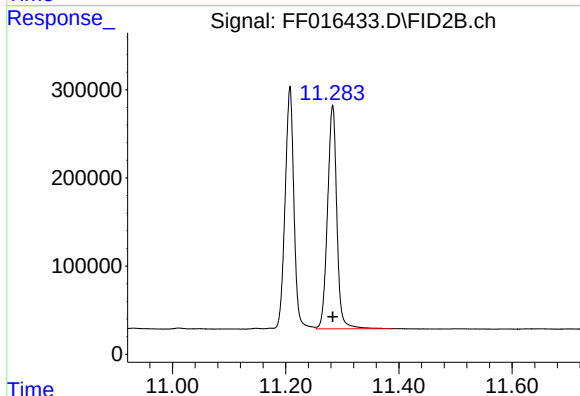
R.T.: 9.798 min  
Delta R.T.: 0.000 min  
Response: 2976884  
Conc: 20.00 ug/ml



#9 Phenanthrene (C19.36)

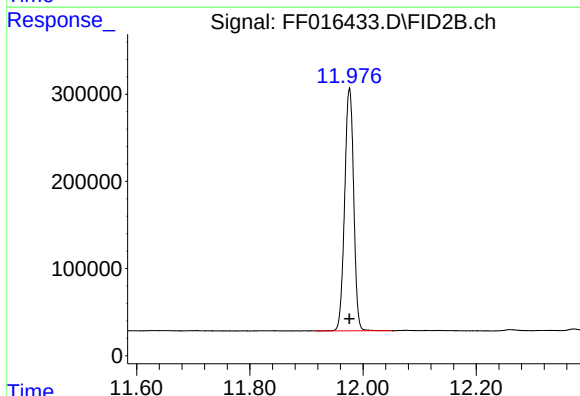
R.T.: 11.207 min  
Delta R.T.: 0.000 min  
Response: 2975729  
Conc: 20.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD3



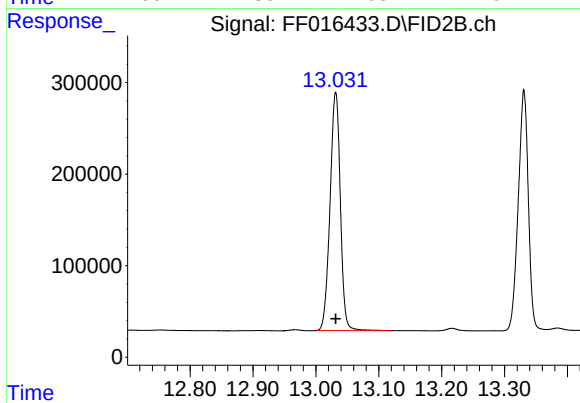
#10 Anthracene (C19.43)

R.T.: 11.283 min  
Delta R.T.: 0.000 min  
Response: 2893687  
Conc: 20.00 ug/ml



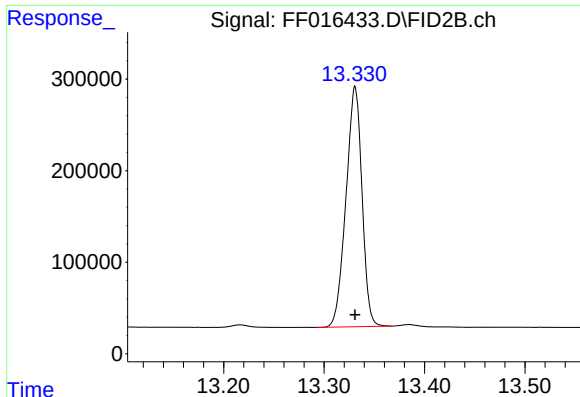
#11 ortho-Terphenyl (SURR)

R.T.: 11.976 min  
Delta R.T.: 0.000 min  
Response: 3079552  
Conc: 20.00 ug/ml



#12 Fluoranthene (C21.85)

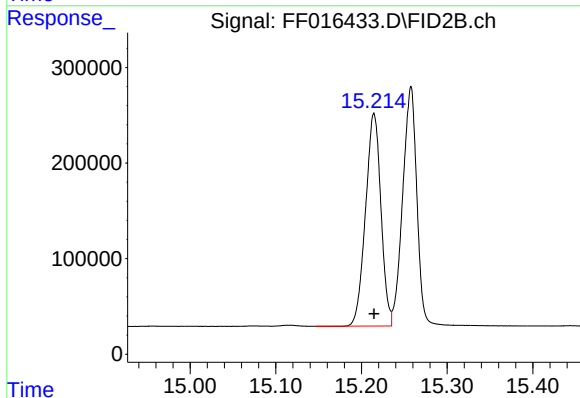
R.T.: 13.032 min  
Delta R.T.: 0.000 min  
Response: 2967546  
Conc: 20.00 ug/ml



#13 Pyrene (C20.8)

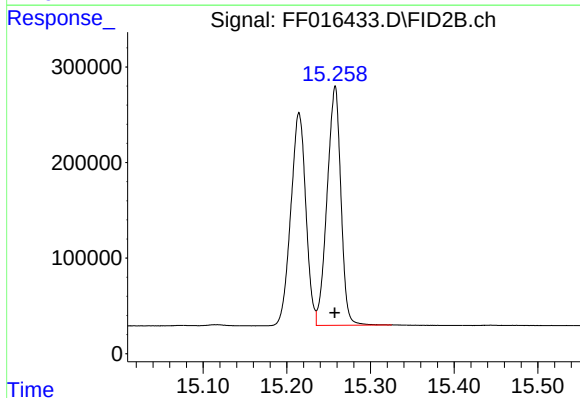
R.T.: 13.331 min  
Delta R.T.: 0.000 min  
Response: 2908519  
Conc: 20.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD3



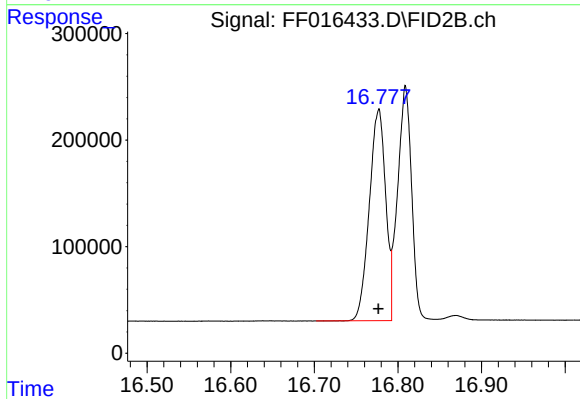
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.215 min  
Delta R.T.: 0.000 min  
Response: 2776618  
Conc: 20.00 ug/ml



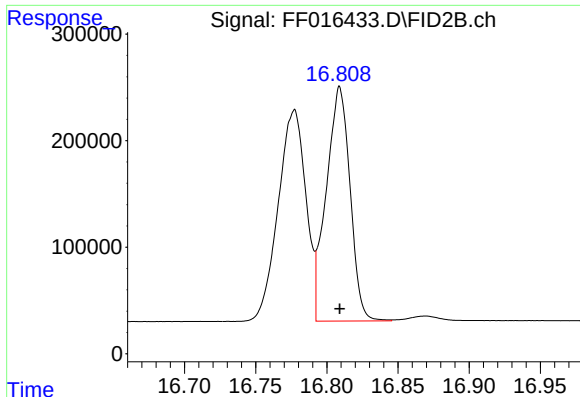
#15 Chrysene (C27.41)

R.T.: 15.257 min  
Delta R.T.: 0.000 min  
Response: 2862862  
Conc: 20.00 ug/ml



#16 benzo[b]fluoranthene (C30.41)

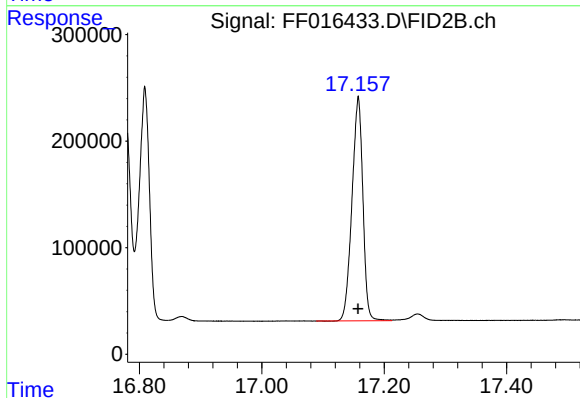
R.T.: 16.777 min  
Delta R.T.: 0.000 min  
Response: 2696749  
Conc: 20.00 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

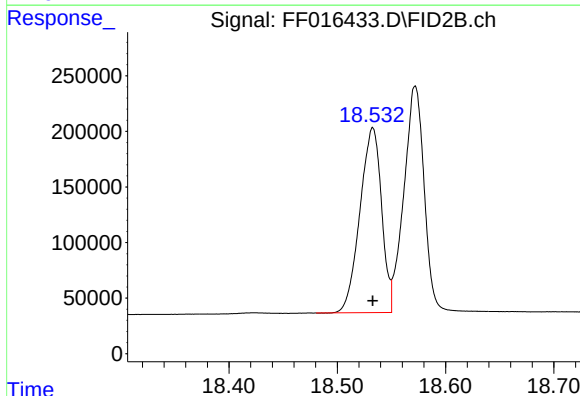
R.T.: 16.809 min  
Delta R.T.: 0.000 min  
Response: 2560301  
Conc: 20.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD3



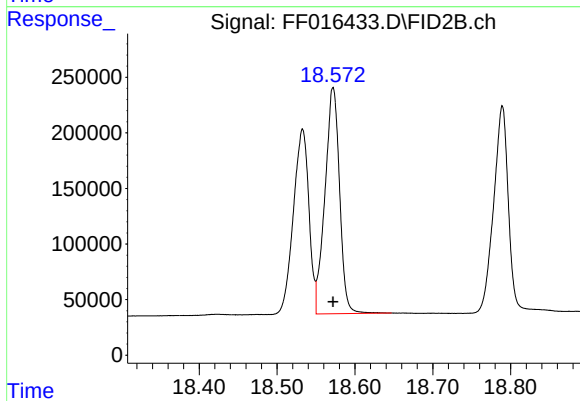
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.157 min  
Delta R.T.: 0.000 min  
Response: 2599389  
Conc: 20.00 ug/ml



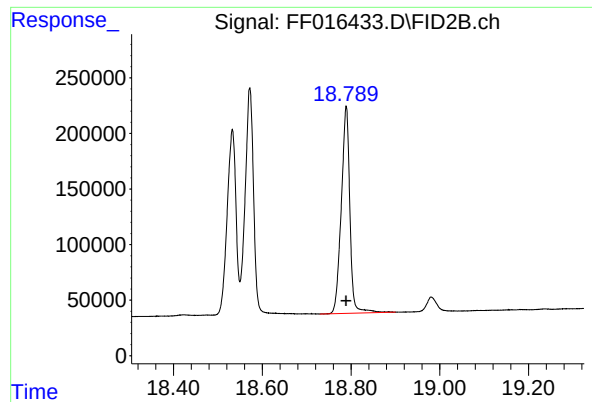
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.533 min  
Delta R.T.: 0.000 min  
Response: 2305647  
Conc: 20.00 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.572 min  
Delta R.T.: 0.000 min  
Response: 2654779  
Conc: 20.00 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.789 min  
Delta R.T.: 0.000 min  
Response: 2498798  
Conc: 20.00 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD3



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016433.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 14:59  
Sample : 20 PPM AROMATIC HC STD3  
Misc :  
ALS Vial : 73 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.625       | 4.592        | 4.684      | BB       | 295387         | 2848825      | 92.51%         | 4.932%        |
| 2                       | 6.302       | 6.254        | 6.405      | BB       | 304676         | 2963269      | 96.22%         | 5.130%        |
| 3                       | 7.402       | 7.360        | 7.500      | BB       | 300976         | 3011112      | 97.78%         | 5.213%        |
| 4                       | 8.031       | 8.000        | 8.107      | BB       | 257165         | 2558337      | 83.07%         | 4.429%        |
| 5                       | 8.708       | 8.669        | 8.799      | BB       | 292176         | 2963322      | 96.23%         | 5.130%        |
| 6                       | 8.909       | 8.877        | 8.980      | BV       | 166755         | 1741301      | 56.54%         | 3.015%        |
| 7                       | 9.008       | 8.980        | 9.049      | PV       | 297457         | 2919556      | 94.80%         | 5.054%        |
| 8                       | 9.798       | 9.740        | 9.917      | BB       | 281199         | 2976884      | 96.67%         | 5.154%        |
| 9                       | 11.207      | 11.160       | 11.254     | VV       | 274391         | 2975729      | 96.63%         | 5.152%        |
| 10                      | 11.283      | 11.254       | 11.387     | VB       | 252595         | 2893687      | 93.96%         | 5.010%        |
| 11                      | 11.976      | 11.917       | 12.050     | BB       | 277607         | 3079552      | 100.00%        | 5.331%        |
| 12                      | 13.032      | 13.000       | 13.120     | BB       | 261027         | 2967546      | 96.36%         | 5.137%        |
| 13                      | 13.331      | 13.292       | 13.367     | BV       | 262989         | 2908519      | 94.45%         | 5.035%        |
| 14                      | 15.215      | 15.147       | 15.235     | BV       | 222104         | 2776618      | 90.16%         | 4.807%        |
| 15                      | 15.257      | 15.235       | 15.325     | VB       | 250097         | 2862862      | 92.96%         | 4.956%        |
| 16                      | 16.777      | 16.702       | 16.792     | BV       | 198692         | 2696749      | 87.57%         | 4.669%        |
| 17                      | 16.809      | 16.792       | 16.845     | VV       | 220665         | 2560301      | 83.14%         | 4.432%        |
| 18                      | 17.157      | 17.089       | 17.212     | BV       | 209878         | 2599389      | 84.41%         | 4.500%        |
| 19                      | 18.533      | 18.480       | 18.550     | BV       | 166491         | 2305647      | 74.87%         | 3.992%        |
| 20                      | 18.572      | 18.550       | 18.647     | VB       | 203361         | 2654779      | 86.21%         | 4.596%        |
| 21                      | 18.789      | 18.730       | 18.900     | BB       | 186301         | 2498798      | 81.14%         | 4.326%        |
| Sum of corrected areas: |             |              |            |          |                | 57762783     |                |               |

Aromatic EPH 092425.M Thu Sep 25 00:49:09 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
 Data File : FF016434.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Sep 2025 15:28  
 Operator : YP\AJ  
 Sample : 10 PPM AROMATIC HC STD4  
 Misc :  
 ALS Vial : 74 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 10 PPM AROMATIC HC STD4

Integration File: autoint1.e  
 Quant Time: Sep 24 16:21:54 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:21:45 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

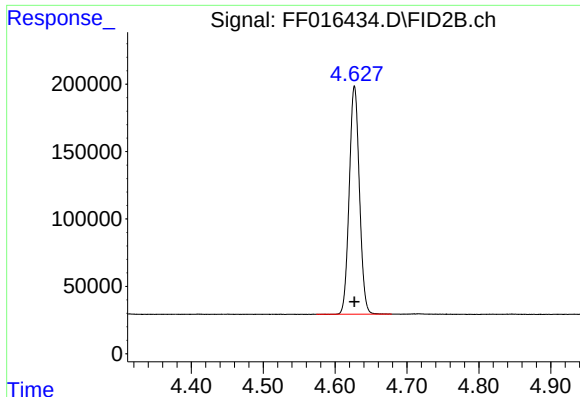
Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.031  | 1481517    | 11.695 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 23.39%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.907  | 988395     | 11.491 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 22.98%       |
| 11) S ortho-Terphenyl (SURR)       | 11.974 | 1809727    | 11.932 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 23.86%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.627  | 1662196    | 11.804 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.302  | 1716476    | 11.705 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.402  | 1742677    | 11.695 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.707  | 1714200    | 11.690 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.007  | 1683417    | 11.615 ug/ml |
| 8) T Flouorene (C16.55)            | 9.796  | 1736875    | 11.832 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.204 | 1732603    | 11.805 ug/ml |
| 10) T Anthracene (C19.43)          | 11.280 | 1733091    | 12.168 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.029 | 1749056    | 11.979 ug/ml |
| 13) T Pyrene (C20.8)               | 13.328 | 1709506    | 11.912 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.211 | 1649438    | 12.058 ug/ml |
| 15) T Chrysene (C27.41)            | 15.254 | 1745210    | 12.360 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.773 | 1594531    | 12.074 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.804 | 1540396    | 12.301 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.153 | 1570961    | 12.291 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.528 | 1351251    | 11.733 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.568 | 1619900    | 12.746 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.783 | 1490189    | 12.149 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

(m)=manual int.

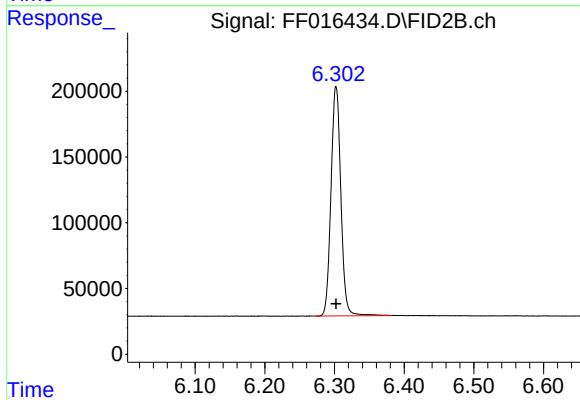




#1 1,2,3-Trimethylbenzene (C10.1)

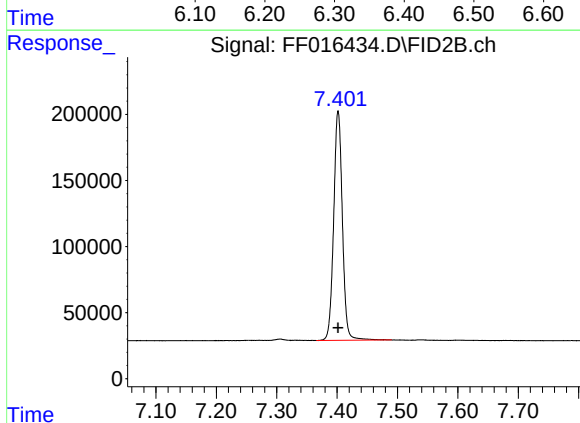
R.T.: 4.627 min  
Delta R.T.: 0.000 min  
Response: 1662196  
Conc: 11.80 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 PPM AROMATIC HC STD4



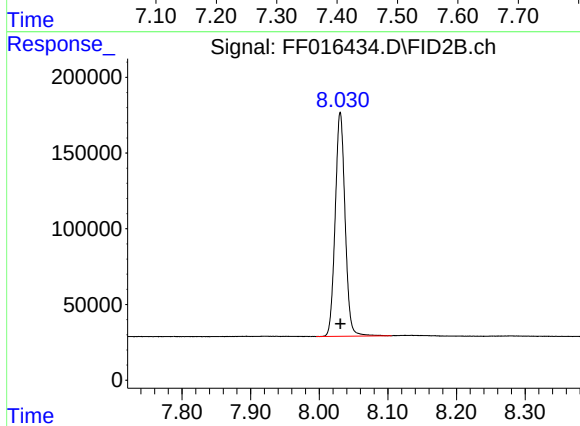
#2 Naphthalene (C11.7)

R.T.: 6.302 min  
Delta R.T.: 0.000 min  
Response: 1716476  
Conc: 11.71 ug/ml



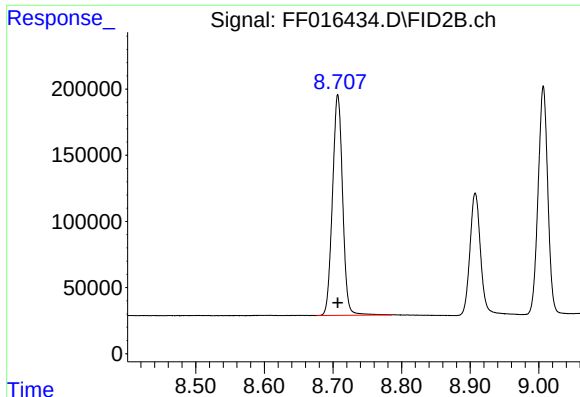
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min  
Delta R.T.: 0.000 min  
Response: 1742677  
Conc: 11.70 ug/ml



#4 2-Bromonaphthalene (SURR)

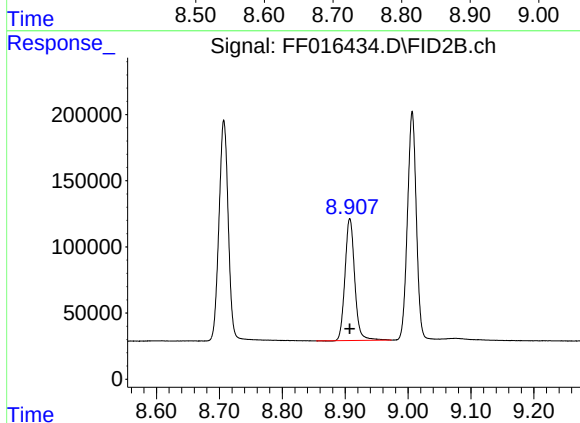
R.T.: 8.031 min  
Delta R.T.: 0.000 min  
Response: 1481517  
Conc: 11.70 ug/ml



#5 Acenaphthylene (C15.06)

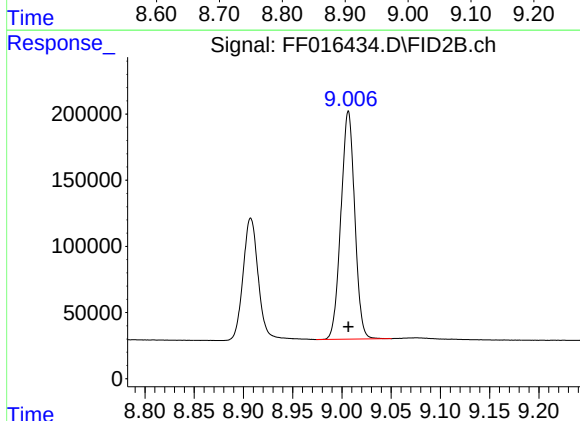
R.T.: 8.707 min  
Delta R.T.: 0.000 min  
Response: 1714200  
Conc: 11.69 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 PPM AROMATIC HC STD4



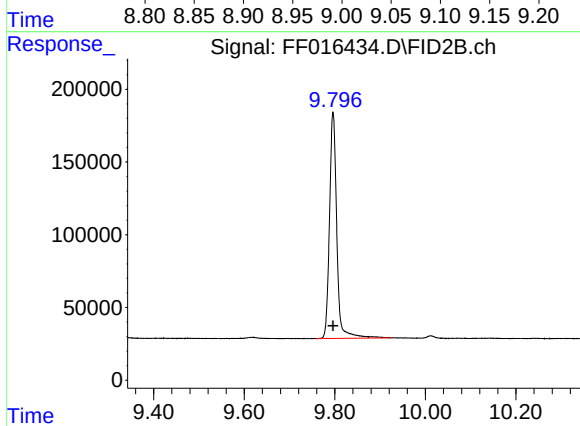
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.907 min  
Delta R.T.: 0.000 min  
Response: 988395  
Conc: 11.49 ug/ml



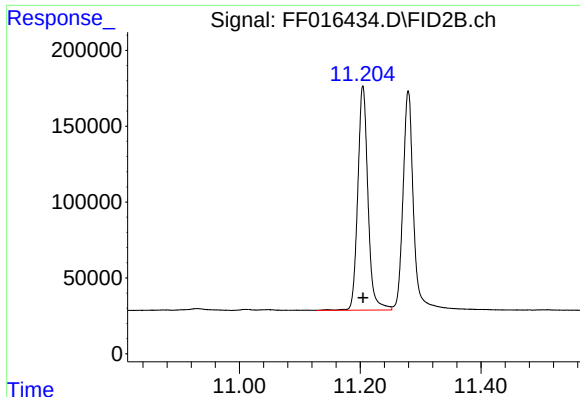
#7 Acenaphthene (C15.5)

R.T.: 9.007 min  
Delta R.T.: 0.000 min  
Response: 1683417  
Conc: 11.62 ug/ml



#8 Flouorene (C16.55)

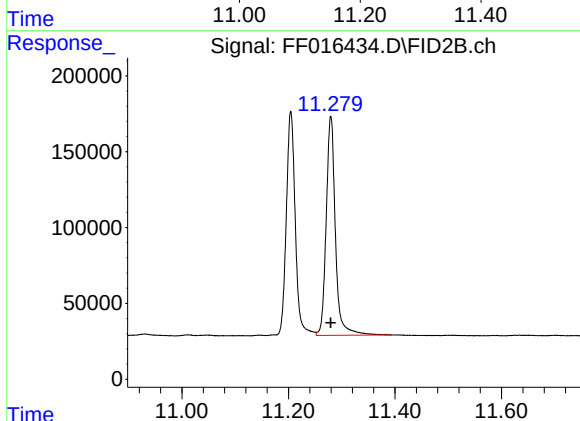
R.T.: 9.796 min  
Delta R.T.: 0.000 min  
Response: 1736875  
Conc: 11.83 ug/ml



#9 Phenanthrene (C19.36)

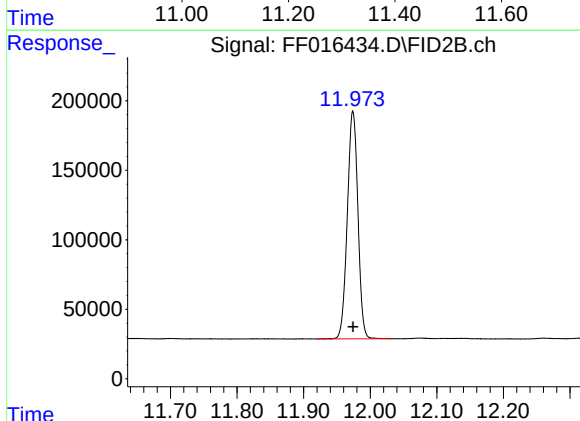
R.T.: 11.204 min  
Delta R.T.: 0.000 min  
Response: 1732603  
Conc: 11.81 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 PPM AROMATIC HC STD4



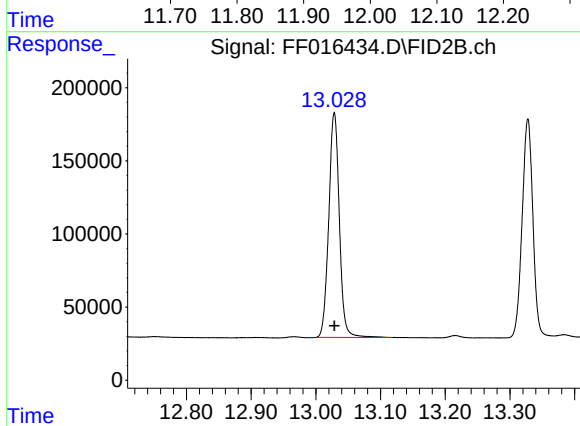
#10 Anthracene (C19.43)

R.T.: 11.280 min  
Delta R.T.: 0.000 min  
Response: 1733091  
Conc: 12.17 ug/ml



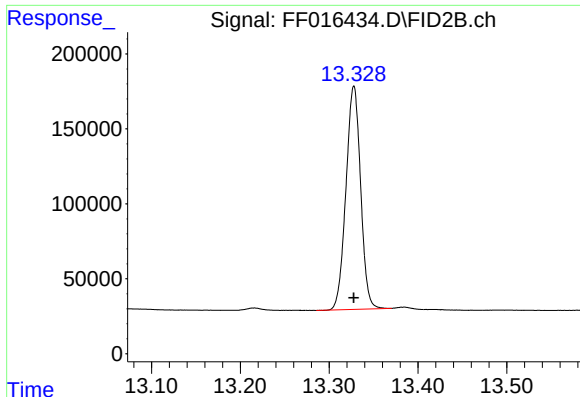
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min  
Delta R.T.: 0.000 min  
Response: 1809727  
Conc: 11.93 ug/ml



#12 Fluoranthene (C21.85)

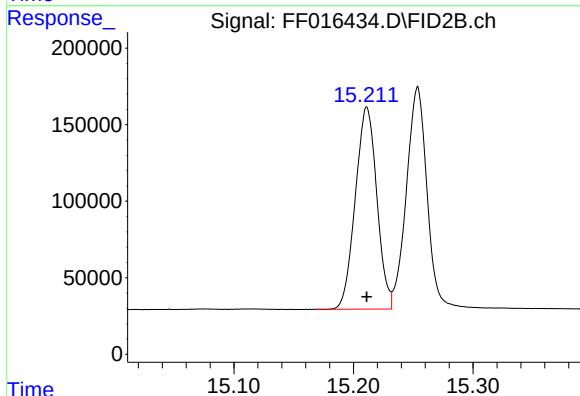
R.T.: 13.029 min  
Delta R.T.: 0.000 min  
Response: 1749056  
Conc: 11.98 ug/ml



#13 Pyrene (C20.8)

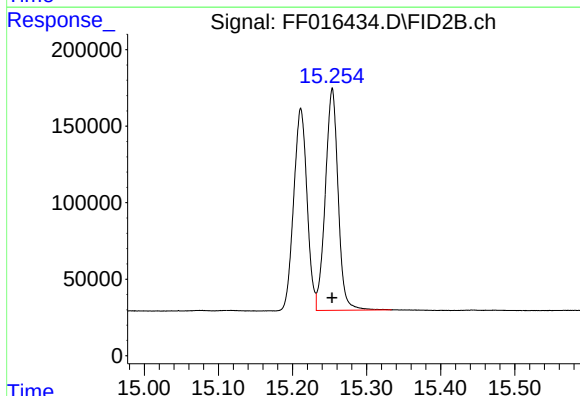
R.T.: 13.328 min  
Delta R.T.: 0.000 min  
Response: 1709506  
Conc: 11.91 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 PPM AROMATIC HC STD4



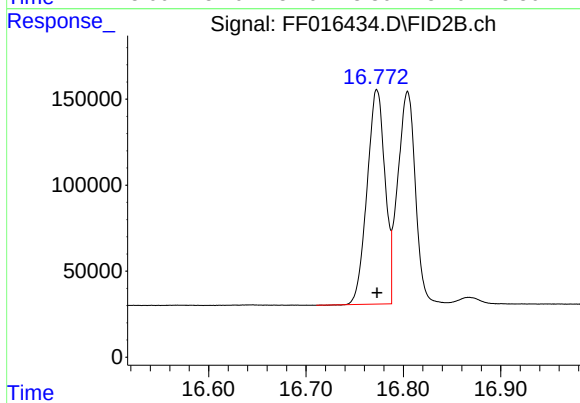
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.211 min  
Delta R.T.: 0.000 min  
Response: 1649438  
Conc: 12.06 ug/ml



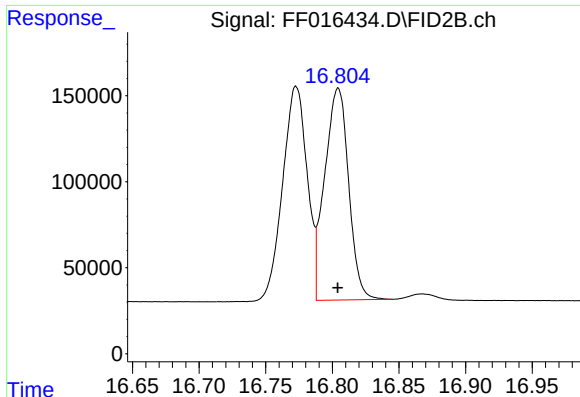
#15 Chrysene (C27.41)

R.T.: 15.254 min  
Delta R.T.: 0.000 min  
Response: 1745210  
Conc: 12.36 ug/ml



#16 benzo[b]fluoranthene (C30.41)

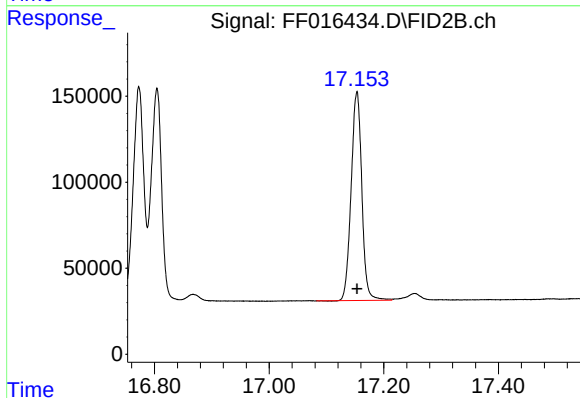
R.T.: 16.773 min  
Delta R.T.: 0.000 min  
Response: 1594531  
Conc: 12.07 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

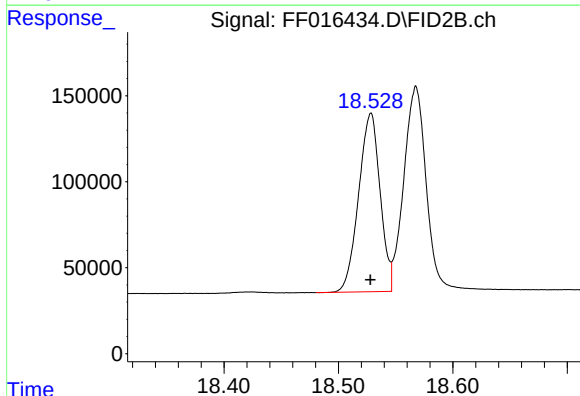
R.T.: 16.804 min  
Delta R.T.: 0.000 min  
Response: 1540396  
Conc: 12.30 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 PPM AROMATIC HC STD4



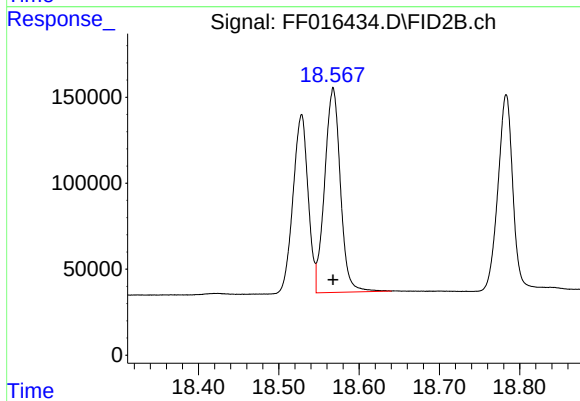
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.153 min  
Delta R.T.: 0.000 min  
Response: 1570961  
Conc: 12.29 ug/ml



#19 Indeno[1,2,3-cd]pyrene (C35.01)

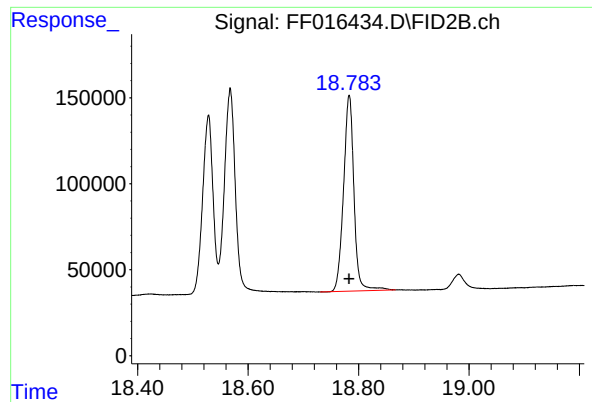
R.T.: 18.528 min  
Delta R.T.: 0.000 min  
Response: 1351251  
Conc: 11.73 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.568 min  
Delta R.T.: 0.000 min  
Response: 1619900  
Conc: 12.75 ug/ml





#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.783 min  
Delta R.T.: 0.000 min  
Response: 1490189  
Conc: 12.15 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
10 PPM AROMATIC HC STD4

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016434.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 15:28  
Sample : 10 PPM AROMATIC HC STD4  
Misc :  
ALS Vial : 74 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.627       | 4.574        | 4.679      | BB       | 169350         | 1662196      | 91.85%         | 4.886%        |
| 2                       | 6.302       | 6.274        | 6.382      | BB       | 174721         | 1716476      | 94.85%         | 5.045%        |
| 3                       | 7.402       | 7.365        | 7.490      | BB       | 173280         | 1742677      | 96.30%         | 5.122%        |
| 4                       | 8.031       | 7.995        | 8.105      | BB       | 147868         | 1481517      | 81.86%         | 4.355%        |
| 5                       | 8.707       | 8.675        | 8.785      | BB       | 166757         | 1714200      | 94.72%         | 5.039%        |
| 6                       | 8.907       | 8.854        | 8.974      | BV       | 92086          | 988395       | 54.62%         | 2.905%        |
| 7                       | 9.007       | 8.974        | 9.050      | PV       | 172736         | 1683417      | 93.02%         | 4.948%        |
| 8                       | 9.796       | 9.759        | 9.925      | BB       | 154714         | 1736875      | 95.97%         | 5.105%        |
| 9                       | 11.205      | 11.127       | 11.252     | BV       | 147894         | 1732603      | 95.74%         | 5.093%        |
| 10                      | 11.280      | 11.252       | 11.394     | VB       | 144671         | 1733091      | 95.77%         | 5.094%        |
| 11                      | 11.974      | 11.919       | 12.032     | BB       | 163952         | 1809727      | 100.00%        | 5.319%        |
| 12                      | 13.029      | 13.000       | 13.117     | BB       | 153881         | 1749056      | 96.65%         | 5.141%        |
| 13                      | 13.328      | 13.285       | 13.370     | BV       | 149122         | 1709506      | 94.46%         | 5.025%        |
| 14                      | 15.211      | 15.169       | 15.232     | BV       | 132251         | 1649438      | 91.14%         | 4.848%        |
| 15                      | 15.254      | 15.232       | 15.334     | VB       | 145331         | 1745210      | 96.44%         | 5.130%        |
| 16                      | 16.773      | 16.710       | 16.788     | BV       | 124790         | 1594531      | 88.11%         | 4.687%        |
| 17                      | 16.804      | 16.788       | 16.845     | VV       | 123152         | 1540396      | 85.12%         | 4.528%        |
| 18                      | 17.153      | 17.082       | 17.214     | BV       | 122252         | 1570961      | 86.81%         | 4.618%        |
| 19                      | 18.528      | 18.480       | 18.546     | BV       | 104420         | 1351251      | 74.67%         | 3.972%        |
| 20                      | 18.568      | 18.546       | 18.640     | VB       | 118899         | 1619900      | 89.51%         | 4.761%        |
| 21                      | 18.783      | 18.730       | 18.867     | BB       | 114223         | 1490189      | 82.34%         | 4.380%        |
| Sum of corrected areas: |             |              |            |          |                |              | 34021608       |               |

Aromatic EPH 092425.M Thu Sep 25 00:49:47 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
 Data File : FF016435.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Sep 2025 15:58  
 Operator : YP\AJ  
 Sample : 5 PPM AROMATIC HC STD5  
 Misc :  
 ALS Vial : 75 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 5 PPM AROMATIC HC STD5

Integration File: autoint1.e  
 Quant Time: Sep 24 16:24:07 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:23:45 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units  |
|------------------------------------|--------|------------|-------------|
| -----                              |        |            |             |
| System Monitoring Compounds        |        |            |             |
| 4) S 2-Bromonaphthalene (S...      | 8.031  | 598161     | 4.775 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 9.55%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.908  | 388157     | 4.602 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 9.20%       |
| 11) S ortho-Terphenyl (SURR)       | 11.974 | 777849     | 5.102 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 10.20%      |
| Target Compounds                   |        |            |             |
| 1) T 1,2,3-Trimethylbenzen...      | 4.624  | 707668     | 5.020 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.301  | 709232     | 4.868 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.401  | 700376     | 4.757 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.706  | 690062     | 4.762 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.006  | 686883     | 4.789 ug/ml |
| 8) T Flouorene (C16.55)            | 9.796  | 675559     | 4.676 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.204 | 711069     | 4.875 ug/ml |
| 10) T Anthracene (C19.43)          | 11.279 | 728208     | 5.090 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.026 | 730906     | 5.005 ug/ml |
| 13) T Pyrene (C20.8)               | 13.325 | 712306     | 4.971 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.209 | 667130     | 4.901 ug/ml |
| 15) T Chrysene (C27.41)            | 15.251 | 742138     | 5.203 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.769 | 643824     | 4.900 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.801 | 642318     | 5.103 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.150 | 635965     | 4.981 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.524 | 547710     | 4.803 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.565 | 722079     | 5.531 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.778 | 625224     | 5.077 ug/ml |
| -----                              |        |            |             |

(f)=RT Delta > 1/2 Window

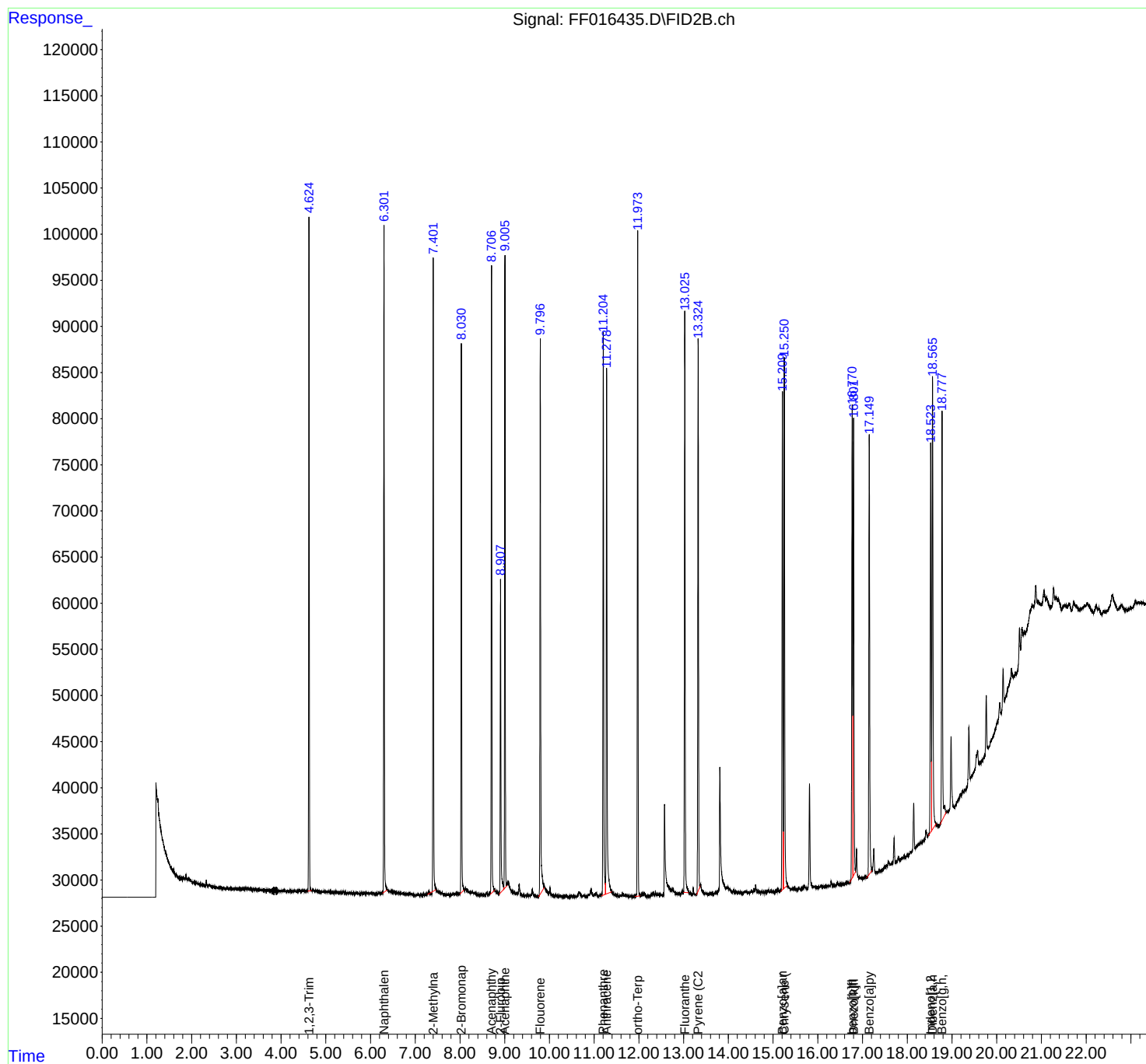
(m)=manual int.

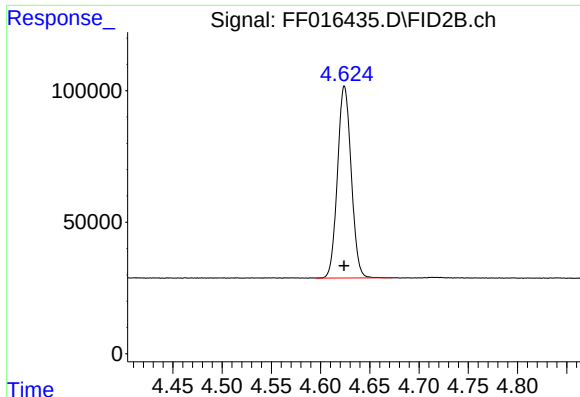
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016435.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 15:58  
Operator : YP\AJ  
Sample : 5 PPM AROMATIC HC STD5  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
5 PPM AROMATIC HC STD5

Integration File: autoint1.e  
Quant Time: Sep 24 16:24:07 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:23:45 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

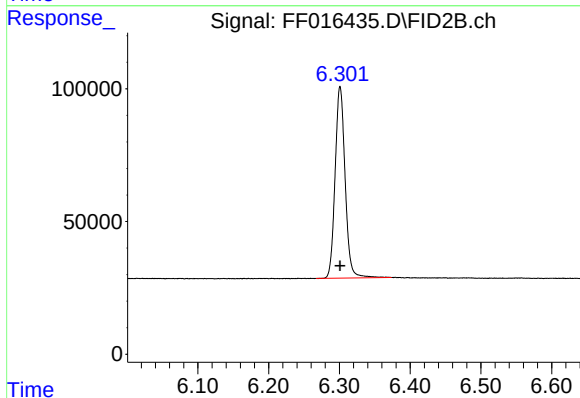




#1 1,2,3-Trimethylbenzene (C10.1)

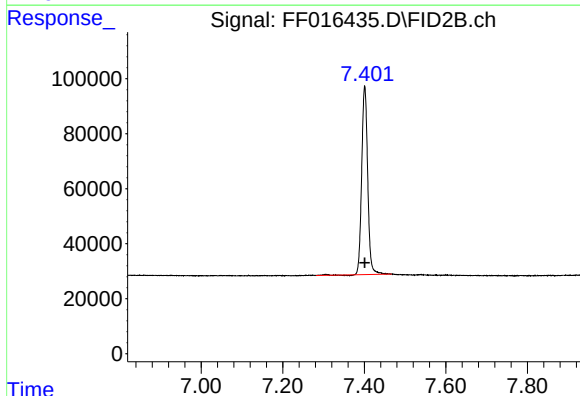
R.T.: 4.624 min  
Delta R.T.: 0.000 min  
Response: 707668  
Conc: 5.02 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 PPM AROMATIC HC STD5



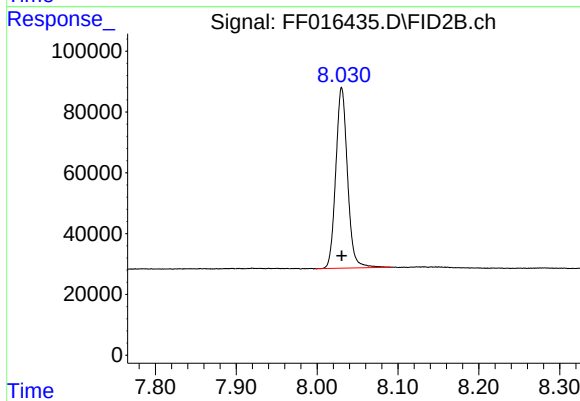
#2 Naphthalene (C11.7)

R.T.: 6.301 min  
Delta R.T.: 0.000 min  
Response: 709232  
Conc: 4.87 ug/ml



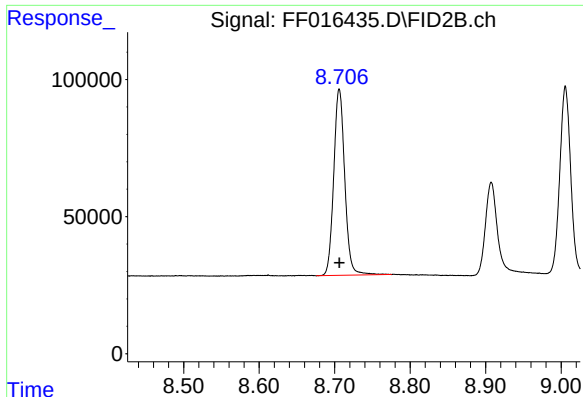
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.401 min  
Delta R.T.: 0.000 min  
Response: 700376  
Conc: 4.76 ug/ml



#4 2-Bromonaphthalene (SURR)

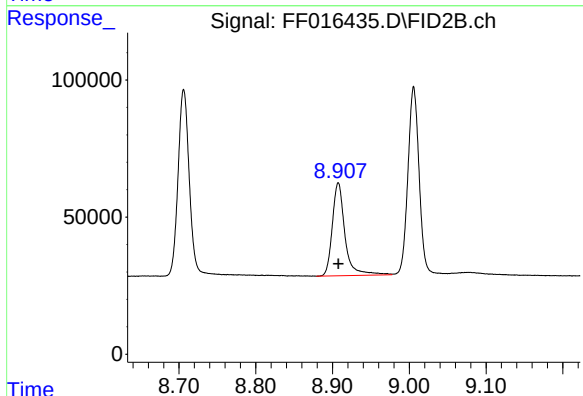
R.T.: 8.031 min  
Delta R.T.: 0.000 min  
Response: 598161  
Conc: 4.78 ug/ml



#5 Acenaphthylene (C15.06)

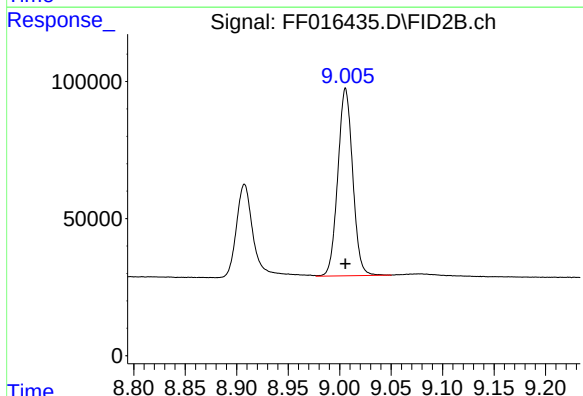
R.T.: 8.706 min  
Delta R.T.: 0.000 min  
Response: 690062  
Conc: 4.76 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 PPM AROMATIC HC STD5



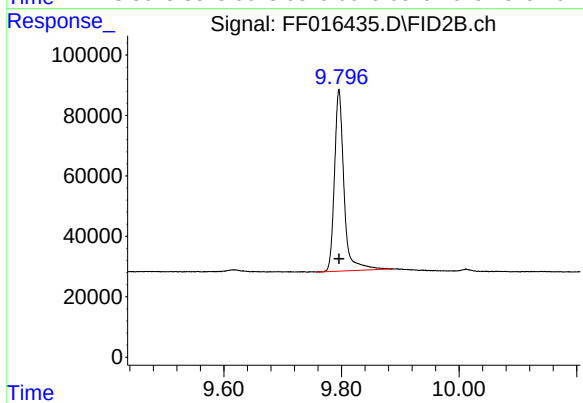
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.908 min  
Delta R.T.: 0.000 min  
Response: 388157  
Conc: 4.60 ug/ml



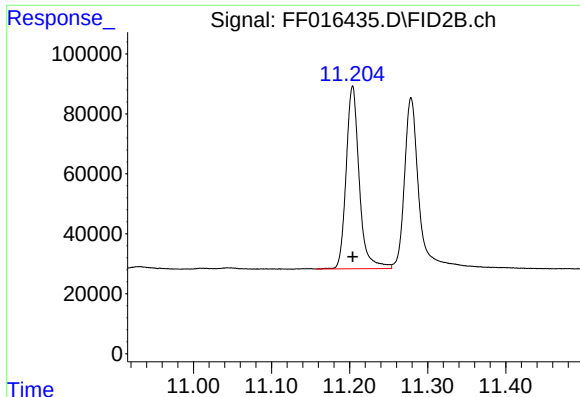
#7 Acenaphthene (C15.5)

R.T.: 9.006 min  
Delta R.T.: 0.000 min  
Response: 686883  
Conc: 4.79 ug/ml



#8 Flouorene (C16.55)

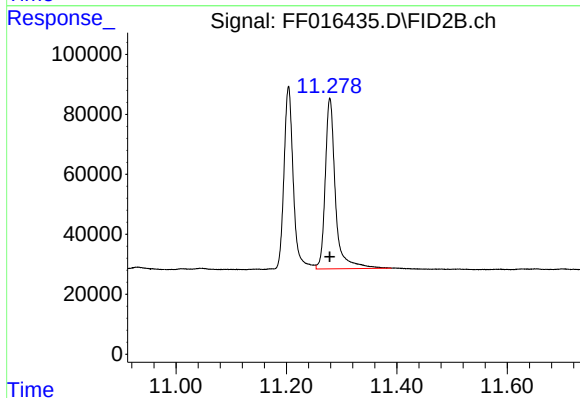
R.T.: 9.796 min  
Delta R.T.: 0.000 min  
Response: 675559  
Conc: 4.68 ug/ml



#9 Phenanthrene (C19.36)

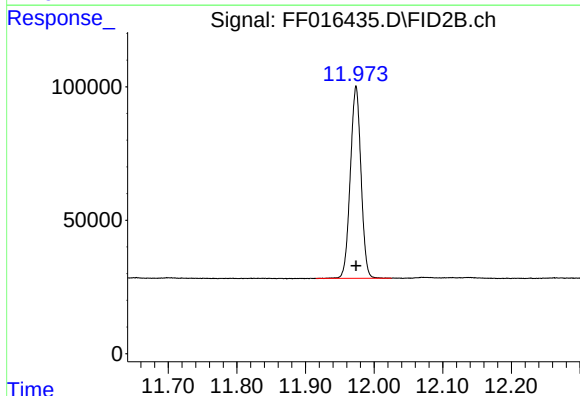
R.T.: 11.204 min  
Delta R.T.: 0.000 min  
Response: 711069  
Conc: 4.88 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 PPM AROMATIC HC STD5



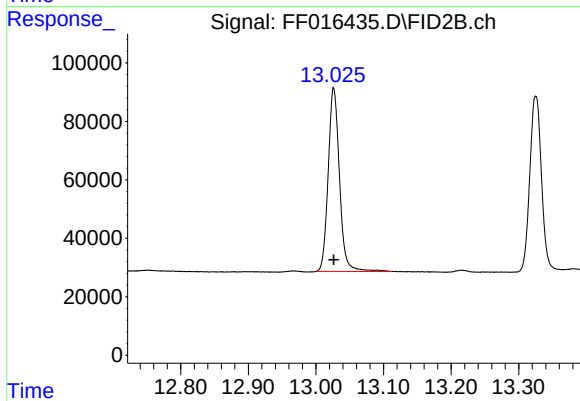
#10 Anthracene (C19.43)

R.T.: 11.279 min  
Delta R.T.: 0.000 min  
Response: 728208  
Conc: 5.09 ug/ml



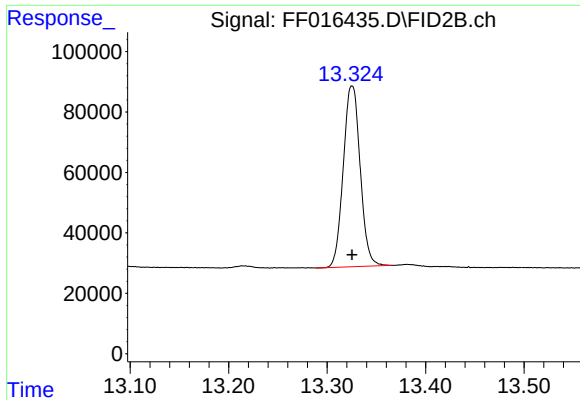
#11 ortho-Terphenyl (SURR)

R.T.: 11.974 min  
Delta R.T.: 0.000 min  
Response: 777849  
Conc: 5.10 ug/ml



#12 Fluoranthene (C21.85)

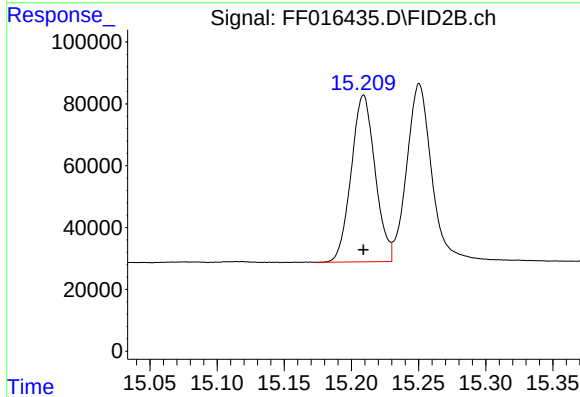
R.T.: 13.026 min  
Delta R.T.: 0.000 min  
Response: 730906  
Conc: 5.00 ug/ml



#13 Pyrene (C20.8)

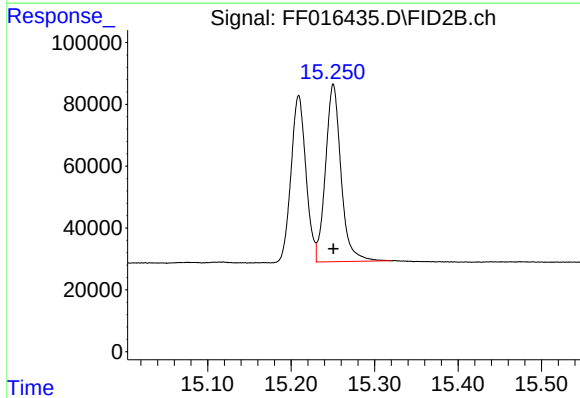
R.T.: 13.325 min  
Delta R.T.: 0.000 min  
Response: 712306  
Conc: 4.97 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 PPM AROMATIC HC STD5



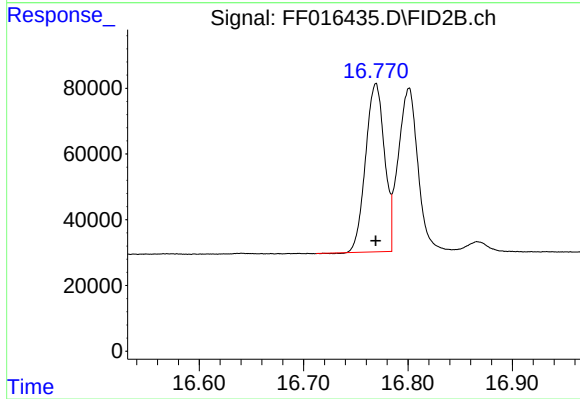
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.209 min  
Delta R.T.: 0.000 min  
Response: 667130  
Conc: 4.90 ug/ml



#15 Chrysene (C27.41)

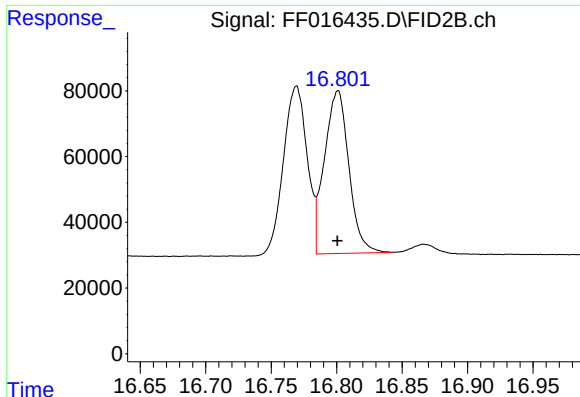
R.T.: 15.251 min  
Delta R.T.: 0.000 min  
Response: 742138  
Conc: 5.20 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.769 min  
Delta R.T.: 0.000 min  
Response: 643824  
Conc: 4.90 ug/ml

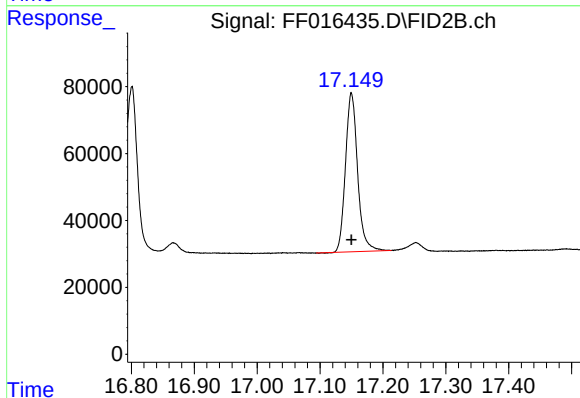




#17 Bnezo[k]fluoranthene (C30.14)

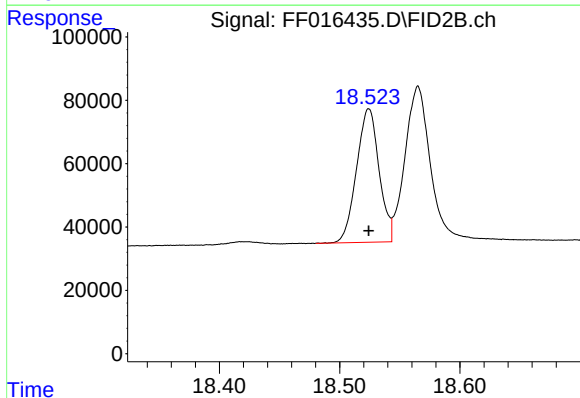
R.T.: 16.801 min  
Delta R.T.: 0.000 min  
Response: 642318  
Conc: 5.10 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 PPM AROMATIC HC STD5



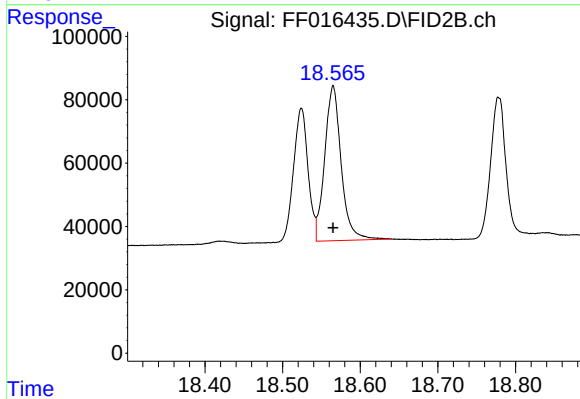
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.150 min  
Delta R.T.: 0.000 min  
Response: 635965  
Conc: 4.98 ug/ml



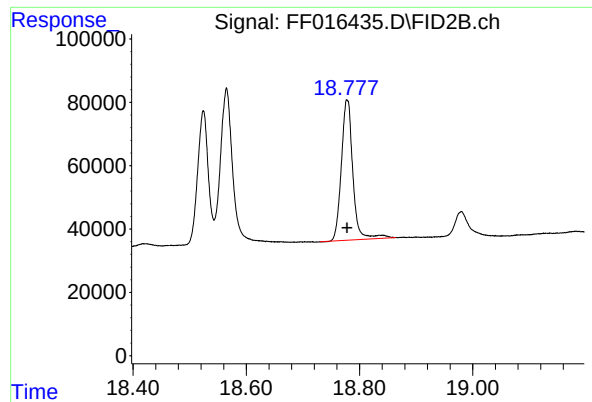
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.524 min  
Delta R.T.: 0.000 min  
Response: 547710  
Conc: 4.80 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.565 min  
Delta R.T.: 0.000 min  
Response: 722079  
Conc: 5.53 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.778 min  
Delta R.T.: 0.000 min  
Response: 625224  
Conc: 5.08 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
5 PPM AROMATIC HC STD5

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016435.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 15:58  
Sample : 5 PPM AROMATIC HC STD5  
Misc :  
ALS Vial : 75 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.624       | 4.595        | 4.672      | BB       | 73020          | 707668       | 90.98%         | 5.039%        |
| 2                       | 6.301       | 6.267        | 6.374      | BB       | 72230          | 709232       | 91.18%         | 5.050%        |
| 3                       | 7.401       | 7.282        | 7.467      | BB       | 68568          | 700376       | 90.04%         | 4.987%        |
| 4                       | 8.031       | 7.999        | 8.092      | BB       | 59455          | 598161       | 76.90%         | 4.260%        |
| 5                       | 8.706       | 8.675        | 8.775      | BB       | 68009          | 690062       | 88.71%         | 4.914%        |
| 6                       | 8.908       | 8.879        | 8.977      | BV       | 33968          | 388157       | 49.90%         | 2.764%        |
| 7                       | 9.006       | 8.977        | 9.050      | VV       | 68406          | 686883       | 88.31%         | 4.891%        |
| 8                       | 9.796       | 9.757        | 9.885      | BB       | 59984          | 675559       | 86.85%         | 4.811%        |
| 9                       | 11.204      | 11.157       | 11.254     | BV       | 60981          | 711069       | 91.41%         | 5.064%        |
| 10                      | 11.279      | 11.254       | 11.390     | VB       | 56945          | 728208       | 93.62%         | 5.186%        |
| 11                      | 11.974      | 11.915       | 12.025     | BB       | 72220          | 777849       | 100.00%        | 5.539%        |
| 12                      | 13.026      | 13.000       | 13.112     | BB       | 62485          | 730906       | 93.96%         | 5.205%        |
| 13                      | 13.325      | 13.289       | 13.365     | BV       | 59832          | 712306       | 91.57%         | 5.072%        |
| 14                      | 15.209      | 15.174       | 15.230     | BV       | 53965          | 667130       | 85.77%         | 4.751%        |
| 15                      | 15.251      | 15.230       | 15.320     | VB       | 57543          | 742138       | 95.41%         | 5.285%        |
| 16                      | 16.769      | 16.712       | 16.784     | BV       | 51248          | 643824       | 82.77%         | 4.585%        |
| 17                      | 16.801      | 16.784       | 16.842     | VV       | 49585          | 642318       | 82.58%         | 4.574%        |
| 18                      | 17.150      | 17.094       | 17.214     | BV       | 47387          | 635965       | 81.76%         | 4.529%        |
| 19                      | 18.524      | 18.480       | 18.543     | BV       | 42239          | 547710       | 70.41%         | 3.900%        |
| 20                      | 18.565      | 18.543       | 18.640     | VB       | 49127          | 722079       | 92.83%         | 5.142%        |
| 21                      | 18.778      | 18.730       | 18.864     | BB       | 44158          | 625224       | 80.38%         | 4.452%        |
| Sum of corrected areas: |             |              |            |          |                | 14042825     |                |               |

Aromatic EPH 092425.M Thu Sep 25 00:50:32 2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
 Data File : FF016436.D  
 Signal(s) : FID2B.ch  
 Acq On : 24 Sep 2025 16:28  
 Operator : YP\AJ  
 Sample : 20 PPM AROMATIC HC STD ICV  
 Misc :  
 ALS Vial : 76 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e  
 Quant Time: Sep 24 16:38:47 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.030  | 2211521    | 17.654 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 35.31%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.907  | 1500863    | 17.795 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 35.59%       |
| 11) S ortho-Terphenyl (SURR)       | 11.974 | 2682324    | 17.595 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 35.19%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.624  | 2465539    | 17.491 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.301  | 2552694    | 17.523 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.402  | 2602818    | 17.680 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.707  | 2564508    | 17.696 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.007  | 2527766    | 17.625 ug/ml |
| 8) T Flouorene (C16.55)            | 9.796  | 2582519    | 17.877 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.205 | 2584516    | 17.719 ug/ml |
| 10) T Anthracene (C19.43)          | 11.280 | 2510342    | 17.546 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.029 | 2578506    | 17.655 ug/ml |
| 13) T Pyrene (C20.8)               | 13.328 | 2529762    | 17.653 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.212 | 2418959    | 17.771 ug/ml |
| 15) T Chrysene (C27.41)            | 15.255 | 2515757    | 17.636 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.775 | 2326602    | 17.706 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.806 | 2231035    | 17.725 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.155 | 2275638    | 17.822 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.530 | 1991060    | 17.460 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.569 | 2262342    | 17.329 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.786 | 2143636    | 17.408 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

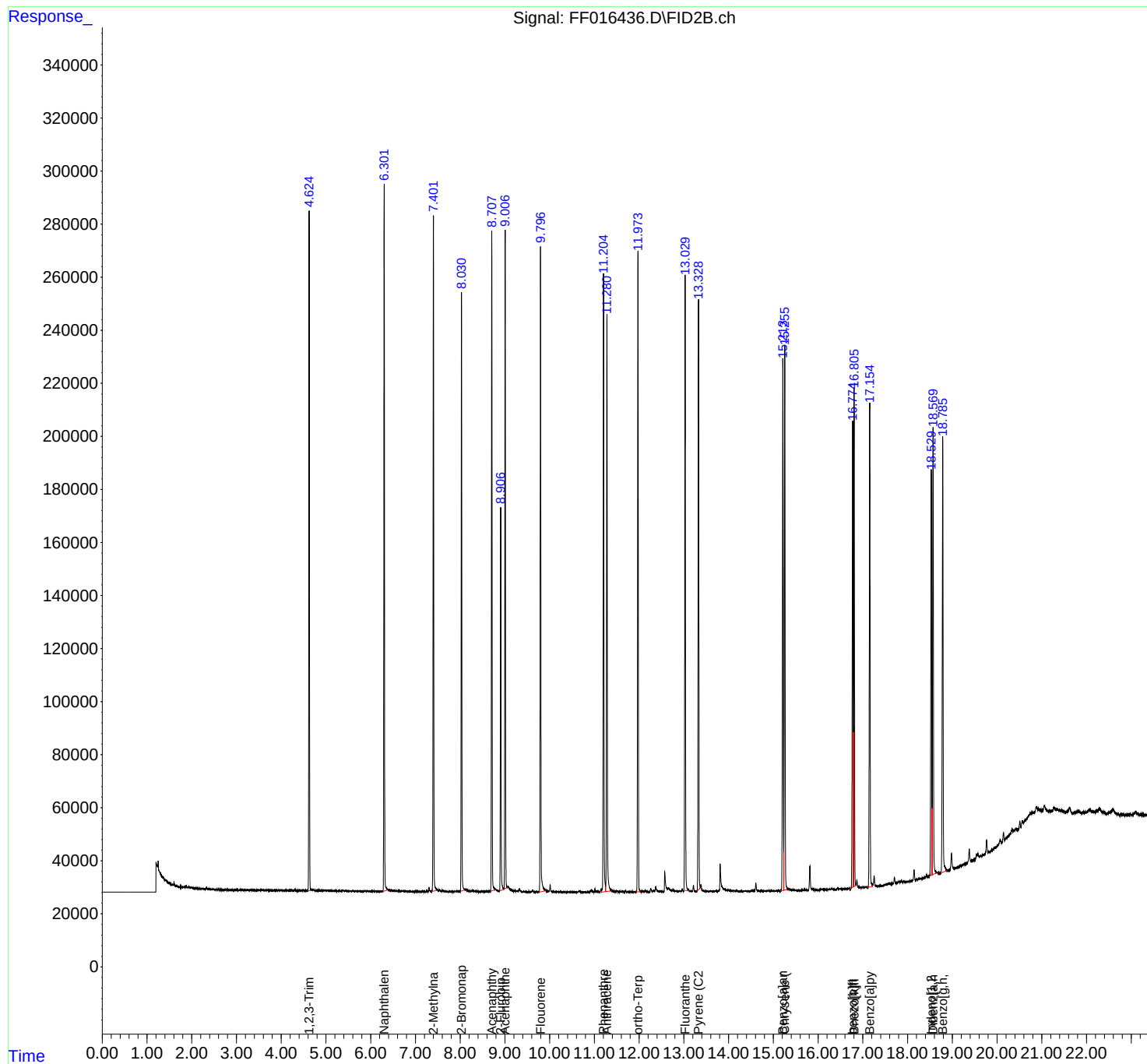
(m)=manual int.

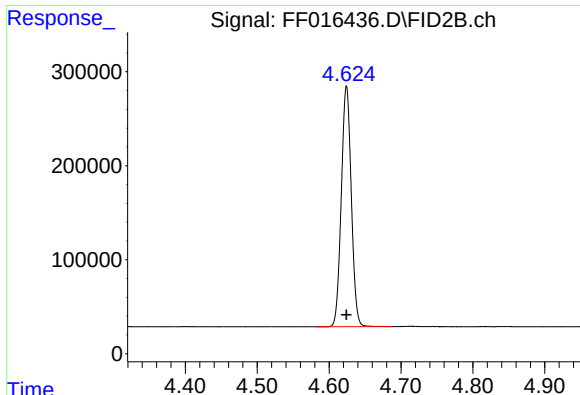
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016436.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 16:28  
Operator : YP\AJ  
Sample : 20 PPM AROMATIC HC STD ICV  
Misc :  
ALS Vial : 76 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD ICV

Integration File: autoint1.e  
Quant Time: Sep 24 16:38:47 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:24:48 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

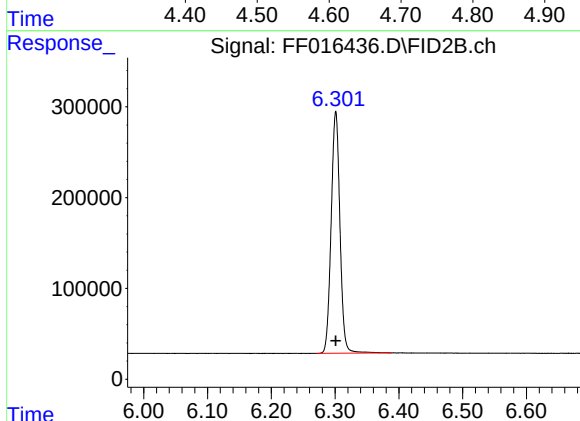




#1 1,2,3-Trimethylbenzene (C10.1)

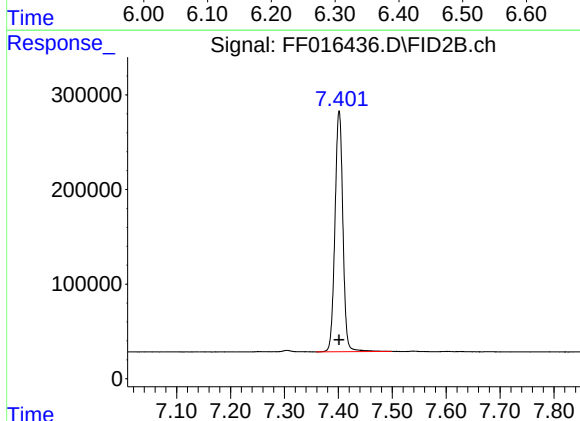
R.T.: 4.624 min  
Delta R.T.: 0.000 min  
Response: 2465539  
Conc: 17.49 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD ICV



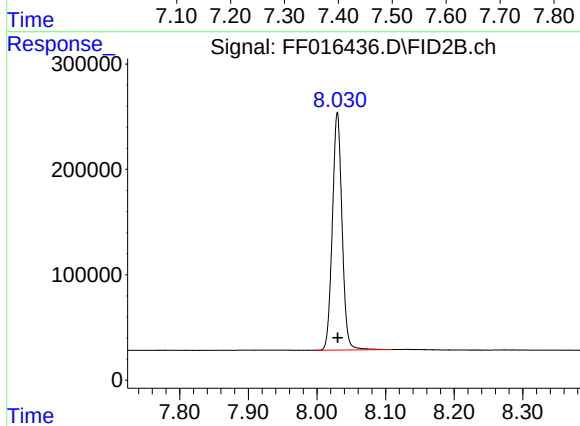
#2 Naphthalene (C11.7)

R.T.: 6.301 min  
Delta R.T.: 0.000 min  
Response: 2552694  
Conc: 17.52 ug/ml



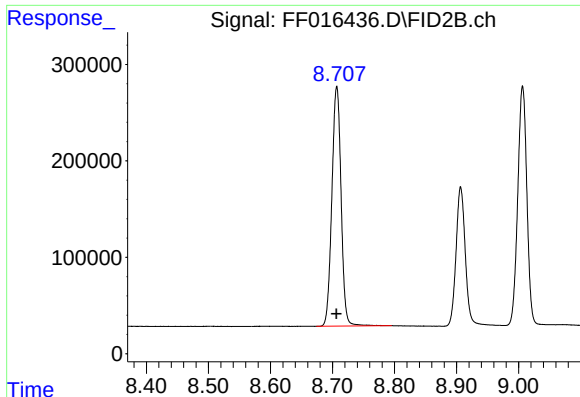
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.402 min  
Delta R.T.: 0.000 min  
Response: 2602818  
Conc: 17.68 ug/ml



#4 2-Bromonaphthalene (SURR)

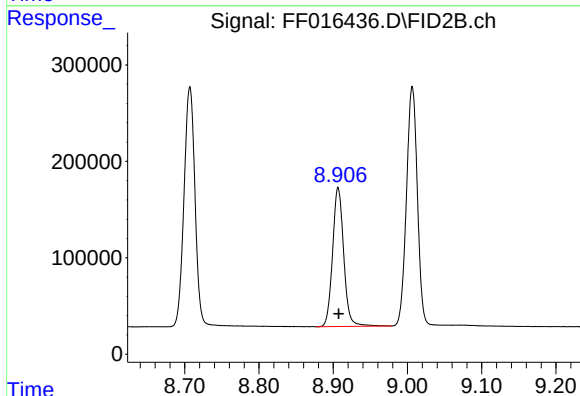
R.T.: 8.030 min  
Delta R.T.: 0.000 min  
Response: 2211521  
Conc: 17.65 ug/ml



#5 Acenaphthylene (C15.06)

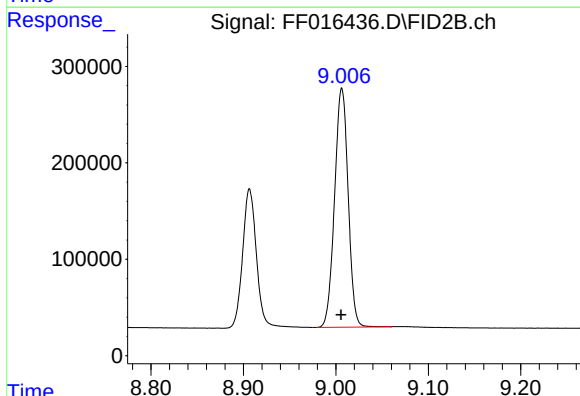
R.T.: 8.707 min  
Delta R.T.: 0.000 min  
Response: 2564508  
Conc: 17.70 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD ICV



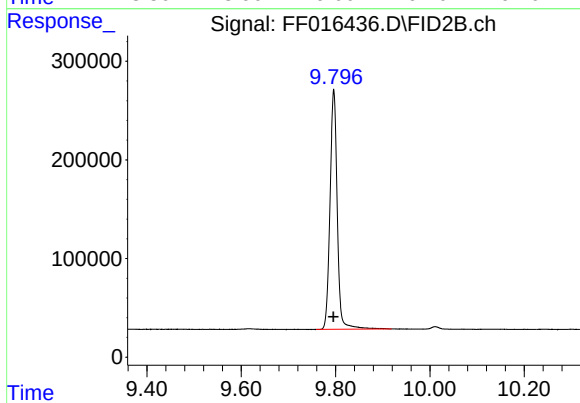
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.907 min  
Delta R.T.: 0.000 min  
Response: 1500863  
Conc: 17.80 ug/ml



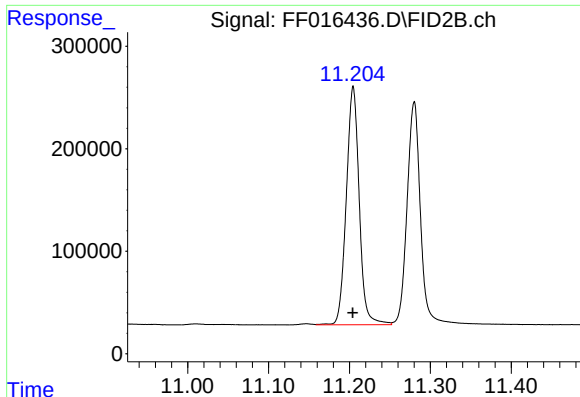
#7 Acenaphthene (C15.5)

R.T.: 9.007 min  
Delta R.T.: 0.000 min  
Response: 2527766  
Conc: 17.63 ug/ml



#8 Fluorene (C16.55)

R.T.: 9.796 min  
Delta R.T.: 0.000 min  
Response: 2582519  
Conc: 17.88 ug/ml



#9 Phenanthrene (C19.36)

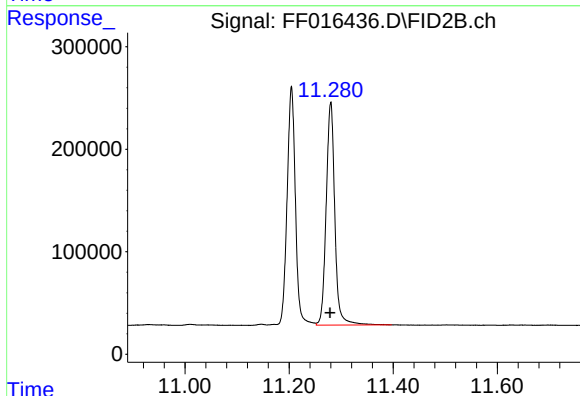
R.T.: 11.205 min  
Delta R.T.: 0.000 min  
Response: 2584516  
Conc: 17.72 ug/ml

Instrument :

FID\_F

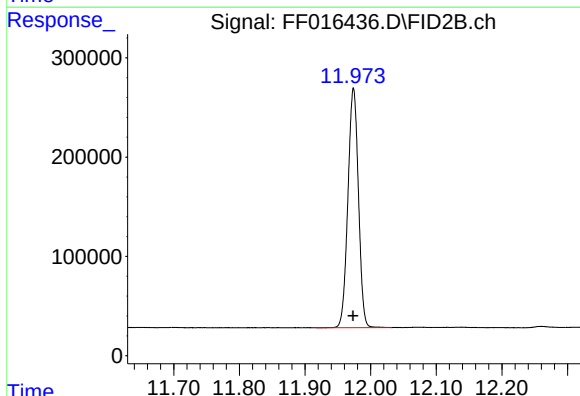
ClientSampleId :

20 PPM AROMATIC HC STD ICV



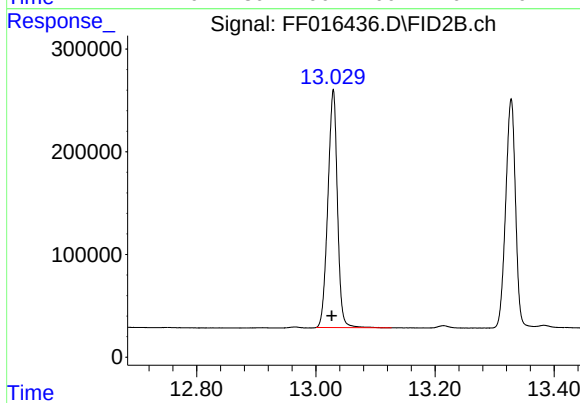
#10 Anthracene (C19.43)

R.T.: 11.280 min  
Delta R.T.: 0.001 min  
Response: 2510342  
Conc: 17.55 ug/ml



#11 ortho-Terphenyl (SURR)

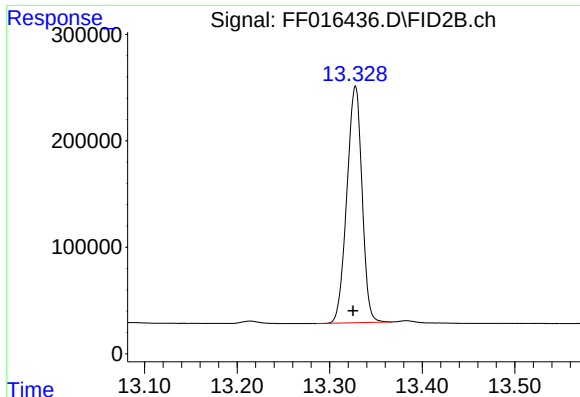
R.T.: 11.974 min  
Delta R.T.: 0.000 min  
Response: 2682324  
Conc: 17.59 ug/ml



#12 Fluoranthene (C21.85)

R.T.: 13.029 min  
Delta R.T.: 0.003 min  
Response: 2578506  
Conc: 17.66 ug/ml





#13 Pyrene (C20.8)

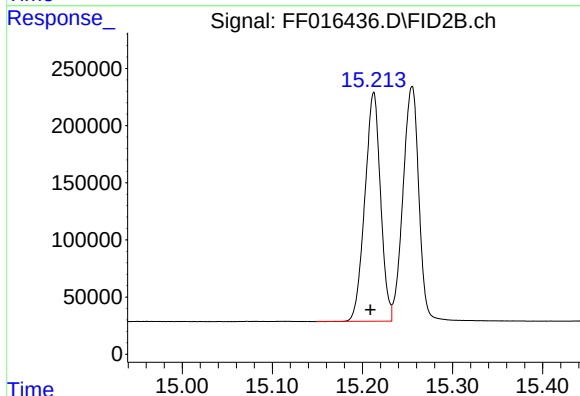
R.T.: 13.328 min  
Delta R.T.: 0.002 min  
Response: 2529762  
Conc: 17.65 ug/ml

Instrument :

FID\_F

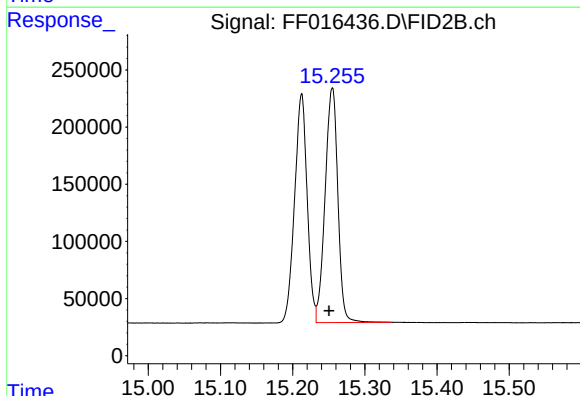
ClientSampleId :

20 PPM AROMATIC HC STD ICV



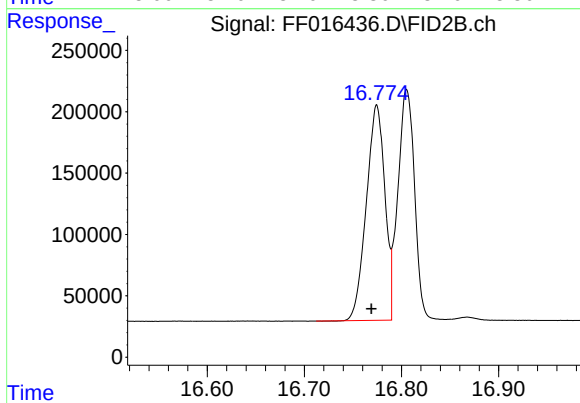
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min  
Delta R.T.: 0.003 min  
Response: 2418959  
Conc: 17.77 ug/ml



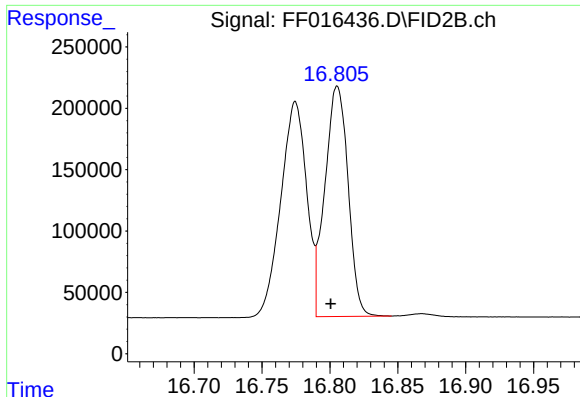
#15 Chrysene (C27.41)

R.T.: 15.255 min  
Delta R.T.: 0.004 min  
Response: 2515757  
Conc: 17.64 ug/ml



#16 benzo[b]fluoranthene (C30.41)

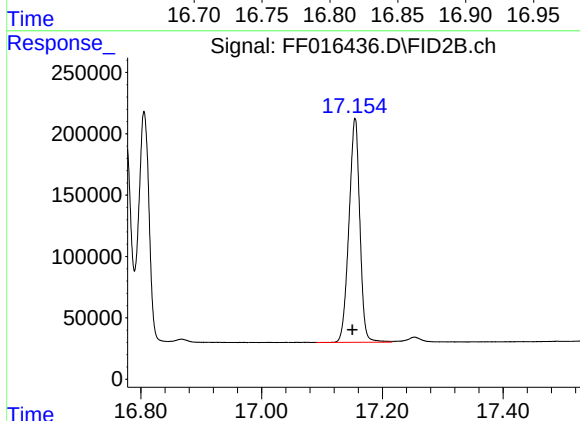
R.T.: 16.775 min  
Delta R.T.: 0.005 min  
Response: 2326602  
Conc: 17.71 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

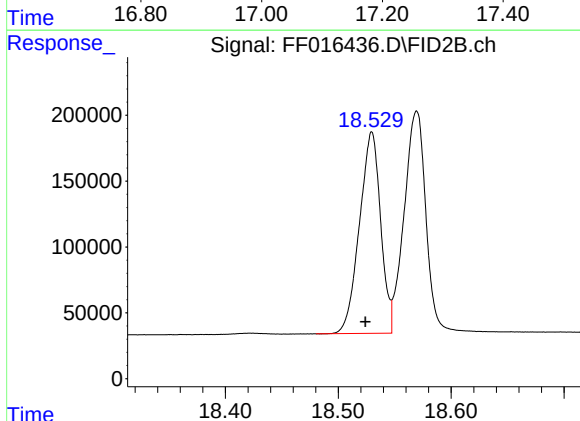
R.T.: 16.806 min  
Delta R.T.: 0.005 min  
Response: 2231035  
Conc: 17.72 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD ICV



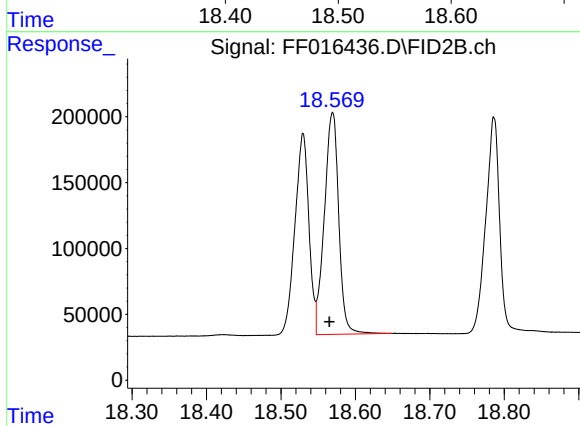
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.155 min  
Delta R.T.: 0.005 min  
Response: 2275638  
Conc: 17.82 ug/ml



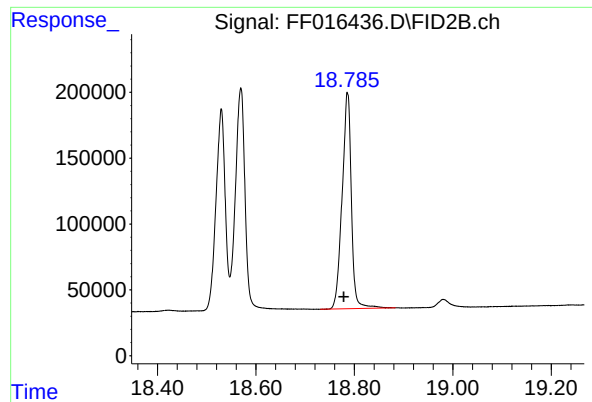
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.530 min  
Delta R.T.: 0.005 min  
Response: 1991060  
Conc: 17.46 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.569 min  
Delta R.T.: 0.004 min  
Response: 2262342  
Conc: 17.33 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.786 min  
Delta R.T.: 0.008 min  
Response: 2143636  
Conc: 17.41 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD ICV

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092425AR\  
Data File : FF016436.D  
Signal(s) : FID2B.ch  
Acq On : 24 Sep 2025 16:28  
Sample : 20 PPM AROMATIC HC STD ICV  
Misc :  
ALS Vial : 76 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.624       | 4.582        | 4.687      | BB       | 256263         | 2465539      | 91.92%         | 4.925%        |
| 2                       | 6.301       | 6.270        | 6.389      | BB       | 265760         | 2552694      | 95.17%         | 5.099%        |
| 3                       | 7.402       | 7.359        | 7.499      | BB       | 255119         | 2602818      | 97.04%         | 5.200%        |
| 4                       | 8.030       | 7.999        | 8.109      | BB       | 226107         | 2211521      | 82.45%         | 4.418%        |
| 5                       | 8.707       | 8.674        | 8.795      | BB       | 248902         | 2564508      | 95.61%         | 5.123%        |
| 6                       | 8.907       | 8.877        | 8.979      | BV       | 143827         | 1500863      | 55.95%         | 2.998%        |
| 7                       | 9.007       | 8.979        | 9.060      | PB       | 247900         | 2527766      | 94.24%         | 5.050%        |
| 8                       | 9.796       | 9.759        | 9.919      | BB       | 242350         | 2582519      | 96.28%         | 5.159%        |
| 9                       | 11.205      | 11.159       | 11.252     | VV       | 232731         | 2584516      | 96.35%         | 5.163%        |
| 10                      | 11.280      | 11.252       | 11.397     | VB       | 218381         | 2510342      | 93.59%         | 5.015%        |
| 11                      | 11.974      | 11.917       | 12.032     | BB       | 241602         | 2682324      | 100.00%        | 5.358%        |
| 12                      | 13.029      | 13.000       | 13.127     | BB       | 231659         | 2578506      | 96.13%         | 5.151%        |
| 13                      | 13.328      | 13.285       | 13.367     | BV       | 222080         | 2529762      | 94.31%         | 5.054%        |
| 14                      | 15.212      | 15.149       | 15.233     | BV       | 200219         | 2418959      | 90.18%         | 4.832%        |
| 15                      | 15.255      | 15.233       | 15.337     | VB       | 206058         | 2515757      | 93.79%         | 5.026%        |
| 16                      | 16.775      | 16.712       | 16.790     | BV       | 175645         | 2326602      | 86.74%         | 4.648%        |
| 17                      | 16.806      | 16.790       | 16.845     | VV       | 187634         | 2231035      | 83.18%         | 4.457%        |
| 18                      | 17.155      | 17.090       | 17.215     | BV       | 183061         | 2275638      | 84.84%         | 4.546%        |
| 19                      | 18.530      | 18.480       | 18.547     | BV       | 153075         | 1991060      | 74.23%         | 3.977%        |
| 20                      | 18.569      | 18.547       | 18.649     | VB       | 168371         | 2262342      | 84.34%         | 4.519%        |
| 21                      | 18.786      | 18.730       | 18.884     | BB       | 164788         | 2143636      | 79.92%         | 4.282%        |
| Sum of corrected areas: |             |              |            |          |                | 50058705     |                |               |

Aromatic EPH 092425.M Thu Sep 25 00:51:20 2025

Continuing Calibration Report for SequenceID : FE092925AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|-----------|-----------|-------|--------|--------|-----------------|-------|------|
|-----------|-----------|-------|--------|--------|-----------------|-------|------|

File ID : FE056045.D

|                   |              |         |        |        |            |            |        |
|-------------------|--------------|---------|--------|--------|------------|------------|--------|
| Aliphatic C12-C16 | 5652856.000  | 40.000  | 6.947  | 10.396 | 141321.400 | 153376.491 | 7.860  |
| Aliphatic C16-C21 | 9543106.000  | 60.000  | 10.397 | 13.773 | 159051.767 | 165879.737 | 4.116  |
| Aliphatic C21-C28 | 11632420.000 | 80.000  | 13.774 | 17.443 | 145405.250 | 148527.151 | 2.102  |
| Aliphatic C28-C40 | 15735127.000 | 120.000 | 17.444 | 22.449 | 131126.058 | 136251.923 | 3.762  |
| Aliphatic EPH     | 49968663.000 | 360.000 | 3.315  | 22.449 | 138801.842 | 146449.789 | 5.222  |
| Aliphatic C9-C12  | 7405154.000  | 60.000  | 3.315  | 6.946  | 123419.233 | 140027.957 | 11.861 |

|                   |                       |                    |                   |
|-------------------|-----------------------|--------------------|-------------------|
| Lab Sample ID:    | 20 PPM ALIPHATIC HC 9 | Acq On:            | 29 Sep 2025 14:51 |
| Client Sample ID: |                       | Operator:          | YP\AJ             |
| Data file:        | FE056045.D            | Misc:              |                   |
| Instrument:       | FID_E                 | ALS Vial:          | 2                 |
| Dilution Factor:  | 1                     | Sample Multiplier: | 1.00              |

| Compound          | R.T.   |        | Response     | Conc    | Units |
|-------------------|--------|--------|--------------|---------|-------|
| Aliphatic C9-C12  | 3.315  | 6.946  | 7405154.000  | 60.000  | ug/ml |
| Aliphatic C12-C16 | 6.947  | 10.396 | 5652856.000  | 40.000  | ug/ml |
| Aliphatic C16-C21 | 10.397 | 13.773 | 9543106.000  | 60.000  | ug/ml |
| Aliphatic C21-C28 | 13.774 | 17.443 | 11632420.000 | 80.000  | ug/ml |
| Aliphatic C28-C40 | 17.444 | 22.449 | 15735127.000 | 120.000 | ug/ml |
| Aliphatic EPH     | 3.315  | 22.449 | 49968663.000 | 360.000 | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056045.D  
 Signal(s) : FID1B.ch  
 Acq On : 29 Sep 2025 14:51  
 Operator : YP\AJ  
 Sample : 20 PPM ALIPHATIC HC STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 20 PPM ALIPHATIC HC STD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
 Quant Time: Sep 30 00:27:40 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:55:37 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units    |
|--------------------------------|--------|------------|---------------|
| -----                          |        |            |               |
| System Monitoring Compounds    |        |            |               |
| 9) S ortho-Terphenyl (SURR)    | 12.073 | 3631951    | 19.355 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 38.71%        |
| 12) S 1-chlorooctadecane (S... | 13.510 | 2778384    | 19.907 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 39.81%        |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.415  | 2399386    | 17.515 ug/ml  |
| 2) T n-Decane (C10)            | 4.673  | 2449352    | 17.550 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.392  | 2909611    | 18.223 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.847  | 2556416    | 17.811 ug/ml  |
| 5) T A~2-methylnaphthalene...  | 7.492  | 2880483    | 18.522 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.683  | 2694482    | 18.225 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.297 | 2958374    | 18.617 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.746 | 3193721    | 18.855 ug/ml  |
| 10) T n-Eicosane (C20)         | 13.061 | 3201634    | 19.314 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.675 | 3147751    | 19.372 ug/ml  |
| 13) T n-Docosane (C22)         | 14.263 | 3123976    | 19.550 ug/ml  |
| 14) T n-Tetracosane (C24)      | 15.370 | 3016987    | 19.799 ug/ml  |
| 15) T n-Hexacosane (C26)       | 16.394 | 2798837    | 19.623 ug/ml  |
| 16) T n-Octacosane (C28)       | 17.346 | 2692620    | 19.329 ug/ml  |
| 17) T n-Tricontane (C30)       | 18.236 | 2807440    | 18.946 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 19.069 | 2842806    | 19.054 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.855 | 2739796    | 19.369 ug/ml  |
| 20) T n-Hexatriacontane (C36)  | 20.596 | 2560757    | 19.948 ug/ml  |
| 21) T n-Octatriacontane (C38)  | 21.371 | 2346046    | 17.862 ug/mlm |
| 22) T n-Tetracontane (C40)     | 22.357 | 2438282    | 20.495 ug/mlm |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056045.D  
Signal(s) : FID1B.ch  
Acq On : 29 Sep 2025 14:51  
Operator : YP\AJ  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

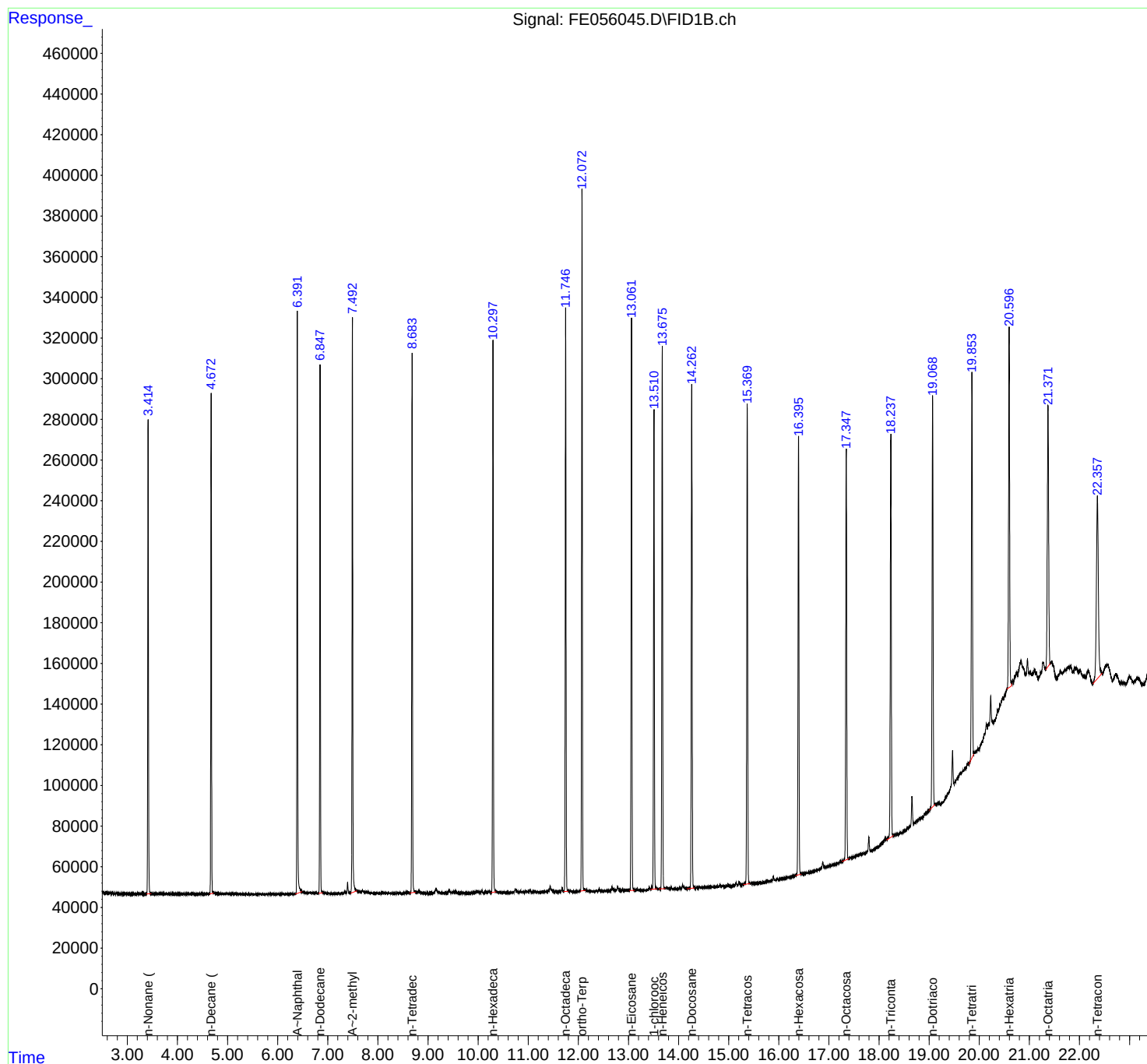
Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

Manual Integrations  
APPROVED

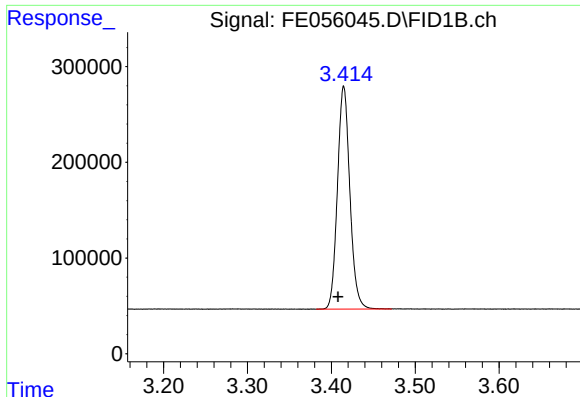
Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
Quant Time: Sep 30 00:27:40 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um







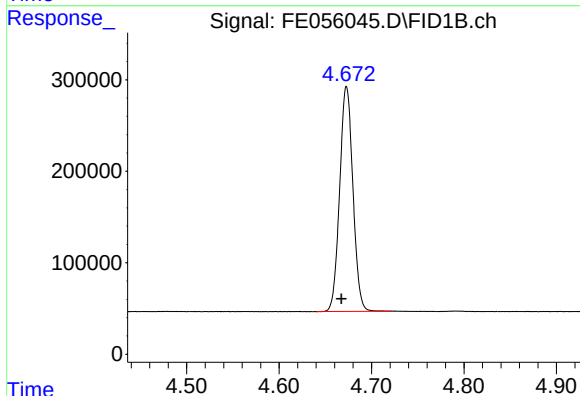
#1 n-Nonane (C9)

R.T.: 3.415 min  
Delta R.T.: 0.007 min  
Response: 2399386  
Conc: 17.51 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

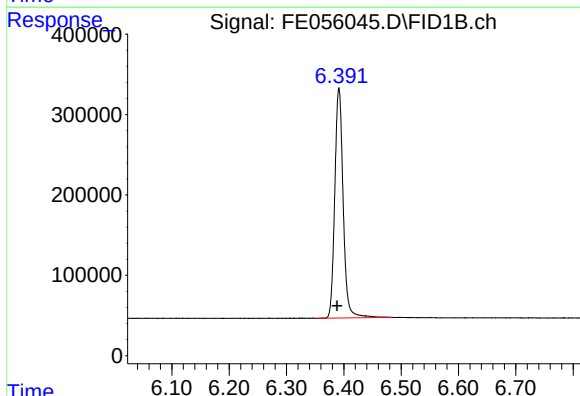
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



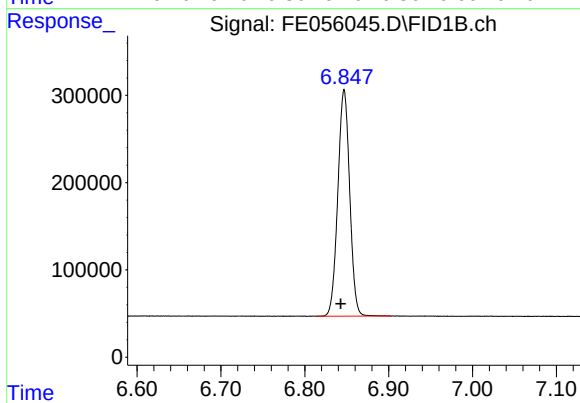
#2 n-Decane (C10)

R.T.: 4.673 min  
Delta R.T.: 0.006 min  
Response: 2449352  
Conc: 17.55 ug/ml



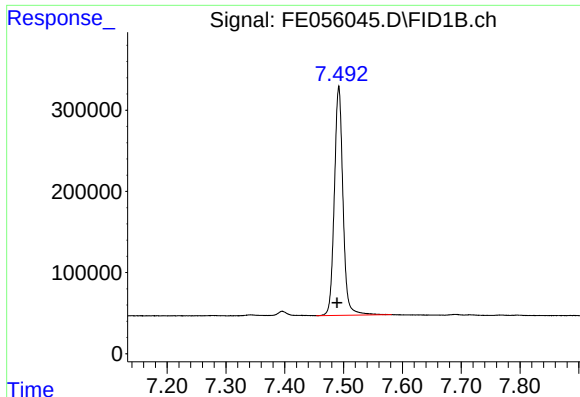
#3 A~Naphthalene (C11.7)

R.T.: 6.392 min  
Delta R.T.: 0.003 min  
Response: 2909611  
Conc: 18.22 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.847 min  
Delta R.T.: 0.004 min  
Response: 2556416  
Conc: 17.81 ug/ml



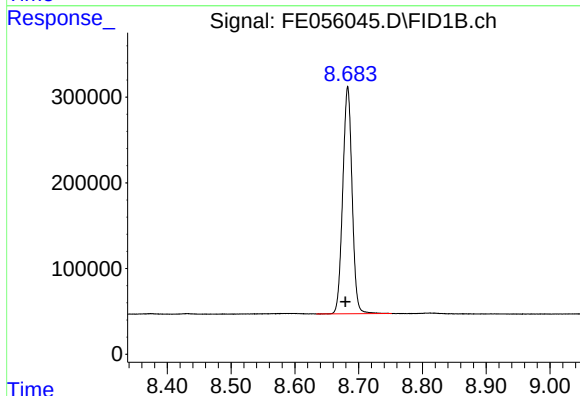
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min  
Delta R.T.: 0.003 min  
Response: 2880483  
Conc: 18.52 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

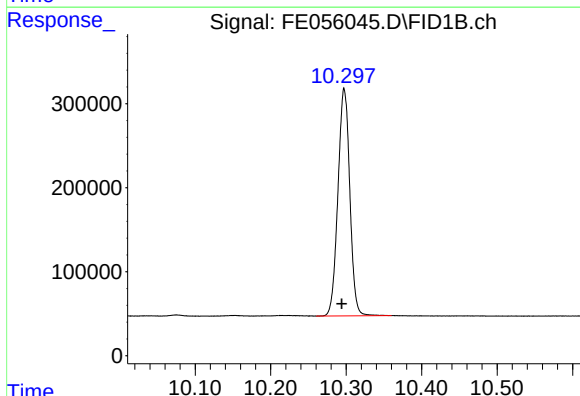
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



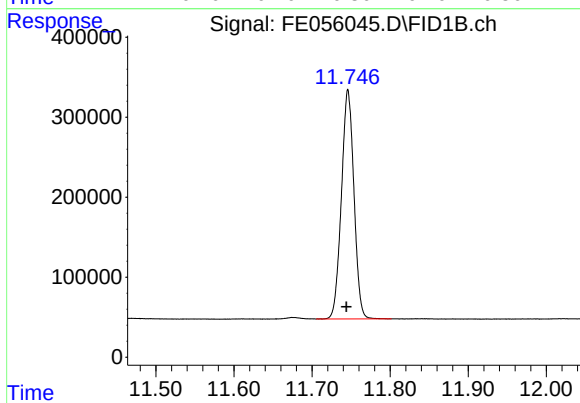
#6 n-Tetradecane (C14)

R.T.: 8.683 min  
Delta R.T.: 0.003 min  
Response: 2694482  
Conc: 18.23 ug/ml



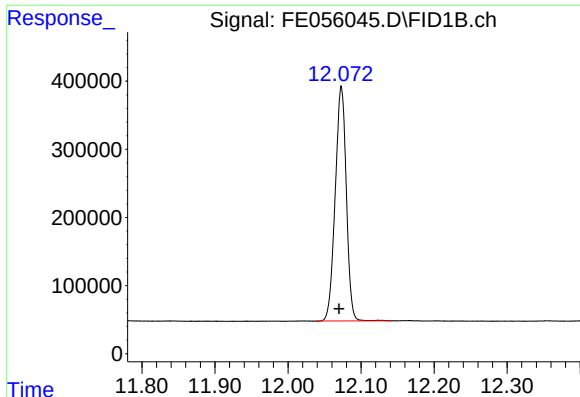
#7 n-Hexadecane (C16)

R.T.: 10.297 min  
Delta R.T.: 0.003 min  
Response: 2958374  
Conc: 18.62 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.746 min  
Delta R.T.: 0.002 min  
Response: 3193721  
Conc: 18.85 ug/ml



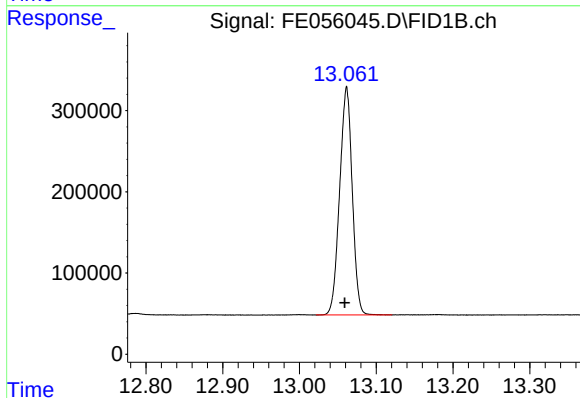
#9 ortho-Terphenyl (SURR)

R.T.: 12.073 min  
Delta R.T.: 0.003 min  
Response: 3631951  
Conc: 19.35 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

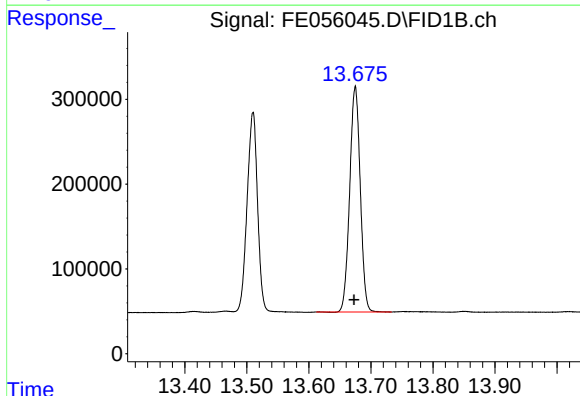
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



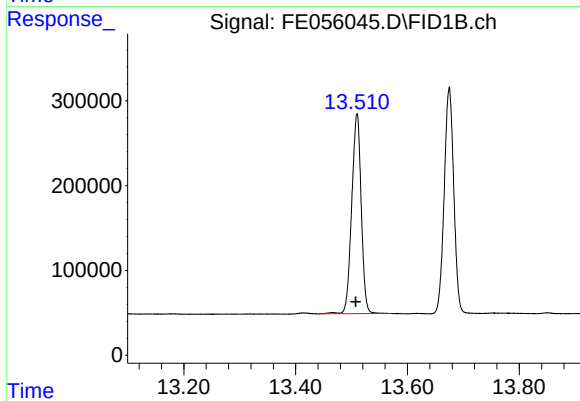
#10 n-Eicosane (C20)

R.T.: 13.061 min  
Delta R.T.: 0.002 min  
Response: 3201634  
Conc: 19.31 ug/ml



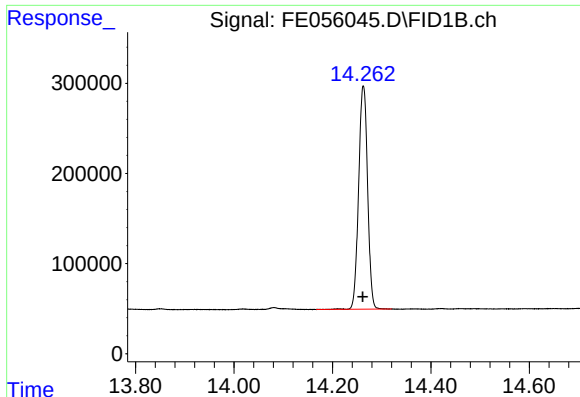
#11 n-Heneicosane (C21)

R.T.: 13.675 min  
Delta R.T.: 0.002 min  
Response: 3147751  
Conc: 19.37 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.510 min  
Delta R.T.: 0.002 min  
Response: 2778384  
Conc: 19.91 ug/ml



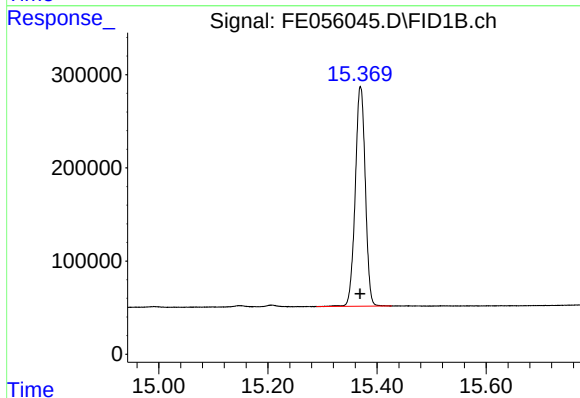
#13 n-Docosane (C22)

R.T.: 14.263 min  
Delta R.T.: 0.001 min  
Response: 3123976  
Conc: 19.55 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

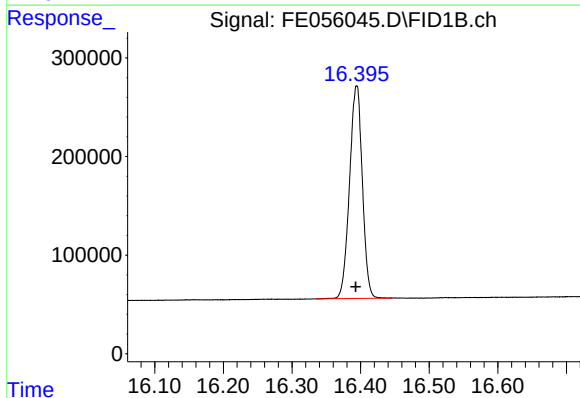
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



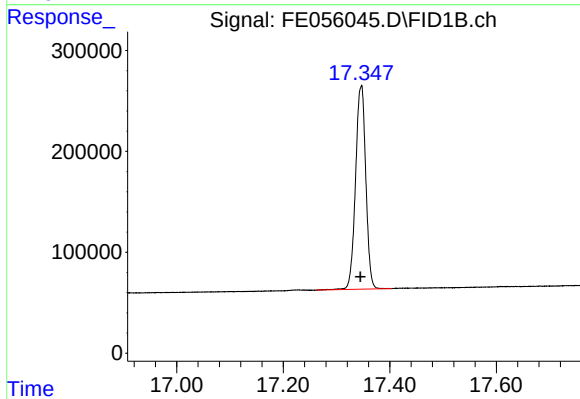
#14 n-Tetracosane (C24)

R.T.: 15.370 min  
Delta R.T.: 0.001 min  
Response: 3016987  
Conc: 19.80 ug/ml



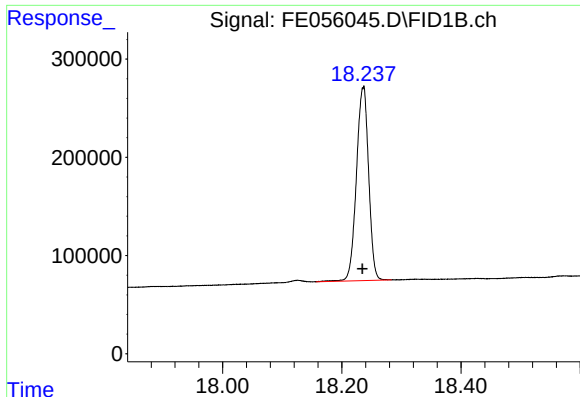
#15 n-Hexacosane (C26)

R.T.: 16.394 min  
Delta R.T.: 0.001 min  
Response: 2798837  
Conc: 19.62 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.346 min  
Delta R.T.: 0.001 min  
Response: 2692620  
Conc: 19.33 ug/ml



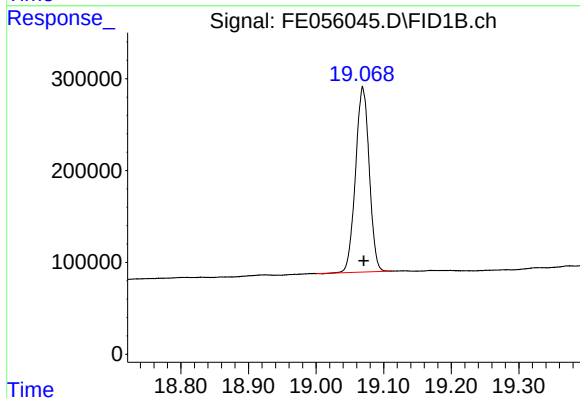
#17 n-Tricontane (C30)

R.T.: 18.236 min  
Delta R.T.: 0.001 min  
Response: 2807440  
Conc: 18.95 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

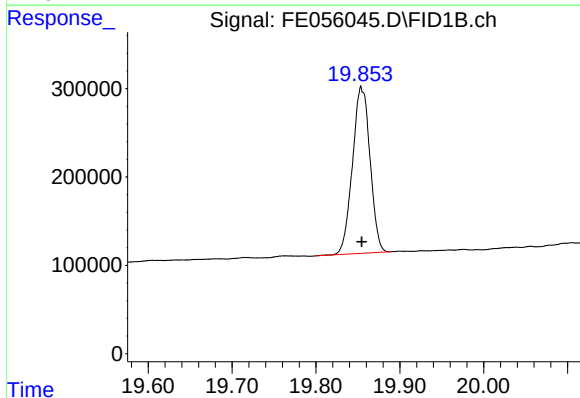
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



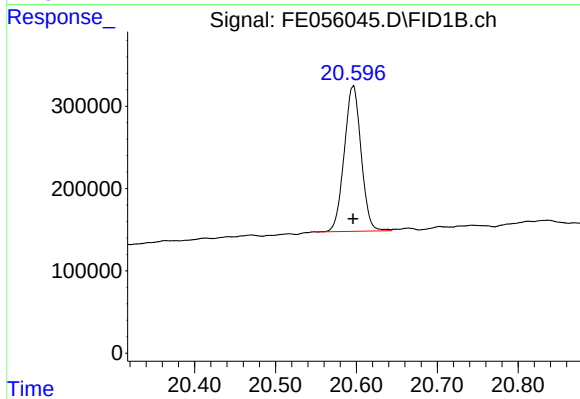
#18 n-Dotriacontane (C32)

R.T.: 19.069 min  
Delta R.T.: -0.001 min  
Response: 2842806  
Conc: 19.05 ug/ml



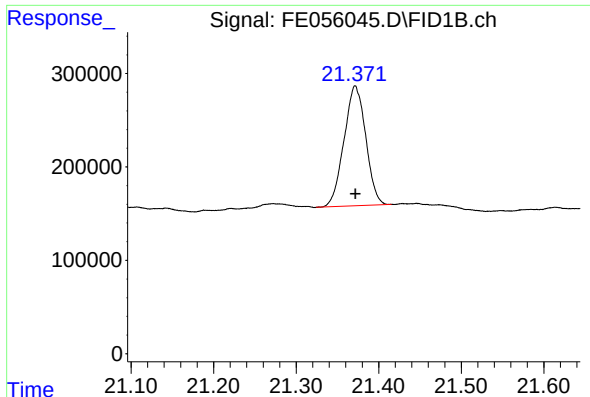
#19 n-Tetratriacontane (C34)

R.T.: 19.855 min  
Delta R.T.: 0.000 min  
Response: 2739796  
Conc: 19.37 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.596 min  
Delta R.T.: 0.000 min  
Response: 2560757  
Conc: 19.95 ug/ml



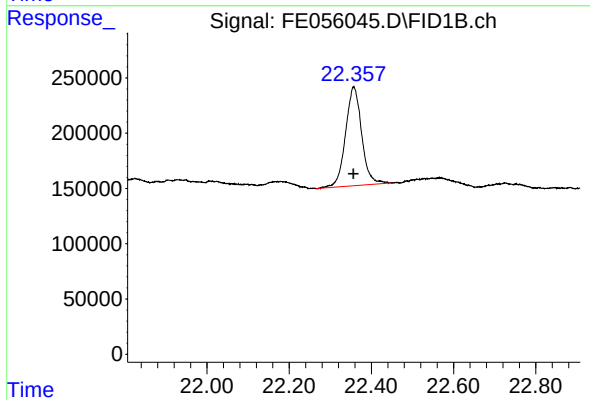
#21 n-Octatriacontane (C38)

R.T.: 21.371 min  
Delta R.T.: 0.000 min  
Response: 2346046  
Conc: 17.86 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.357 min  
Delta R.T.: 0.000 min  
Response: 2438282  
Conc: 20.50 ug/ml m

rteres.txt

Instrument :  
FID\_E  
LabSampleId :  
20 PPM ALIPHATIC HC STD  
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE09292  
Data File : FE056045.D  
Signal(s) : FID1B.ch  
Acq On : 29 Sep 2025 14:51  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.415       | 3.382        | 3.472      | BB       | 232989         | 2399386      | 66.06%         | 3.861%        |
| 2                       | 4.673       | 4.640        | 4.722      | BB       | 245614         | 2449352      | 67.44%         | 3.942%        |
| 3                       | 6.392       | 6.352        | 6.483      | BB       | 286179         | 2909611      | 80.11%         | 4.682%        |
| 4                       | 6.847       | 6.813        | 6.903      | BB       | 259489         | 2556416      | 70.39%         | 4.114%        |
| 5                       | 7.492       | 7.453        | 7.582      | BB       | 281820         | 2880483      | 79.31%         | 4.636%        |
| 6                       | 8.683       | 8.633        | 8.752      | BB       | 265761         | 2694482      | 74.19%         | 4.336%        |
| 7                       | 10.298      | 10.260       | 10.360     | BB       | 271026         | 2958374      | 81.45%         | 4.761%        |
| 8                       | 11.746      | 11.705       | 11.802     | BB       | 285292         | 3193721      | 87.93%         | 5.140%        |
| 9                       | 12.073      | 12.038       | 12.142     | BB       | 344070         | 3631951      | 100.00%        | 5.845%        |
| 10                      | 13.061      | 13.022       | 13.120     | BB       | 281569         | 3201634      | 88.15%         | 5.152%        |
| 11                      | 13.510      | 13.437       | 13.572     | BB       | 236383         | 2778384      | 76.50%         | 4.471%        |
| 12                      | 13.675      | 13.612       | 13.733     | BB       | 266828         | 3147751      | 86.67%         | 5.066%        |
| 13                      | 14.263      | 14.167       | 14.320     | BB       | 247600         | 3123976      | 86.01%         | 5.027%        |
| 14                      | 15.370      | 15.288       | 15.427     | BB       | 235326         | 3016987      | 83.07%         | 4.855%        |
| 15                      | 16.394      | 16.335       | 16.445     | BB       | 216242         | 2798837      | 77.06%         | 4.504%        |
| 16                      | 17.346      | 17.262       | 17.403     | BB       | 202081         | 2692620      | 74.14%         | 4.333%        |
| 17                      | 18.236      | 18.157       | 18.283     | BB       | 196977         | 2807440      | 77.30%         | 4.518%        |
| 18                      | 19.069      | 19.000       | 19.112     | BB       | 201707         | 2842806      | 78.27%         | 4.575%        |
| 19                      | 19.855      | 19.800       | 19.890     | BB       | 183443         | 2739796      | 75.44%         | 4.409%        |
| 20                      | 20.596      | 20.550       | 20.643     | BV       | 176140         | 2560757      | 70.51%         | 4.121%        |
| 21                      | 21.372      | 21.300       | 21.418     | BV       | 127836         | 2307476      | 63.53%         | 3.713%        |
| 22                      | 22.357      | 22.250       | 22.470     | BV       | 89829          | 2446402      | 67.36%         | 3.937%        |
| Sum of corrected areas: |             |              |            |          |                | 62138639     |                |               |

Aliphatic EPH 092425.M Tue Sep 30 05:46:10 2025

Continuing Calibration Report for SequenceID : FE092925AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|-----------|-----------|-------|--------|--------|-----------------|-------|------|
|-----------|-----------|-------|--------|--------|-----------------|-------|------|

File ID : FE056059.D

|                   |              |         |        |        |            |            |        |
|-------------------|--------------|---------|--------|--------|------------|------------|--------|
| Aliphatic C12-C16 | 6419588.000  | 40.000  | 6.947  | 10.396 | 160489.700 | 153376.491 | -4.638 |
| Aliphatic C16-C21 | 10175583.000 | 60.000  | 10.397 | 13.773 | 169593.050 | 165879.737 | -2.239 |
| Aliphatic C21-C28 | 11474864.000 | 80.000  | 13.774 | 17.443 | 143435.800 | 148527.151 | 3.428  |
| Aliphatic C28-C40 | 16792154.000 | 120.000 | 17.444 | 22.449 | 139934.617 | 136251.923 | -2.703 |
| Aliphatic EPH     | 53005288.000 | 360.000 | 3.315  | 22.449 | 147236.911 | 146449.789 | -0.537 |
| Aliphatic C9-C12  | 8143099.000  | 60.000  | 3.315  | 6.946  | 135718.317 | 140027.957 | 3.078  |



|                   |                       |                    |                   |
|-------------------|-----------------------|--------------------|-------------------|
| Lab Sample ID:    | 20 PPM ALIPHATIC HC 9 | Acq On:            | 29 Sep 2025 22:59 |
| Client Sample ID: |                       | Operator:          | YPAJ              |
| Data file:        | FE056059.D            | Misc:              |                   |
| Instrument:       | FID_E                 | ALS Vial:          | 2                 |
| Dilution Factor:  | 1                     | Sample Multiplier: | 1.00              |

| Compound          | R.T.   |        | Response     | Conc    | Units |
|-------------------|--------|--------|--------------|---------|-------|
| Aliphatic C9-C12  | 3.315  | 6.946  | 8143099.000  | 60.000  | ug/ml |
| Aliphatic C12-C16 | 6.947  | 10.396 | 6419588.000  | 40.000  | ug/ml |
| Aliphatic C16-C21 | 10.397 | 13.773 | 10175583.000 | 60.000  | ug/ml |
| Aliphatic C21-C28 | 13.774 | 17.443 | 11474864.000 | 80.000  | ug/ml |
| Aliphatic C28-C40 | 17.444 | 22.449 | 16792154.000 | 120.000 | ug/ml |
| Aliphatic EPH     | 3.315  | 22.449 | 53005288.000 | 360.000 | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056059.D  
 Signal(s) : FID1B.ch  
 Acq On : 29 Sep 2025 22:59  
 Operator : YP\AJ  
 Sample : 20 PPM ALIPHATIC HC STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 20 PPM ALIPHATIC HC STD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
 Quant Time: Sep 30 00:51:20 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:55:37 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units    |
|--------------------------------|--------|------------|---------------|
| -----                          |        |            |               |
| System Monitoring Compounds    |        |            |               |
| 9) S ortho-Terphenyl (SURR)    | 12.072 | 3783189    | 20.161 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 40.32%        |
| 12) S 1-chlorooctadecane (S... | 13.509 | 2828662    | 20.268 ug/mlm |
| Spiked Amount 50.000           |        | Recovery = | 40.54%        |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.415  | 2572800    | 18.781 ug/ml  |
| 2) T n-Decane (C10)            | 4.673  | 2683708    | 19.229 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.391  | 3231311    | 20.238 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.846  | 2886591    | 20.112 ug/ml  |
| 5) T A~2-methylnaphthalene...  | 7.492  | 3198207    | 20.565 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.682  | 3075507    | 20.802 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.297 | 3344081    | 21.044 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.746 | 3534237    | 20.865 ug/ml  |
| 10) T n-Eicosane (C20)         | 13.060 | 3383796    | 20.413 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.675 | 3257550    | 20.048 ug/ml  |
| 13) T n-Docosane (C22)         | 14.263 | 3155438    | 19.747 ug/ml  |
| 14) T n-Tetracosane (C24)      | 15.368 | 2939083    | 19.288 ug/ml  |
| 15) T n-Hexacosane (C26)       | 16.392 | 2709056    | 18.993 ug/ml  |
| 16) T n-Octacosane (C28)       | 17.345 | 2671287    | 19.176 ug/ml  |
| 17) T n-Tricontane (C30)       | 18.234 | 2878627    | 19.426 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 19.068 | 3057418    | 20.492 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.853 | 2881015    | 20.368 ug/ml  |
| 20) T n-Hexatriacontane (C36)  | 20.595 | 2702037    | 21.049 ug/ml  |
| 21) T n-Octatriacontane (C38)  | 21.370 | 2698266    | 20.544 ug/ml  |
| 22) T n-Tetracontane (C40)     | 22.353 | 2574791    | 21.643 ug/ml  |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056059.D  
Signal(s) : FID1B.ch  
Acq On : 29 Sep 2025 22:59  
Operator : YP\AJ  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

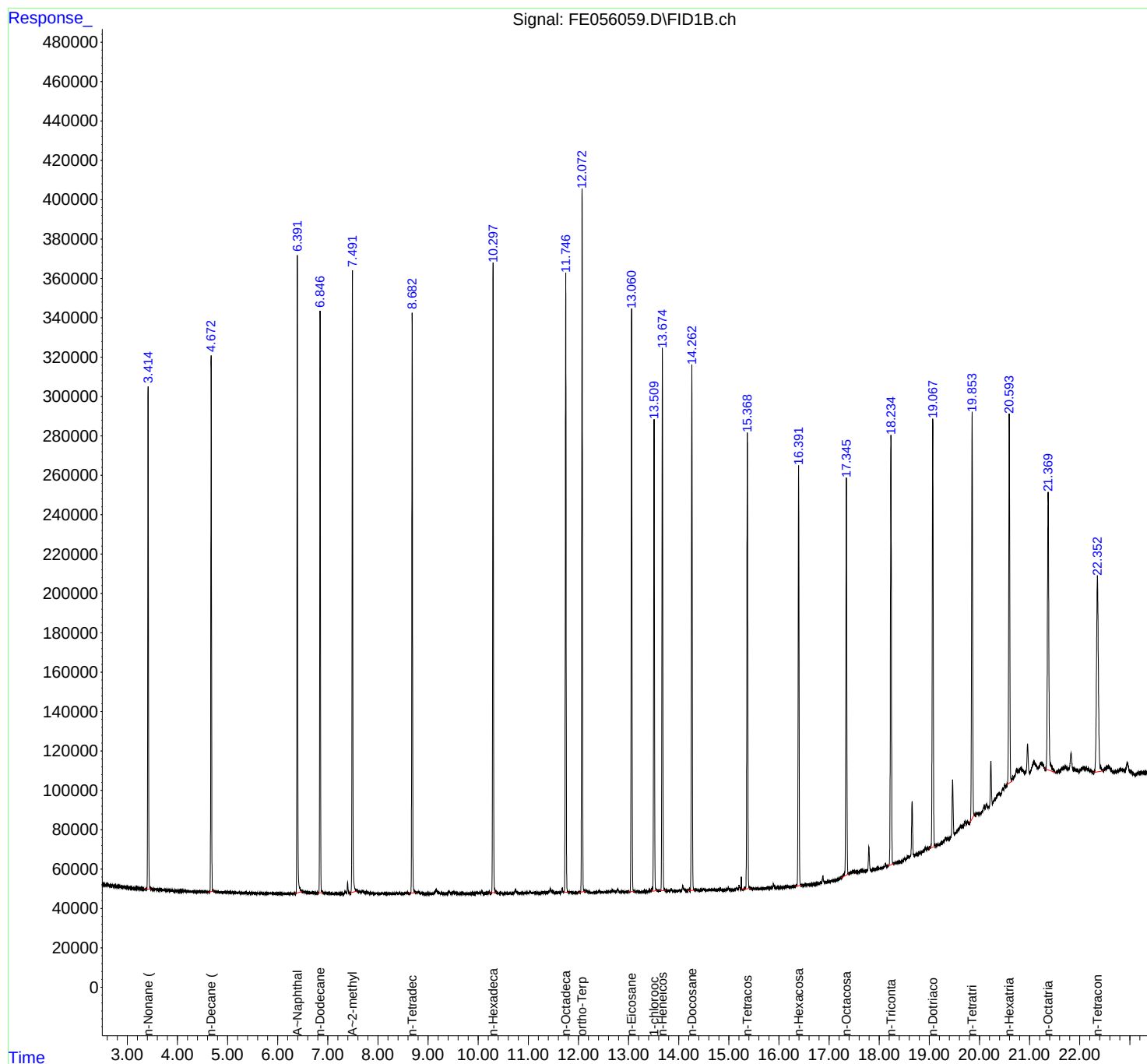
Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

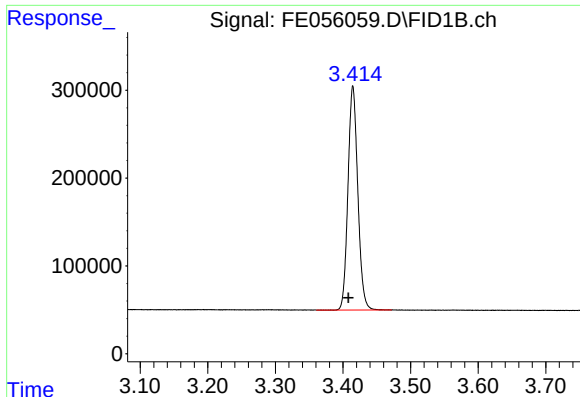
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
Quant Time: Sep 30 00:51:20 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um





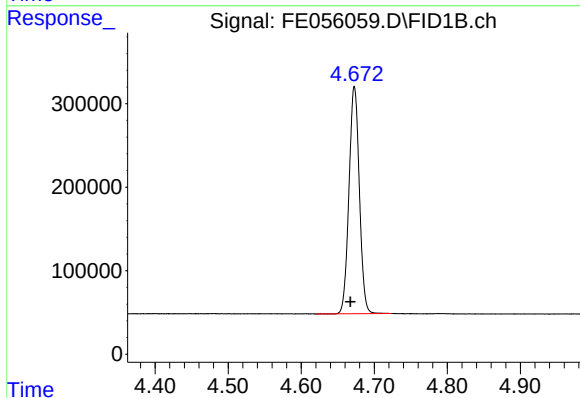
#1 n-Nonane (C9)

R.T.: 3.415 min  
Delta R.T.: 0.007 min  
Response: 2572800  
Conc: 18.78 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

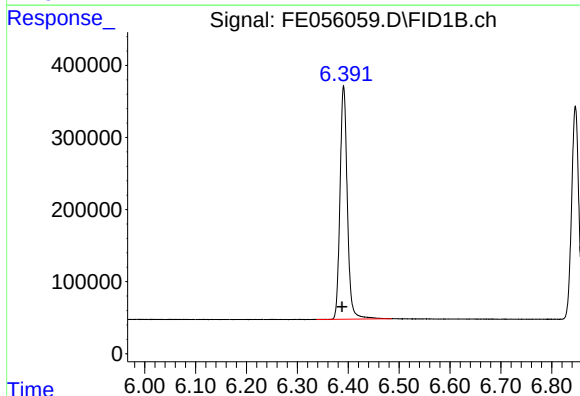
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



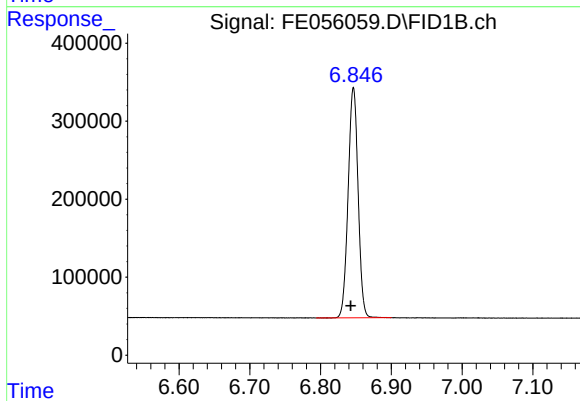
#2 n-Decane (C10)

R.T.: 4.673 min  
Delta R.T.: 0.005 min  
Response: 2683708  
Conc: 19.23 ug/ml



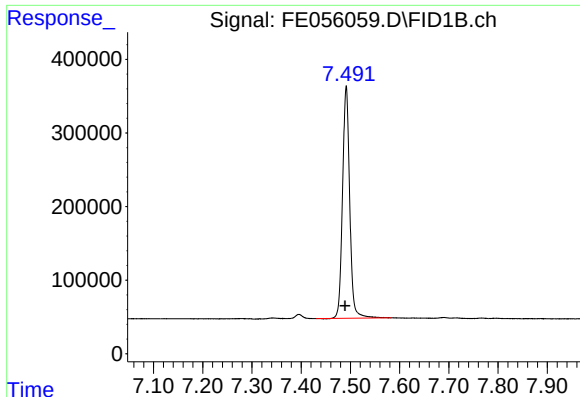
#3 A~Naphthalene (C11.7)

R.T.: 6.391 min  
Delta R.T.: 0.003 min  
Response: 3231311  
Conc: 20.24 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.846 min  
Delta R.T.: 0.004 min  
Response: 2886591  
Conc: 20.11 ug/ml



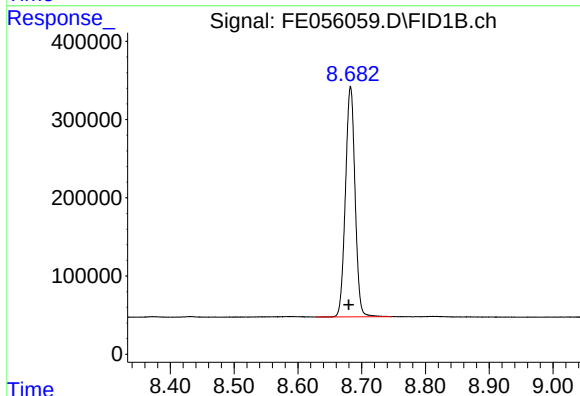
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min  
Delta R.T.: 0.003 min  
Response: 3198207  
Conc: 20.56 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

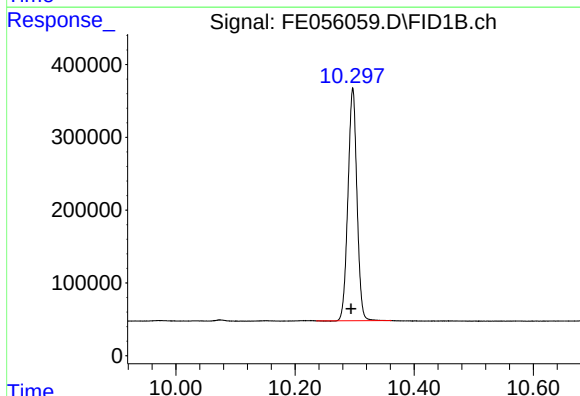
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



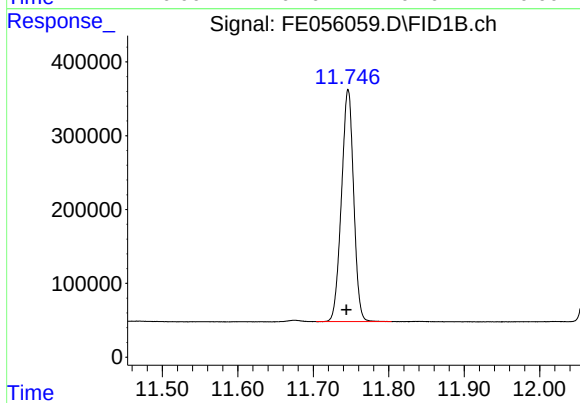
#6 n-Tetradecane (C14)

R.T.: 8.682 min  
Delta R.T.: 0.003 min  
Response: 3075507  
Conc: 20.80 ug/ml



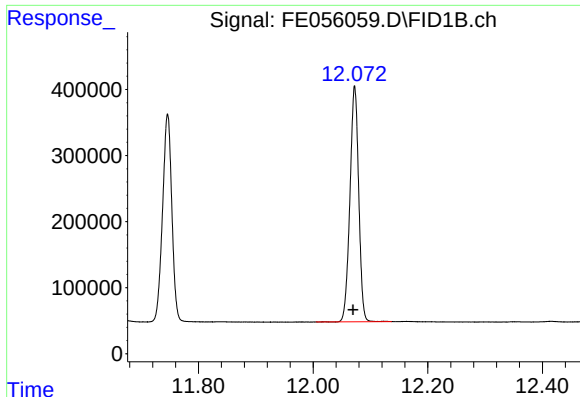
#7 n-Hexadecane (C16)

R.T.: 10.297 min  
Delta R.T.: 0.003 min  
Response: 3344081  
Conc: 21.04 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.746 min  
Delta R.T.: 0.002 min  
Response: 3534237  
Conc: 20.87 ug/ml



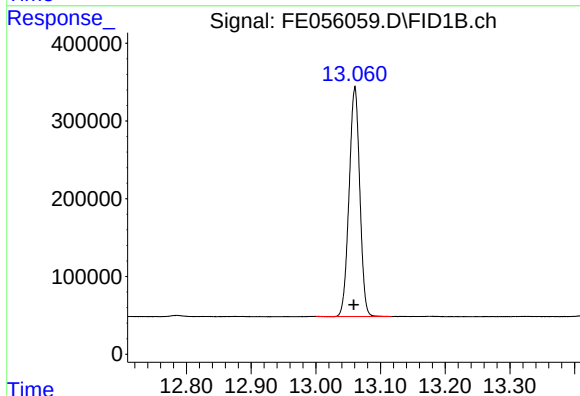
#9 ortho-Terphenyl (SURR)

R.T.: 12.072 min  
Delta R.T.: 0.003 min  
Response: 3783189  
Conc: 20.16 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

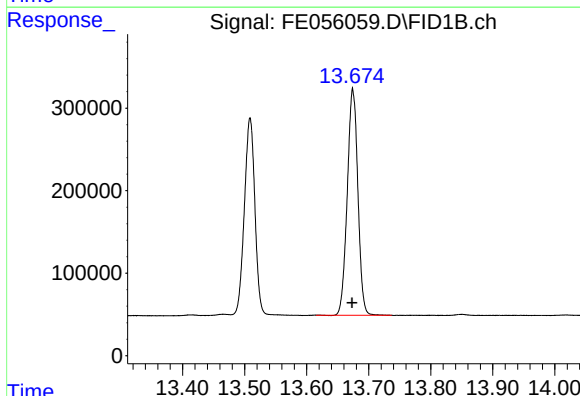
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



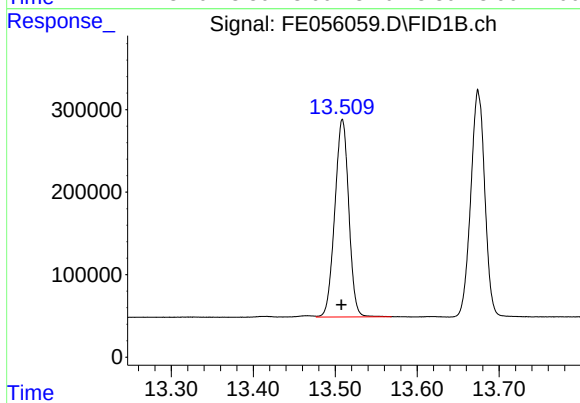
#10 n-Eicosane (C20)

R.T.: 13.060 min  
Delta R.T.: 0.001 min  
Response: 3383796  
Conc: 20.41 ug/ml



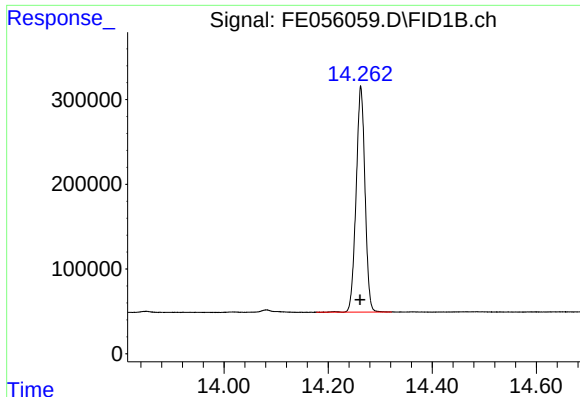
#11 n-Heneicosane (C21)

R.T.: 13.675 min  
Delta R.T.: 0.001 min  
Response: 3257550  
Conc: 20.05 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.509 min  
Delta R.T.: 0.001 min  
Response: 2828662  
Conc: 20.27 ug/ml m



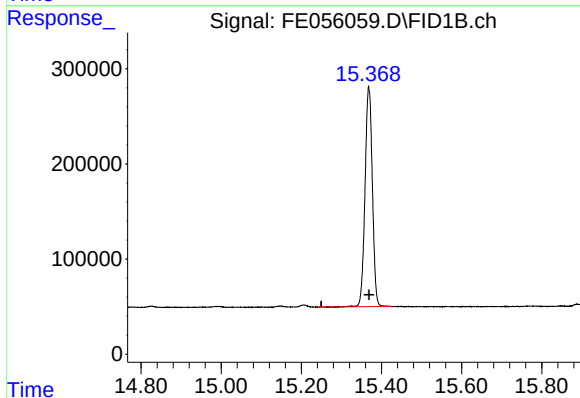
#13 n-Docosane (C22)

R.T.: 14.263 min  
Delta R.T.: 0.001 min  
Response: 3155438  
Conc: 19.75 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

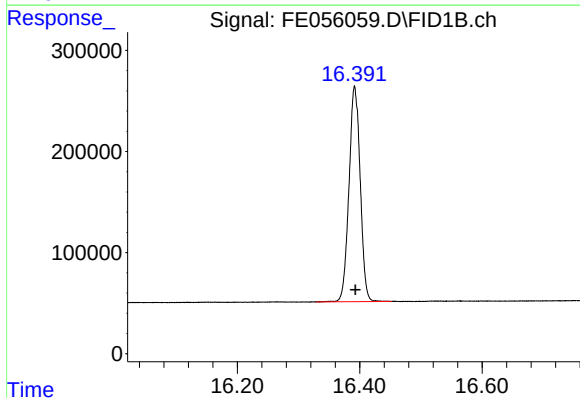
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



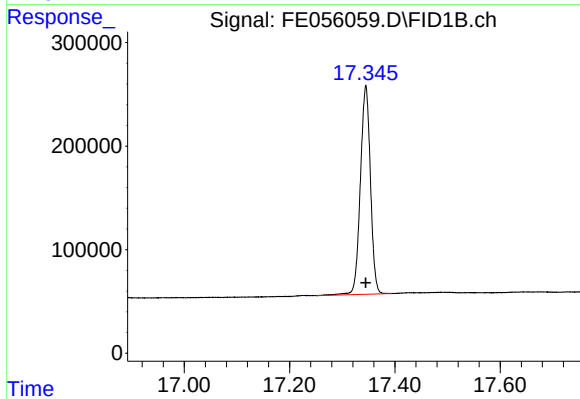
#14 n-Tetracosane (C24)

R.T.: 15.368 min  
Delta R.T.: 0.000 min  
Response: 2939083  
Conc: 19.29 ug/ml



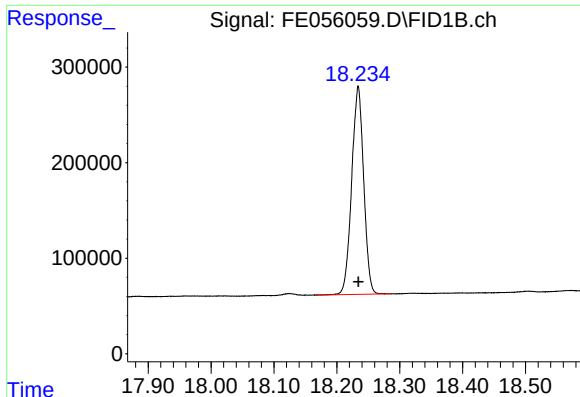
#15 n-Hexacosane (C26)

R.T.: 16.392 min  
Delta R.T.: 0.000 min  
Response: 2709056  
Conc: 18.99 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.345 min  
Delta R.T.: 0.000 min  
Response: 2671287  
Conc: 19.18 ug/ml



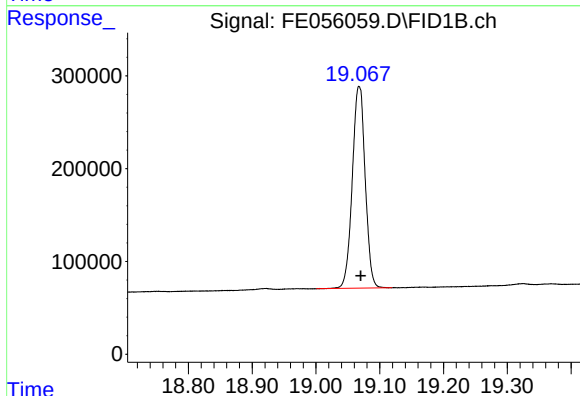
#17 n-Tricontane (C30)

R.T.: 18.234 min  
Delta R.T.: 0.000 min  
Response: 2878627  
Conc: 19.43 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

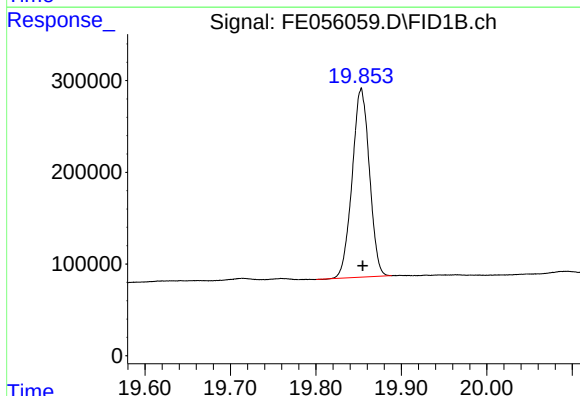
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



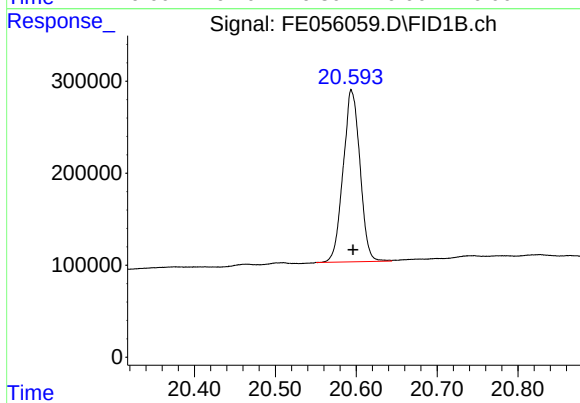
#18 n-Dotriacontane (C32)

R.T.: 19.068 min  
Delta R.T.: -0.003 min  
Response: 3057418  
Conc: 20.49 ug/ml



#19 n-Tetratriacontane (C34)

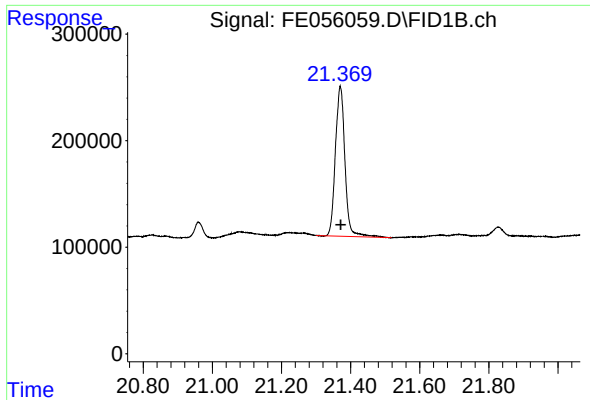
R.T.: 19.853 min  
Delta R.T.: -0.002 min  
Response: 2881015  
Conc: 20.37 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.595 min  
Delta R.T.: -0.001 min  
Response: 2702037  
Conc: 21.05 ug/ml





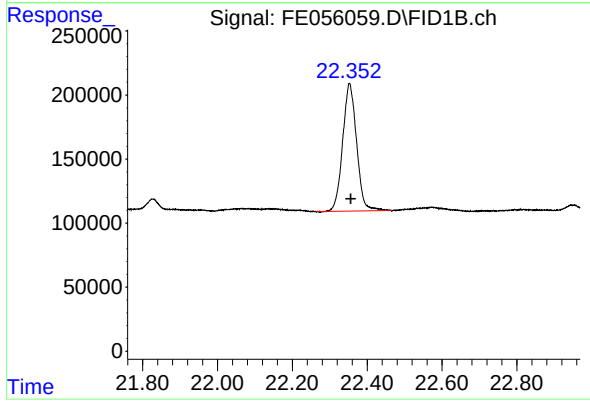
#21 n-Octatriacontane (C38)

R.T.: 21.370 min  
Delta R.T.: -0.001 min  
Response: 2698266  
Conc: 20.54 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.353 min  
Delta R.T.: -0.004 min  
Response: 2574791  
Conc: 21.64 ug/ml

rteres.txt

Instrument :  
FID\_E  
LabSampleId :  
20 PPM ALIPHATIC HC STD  
Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE09292  
Data File : FE056059.D  
Signal(s) : FID1B.ch  
Acq On : 29 Sep 2025 22:59  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.415       | 3.360        | 3.472      | BB       | 254651         | 2572800      | 68.01%         | 3.893%        |
| 2                       | 4.673       | 4.620        | 4.724      | BB       | 271462         | 2683708      | 70.94%         | 4.061%        |
| 3                       | 6.391       | 6.337        | 6.485      | BB       | 322979         | 3231311      | 85.41%         | 4.890%        |
| 4                       | 6.846       | 6.794        | 6.900      | BB       | 295881         | 2886591      | 76.30%         | 4.368%        |
| 5                       | 7.492       | 7.430        | 7.584      | BB       | 316363         | 3198207      | 84.54%         | 4.840%        |
| 6                       | 8.683       | 8.629        | 8.747      | BB       | 294465         | 3075507      | 81.29%         | 4.654%        |
| 7                       | 10.297      | 10.235       | 10.362     | BB       | 320102         | 3344081      | 88.39%         | 5.061%        |
| 8                       | 11.746      | 11.704       | 11.804     | BB       | 314510         | 3534237      | 93.42%         | 5.348%        |
| 9                       | 12.072      | 12.005       | 12.137     | BB       | 357586         | 3783189      | 100.00%        | 5.725%        |
| 10                      | 13.060      | 13.000       | 13.117     | BB       | 295208         | 3383796      | 89.44%         | 5.121%        |
| 11                      | 13.509      | 13.375       | 13.572     | BB       | 239601         | 2861588      | 75.64%         | 4.331%        |
| 12                      | 13.675      | 13.615       | 13.737     | BB       | 274318         | 3257550      | 86.11%         | 4.930%        |
| 13                      | 14.263      | 14.177       | 14.322     | BB       | 266763         | 3155438      | 83.41%         | 4.775%        |
| 14                      | 15.369      | 15.237       | 15.425     | BB       | 229578         | 2939083      | 77.69%         | 4.448%        |
| 15                      | 16.392      | 16.329       | 16.452     | BB       | 212334         | 2709056      | 71.61%         | 4.100%        |
| 16                      | 17.345      | 17.250       | 17.394     | BB       | 202207         | 2671287      | 70.61%         | 4.043%        |
| 17                      | 18.234      | 18.167       | 18.287     | BB       | 218308         | 2878627      | 76.09%         | 4.356%        |
| 18                      | 19.068      | 19.000       | 19.119     | BB       | 217775         | 3057418      | 80.82%         | 4.627%        |
| 19                      | 19.853      | 19.800       | 19.889     | BB       | 206530         | 2881015      | 76.15%         | 4.360%        |
| 20                      | 20.595      | 20.550       | 20.644     | BV       | 184071         | 2702037      | 71.42%         | 4.089%        |
| 21                      | 21.370      | 21.300       | 21.519     | BB       | 140401         | 2698266      | 71.32%         | 4.083%        |
| 22                      | 22.353      | 22.264       | 22.465     | BV       | 99832          | 2574791      | 68.06%         | 3.897%        |
| Sum of corrected areas: |             |              |            |          |                | 66079582     |                |               |

Aliphatic EPH 092425.M Tue Sep 30 05:47:28 2025

Continuing Calibration Report for SequenceID : FE092925AL

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|-----------|-----------|-------|--------|--------|-----------------|-------|------|
|-----------|-----------|-------|--------|--------|-----------------|-------|------|

File ID : FE056077.D

|                   |              |         |        |        |            |            |        |
|-------------------|--------------|---------|--------|--------|------------|------------|--------|
| Aliphatic C12-C16 | 6293193.000  | 40.000  | 6.947  | 10.396 | 157329.825 | 153376.491 | -2.578 |
| Aliphatic C16-C21 | 10298086.000 | 60.000  | 10.397 | 13.773 | 171634.767 | 165879.737 | -3.469 |
| Aliphatic C21-C28 | 11678563.000 | 80.000  | 13.774 | 17.443 | 145982.038 | 148527.151 | 1.714  |
| Aliphatic C28-C40 | 15804133.000 | 120.000 | 17.444 | 22.449 | 131701.108 | 136251.923 | 3.340  |
| Aliphatic EPH     | 51783287.000 | 360.000 | 3.315  | 22.449 | 143842.464 | 146449.789 | 1.780  |
| Aliphatic C9-C12  | 7709312.000  | 60.000  | 3.315  | 6.946  | 128488.533 | 140027.957 | 8.241  |

|                   |                       |                    |                   |
|-------------------|-----------------------|--------------------|-------------------|
| Lab Sample ID:    | 20 PPM ALIPHATIC HC 9 | Acq On:            | 30 Sep 2025 08:07 |
| Client Sample ID: |                       | Operator:          | YPAJ              |
| Data file:        | FE056077.D            | Misc:              |                   |
| Instrument:       | FID_E                 | ALS Vial:          | 2                 |
| Dilution Factor:  | 1                     | Sample Multiplier: | 1.00              |

| Compound          | R.T.   |        | Response     | Conc    | Units |
|-------------------|--------|--------|--------------|---------|-------|
| Aliphatic C9-C12  | 3.315  | 6.946  | 7709312.000  | 60.000  | ug/ml |
| Aliphatic C12-C16 | 6.947  | 10.396 | 6293193.000  | 40.000  | ug/ml |
| Aliphatic C16-C21 | 10.397 | 13.773 | 10298086.000 | 60.000  | ug/ml |
| Aliphatic C21-C28 | 13.774 | 17.443 | 11678563.000 | 80.000  | ug/ml |
| Aliphatic C28-C40 | 17.444 | 22.449 | 15804133.000 | 120.000 | ug/ml |
| Aliphatic EPH     | 3.315  | 22.449 | 51783287.000 | 360.000 | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056077.D  
 Signal(s) : FID1B.ch  
 Acq On : 30 Sep 2025 08:07  
 Operator : YP\AJ  
 Sample : 20 PPM ALIPHATIC HC STD  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 20 PPM ALIPHATIC HC STD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
 Quant Time: Sep 30 08:34:50 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:55:37 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units    |
|--------------------------------|--------|------------|---------------|
| -----                          |        |            |               |
| System Monitoring Compounds    |        |            |               |
| 9) S ortho-Terphenyl (SURR)    | 12.074 | 3848174    | 20.507 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 41.01%        |
| 12) S 1-chlorooctadecane (S... | 13.510 | 2912233    | 20.866 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 41.73%        |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.413  | 2418072    | 17.651 ug/ml  |
| 2) T n-Decane (C10)            | 4.672  | 2534514    | 18.160 ug/ml  |
| 3) T A~Naphthalene (C11.7)     | 6.392  | 3138662    | 19.658 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.847  | 2756726    | 19.207 ug/ml  |
| 5) T A~2-methylnaphthalene...  | 7.492  | 3149498    | 20.252 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.683  | 2978660    | 20.147 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.298 | 3314533    | 20.858 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.747 | 3540920    | 20.905 ug/ml  |
| 10) T n-Eicosane (C20)         | 13.061 | 3437776    | 20.739 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.676 | 3319390    | 20.428 ug/ml  |
| 13) T n-Docosane (C22)         | 14.264 | 3223246    | 20.172 ug/ml  |
| 14) T n-Tetracosane (C24)      | 15.370 | 3007040    | 19.734 ug/ml  |
| 15) T n-Hexacosane (C26)       | 16.393 | 2768449    | 19.410 ug/ml  |
| 16) T n-Octacosane (C28)       | 17.346 | 2679828    | 19.237 ug/ml  |
| 17) T n-Tricontane (C30)       | 18.236 | 2803316    | 18.918 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 19.070 | 2884097    | 19.331 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.856 | 2787056    | 19.703 ug/ml  |
| 20) T n-Hexatriacontane (C36)  | 20.596 | 2561839    | 19.957 ug/mlm |
| 21) T n-Octatriacontane (C38)  | 21.371 | 2423852    | 18.454 ug/mlm |
| 22) T n-Tetracontane (C40)     | 22.355 | 2343973    | 19.703 ug/ml  |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056077.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 08:07  
Operator : YP\AJ  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

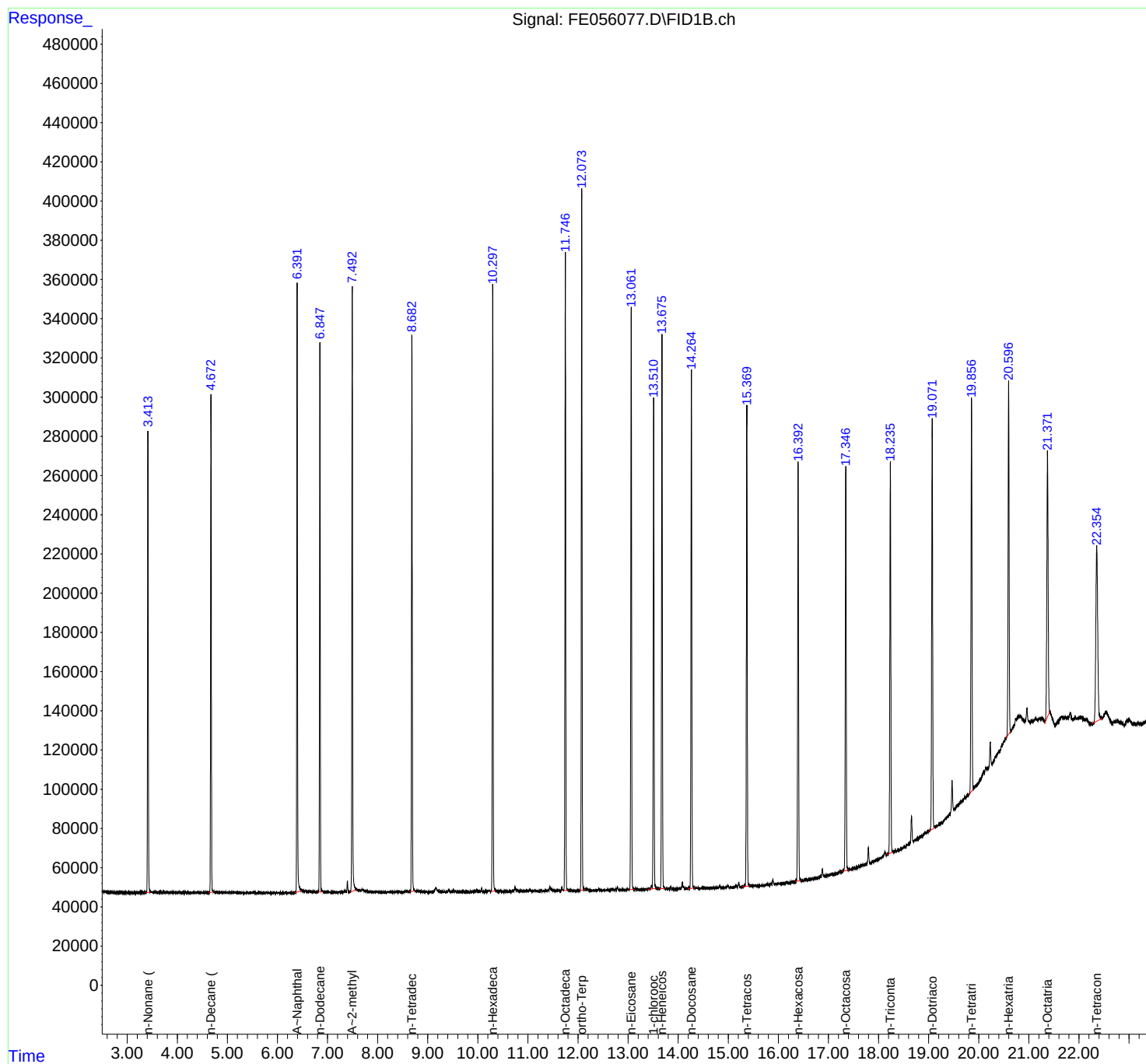
Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

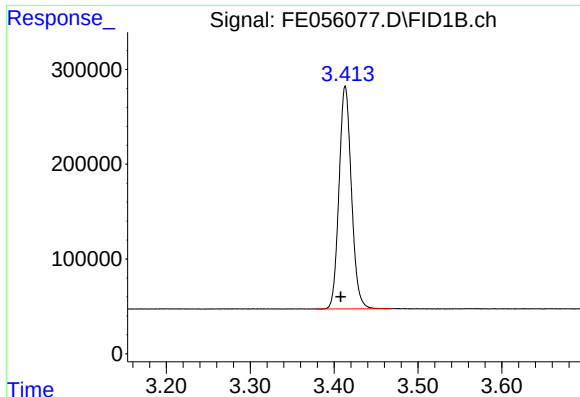
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
Quant Time: Sep 30 08:34:50 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um





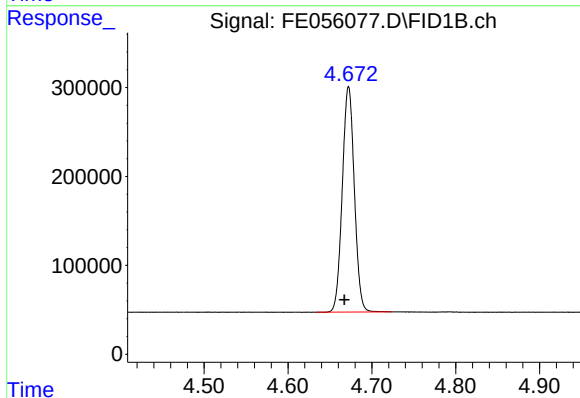
#1 n-Nonane (C9)

R.T.: 3.413 min  
Delta R.T.: 0.005 min  
Response: 2418072  
Conc: 17.65 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

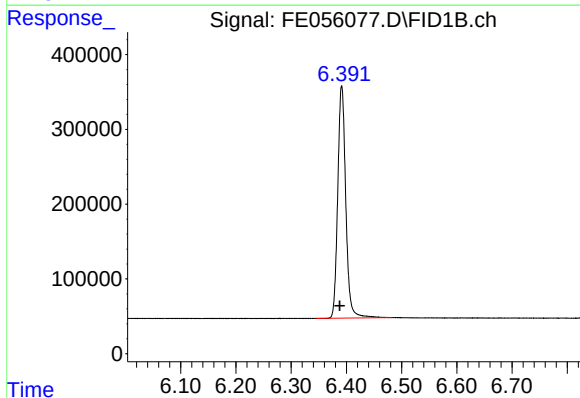
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



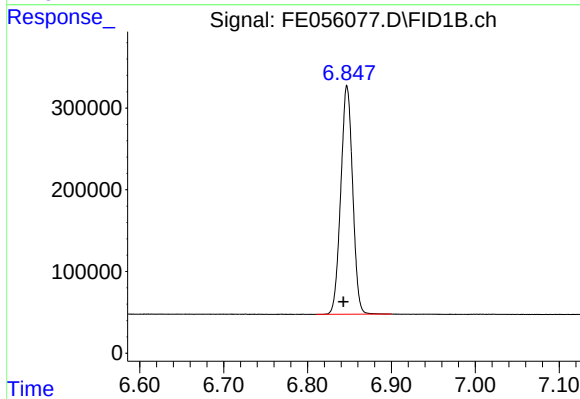
#2 n-Decane (C10)

R.T.: 4.672 min  
Delta R.T.: 0.005 min  
Response: 2534514  
Conc: 18.16 ug/ml



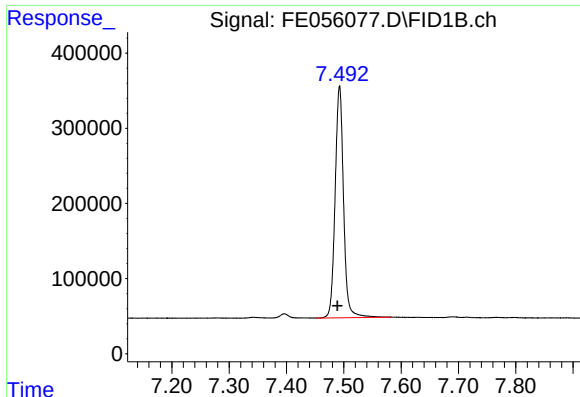
#3 A~Naphthalene (C11.7)

R.T.: 6.392 min  
Delta R.T.: 0.003 min  
Response: 3138662  
Conc: 19.66 ug/ml



#4 n-Dodecane (C12)

R.T.: 6.847 min  
Delta R.T.: 0.004 min  
Response: 2756726  
Conc: 19.21 ug/ml



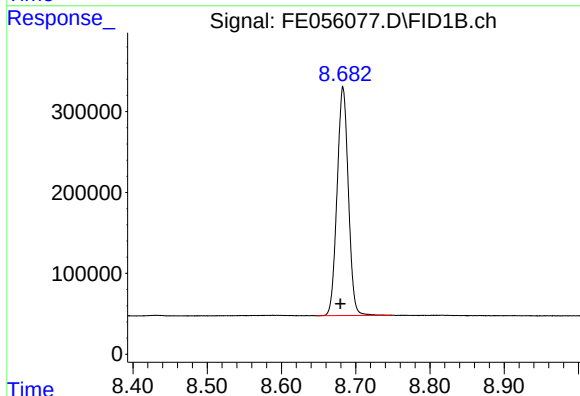
#5 A~2-methylnaphthalene (C12.89)

R.T.: 7.492 min  
Delta R.T.: 0.004 min  
Response: 3149498  
Conc: 20.25 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

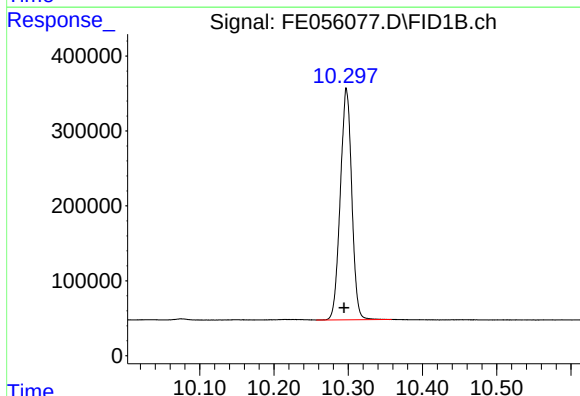
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



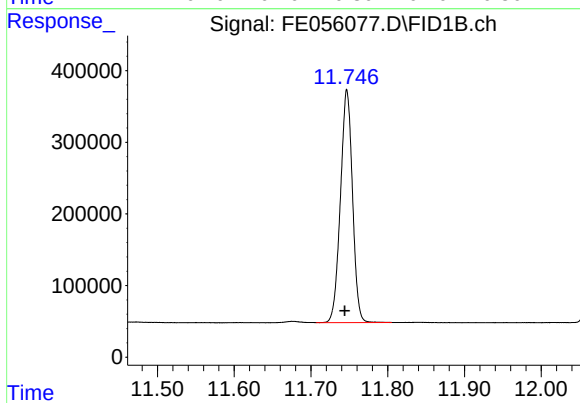
#6 n-Tetradecane (C14)

R.T.: 8.683 min  
Delta R.T.: 0.004 min  
Response: 2978660  
Conc: 20.15 ug/ml



#7 n-Hexadecane (C16)

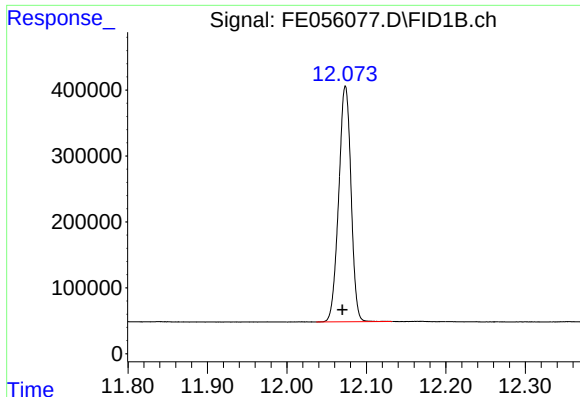
R.T.: 10.298 min  
Delta R.T.: 0.003 min  
Response: 3314533  
Conc: 20.86 ug/ml



#8 n-Octadecane (C18)

R.T.: 11.747 min  
Delta R.T.: 0.003 min  
Response: 3540920  
Conc: 20.90 ug/ml





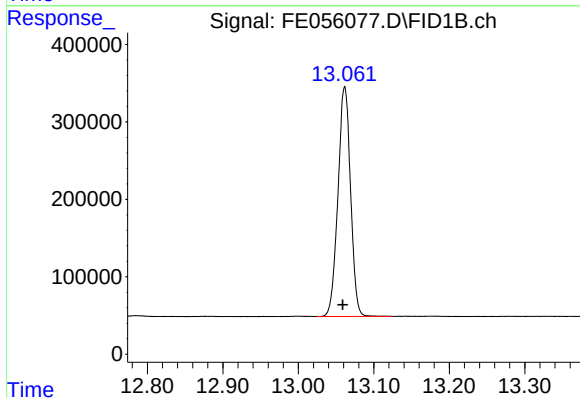
#9 ortho-Terphenyl (SURR)

R.T.: 12.074 min  
Delta R.T.: 0.004 min  
Response: 3848174  
Conc: 20.51 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

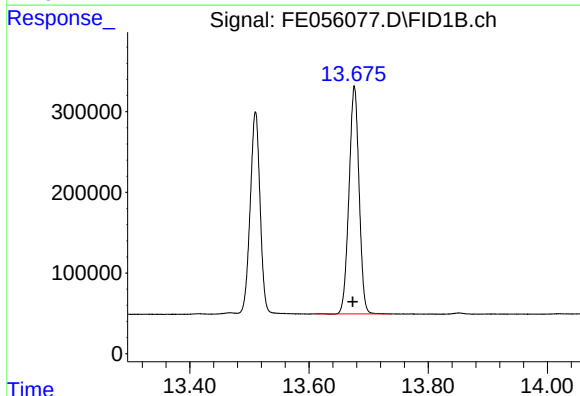
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



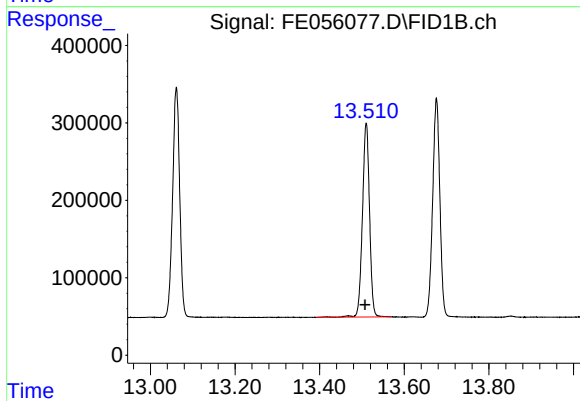
#10 n-Eicosane (C20)

R.T.: 13.061 min  
Delta R.T.: 0.003 min  
Response: 3437776  
Conc: 20.74 ug/ml



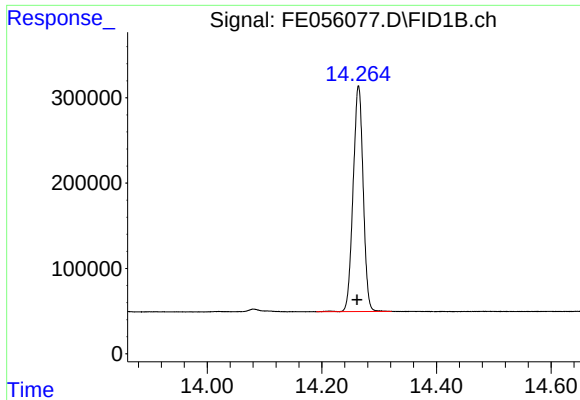
#11 n-Heneicosane (C21)

R.T.: 13.676 min  
Delta R.T.: 0.003 min  
Response: 3319390  
Conc: 20.43 ug/ml



#12 1-chlorooctadecane (SURR)

R.T.: 13.510 min  
Delta R.T.: 0.003 min  
Response: 2912233  
Conc: 20.87 ug/ml



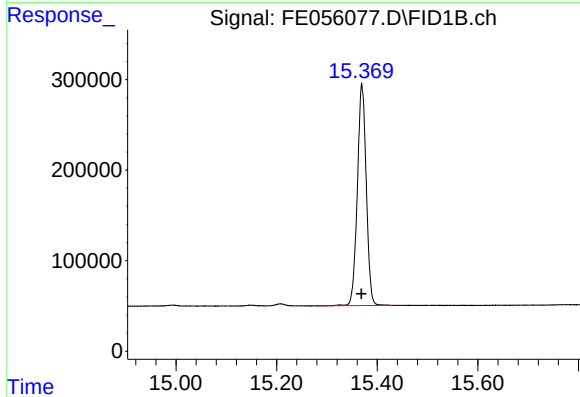
#13 n-Docosane (C22)

R.T.: 14.264 min  
Delta R.T.: 0.002 min  
Response: 3223246  
Conc: 20.17 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

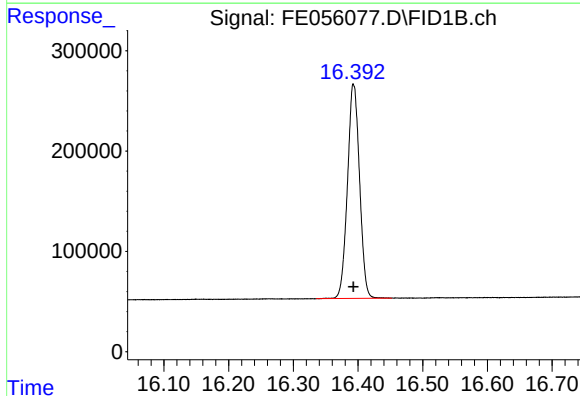
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



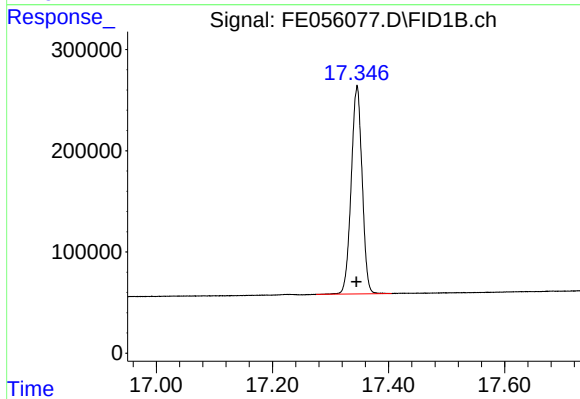
#14 n-Tetracosane (C24)

R.T.: 15.370 min  
Delta R.T.: 0.001 min  
Response: 3007040  
Conc: 19.73 ug/ml



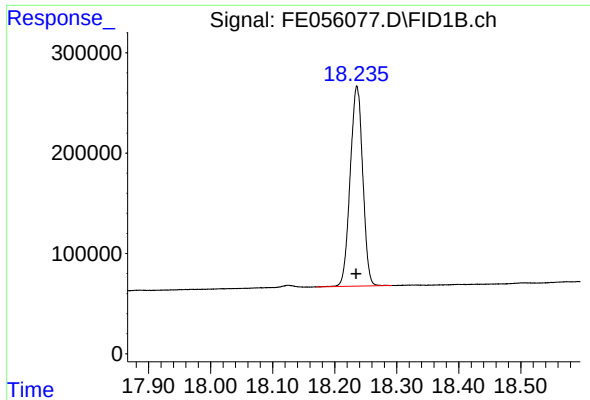
#15 n-Hexacosane (C26)

R.T.: 16.393 min  
Delta R.T.: 0.000 min  
Response: 2768449  
Conc: 19.41 ug/ml



#16 n-Octacosane (C28)

R.T.: 17.346 min  
Delta R.T.: 0.000 min  
Response: 2679828  
Conc: 19.24 ug/ml



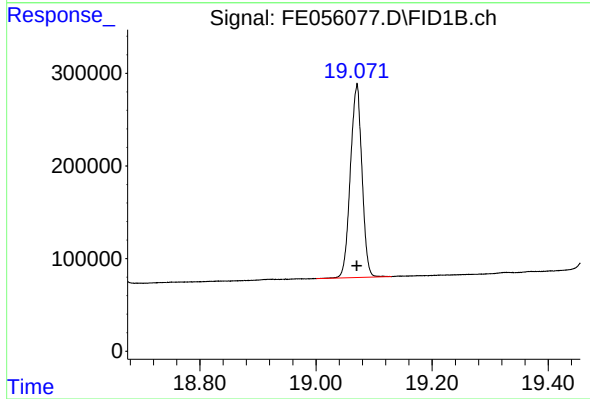
#17 n-Tricontane (C30)

R.T.: 18.236 min  
Delta R.T.: 0.001 min  
Response: 2803316  
Conc: 18.92 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

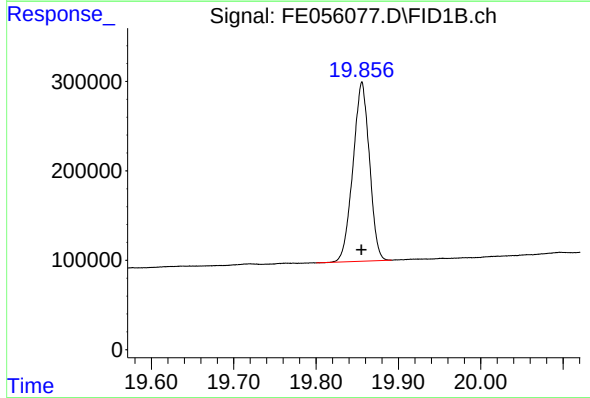
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



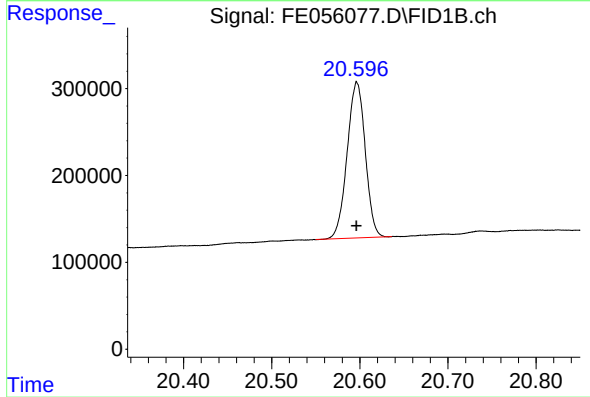
#18 n-Dotriacontane (C32)

R.T.: 19.070 min  
Delta R.T.: 0.000 min  
Response: 2884097  
Conc: 19.33 ug/ml



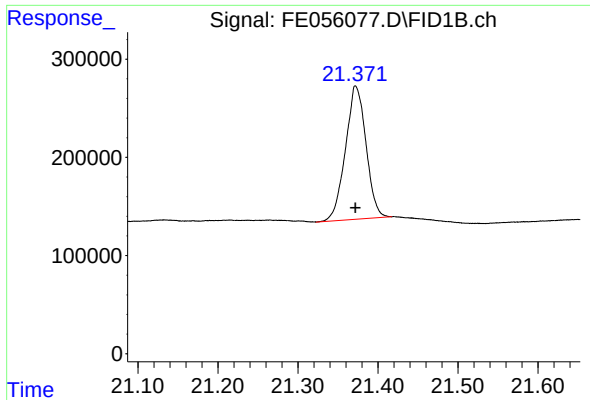
#19 n-Tetratriacontane (C34)

R.T.: 19.856 min  
Delta R.T.: 0.000 min  
Response: 2787056  
Conc: 19.70 ug/ml



#20 n-Hexatriacontane (C36)

R.T.: 20.596 min  
Delta R.T.: 0.000 min  
Response: 2561839  
Conc: 19.96 ug/ml m



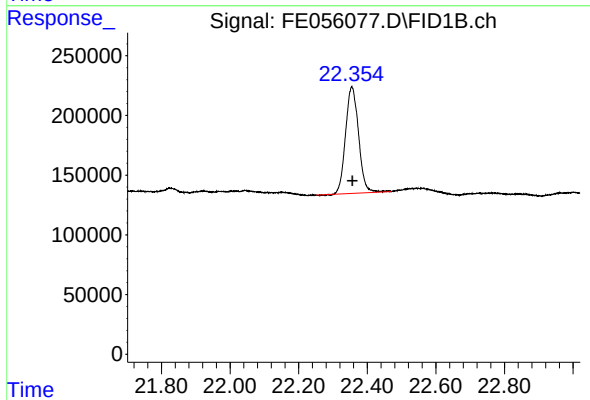
#21 n-Octatriacontane (C38)

R.T.: 21.371 min  
Delta R.T.: 0.000 min  
Response: 2423852  
Conc: 18.45 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
20 PPM ALIPHATIC HC STD

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



#22 n-Tetracontane (C40)

R.T.: 22.355 min  
Delta R.T.: -0.002 min  
Response: 2343973  
Conc: 19.70 ug/ml

rteres.txt

Instrument :

FID\_E

LabSampleId :

20 PPM ALIPHATIC HC STD

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025

Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE09292  
Data File : FE056077.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 08:07  
Sample : 20 PPM ALIPHATIC HC STD  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.413       | 3.379        | 3.469      | BB       | 235016         | 2418072      | 62.84%         | 3.709%        |
| 2                       | 4.672       | 4.634        | 4.724      | BB       | 254047         | 2534514      | 65.86%         | 3.888%        |
| 3                       | 6.392       | 6.345        | 6.482      | BB       | 310630         | 3138662      | 81.56%         | 4.815%        |
| 4                       | 6.847       | 6.810        | 6.900      | BB       | 279755         | 2756726      | 71.64%         | 4.229%        |
| 5                       | 7.493       | 7.452        | 7.584      | BB       | 308278         | 3149498      | 81.84%         | 4.831%        |
| 6                       | 8.683       | 8.647        | 8.748      | BB       | 282057         | 2978660      | 77.40%         | 4.569%        |
| 7                       | 10.298      | 10.257       | 10.359     | BB       | 309451         | 3314533      | 86.13%         | 5.085%        |
| 8                       | 11.747      | 11.707       | 11.805     | BB       | 325081         | 3540920      | 92.02%         | 5.432%        |
| 9                       | 12.074      | 12.037       | 12.132     | BB       | 357581         | 3848174      | 100.00%        | 5.903%        |
| 10                      | 13.061      | 13.024       | 13.124     | BB       | 297094         | 3437776      | 89.34%         | 5.274%        |
| 11                      | 13.510      | 13.392       | 13.570     | BB       | 250692         | 2912233      | 75.68%         | 4.467%        |
| 12                      | 13.676      | 13.612       | 13.739     | BB       | 281517         | 3319390      | 86.26%         | 5.092%        |
| 13                      | 14.264      | 14.190       | 14.322     | BB       | 264955         | 3223246      | 83.76%         | 4.944%        |
| 14                      | 15.370      | 15.279       | 15.429     | BB       | 242411         | 3007040      | 78.14%         | 4.613%        |
| 15                      | 16.393      | 16.335       | 16.452     | BB       | 212459         | 2768449      | 71.94%         | 4.247%        |
| 16                      | 17.346      | 17.275       | 17.405     | BB       | 204643         | 2679828      | 69.64%         | 4.111%        |
| 17                      | 18.236      | 18.170       | 18.292     | BB       | 199509         | 2803316      | 72.85%         | 4.300%        |
| 18                      | 19.070      | 19.000       | 19.130     | BB       | 207593         | 2884097      | 74.95%         | 4.424%        |
| 19                      | 19.856      | 19.800       | 19.892     | BV       | 200202         | 2787056      | 72.43%         | 4.275%        |
| 20                      | 20.597      | 20.550       | 20.634     | BV       | 180720         | 2621510      | 68.12%         | 4.021%        |
| 21                      | 21.373      | 21.301       | 21.534     | BV       | 136377         | 2721240      | 70.72%         | 4.174%        |
| 22                      | 22.355      | 22.251       | 22.471     | BV       | 89358          | 2343973      | 60.91%         | 3.596%        |
| Sum of corrected areas: |             |              |            |          |                | 65188912     |                |               |

Aliphatic EPH 092425.M Tue Sep 30 08:45:22 2025

Continuing Calibration Report for SequenceID : FF092925AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|-----------|-----------|-------|--------|--------|-----------------|-------|------|
|-----------|-----------|-------|--------|--------|-----------------|-------|------|

File ID : FF016469.D

|                  |              |         |        |        |            |            |        |
|------------------|--------------|---------|--------|--------|------------|------------|--------|
| Aromatic C10-C12 | 5084345.000  | 40.000  | 4.521  | 6.397  | 127108.625 | 143322.298 | 11.313 |
| Aromatic C12-C16 | 7733315.000  | 60.000  | 6.398  | 9.101  | 128888.583 | 145185.730 | 11.225 |
| Aromatic C16-C21 | 9911263.000  | 80.000  | 9.102  | 13.420 | 123890.788 | 144173.003 | 14.068 |
| Aromatic C21-C36 | 20345622.000 | 180.000 | 13.421 | 18.876 | 113031.233 | 130834.072 | 13.607 |
| Aromatic EPH     | 43074545.000 | 360.000 | 4.521  | 18.876 | 119651.514 | 137577.803 | 13.030 |

|                   |                    |                    |                   |
|-------------------|--------------------|--------------------|-------------------|
| Lab Sample ID:    | 20 PPM AROMATIC HC | Acq On:            | 29 Sep 2025 14:07 |
| Client Sample ID: |                    | Operator:          | YP\AJ             |
| Data file:        | FF016469.D         | Misc:              |                   |
| Instrument:       | FID_F              | ALS Vial:          | 71                |
| Dilution Factor:  | 1                  | Sample Multiplier: | 1.00              |

| Compound         | R.T.   |        | Response     | Conc    | Units |
|------------------|--------|--------|--------------|---------|-------|
| Aromatic C10-C12 | 4.521  | 6.397  | 5084345.000  | 40.000  | ug/ml |
| Aromatic C12-C16 | 6.398  | 9.101  | 7733315.000  | 60.000  | ug/ml |
| Aromatic C16-C21 | 9.102  | 13.420 | 9911263.000  | 80.000  | ug/ml |
| Aromatic C21-C36 | 13.421 | 18.876 | 20345622.000 | 180.000 | ug/ml |
| Aromatic EPH     | 4.521  | 18.876 | 43074545.000 | 360.000 | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016469.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 14:07  
 Operator : YP\AJ  
 Sample : 20 PPM AROMATIC HC STD  
 Misc :  
 ALS Vial : 71 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 20 PPM AROMATIC HC STD

Integration File: autoint1.e  
 Quant Time: Sep 30 01:03:20 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.026  | 2211560    | 17.655 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 35.31%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.902  | 1496381    | 17.742 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 35.48%       |
| 11) S ortho-Terphenyl (SURR)       | 11.969 | 2632726    | 17.270 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 34.54%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.621  | 2507927    | 17.791 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.297  | 2576418    | 17.685 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.397  | 2618834    | 17.789 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.702  | 2548044    | 17.583 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.001  | 2566437    | 17.895 ug/ml |
| 8) T Flouorene (C16.55)            | 9.791  | 2547498    | 17.634 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.199 | 2520761    | 17.282 ug/ml |
| 10) T Anthracene (C19.43)          | 11.273 | 2443172    | 17.077 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.022 | 2483340    | 17.003 ug/ml |
| 13) T Pyrene (C20.8)               | 13.320 | 2399832    | 16.747 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.204 | 2245870    | 16.499 ug/ml |
| 15) T Chrysene (C27.41)            | 15.246 | 2376725    | 16.662 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.765 | 2229841    | 16.970 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.796 | 2189119    | 17.392 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.145 | 2215712    | 17.352 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.519 | 2019062    | 17.705 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.560 | 2369349    | 18.149 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.776 | 2216604    | 18.001 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

(m)=manual int.

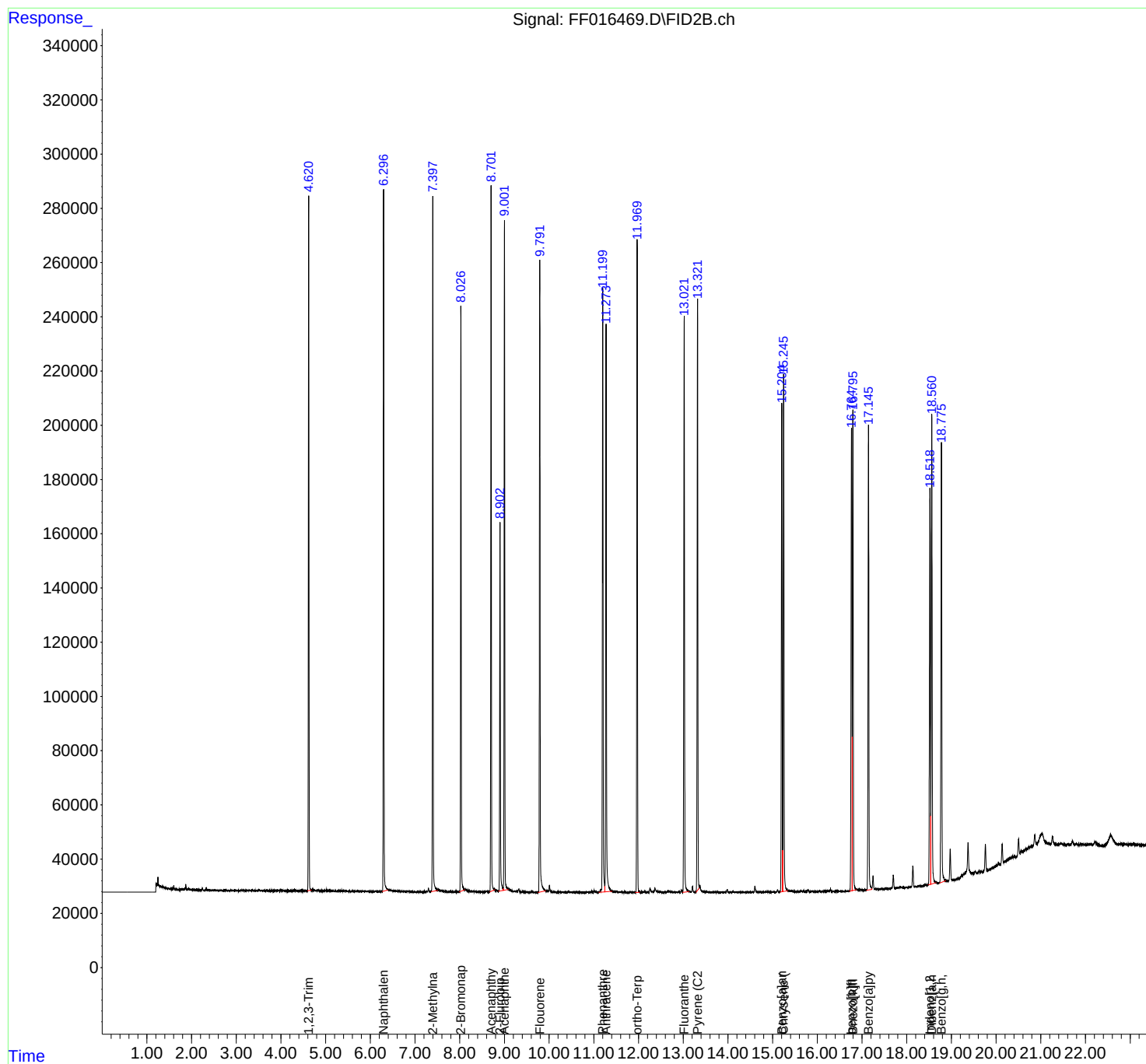


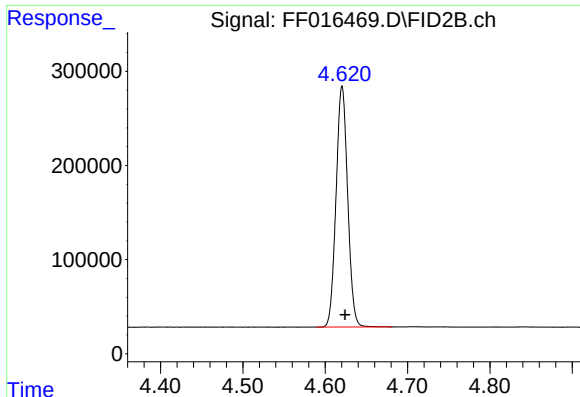
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016469.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 14:07  
Operator : YP\AJ  
Sample : 20 PPM AROMATIC HC STD  
Misc :  
ALS Vial : 71 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD

Integration File: autoint1.e  
Quant Time: Sep 30 01:03:20 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:24:48 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

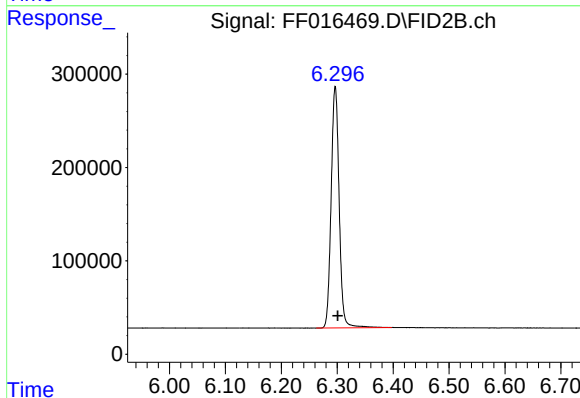




#1 1,2,3-Trimethylbenzene (C10.1)

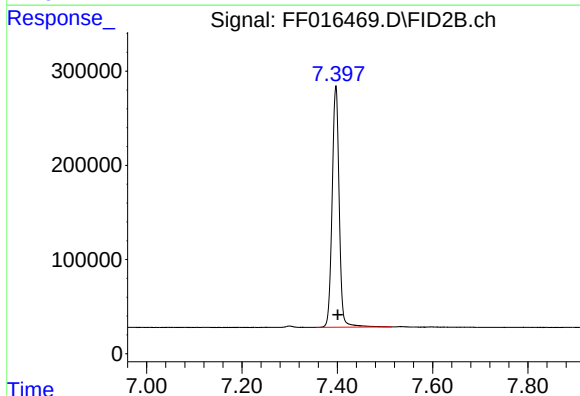
R.T.: 4.621 min  
Delta R.T.: -0.003 min  
Response: 2507927  
Conc: 17.79 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



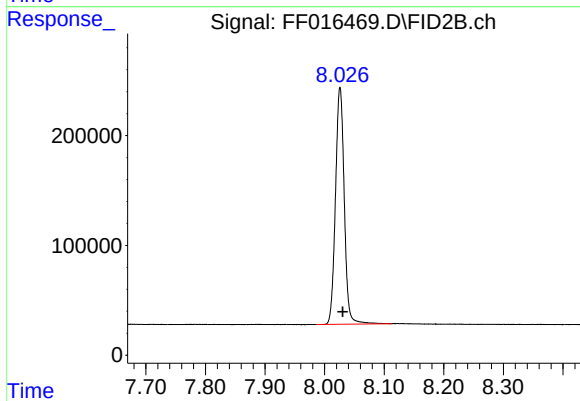
#2 Naphthalene (C11.7)

R.T.: 6.297 min  
Delta R.T.: -0.005 min  
Response: 2576418  
Conc: 17.69 ug/ml



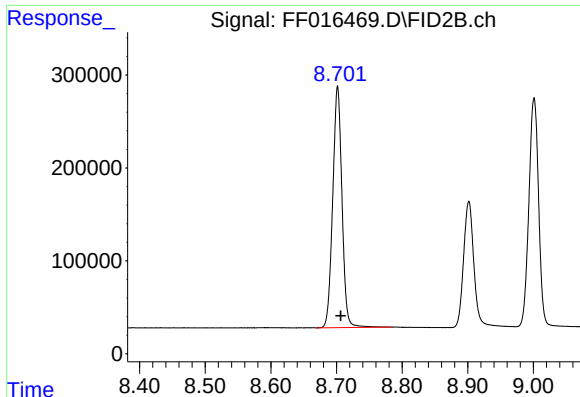
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.397 min  
Delta R.T.: -0.004 min  
Response: 2618834  
Conc: 17.79 ug/ml



#4 2-Bromonaphthalene (SURR)

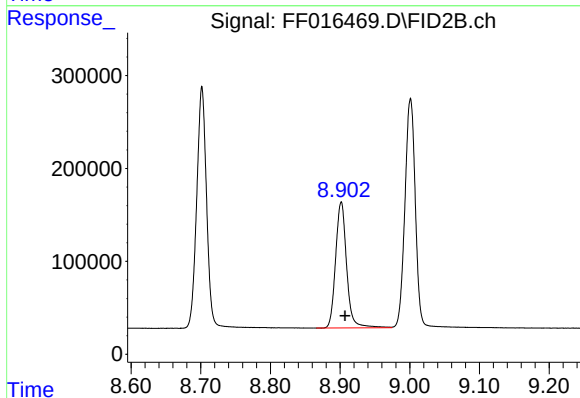
R.T.: 8.026 min  
Delta R.T.: -0.005 min  
Response: 2211560  
Conc: 17.65 ug/ml



#5 Acenaphthylene (C15.06)

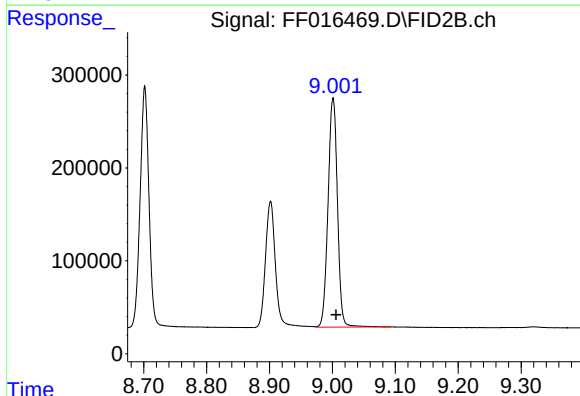
R.T.: 8.702 min  
Delta R.T.: -0.005 min  
Response: 2548044  
Conc: 17.58 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



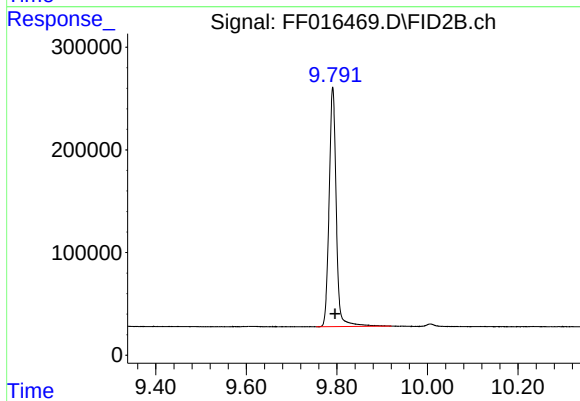
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.902 min  
Delta R.T.: -0.006 min  
Response: 1496381  
Conc: 17.74 ug/ml



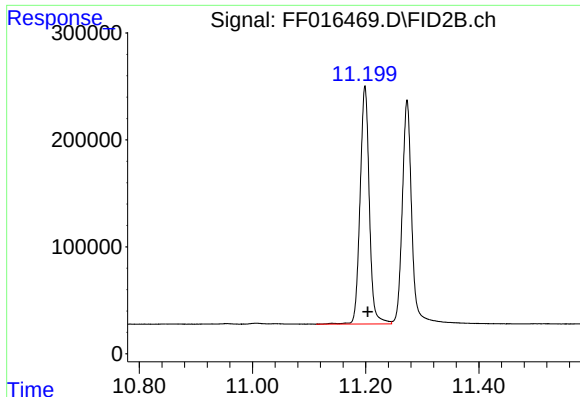
#7 Acenaphthene (C15.5)

R.T.: 9.001 min  
Delta R.T.: -0.005 min  
Response: 2566437  
Conc: 17.89 ug/ml



#8 Flouorene (C16.55)

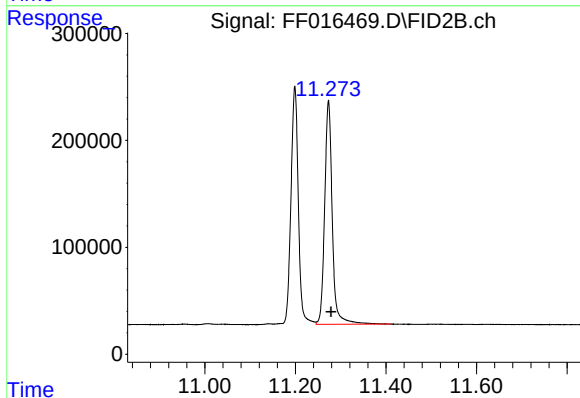
R.T.: 9.791 min  
Delta R.T.: -0.005 min  
Response: 2547498  
Conc: 17.63 ug/ml



#9 Phenanthrene (C19.36)

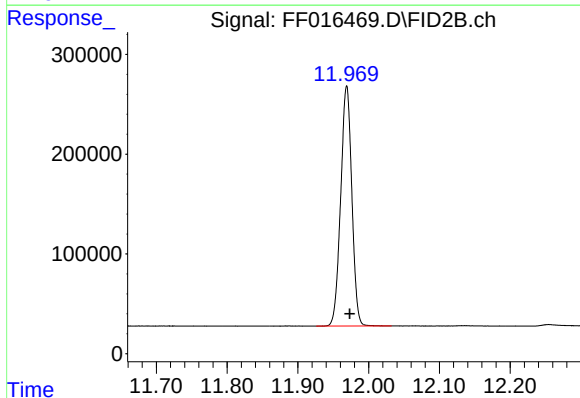
R.T.: 11.199 min  
Delta R.T.: -0.005 min  
Response: 2520761  
Conc: 17.28 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



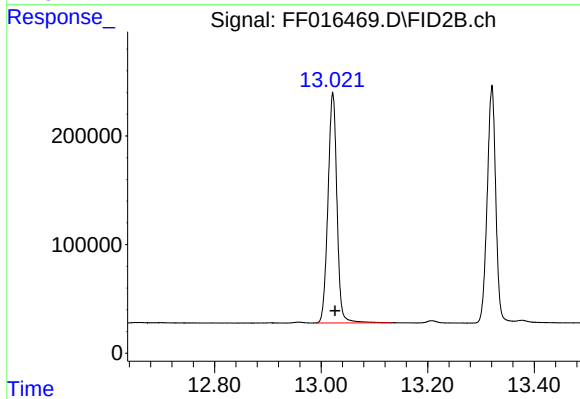
#10 Anthracene (C19.43)

R.T.: 11.273 min  
Delta R.T.: -0.006 min  
Response: 2443172  
Conc: 17.08 ug/ml



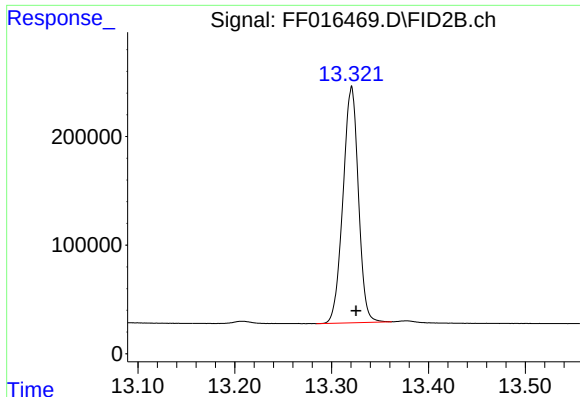
#11 ortho-Terphenyl (SURR)

R.T.: 11.969 min  
Delta R.T.: -0.005 min  
Response: 2632726  
Conc: 17.27 ug/ml



#12 Fluoranthene (C21.85)

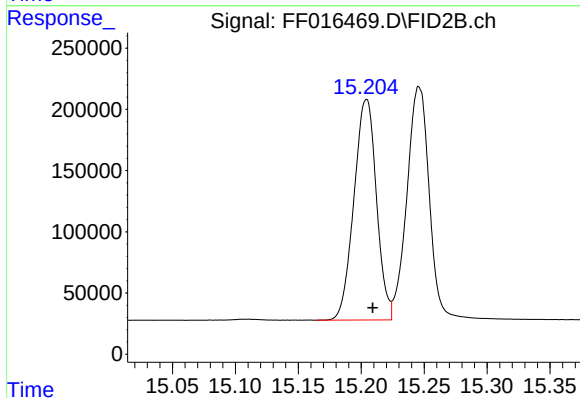
R.T.: 13.022 min  
Delta R.T.: -0.005 min  
Response: 2483340  
Conc: 17.00 ug/ml



#13 Pyrene (C20.8)

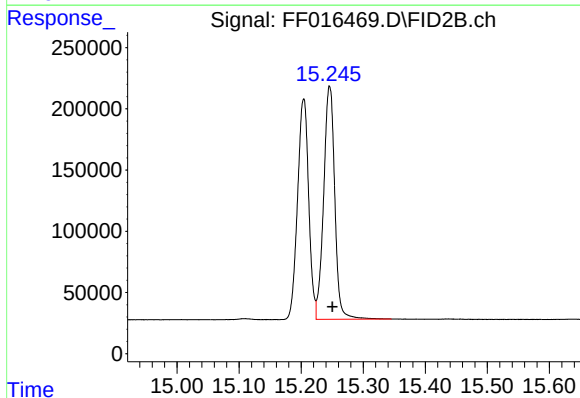
R.T.: 13.320 min  
Delta R.T.: -0.005 min  
Response: 2399832  
Conc: 16.75 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



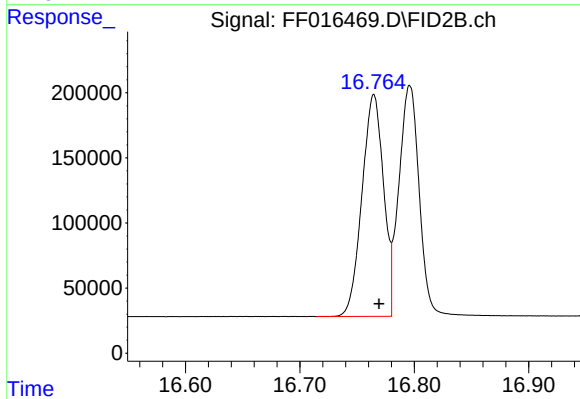
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.204 min  
Delta R.T.: -0.005 min  
Response: 2245870  
Conc: 16.50 ug/ml



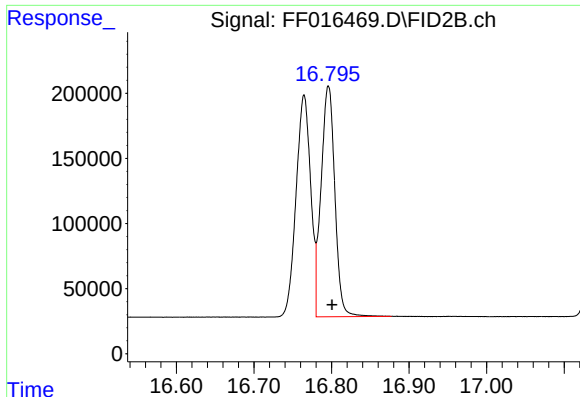
#15 Chrysene (C27.41)

R.T.: 15.246 min  
Delta R.T.: -0.005 min  
Response: 2376725  
Conc: 16.66 ug/ml



#16 benzo[b]fluoranthene (C30.41)

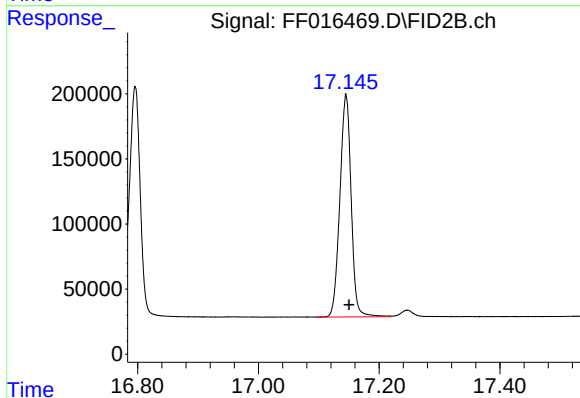
R.T.: 16.765 min  
Delta R.T.: -0.005 min  
Response: 2229841  
Conc: 16.97 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

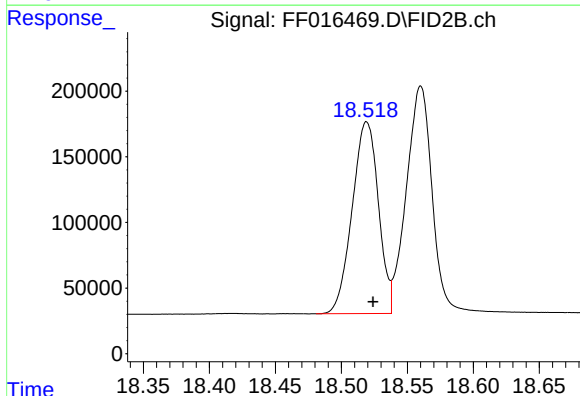
R.T.: 16.796 min  
Delta R.T.: -0.005 min  
Response: 2189119  
Conc: 17.39 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



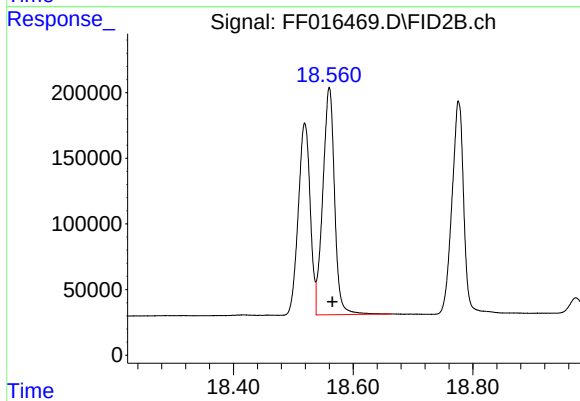
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.145 min  
Delta R.T.: -0.005 min  
Response: 2215712  
Conc: 17.35 ug/ml



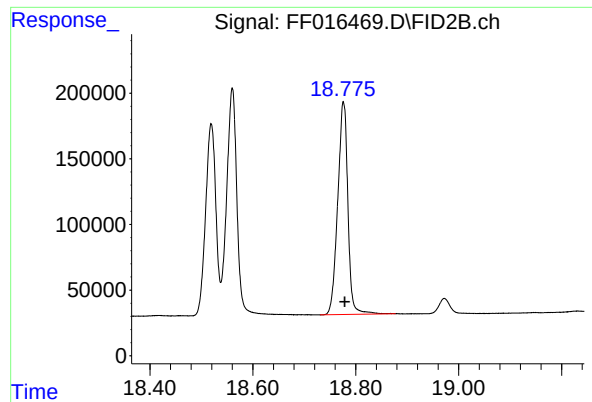
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.519 min  
Delta R.T.: -0.005 min  
Response: 2019062  
Conc: 17.71 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.560 min  
Delta R.T.: -0.005 min  
Response: 2369349  
Conc: 18.15 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.776 min  
Delta R.T.: -0.002 min  
Response: 2216604  
Conc: 18.00 ug/ml

Instrument :

FID\_F

ClientSampleId :

20 PPM AROMATIC HC STD

rteres

Area Percent

## Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016469.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 14:07  
Sample : 20 PPM AROMATIC HC STD  
Misc :  
ALS Vial : 71 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH  
092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.621       | 4.589        | 4.681      | BB       | 256175         | 2507927      | 95.26%         | 5.075%        |
| 2                       | 6.297       | 6.262        | 6.397      | BB       | 258563         | 2576418      | 97.86%         | 5.214%        |
| 3                       | 7.397       | 7.356        | 7.514      | BB       | 257344         | 2618834      | 99.47%         | 5.300%        |
| 4                       | 8.026       | 7.986        | 8.112      | BB       | 215892         | 2211560      | 84.00%         | 4.475%        |
| 5                       | 8.702       | 8.669        | 8.784      | BB       | 260059         | 2548044      | 96.78%         | 5.156%        |
| 6                       | 8.902       | 8.866        | 8.974      | BV       | 136564         | 1496381      | 56.84%         | 3.028%        |
| 7                       | 9.001       | 8.974        | 9.094      | VB       | 246336         | 2566437      | 97.48%         | 5.194%        |
| 8                       | 9.791       | 9.754        | 9.921      | BB       | 232960         | 2547498      | 96.76%         | 5.155%        |
| 9                       | 11.199      | 11.112       | 11.246     | BV       | 222820         | 2520761      | 95.75%         | 5.101%        |
| 10                      | 11.273      | 11.246       | 11.412     | VB       | 209245         | 2443172      | 92.80%         | 4.944%        |
| 11                      | 11.969      | 11.926       | 12.032     | BB       | 241053         | 2632726      | 100.00%        | 5.328%        |
| 12                      | 13.022      | 12.991       | 13.132     | BB       | 211910         | 2483340      | 94.33%         | 5.025%        |
| 13                      | 13.320      | 13.284       | 13.362     | BV       | 218094         | 2399832      | 91.15%         | 4.856%        |
| 14                      | 15.204      | 15.164       | 15.224     | BV       | 180288         | 2245870      | 85.31%         | 4.545%        |
| 15                      | 15.246      | 15.224       | 15.346     | VB       | 190770         | 2376725      | 90.28%         | 4.810%        |
| 16                      | 16.765      | 16.714       | 16.780     | BV       | 170583         | 2229841      | 84.70%         | 4.512%        |
| 17                      | 16.796      | 16.780       | 16.877     | VB       | 177534         | 2189119      | 83.15%         | 4.430%        |
| 18                      | 17.145      | 17.096       | 17.221     | BV       | 170516         | 2215712      | 84.16%         | 4.484%        |
| 19                      | 18.519      | 18.481       | 18.538     | BV       | 146145         | 2019062      | 76.69%         | 4.086%        |
| 20                      | 18.560      | 18.538       | 18.664     | VB       | 173324         | 2369349      | 90.00%         | 4.795%        |
| 21                      | 18.776      | 18.731       | 18.877     | BB       | 162187         | 2216604      | 84.19%         | 4.486%        |
| Sum of corrected areas: |             |              |            |          |                | 49415209     |                |               |

Aromatic EPH 092425.M Tue Sep 30 01:26:26 2025



Continuing Calibration Report for SequenceID : FF092925AR

| Parameter | AreaCount | Conc. | RT_Min | RT_Max | Response Factor | AVGRF | %DEV |
|-----------|-----------|-------|--------|--------|-----------------|-------|------|
|-----------|-----------|-------|--------|--------|-----------------|-------|------|

File ID : FF016480.D

|                  |              |         |        |        |            |            |        |
|------------------|--------------|---------|--------|--------|------------|------------|--------|
| Aromatic C10-C12 | 5842008.000  | 40.000  | 4.521  | 6.397  | 146050.200 | 143322.298 | -1.903 |
| Aromatic C12-C16 | 8833480.000  | 60.000  | 6.398  | 9.101  | 147224.667 | 145185.730 | -1.404 |
| Aromatic C16-C21 | 10927914.000 | 80.000  | 9.102  | 13.420 | 136598.925 | 144173.003 | 5.253  |
| Aromatic C21-C36 | 22884163.000 | 180.000 | 13.421 | 18.876 | 127134.239 | 130834.072 | 2.828  |
| Aromatic EPH     | 48487565.000 | 360.000 | 4.521  | 18.876 | 134687.681 | 137577.803 | 2.101  |

|                   |                    |                    |                   |
|-------------------|--------------------|--------------------|-------------------|
| Lab Sample ID:    | 20 PPM AROMATIC HC | Acq On:            | 29 Sep 2025 22:02 |
| Client Sample ID: |                    | Operator:          | YP\AJ             |
| Data file:        | FF016480.D         | Misc:              |                   |
| Instrument:       | FID_F              | ALS Vial:          | 62                |
| Dilution Factor:  | 1                  | Sample Multiplier: | 1.00              |

| Compound         | R.T.   |        | Response     | Conc    | Units |
|------------------|--------|--------|--------------|---------|-------|
| Aromatic C10-C12 | 4.521  | 6.397  | 5842008.000  | 40.000  | ug/ml |
| Aromatic C12-C16 | 6.398  | 9.101  | 8833480.000  | 60.000  | ug/ml |
| Aromatic C16-C21 | 9.102  | 13.420 | 10927914.000 | 80.000  | ug/ml |
| Aromatic C21-C36 | 13.421 | 18.876 | 22884163.000 | 180.000 | ug/ml |
| Aromatic EPH     | 4.521  | 18.876 | 48487565.000 | 360.000 | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016480.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 22:02  
 Operator : YP\AJ  
 Sample : 20 PPM AROMATIC HC STD  
 Misc :  
 ALS Vial : 62 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 20 PPM AROMATIC HC STD

Integration File: autoint1.e  
 Quant Time: Sep 30 01:23:07 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

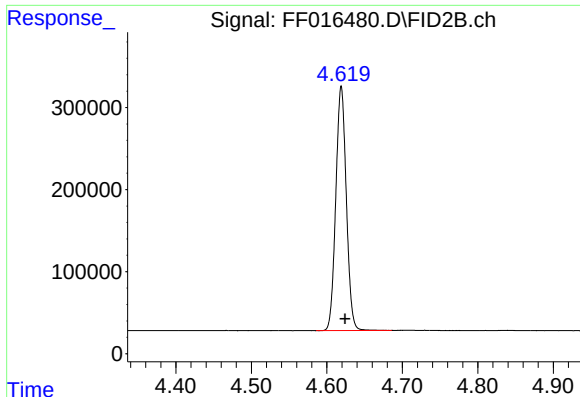
Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.025  | 2540204    | 20.278 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 40.56%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.900  | 1719562    | 20.389 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 40.78%       |
| 11) S ortho-Terphenyl (SURR)       | 11.968 | 2999184    | 19.673 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 39.35%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.619  | 2881911    | 20.444 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.295  | 2960097    | 20.319 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.395  | 2999928    | 20.377 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.701  | 2895979    | 19.984 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.000  | 2937573    | 20.482 ug/ml |
| 8) T Flouorene (C16.55)            | 9.790  | 2921064    | 20.220 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.197 | 2867348    | 19.659 ug/ml |
| 10) T Anthracene (C19.43)          | 11.272 | 2418954    | 16.908 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.020 | 2819110    | 19.302 ug/ml |
| 13) T Pyrene (C20.8)               | 13.319 | 2720548    | 18.985 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.202 | 2518448    | 18.501 ug/ml |
| 15) T Chrysene (C27.41)            | 15.244 | 2682933    | 18.808 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.763 | 2512742    | 19.123 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.795 | 2474262    | 19.657 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.144 | 2486548    | 19.473 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.518 | 2278345    | 19.979 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.558 | 2618796    | 20.059 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.774 | 2492979    | 20.245 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

(m)=manual int.

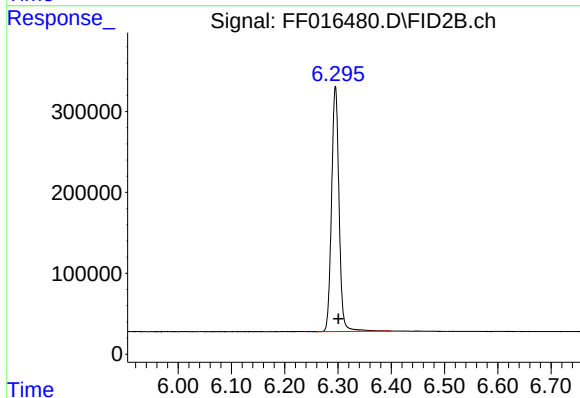




#1 1,2,3-Trimethylbenzene (C10.1)

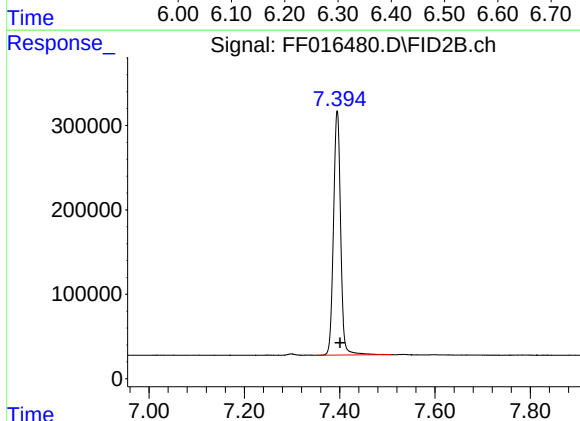
R.T.: 4.619 min  
Delta R.T.: -0.005 min  
Response: 2881911  
Conc: 20.44 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



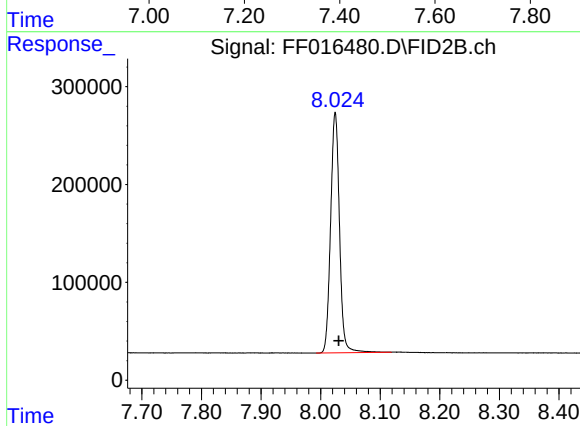
#2 Naphthalene (C11.7)

R.T.: 6.295 min  
Delta R.T.: -0.006 min  
Response: 2960097  
Conc: 20.32 ug/ml



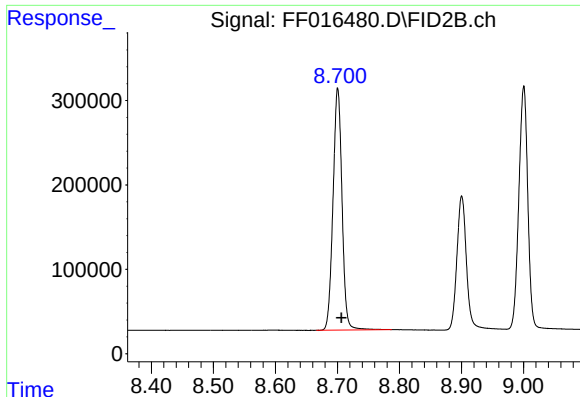
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.395 min  
Delta R.T.: -0.006 min  
Response: 2999928  
Conc: 20.38 ug/ml



#4 2-Bromonaphthalene (SURR)

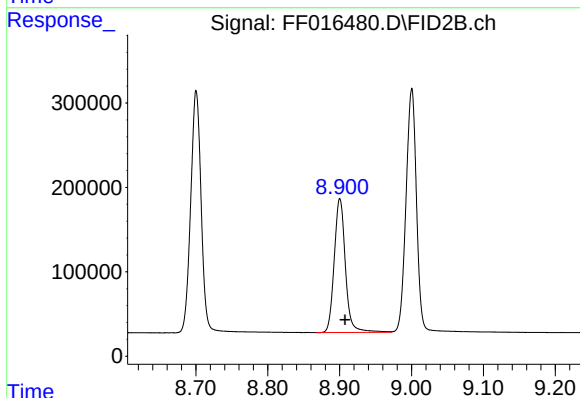
R.T.: 8.025 min  
Delta R.T.: -0.006 min  
Response: 2540204  
Conc: 20.28 ug/ml



#5 Acenaphthylene (C15.06)

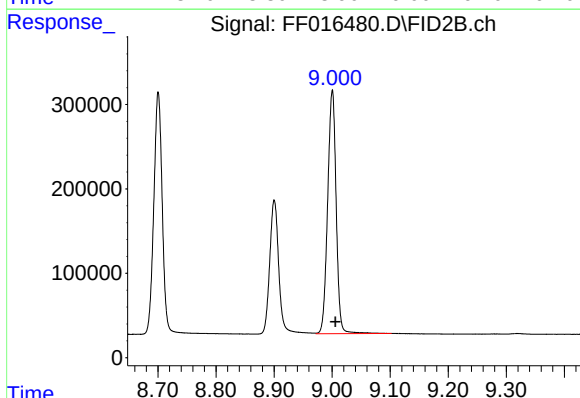
R.T.: 8.701 min  
Delta R.T.: -0.006 min  
Response: 2895979  
Conc: 19.98 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



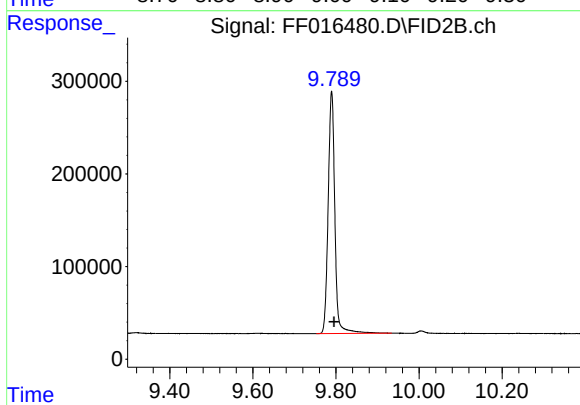
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.900 min  
Delta R.T.: -0.007 min  
Response: 1719562  
Conc: 20.39 ug/ml



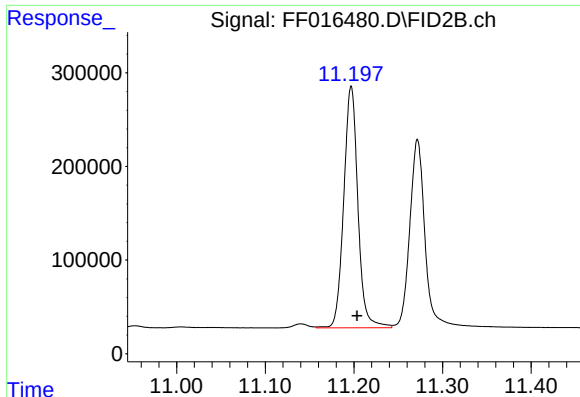
#7 Acenaphthene (C15.5)

R.T.: 9.000 min  
Delta R.T.: -0.006 min  
Response: 2937573  
Conc: 20.48 ug/ml



#8 Fluorene (C16.55)

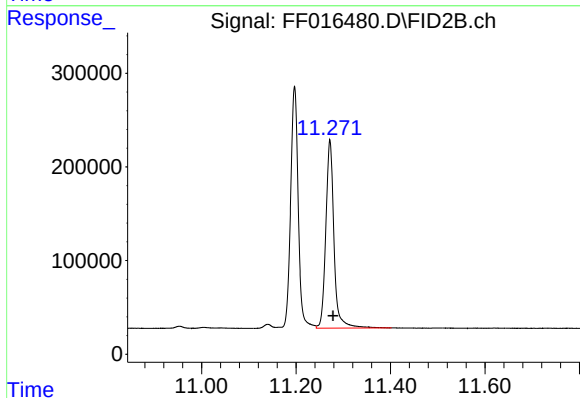
R.T.: 9.790 min  
Delta R.T.: -0.006 min  
Response: 2921064  
Conc: 20.22 ug/ml



#9 Phenanthrene (C19.36)

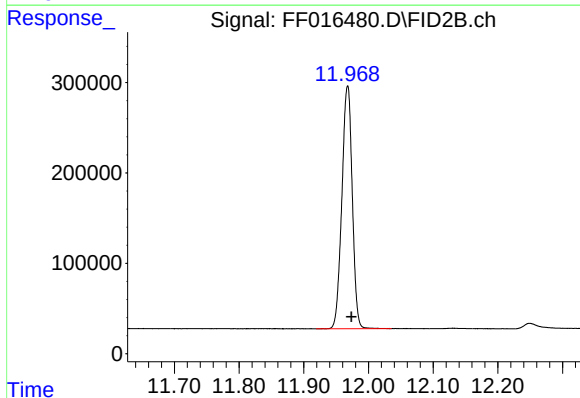
R.T.: 11.197 min  
Delta R.T.: -0.007 min  
Response: 2867348  
Conc: 19.66 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



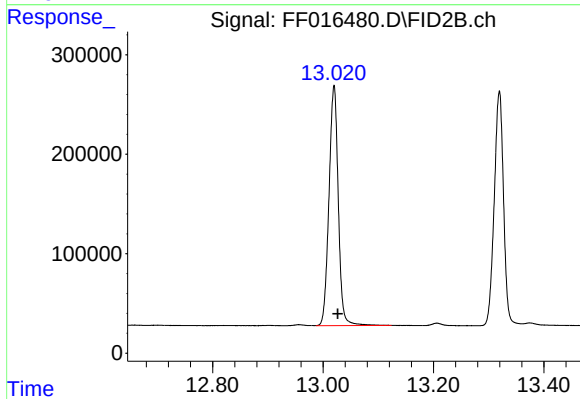
#10 Anthracene (C19.43)

R.T.: 11.272 min  
Delta R.T.: -0.007 min  
Response: 2418954  
Conc: 16.91 ug/ml



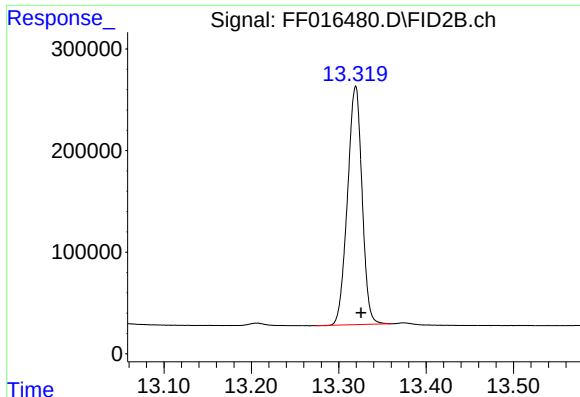
#11 ortho-Terphenyl (SURR)

R.T.: 11.968 min  
Delta R.T.: -0.006 min  
Response: 2999184  
Conc: 19.67 ug/ml



#12 Fluoranthene (C21.85)

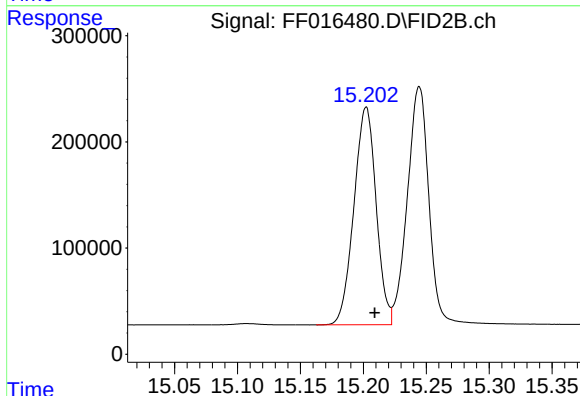
R.T.: 13.020 min  
Delta R.T.: -0.007 min  
Response: 2819110  
Conc: 19.30 ug/ml



#13 Pyrene (C20.8)

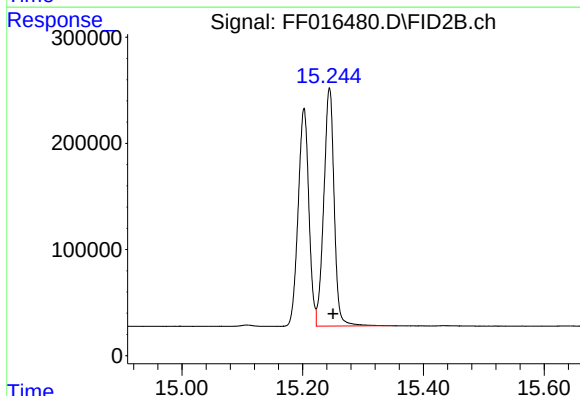
R.T.: 13.319 min  
Delta R.T.: -0.006 min  
Response: 2720548  
Conc: 18.98 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



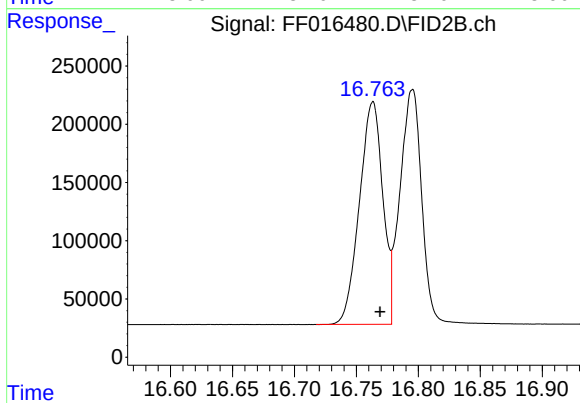
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.202 min  
Delta R.T.: -0.007 min  
Response: 2518448  
Conc: 18.50 ug/ml



#15 Chrysene (C27.41)

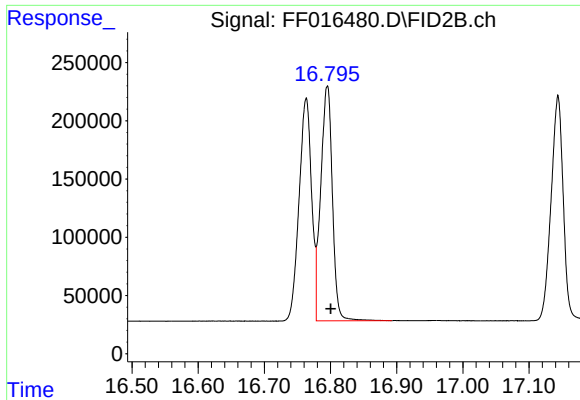
R.T.: 15.244 min  
Delta R.T.: -0.006 min  
Response: 2682933  
Conc: 18.81 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.763 min  
Delta R.T.: -0.006 min  
Response: 2512742  
Conc: 19.12 ug/ml

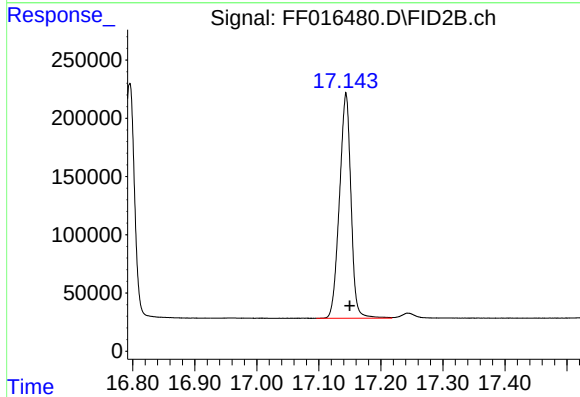




#17 Bnezo[k]fluoranthene (C30.14)

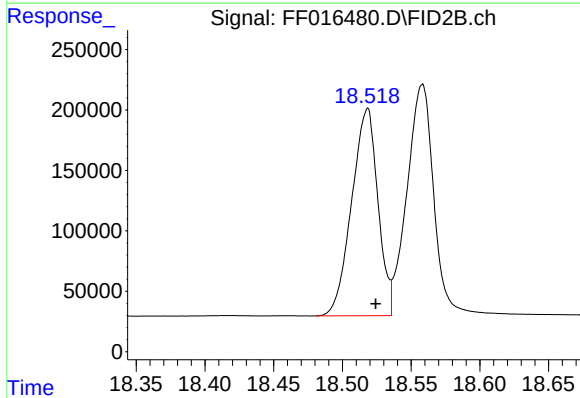
R.T.: 16.795 min  
Delta R.T.: -0.006 min  
Response: 2474262  
Conc: 19.66 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
20 PPM AROMATIC HC STD



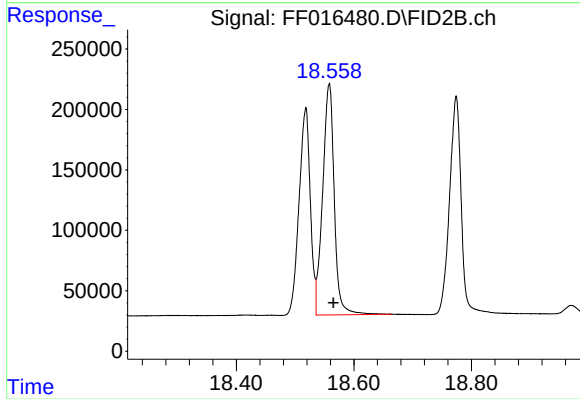
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.144 min  
Delta R.T.: -0.006 min  
Response: 2486548  
Conc: 19.47 ug/ml



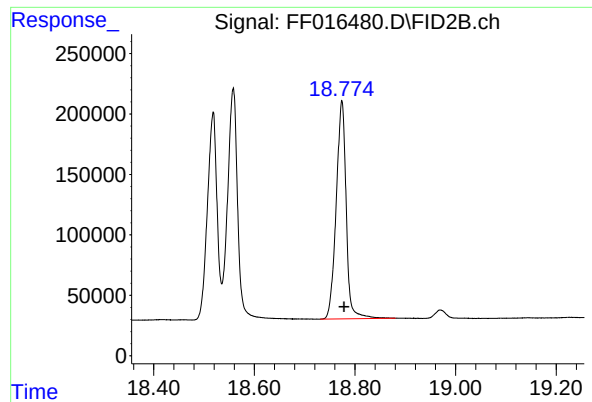
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.518 min  
Delta R.T.: -0.006 min  
Response: 2278345  
Conc: 19.98 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.558 min  
Delta R.T.: -0.007 min  
Response: 2618796  
Conc: 20.06 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.774 min  
Delta R.T.: -0.004 min  
Response: 2492979  
Conc: 20.25 ug/ml

Instrument :

FID\_F

ClientSampleId :

20 PPM AROMATIC HC STD

rteres

Area Percent

## Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016480.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 22:02  
Sample : 20 PPM AROMATIC HC STD  
Misc :  
ALS Vial : 62 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH  
092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.619       | 4.586        | 4.686      | BB       | 298033         | 2881911      | 96.07%         | 5.170%        |
| 2                       | 6.295       | 6.259        | 6.401      | BB       | 303540         | 2960097      | 98.67%         | 5.310%        |
| 3                       | 7.395       | 7.351        | 7.509      | BB       | 289878         | 2999928      | 100.00%        | 5.381%        |
| 4                       | 8.025       | 7.992        | 8.119      | BB       | 245515         | 2540204      | 84.68%         | 4.557%        |
| 5                       | 8.701       | 8.666        | 8.787      | BB       | 286598         | 2895979      | 96.53%         | 5.195%        |
| 6                       | 8.900       | 8.867        | 8.972      | BV       | 158577         | 1719562      | 57.32%         | 3.085%        |
| 7                       | 9.000       | 8.972        | 9.102      | VB       | 289918         | 2937573      | 97.92%         | 5.270%        |
| 8                       | 9.790       | 9.752        | 9.934      | BB       | 261679         | 2921064      | 97.37%         | 5.240%        |
| 9                       | 11.197      | 11.157       | 11.243     | VV       | 258301         | 2867348      | 95.58%         | 5.144%        |
| 10                      | 11.272      | 11.243       | 11.402     | VB       | 200928         | 2418954      | 80.63%         | 4.339%        |
| 11                      | 11.968      | 11.919       | 12.036     | BB       | 268884         | 2999184      | 99.98%         | 5.380%        |
| 12                      | 13.020      | 12.987       | 13.124     | BB       | 240798         | 2819110      | 93.97%         | 5.057%        |
| 13                      | 13.319      | 13.274       | 13.360     | BV       | 234940         | 2720548      | 90.69%         | 4.880%        |
| 14                      | 15.202      | 15.162       | 15.222     | BV       | 205443         | 2518448      | 83.95%         | 4.518%        |
| 15                      | 15.244      | 15.222       | 15.347     | VB       | 224458         | 2682933      | 89.43%         | 4.813%        |
| 16                      | 16.763      | 16.717       | 16.778     | BV       | 190910         | 2512742      | 83.76%         | 4.507%        |
| 17                      | 16.795      | 16.778       | 16.892     | VB       | 202438         | 2474262      | 82.48%         | 4.438%        |
| 18                      | 17.144      | 17.096       | 17.217     | BV       | 193924         | 2486548      | 82.89%         | 4.460%        |
| 19                      | 18.518      | 18.481       | 18.536     | BV       | 170659         | 2278345      | 75.95%         | 4.087%        |
| 20                      | 18.558      | 18.536       | 18.664     | VB       | 191074         | 2618796      | 87.30%         | 4.698%        |
| 21                      | 18.774      | 18.731       | 18.881     | BB       | 180843         | 2492979      | 83.10%         | 4.472%        |
| Sum of corrected areas: |             |              |            |          |                | 55746516     |                |               |

Aromatic EPH 092425.M Tue Sep 30 01:29:44 2025



# QC SAMPLE DATA

## Report of Analysis

|                    |                        |           |                 |       |    |
|--------------------|------------------------|-----------|-----------------|-------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: |       |    |
| Project:           | RFP 916                |           | Date Received:  |       |    |
| Client Sample ID:  | PB169879BL             |           | SDG No.:        | Q3179 |    |
| Lab Sample ID:     | PB169879BL             |           | Matrix:         | Water |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0     |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000  | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH   |    |
| Prep Method :      | SW3510                 |           |                 |       |    |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 09/29/25 08:30 | 09/30/25 6:05   | PB169879      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |       |            |
| Aliphatic C9-C12   | Aliphatic C9-C12   | 8.28  | U         | 1        | 8.28 | 30.0       | ug/l  | FE056073.D |
| Aliphatic C12-C16  | Aliphatic C12-C16  | 13.5  | U         | 1        | 13.5 | 20.0       | ug/l  | FE056073.D |
| Aliphatic C16-C21  | Aliphatic C16-C21  | 8.34  | U         | 1        | 8.34 | 30.0       | ug/l  | FE056073.D |
| Aliphatic C21-C28  | Aliphatic C21-C28  | 12.5  | U         | 1        | 12.5 | 40.0       | ug/l  | FE056073.D |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 23.8  | U         | 1        | 23.8 | 60.0       | ug/l  | FE056073.D |
| Aromatic C10-C12   | Aromatic C10-C12   | 2.07  | U         | 1        | 2.07 | 20.0       | ug/l  | FF016470.D |
| Aromatic C12-C16   | Aromatic C12-C16   | 4.26  | U         | 1        | 4.26 | 30.0       | ug/l  | FF016470.D |
| Aromatic C16-C21   | Aromatic C16-C21   | 8.27  | U         | 1        | 8.27 | 50.0       | ug/l  | FF016470.D |
| Aromatic C21-C36   | Aromatic C21-C36   | 23.8  | U         | 1        | 23.8 | 80.0       | ug/l  | FF016470.D |
| Total AliphaticEPH | Total AliphaticEPH | 66.4  | U         |          | 66.4 | 180        | ug/l  |            |
| Total AromaticEPH  | Total AromaticEPH  | 38.4  | U         |          | 38.4 | 180        | ug/l  |            |
| Total EPH          | Total EPH          | 105   | U         |          | 105  | 360        | ug/l  |            |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

## Report of Analysis

|                    |                        |           |                 |       |    |
|--------------------|------------------------|-----------|-----------------|-------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: |       |    |
| Project:           | RFP 916                |           | Date Received:  |       |    |
| Client Sample ID:  | PB169879BL             |           | SDG No.:        | Q3179 |    |
| Lab Sample ID:     | PB169879BL             |           | Matrix:         | Water |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0     |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000  | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH   |    |
| Prep Method :      | SW3510                 |           |                 |       |    |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE056073.D | 1         | 09/29/25    | 09/30/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C12  | Aliphatic C9-C12          | 8.28  | U         | 8.28     | 30.0       | ug/l    |
| Aliphatic C12-C16 | Aliphatic C12-C16         | 13.5  | U         | 13.5     | 20.0       | ug/l    |
| Aliphatic C16-C21 | Aliphatic C16-C21         | 8.34  | U         | 8.34     | 30.0       | ug/l    |
| Aliphatic C21-C28 | Aliphatic C21-C28         | 12.5  | U         | 12.5     | 40.0       | ug/l    |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 23.8  | U         | 23.8     | 60.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 33.7  |           | 40 - 140 | 67%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 0.00  |           | 40 - 140 | 0%         | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | PB169879BL | Acq On:            | 30 Sep 2025 06:05 |
| Client Sample ID: | PB169879BL | Operator:          | YP\AJ             |
| Data file:        | FE056073.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 44                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc  | highest_standard | Units |
|---------------------------|--------|--------|----------|-------|------------------|-------|
| Aliphatic C9-C12          | 3.315  | 6.946  | 0        | 0     | 300              | ug/ml |
| Aliphatic C12-C16         | 6.947  | 10.396 | 0        | 0     | 200              | ug/ml |
| Aliphatic C16-C21         | 10.397 | 13.773 | 0        | 0     | 300              | ug/ml |
| Aliphatic C21-C28         | 13.774 | 17.443 | 0        | 0     | 400              | ug/ml |
| Aliphatic C28-C40         | 17.444 | 22.449 | 0        | 0     | 600              | ug/ml |
| Aliphatic EPH             | 3.315  | 22.449 | 0        | 0     |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 0.000  | 0.000  | 0        | 0     |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.511 | 13.511 | 4700764  | 33.68 |                  | ug/ml |
| Aliphatic C9-C28          | 3.315  | 17.443 | 0        | 0     | 1200             | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056073.D  
 Signal(s) : FID1B.ch  
 Acq On : 30 Sep 2025 06:05  
 Operator : YP\AJ  
 Sample : PB169879BL  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 PB169879BL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
 Quant Time: Sep 30 07:24:47 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:55:37 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units    |
|--------------------------------|--------|------------|---------------|
| -----                          |        |            |               |
| System Monitoring Compounds    |        |            |               |
| 12) S 1-chlorooctadecane (S... | 13.511 | 4700764    | 33.681 ug/mlm |
| Spiked Amount 50.000           |        | Recovery = | 67.36%        |
| Target Compounds               |        |            |               |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056073.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 06:05  
Operator : YP\AJ  
Sample : PB169879BL  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

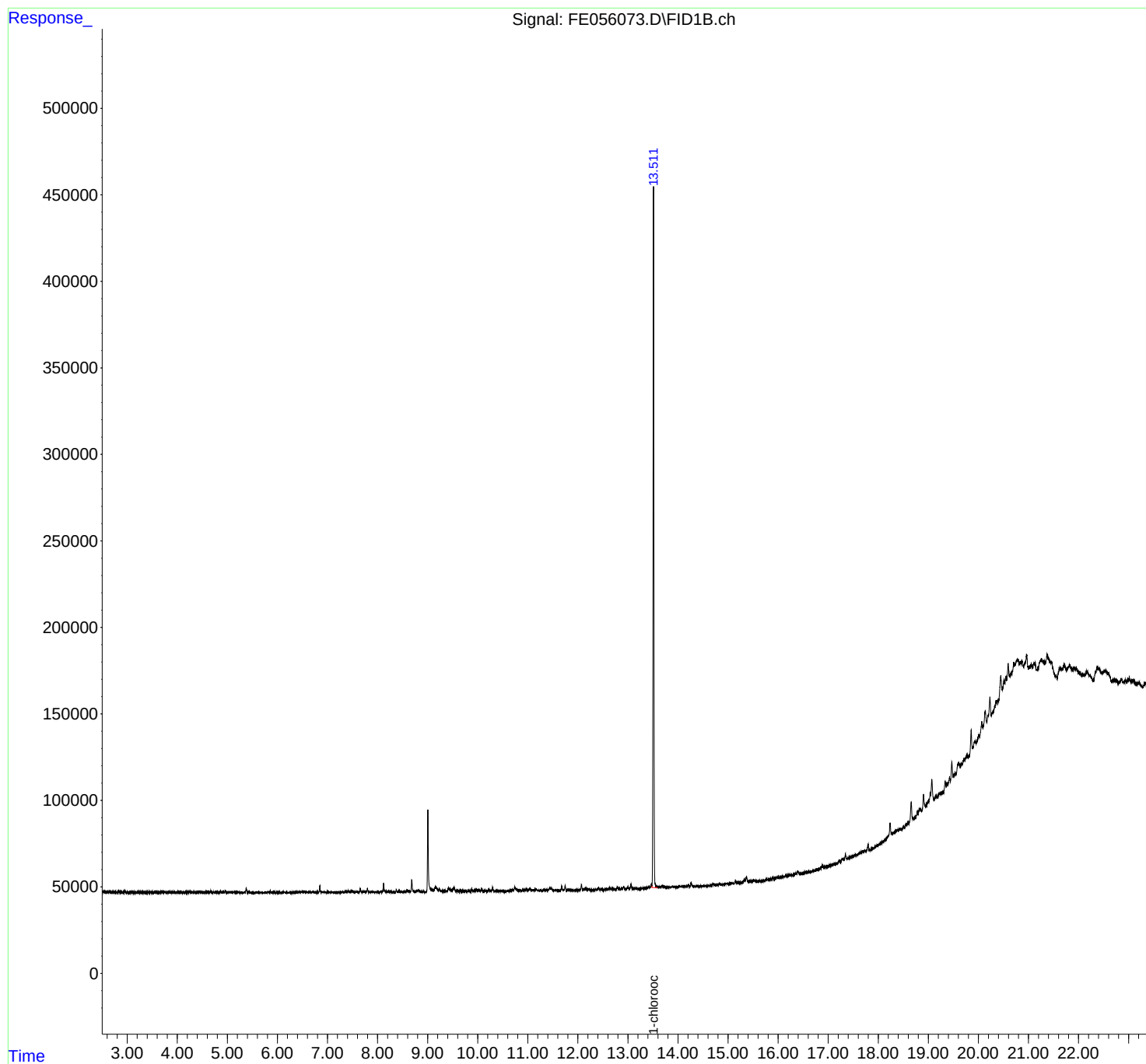
Instrument :  
FID\_E  
ClientSampleId :  
PB169879BL

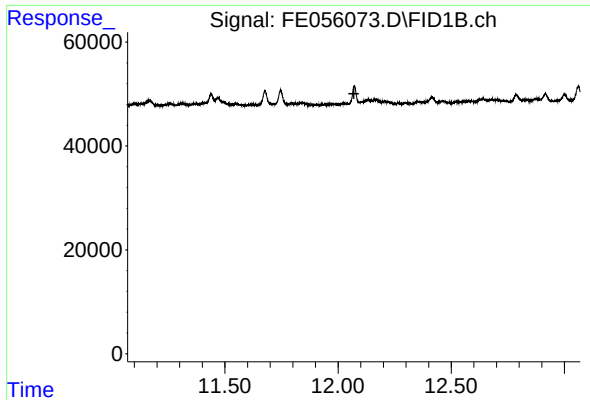
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
Quant Time: Sep 30 07:24:47 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um





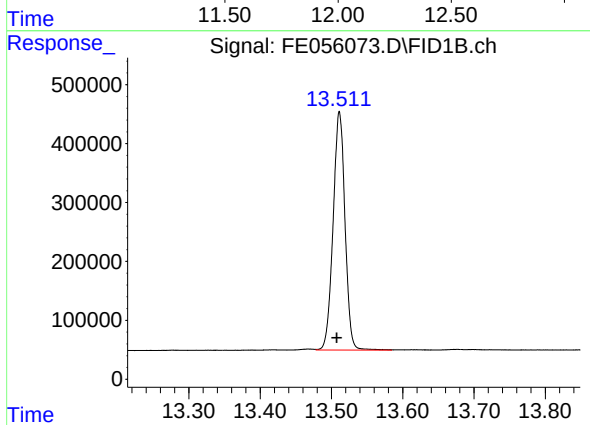
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min  
Exp R.T.: 12.070 min  
Response: 0  
Conc: N.D.

Instrument :  
FID\_E  
ClientSampleId :  
PB169879BL

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



#12 1-chlorooctadecane (SURR)

R.T.: 13.511 min  
Delta R.T.: 0.003 min  
Response: 4700764  
Conc: 33.68 ug/ml m

rteres.txt

Instrument :

FID\_E

ClientSampleId :

PB169879BL

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025

Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE09292  
Data File : FE056073.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 06:05  
Sample : PB169879BL  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 13.511      | 13.375       | 13.587     | BB       | 403658         | 4717078      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 4717078      |                |               |

Aliphatic EPH 092425.M Tue Sep 30 08:13:22 2025

## Report of Analysis

|                    |                        |           |                 |         |
|--------------------|------------------------|-----------|-----------------|---------|
| Client:            | Weston Solutions, Inc. |           | Date Collected: |         |
| Project:           | RFP 916                |           | Date Received:  |         |
| Client Sample ID:  | PB169879BL             |           | SDG No.:        | Q3179   |
| Lab Sample ID:     | PB169879BL             |           | Matrix:         | Water   |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0       |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000 uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH     |
| Prep Method :      | SW3510                 |           |                 |         |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FF016470.D | 1         | 09/29/25    | 09/29/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aromatic C10-C12  | Aromatic C10-C12          | 2.07  | U         | 2.07     | 20.0       | ug/l    |
| Aromatic C12-C16  | Aromatic C12-C16          | 4.26  | U         | 4.26     | 30.0       | ug/l    |
| Aromatic C16-C21  | Aromatic C16-C21          | 8.27  | U         | 8.27     | 50.0       | ug/l    |
| Aromatic C21-C36  | Aromatic C21-C36          | 23.8  | U         | 23.8     | 80.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 580-13-2          | 2-Bromonaphthalene (SURR) | 47.4  |           | 40 - 140 | 95%        | SPK: 50 |
| 321-60-8          | 2-Fluorobiphenyl (SURR)   | 42.4  |           | 40 - 140 | 85%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 38.5  |           | 40 - 140 | 77%        | SPK: 50 |

## Quantitation Report For Aromatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | PB169879BL | Acq On:            | 29 Sep 2025 16:35 |
| Client Sample ID: | PB169879BL | Operator:          | YP\AJ             |
| Data file:        | FF016470.D | Misc:              |                   |
| Instrument:       | FID_F      | ALS Vial:          | 81                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                   | R.T.   |        | Response | Conc  | highest_standard | Units |
|----------------------------|--------|--------|----------|-------|------------------|-------|
| Aromatic C10-C12           | 4.521  | 6.397  | 0        | 0     | 200              | ug/ml |
| Aromatic C12-C16           | 6.398  | 9.101  | 0        | 0     | 300              | ug/ml |
| Aromatic C16-C21           | 9.102  | 13.420 | 0        | 0     | 500              | ug/ml |
| Aromatic C21-C36           | 13.421 | 18.876 | 0        | 0     | 800              | ug/ml |
| Aromatic EPH               | 4.521  | 18.876 | 0        | 0     |                  | ug/ml |
| 2-Bromonaphthalene (SURRE) | 8.027  | 8.027  | 5932647  | 47.36 |                  | ug/ml |
| 2-Fluorobiphenyl (SURRE)   | 8.903  | 8.903  | 3577020  | 42.41 |                  | ug/ml |
| ortho-Terphenyl (SURRE)    | 11.972 | 11.972 | 5862005  | 38.45 |                  | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016470.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 16:35  
 Operator : YP\AJ  
 Sample : PB169879BL  
 Misc :  
 ALS Vial : 81 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 PB169879BL

Integration File: autoint1.e  
 Quant Time: Sep 30 01:03:48 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.027  | 5932647    | 47.360 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 94.72%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.903  | 3577020    | 42.412 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 84.82%       |
| 11) S ortho-Terphenyl (SURR)       | 11.972 | 5862005    | 38.452 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 76.90%       |

Target Compounds

-----

(f)=RT Delta > 1/2 Window

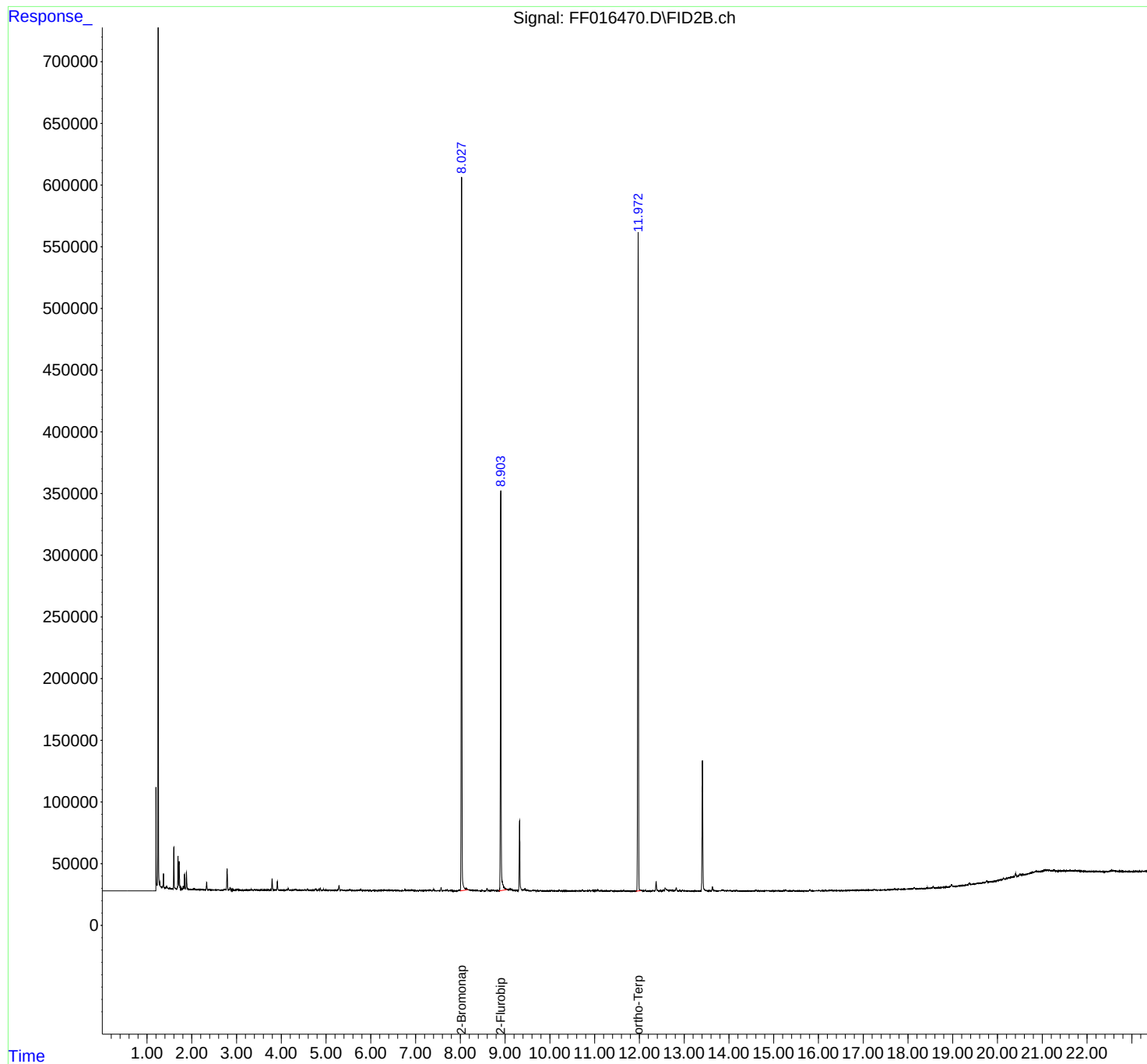
(m)=manual int.

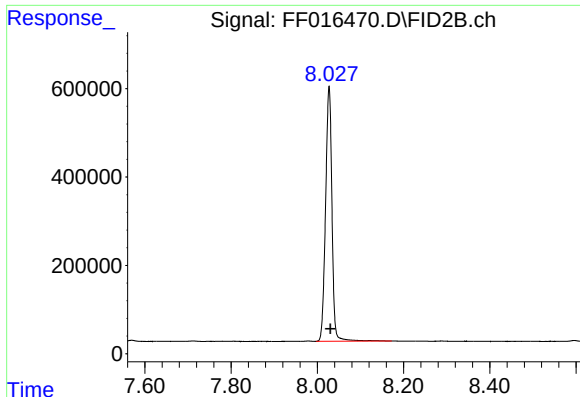
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016470.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 16:35  
Operator : YP\AJ  
Sample : PB169879BL  
Misc :  
ALS Vial : 81 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
PB169879BL

Integration File: autoint1.e  
Quant Time: Sep 30 01:03:48 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:24:48 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

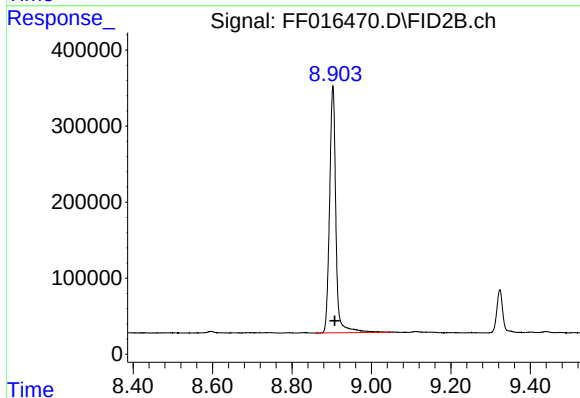




#4 2-Bromonaphthalene (SURRE)

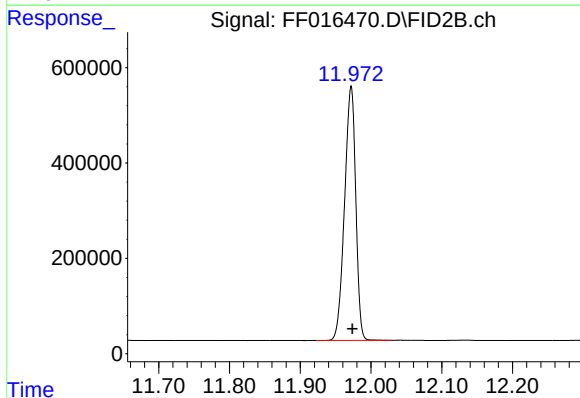
R.T.: 8.027 min  
Delta R.T.: -0.003 min  
Response: 5932647  
Conc: 47.36 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB169879BL



#6 2-Fluorobiphenyl (SURRE)

R.T.: 8.903 min  
Delta R.T.: -0.005 min  
Response: 3577020  
Conc: 42.41 ug/ml



#11 ortho-Terphenyl (SURRE)

R.T.: 11.972 min  
Delta R.T.: -0.002 min  
Response: 5862005  
Conc: 38.45 ug/ml



## Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016470.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 16:35  
Sample : PB169879BL  
Misc :  
ALS Vial : 81 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH  
092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 8.027       | 7.997        | 8.172      | PB       | 579312         | 5932647      | 100.00%        | 38.595%       |
| 2                       | 8.903       | 8.861        | 9.051      | BB       | 323486         | 3577020      | 60.29%         | 23.270%       |
| 3                       | 11.972      | 11.922       | 12.029     | BB       | 535793         | 5862005      | 98.81%         | 38.135%       |
| Sum of corrected areas: |             |              |            |          |                | 15371672     |                |               |

Aromatic EPH 092425.M Tue Sep 30 01:26:50 2025

## Report of Analysis

|                    |                        |           |                 |       |    |
|--------------------|------------------------|-----------|-----------------|-------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: |       |    |
| Project:           | RFP 916                |           | Date Received:  |       |    |
| Client Sample ID:  | PB169879BS             |           | SDG No.:        | Q3179 |    |
| Lab Sample ID:     | PB169879BS             |           | Matrix:         | Water |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0     |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000  | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH   |    |
| Prep Method :      | SW3510                 |           |                 |       |    |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 09/29/25 08:30 | 09/30/25 6:36   | PB169879      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |       |            |
| Aliphatic C9-C12   | Aliphatic C9-C12   | 135   |           | 1        | 8.28 | 30.0       | ug/l  | FE056074.D |
| Aliphatic C12-C16  | Aliphatic C12-C16  | 131   |           | 1        | 13.5 | 20.0       | ug/l  | FE056074.D |
| Aliphatic C16-C21  | Aliphatic C16-C21  | 232   |           | 1        | 8.34 | 30.0       | ug/l  | FE056074.D |
| Aliphatic C21-C28  | Aliphatic C21-C28  | 308   |           | 1        | 12.5 | 40.0       | ug/l  | FE056074.D |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 513   |           | 1        | 23.8 | 60.0       | ug/l  | FE056074.D |
| Aromatic C10-C12   | Aromatic C10-C12   | 160   |           | 1        | 2.07 | 20.0       | ug/l  | FF016471.D |
| Aromatic C12-C16   | Aromatic C12-C16   | 266   |           | 1        | 4.26 | 30.0       | ug/l  | FF016471.D |
| Aromatic C16-C21   | Aromatic C16-C21   | 469   |           | 1        | 8.27 | 50.0       | ug/l  | FF016471.D |
| Aromatic C21-C36   | Aromatic C21-C36   | 747   |           | 1        | 23.8 | 80.0       | ug/l  | FF016471.D |
| Total AliphaticEPH | Total AliphaticEPH | 1320  |           |          | 66.4 | 180        | ug/l  |            |
| Total AromaticEPH  | Total AromaticEPH  | 1640  |           |          | 38.4 | 180        | ug/l  |            |
| Total EPH          | Total EPH          | 2960  |           |          | 105  | 360        | ug/l  |            |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

## Report of Analysis

|                    |                        |           |                 |         |
|--------------------|------------------------|-----------|-----------------|---------|
| Client:            | Weston Solutions, Inc. |           | Date Collected: |         |
| Project:           | RFP 916                |           | Date Received:  |         |
| Client Sample ID:  | PB169879BS             |           | SDG No.:        | Q3179   |
| Lab Sample ID:     | PB169879BS             |           | Matrix:         | Water   |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0       |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000 uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH     |
| Prep Method :      | SW3510                 |           |                 |         |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE056074.D | 1         | 09/29/25    | 09/30/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C12  | Aliphatic C9-C12          | 135   |           | 8.28     | 30.0       | ug/l    |
| Aliphatic C12-C16 | Aliphatic C12-C16         | 131   |           | 13.5     | 20.0       | ug/l    |
| Aliphatic C16-C21 | Aliphatic C16-C21         | 232   |           | 8.34     | 30.0       | ug/l    |
| Aliphatic C21-C28 | Aliphatic C21-C28         | 308   |           | 12.5     | 40.0       | ug/l    |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 513   |           | 23.8     | 60.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 43.1  |           | 40 - 140 | 86%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 0.00  |           | 40 - 140 | 0%         | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | PB169879BS | Acq On:            | 30 Sep 2025 06:36 |
| Client Sample ID: | PB169879BS | Operator:          | YP\AJ             |
| Data file:        | FE056074.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 45                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.315  | 6.946  | 9459557  | 67.555  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.947  | 10.396 | 10055370 | 65.56   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.397 | 13.773 | 19255750 | 116.083 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.774 | 17.443 | 22923674 | 154.34  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.444 | 22.449 | 34989557 | 256.8   | 600              | ug/ml |
| Aliphatic EPH             | 3.315  | 22.449 | 96683908 | 660.338 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 0.000  | 0.000  | 0        | 0       |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.512 | 13.512 | 6013309  | 43.09   |                  | ug/ml |
| Aliphatic C9-C28          | 3.315  | 17.443 | 61694351 | 403.538 | 1200             | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056074.D  
 Signal(s) : FID1B.ch  
 Acq On : 30 Sep 2025 06:36  
 Operator : YP\AJ  
 Sample : PB169879BS  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 PB169879BS

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
 Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
 Quant Time: Sep 30 07:25:07 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:55:37 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units    |
|--------------------------------|--------|------------|---------------|
| -----                          |        |            |               |
| System Monitoring Compounds    |        |            |               |
| 12) S 1-chlorooctadecane (S... | 13.512 | 6013309    | 43.086 ug/ml  |
| Spiked Amount 50.000           |        | Recovery = | 86.17%        |
| Target Compounds               |        |            |               |
| 1) T n-Nonane (C9)             | 3.413  | 2435500    | 17.778 ug/ml  |
| 2) T n-Decane (C10)            | 4.672  | 3100527    | 22.216 ug/ml  |
| 4) T n-Dodecane (C12)          | 6.848  | 3923530    | 27.336 ug/ml  |
| 6) T n-Tetradecane (C14)       | 8.685  | 4652270    | 31.467 ug/ml  |
| 7) T n-Hexadecane (C16)        | 10.299 | 5403100    | 34.001 ug/ml  |
| 8) T n-Octadecane (C18)        | 11.749 | 6159136    | 36.362 ug/ml  |
| 10) T n-Eicosane (C20)         | 13.064 | 6667862    | 40.225 ug/ml  |
| 11) T n-Heneicosane (C21)      | 13.678 | 6428752    | 39.564 ug/ml  |
| 13) T n-Docosane (C22)         | 14.266 | 6314538    | 39.517 ug/ml  |
| 14) T n-Tetracosane (C24)      | 15.372 | 5923952    | 38.876 ug/ml  |
| 15) T n-Hexacosane (C26)       | 16.396 | 5456075    | 38.253 ug/ml  |
| 16) T n-Octacosane (C28)       | 17.348 | 5229109    | 37.537 ug/ml  |
| 17) T n-Tricontane (C30)       | 18.238 | 5350436    | 36.107 ug/ml  |
| 18) T n-Dotriacontane (C32)    | 19.072 | 5566625    | 37.310 ug/ml  |
| 19) T n-Tetratriacontane (C34) | 19.859 | 5733604    | 40.534 ug/ml  |
| 20) T n-Hexatriacontane (C36)  | 20.601 | 5953243    | 46.375 ug/ml  |
| 21) T n-Octatriacontane (C38)  | 21.378 | 6088588    | 46.357 ug/mlm |
| 22) T n-Tetracontane (C40)     | 22.361 | 5881420    | 49.437 ug/ml  |
| -----                          |        |            |               |

(f)=RT Delta > 1/2 Window

(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056074.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 06:36  
Operator : YP\AJ  
Sample : PB169879BS  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

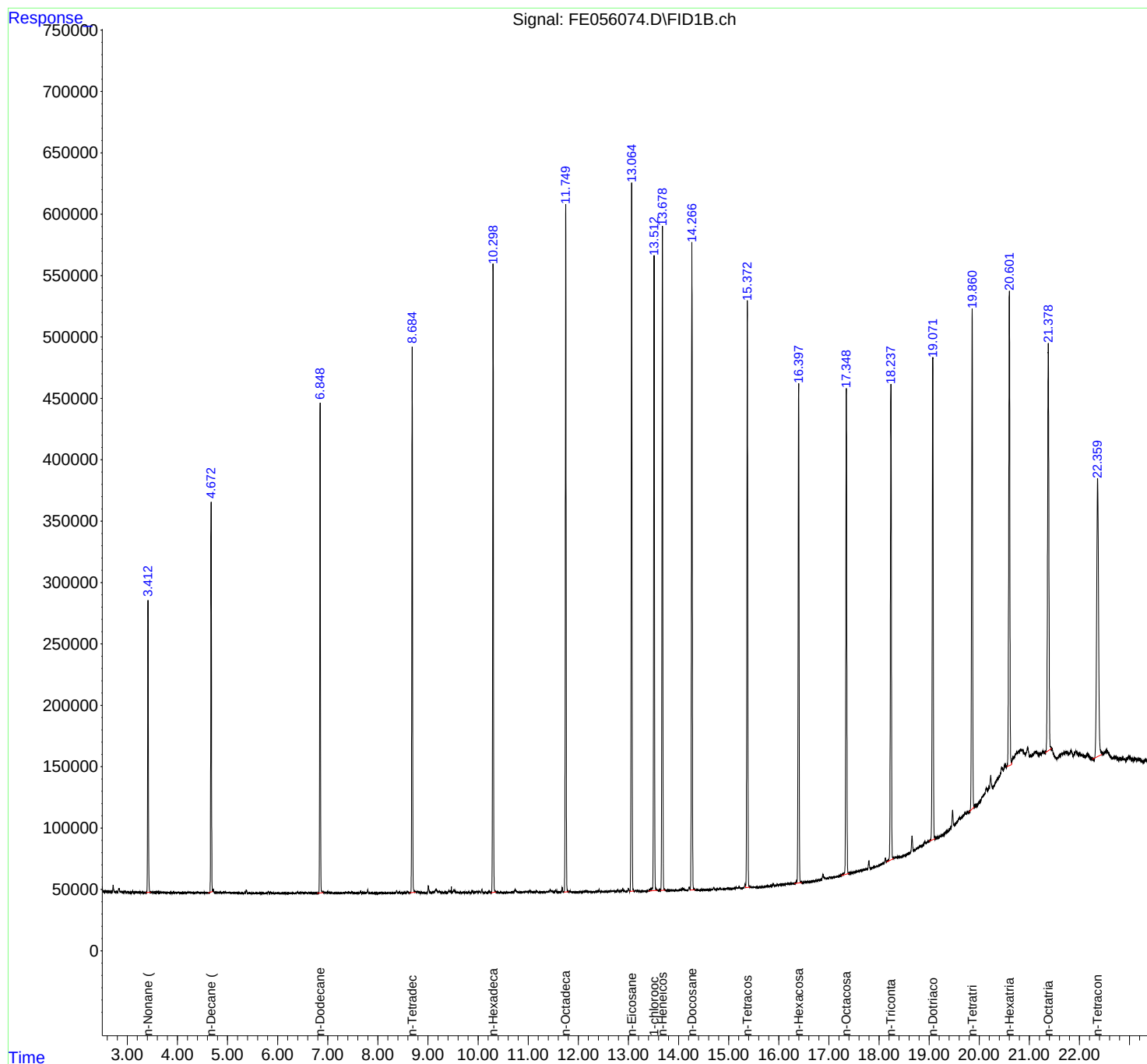
Instrument :  
FID\_E  
ClientSampleId :  
PB169879BS

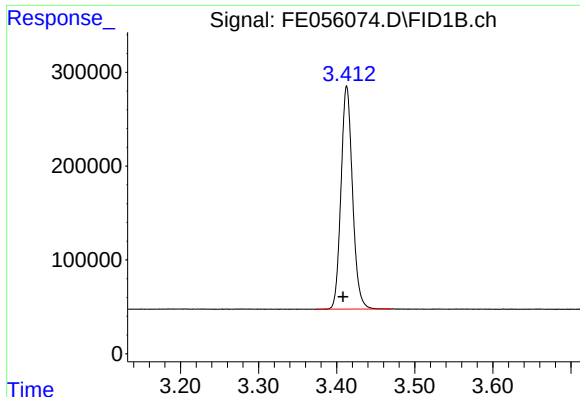
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025

Integration File: autoint1.e  
Quant Time: Sep 30 07:25:07 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um





#1 n-Nonane (C9)

R.T.: 3.413 min  
Delta R.T.: 0.005 min  
Response: 2435500  
Conc: 17.78 ug/ml

Instrument :

FID\_E

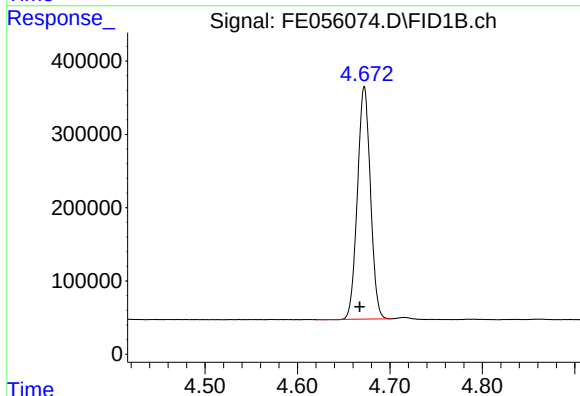
ClientSampleId :

PB169879BS

Manual Integrations

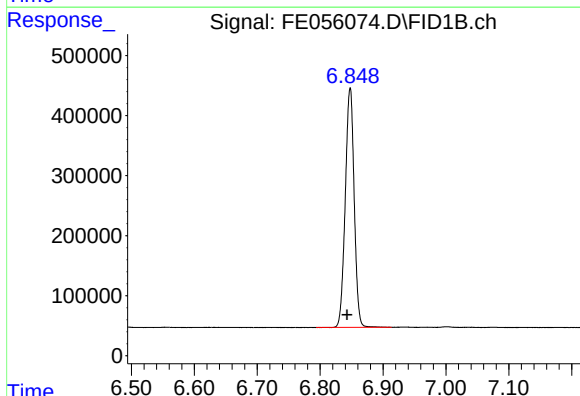
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



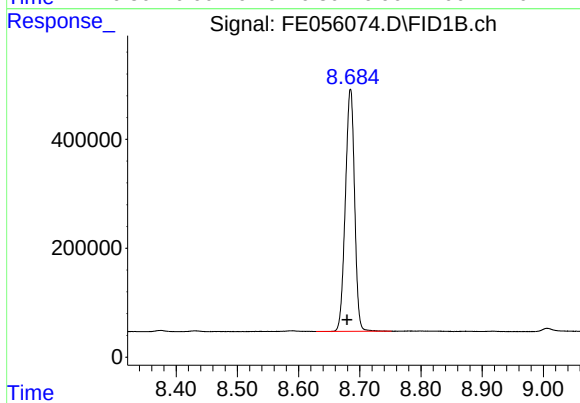
#2 n-Decane (C10)

R.T.: 4.672 min  
Delta R.T.: 0.005 min  
Response: 3100527  
Conc: 22.22 ug/ml



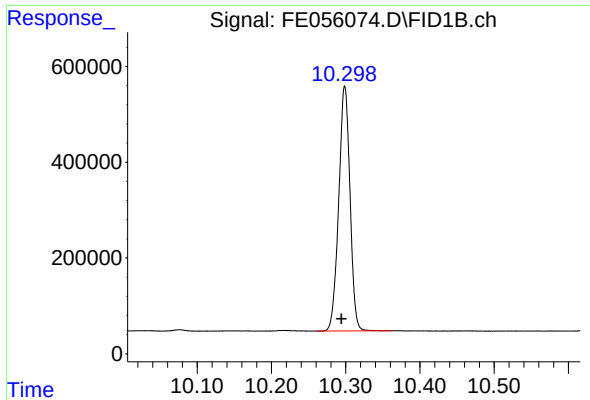
#4 n-Dodecane (C12)

R.T.: 6.848 min  
Delta R.T.: 0.005 min  
Response: 3923530  
Conc: 27.34 ug/ml



#6 n-Tetradecane (C14)

R.T.: 8.685 min  
Delta R.T.: 0.005 min  
Response: 4652270  
Conc: 31.47 ug/ml



#7 n-Hexadecane (C16)

R.T.: 10.299 min  
Delta R.T.: 0.004 min  
Response: 5403100  
Conc: 34.00 ug/ml

Instrument :

FID\_E

ClientSampleId :

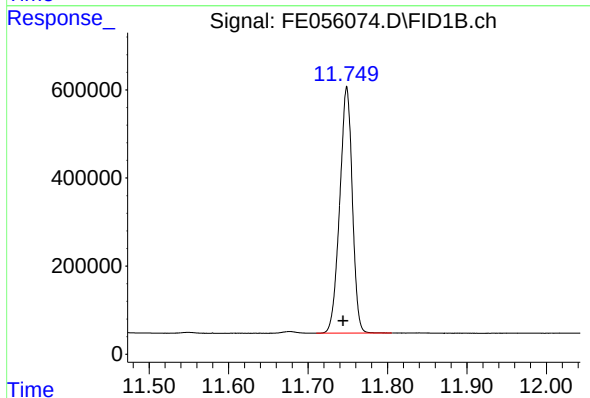
PB169879BS

Manual Integrations

APPROVED

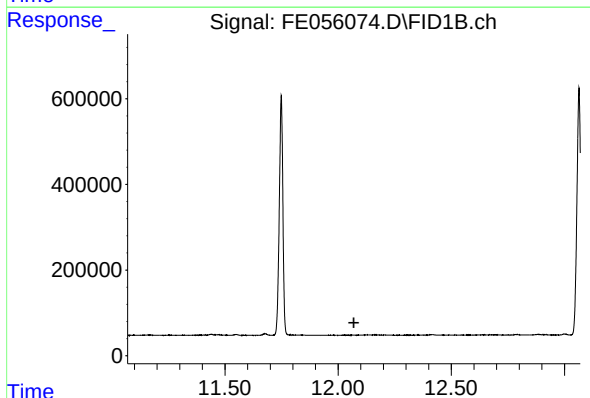
Reviewed By :Yogesh Patel 09/30/2025

Supervised By :mohammad ahmed 10/01/2025



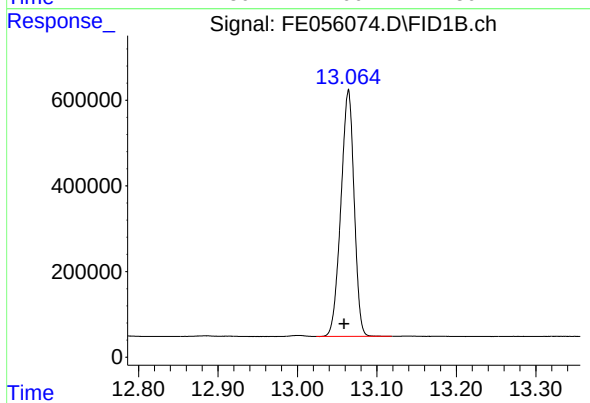
#8 n-Octadecane (C18)

R.T.: 11.749 min  
Delta R.T.: 0.005 min  
Response: 6159136  
Conc: 36.36 ug/ml



#9 ortho-Terphenyl (SURR)

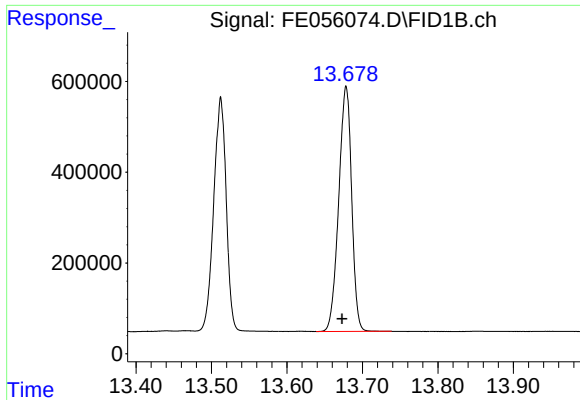
R.T.: 0.000 min  
Exp R.T. : 12.070 min  
Response: 0  
Conc: N.D.



#10 n-Eicosane (C20)

R.T.: 13.064 min  
Delta R.T.: 0.005 min  
Response: 6667862  
Conc: 40.22 ug/ml





#11 n-Heneicosane (C21)

R.T.: 13.678 min  
Delta R.T.: 0.005 min  
Response: 6428752  
Conc: 39.56 ug/ml

Instrument :

FID\_E

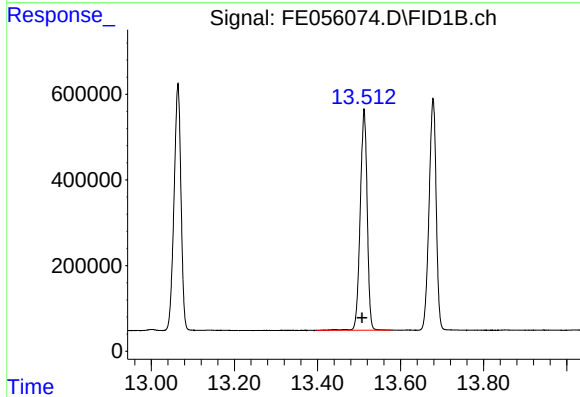
ClientSampleId :

PB169879BS

Manual Integrations

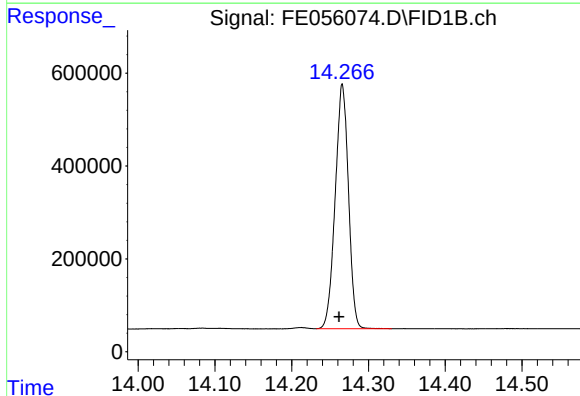
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



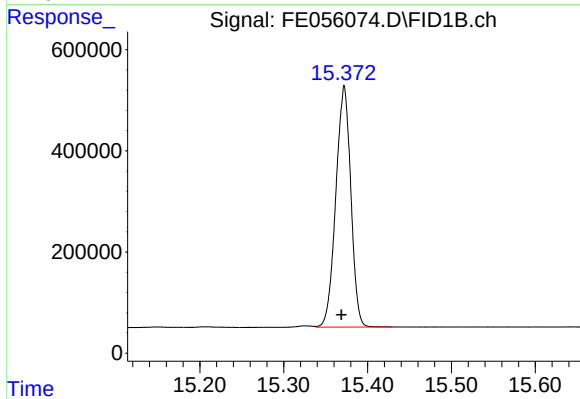
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min  
Delta R.T.: 0.005 min  
Response: 6013309  
Conc: 43.09 ug/ml



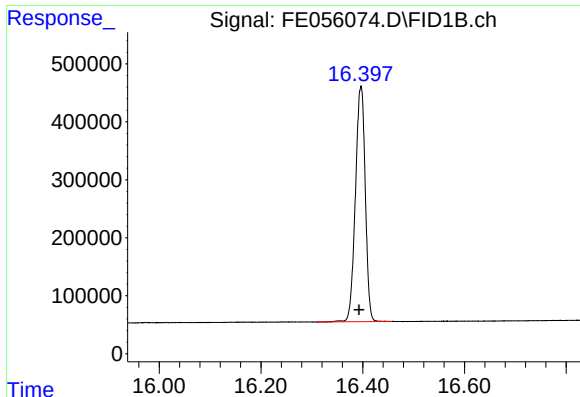
#13 n-Docosane (C22)

R.T.: 14.266 min  
Delta R.T.: 0.005 min  
Response: 6314538  
Conc: 39.52 ug/ml



#14 n-Tetracosane (C24)

R.T.: 15.372 min  
Delta R.T.: 0.003 min  
Response: 5923952  
Conc: 38.88 ug/ml



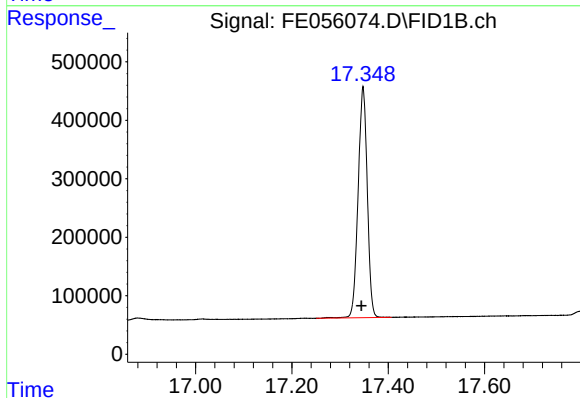
#15 n-Hexacosane (C26)

R.T.: 16.396 min  
Delta R.T.: 0.004 min  
Response: 5456075  
Conc: 38.25 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
PB169879BS

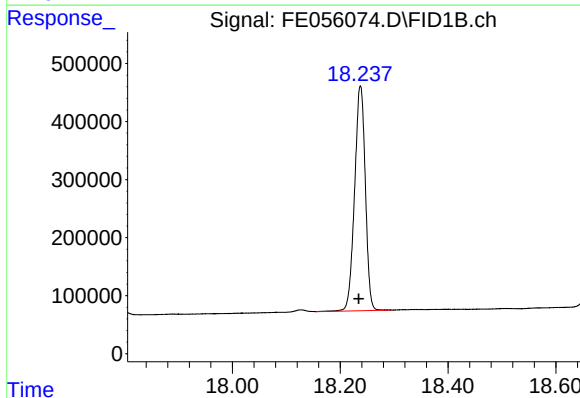
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



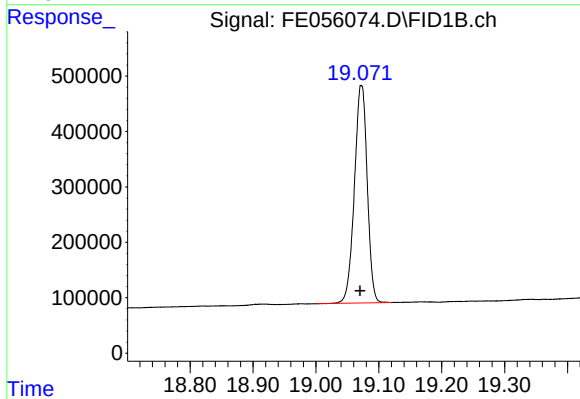
#16 n-Octacosane (C28)

R.T.: 17.348 min  
Delta R.T.: 0.003 min  
Response: 5229109  
Conc: 37.54 ug/ml



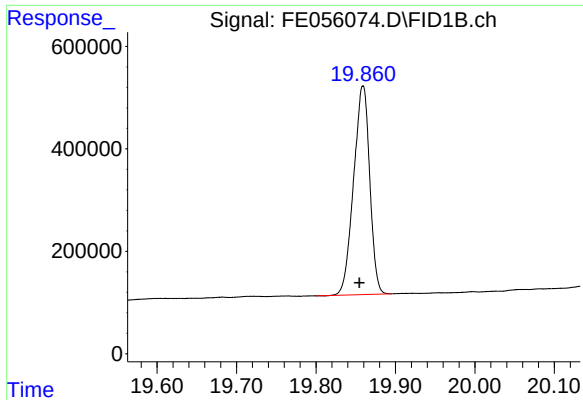
#17 n-Tricontane (C30)

R.T.: 18.238 min  
Delta R.T.: 0.003 min  
Response: 5350436  
Conc: 36.11 ug/ml



#18 n-Dotriacontane (C32)

R.T.: 19.072 min  
Delta R.T.: 0.002 min  
Response: 5566625  
Conc: 37.31 ug/ml



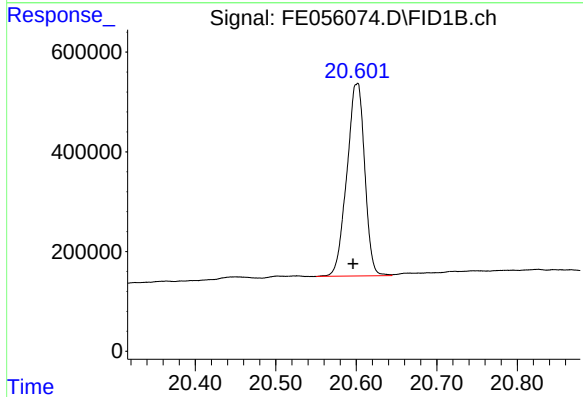
#19 n-Tetratriacontane (C34)

R.T.: 19.859 min  
Delta R.T.: 0.004 min  
Response: 5733604  
Conc: 40.53 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
PB169879BS

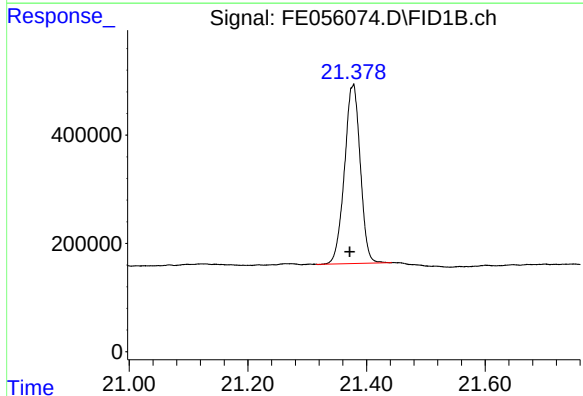
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 09/30/2025  
Supervised By :mohammad ahmed 10/01/2025



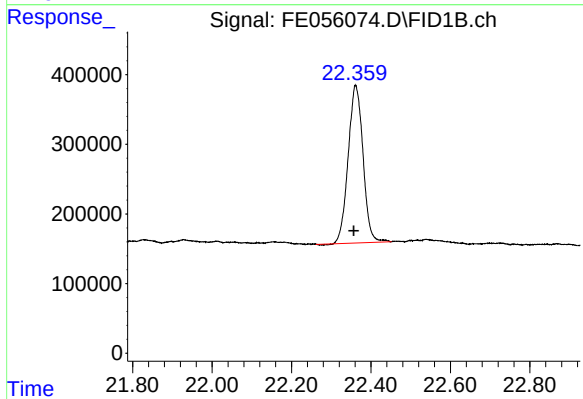
#20 n-Hexatriacontane (C36)

R.T.: 20.601 min  
Delta R.T.: 0.005 min  
Response: 5953243  
Conc: 46.38 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.378 min  
Delta R.T.: 0.007 min  
Response: 6088588  
Conc: 46.36 ug/ml m



#22 n-Tetracontane (C40)

R.T.: 22.361 min  
Delta R.T.: 0.005 min  
Response: 5881420  
Conc: 49.44 ug/ml

rteres.txt

Instrument :

FID\_E

ClientSampleId :

PB169879BS

Area Percent Report

Manual IntegrationsAPPROVED

Reviewed By :Yogesh Patel 09/30/2025

Supervised By :mohammad ahmed 10/01/2025

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE09292  
Data File : FE056074.D  
Signal(s) : FID1B.ch  
Acq On : 30 Sep 2025 06:36  
Sample : PB169879BS  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Title : GC Extractables

Signal : FID1B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 3.413       | 3.374        | 3.470      | BB       | 237400         | 2435500      | 36.53%         | 2.372%        |
| 2                       | 4.672       | 4.620        | 4.702      | BV       | 317085         | 3100527      | 46.50%         | 3.019%        |
| 3                       | 6.848       | 6.794        | 6.914      | BB       | 398490         | 3923530      | 58.84%         | 3.820%        |
| 4                       | 8.685       | 8.629        | 8.752      | BB       | 446114         | 4652270      | 69.77%         | 4.530%        |
| 5                       | 10.299      | 10.260       | 10.362     | BB       | 511659         | 5403100      | 81.03%         | 5.261%        |
| 6                       | 11.749      | 11.710       | 11.805     | BB       | 558554         | 6159136      | 92.37%         | 5.997%        |
| 7                       | 13.064      | 13.024       | 13.119     | PB       | 573196         | 6667862      | 100.00%        | 6.493%        |
| 8                       | 13.512      | 13.397       | 13.579     | BB       | 516678         | 6013309      | 90.18%         | 5.855%        |
| 9                       | 13.678      | 13.639       | 13.739     | BB       | 541185         | 6428752      | 96.41%         | 6.260%        |
| 10                      | 14.266      | 14.232       | 14.330     | VB       | 527753         | 6314538      | 94.70%         | 6.149%        |
| 11                      | 15.372      | 15.339       | 15.429     | VB       | 478387         | 5923952      | 88.84%         | 5.768%        |
| 12                      | 16.396      | 16.309       | 16.457     | BB       | 407098         | 5456075      | 81.83%         | 5.313%        |
| 13                      | 17.348      | 17.250       | 17.407     | BB       | 394222         | 5229109      | 78.42%         | 5.092%        |
| 14                      | 18.238      | 18.155       | 18.295     | VV       | 387460         | 5350436      | 80.24%         | 5.210%        |
| 15                      | 19.072      | 19.000       | 19.120     | BB       | 392478         | 5566625      | 83.48%         | 5.420%        |
| 16                      | 19.859      | 19.800       | 19.895     | BV       | 407794         | 5733604      | 85.99%         | 5.583%        |
| 17                      | 20.601      | 20.550       | 20.644     | BV       | 385078         | 5953243      | 89.28%         | 5.797%        |
| 18                      | 21.377      | 21.300       | 21.540     | BV       | 331835         | 6504229      | 97.55%         | 6.333%        |
| 19                      | 22.361      | 22.262       | 22.452     | BV       | 226471         | 5881420      | 88.21%         | 5.727%        |
| Sum of corrected areas: |             |              |            |          |                | 102697215    |                |               |

Aliphatic EPH 092425.M Tue Sep 30 08:14:23 2025

## Report of Analysis

|                    |                        |           |                 |       |    |
|--------------------|------------------------|-----------|-----------------|-------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: |       |    |
| Project:           | RFP 916                |           | Date Received:  |       |    |
| Client Sample ID:  | PB169879BS             |           | SDG No.:        | Q3179 |    |
| Lab Sample ID:     | PB169879BS             |           | Matrix:         | Water |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0     |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000  | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH   |    |
| Prep Method :      | SW3510                 |           |                 |       |    |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FF016471.D | 1         | 09/29/25    | 09/29/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aromatic C10-C12  | Aromatic C10-C12          | 160   |           | 2.07     | 20.0       | ug/l    |
| Aromatic C12-C16  | Aromatic C12-C16          | 266   |           | 4.26     | 30.0       | ug/l    |
| Aromatic C16-C21  | Aromatic C16-C21          | 469   |           | 8.27     | 50.0       | ug/l    |
| Aromatic C21-C36  | Aromatic C21-C36          | 747   |           | 23.8     | 80.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 580-13-2          | 2-Bromonaphthalene (SURR) | 54.0  |           | 40 - 140 | 108%       | SPK: 50 |
| 321-60-8          | 2-Fluorobiphenyl (SURR)   | 54.4  |           | 40 - 140 | 109%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 45.4  |           | 40 - 140 | 91%        | SPK: 50 |

## Quantitation Report For Aromatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | PB169879BS | Acq On:            | 29 Sep 2025 17:05 |
| Client Sample ID: | PB169879BS | Operator:          | YP\AJ             |
| Data file:        | FF016471.D | Misc:              |                   |
| Instrument:       | FID_F      | ALS Vial:          | 82                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aromatic C10-C12          | 4.521  | 6.397  | 11469188  | 80.024  | 200              | ug/ml |
| Aromatic C12-C16          | 6.398  | 9.101  | 19349655  | 133.275 | 300              | ug/ml |
| Aromatic C16-C21          | 9.102  | 13.420 | 33865528  | 234.895 | 500              | ug/ml |
| Aromatic C21-C36          | 13.421 | 18.876 | 48882281  | 373.62  | 800              | ug/ml |
| Aromatic EPH              | 4.521  | 18.876 | 113566652 | 821.814 |                  | ug/ml |
| 2-Bromonaphthalene (SURR) | 8.028  | 8.028  | 6761441   | 53.98   |                  | ug/ml |
| 2-Fluorobiphenyl (SURR)   | 8.905  | 8.905  | 4591039   | 54.44   |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.972 | 11.972 | 6923797   | 45.42   |                  | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016471.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 17:05  
 Operator : YP\AJ  
 Sample : PB169879BS  
 Misc :  
 ALS Vial : 82 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 PB169879BS

Integration File: autoint1.e  
 Quant Time: Sep 30 01:04:07 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.028  | 6761441    | 53.976 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 107.95%      |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.905  | 4591039    | 54.435 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 108.87%      |
| 11) S ortho-Terphenyl (SURR)       | 11.972 | 6923797    | 45.417 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 90.83%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.621  | 5352626    | 37.972 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.297  | 6116562    | 41.986 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.398  | 5957164    | 40.464 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.705  | 6686342    | 46.139 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.005  | 6706149    | 46.759 ug/ml |
| 8) T Flouorene (C16.55)            | 9.795  | 6915095    | 47.868 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.203 | 6857027    | 47.012 ug/ml |
| 10) T Anthracene (C19.43)          | 11.279 | 6695772    | 46.801 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.027 | 6718611    | 46.002 ug/ml |
| 13) T Pyrene (C20.8)               | 13.326 | 6679023    | 46.608 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.210 | 6281921    | 46.149 ug/ml |
| 15) T Chrysene (C27.41)            | 15.255 | 7217787    | 50.599 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.772 | 6002410    | 45.681 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.807 | 6001192    | 47.678 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.155 | 5801355    | 45.433 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.531 | 6219562    | 54.539 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.570 | 5756376    | 44.093 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.789 | 5601678    | 45.491 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

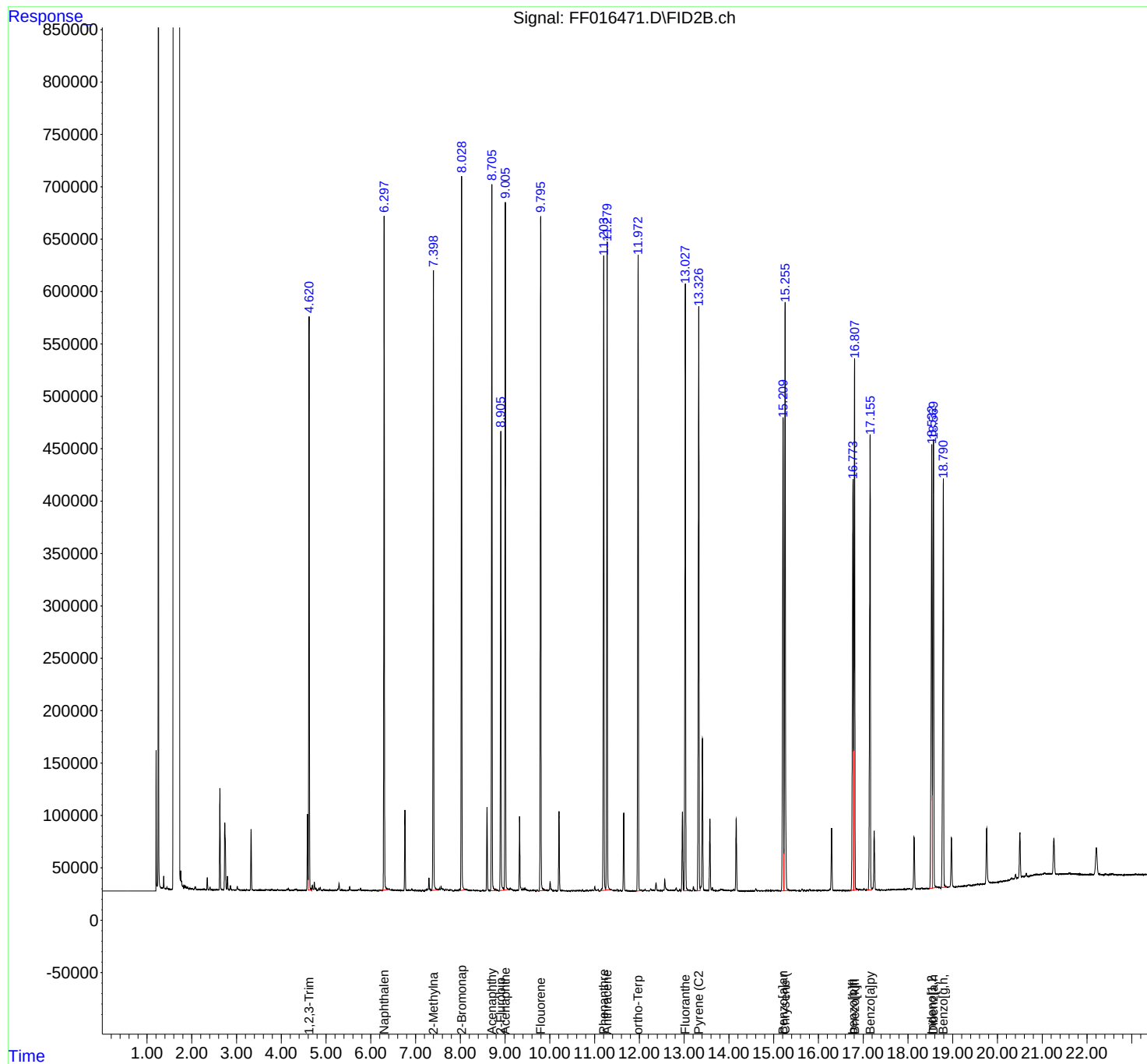
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016471.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 17:05  
Operator : YP\AJ  
Sample : PB169879BS  
Misc :  
ALS Vial : 82 Sample Multiplier: 1

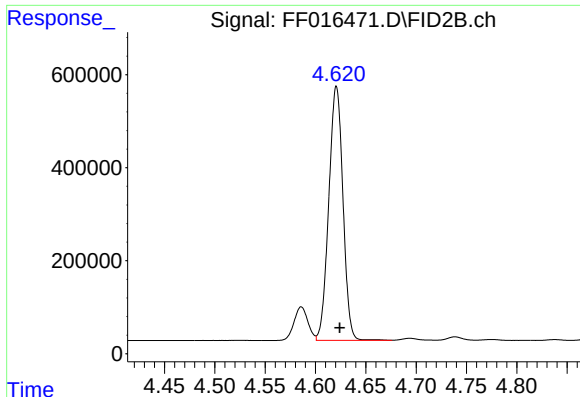
Instrument :  
FID\_F  
ClientSampleId :  
PB169879BS

Integration File: autoint1.e  
Quant Time: Sep 30 01:04:07 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:24:48 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm



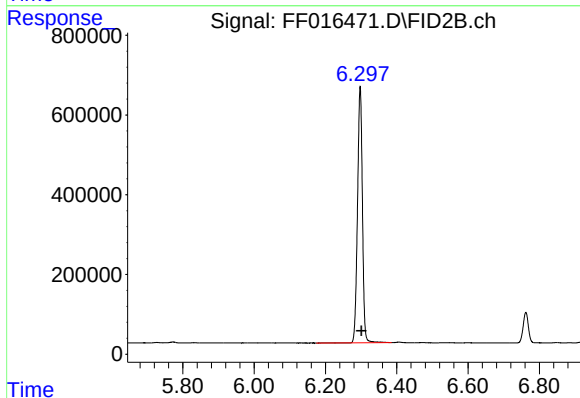




#1 1,2,3-Trimethylbenzene (C10.1)

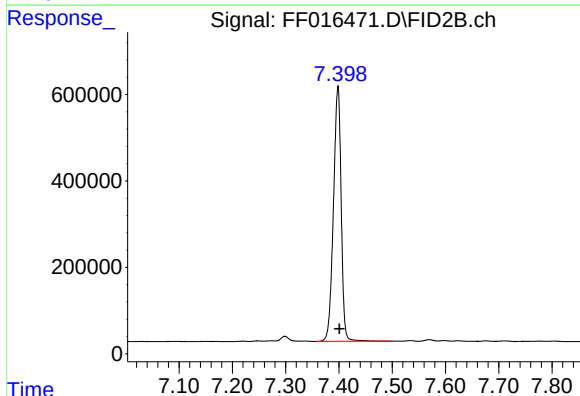
R.T.: 4.621 min  
Delta R.T.: -0.003 min  
Response: 5352626  
Conc: 37.97 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB169879BS



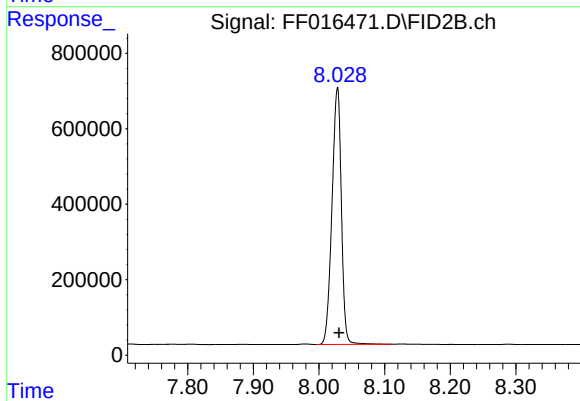
#2 Naphthalene (C11.7)

R.T.: 6.297 min  
Delta R.T.: -0.004 min  
Response: 6116562  
Conc: 41.99 ug/ml



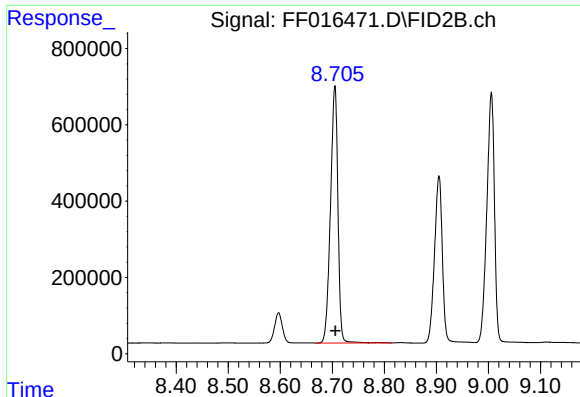
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.398 min  
Delta R.T.: -0.003 min  
Response: 5957164  
Conc: 40.46 ug/ml



#4 2-Bromonaphthalene (SURR)

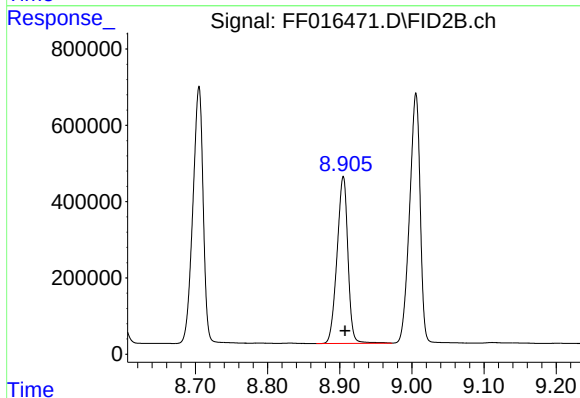
R.T.: 8.028 min  
Delta R.T.: -0.003 min  
Response: 6761441  
Conc: 53.98 ug/ml



#5 Acenaphthylene (C15.06)

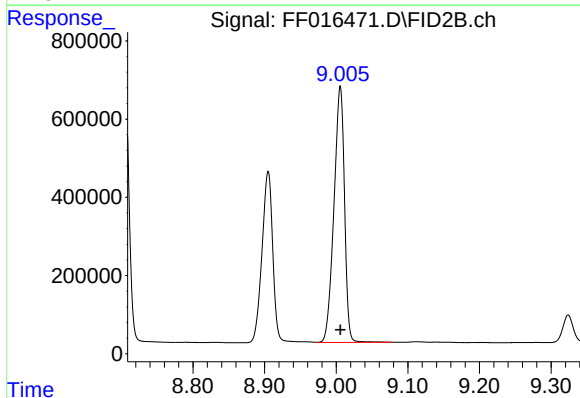
R.T.: 8.705 min  
Delta R.T.: -0.002 min  
Response: 6686342  
Conc: 46.14 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB169879BS



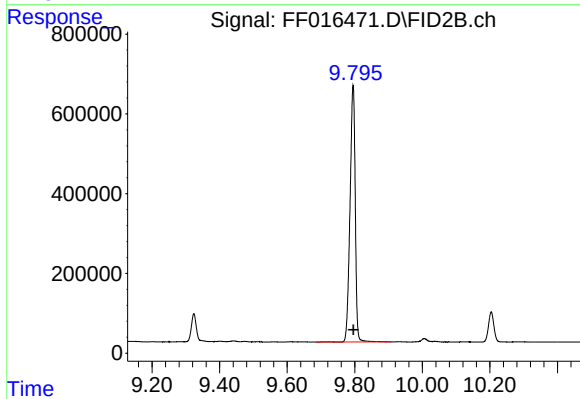
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.905 min  
Delta R.T.: -0.003 min  
Response: 4591039  
Conc: 54.44 ug/ml



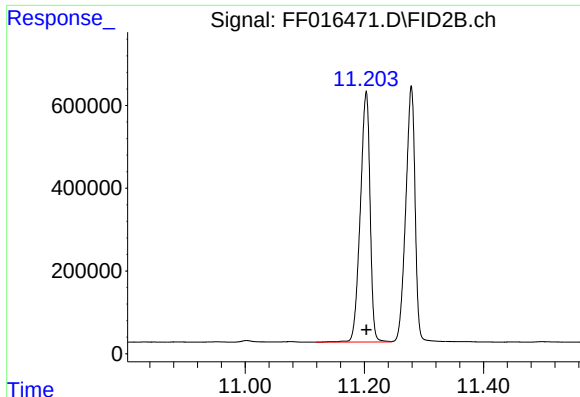
#7 Acenaphthene (C15.5)

R.T.: 9.005 min  
Delta R.T.: 0.000 min  
Response: 6706149  
Conc: 46.76 ug/ml



#8 Flouorene (C16.55)

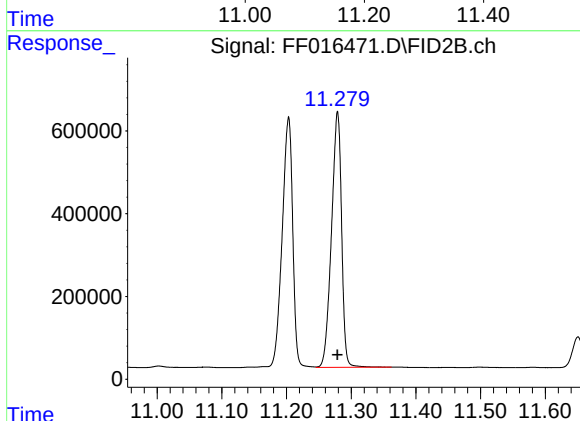
R.T.: 9.795 min  
Delta R.T.: 0.000 min  
Response: 6915095  
Conc: 47.87 ug/ml



#9 Phenanthrene (C19.36)

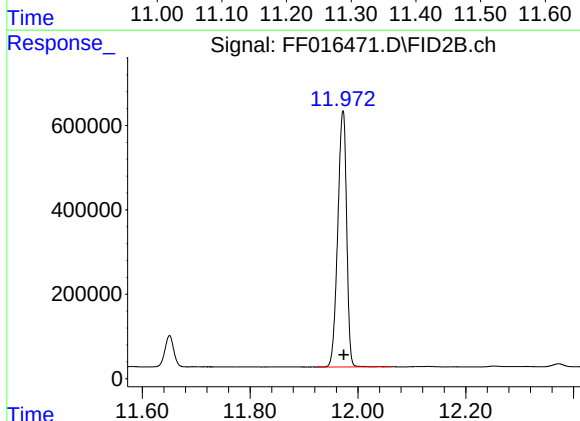
R.T.: 11.203 min  
Delta R.T.: 0.000 min  
Response: 6857027  
Conc: 47.01 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB169879BS



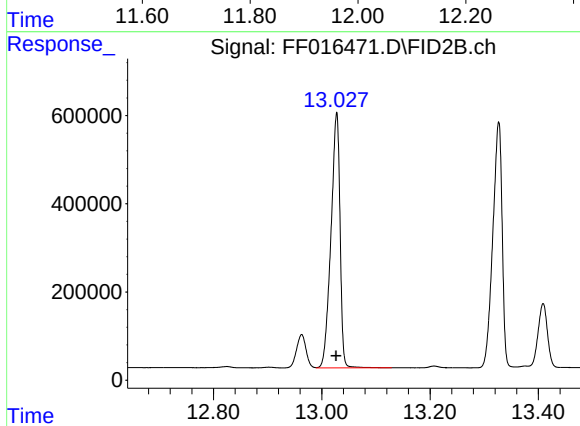
#10 Anthracene (C19.43)

R.T.: 11.279 min  
Delta R.T.: 0.000 min  
Response: 6695772  
Conc: 46.80 ug/ml



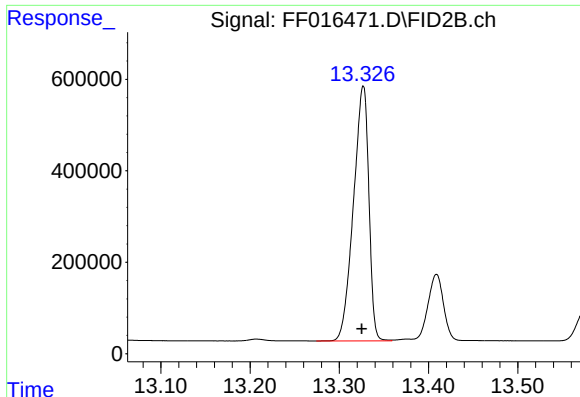
#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min  
Delta R.T.: -0.002 min  
Response: 6923797  
Conc: 45.42 ug/ml



#12 Fluoranthene (C21.85)

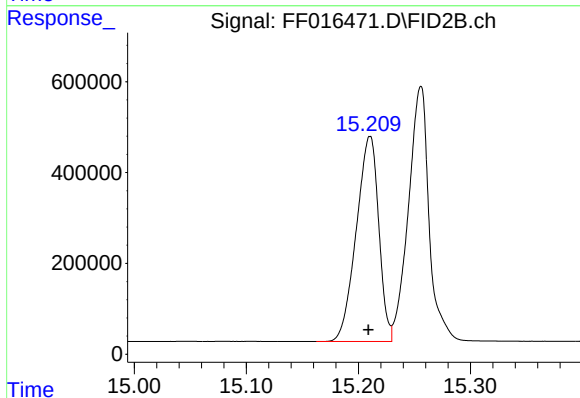
R.T.: 13.027 min  
Delta R.T.: 0.000 min  
Response: 6718611  
Conc: 46.00 ug/ml



#13 Pyrene (C20.8)

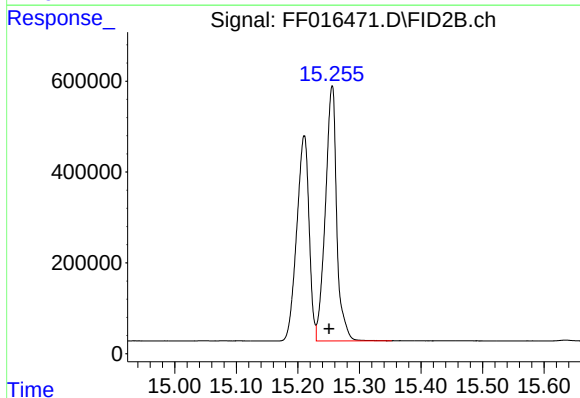
R.T.: 13.326 min  
Delta R.T.: 0.001 min  
Response: 6679023  
Conc: 46.61 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB169879BS



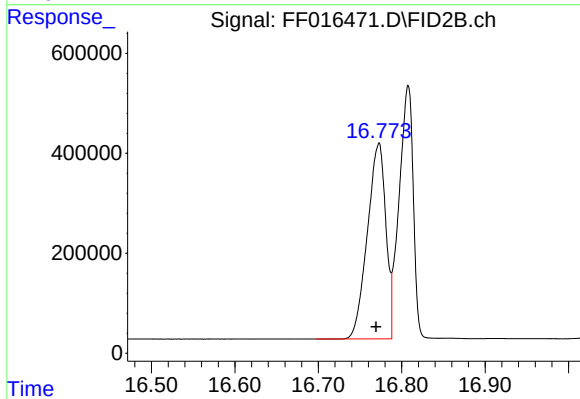
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.210 min  
Delta R.T.: 0.001 min  
Response: 6281921  
Conc: 46.15 ug/ml



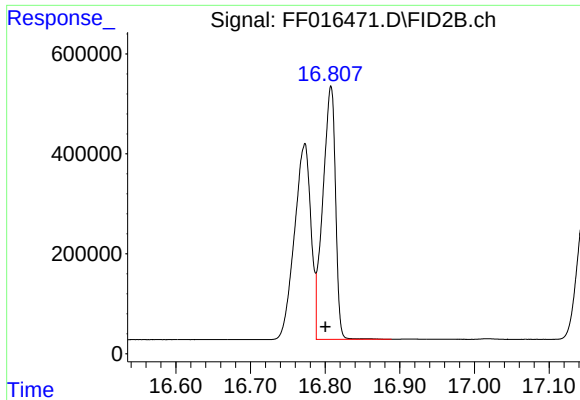
#15 Chrysene (C27.41)

R.T.: 15.255 min  
Delta R.T.: 0.005 min  
Response: 7217787  
Conc: 50.60 ug/ml



#16 benzo[b]fluoranthene (C30.41)

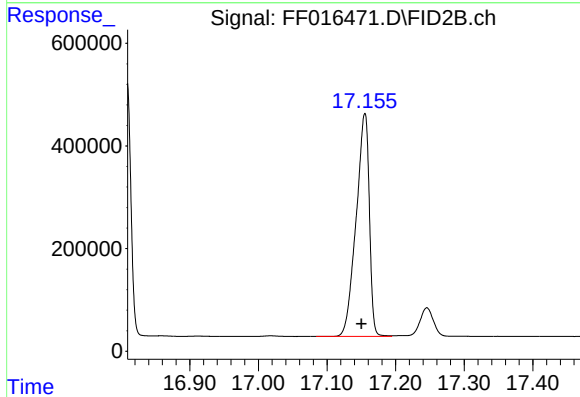
R.T.: 16.772 min  
Delta R.T.: 0.003 min  
Response: 6002410  
Conc: 45.68 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

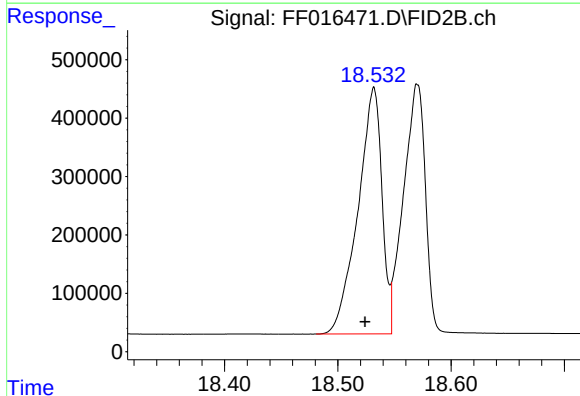
R.T.: 16.807 min  
Delta R.T.: 0.007 min  
Response: 6001192  
Conc: 47.68 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB169879BS



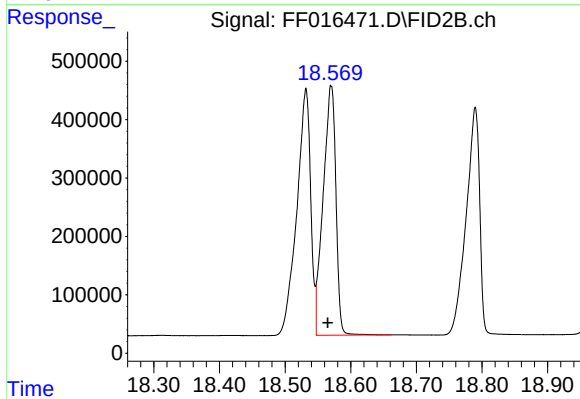
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.155 min  
Delta R.T.: 0.005 min  
Response: 5801355  
Conc: 45.43 ug/ml



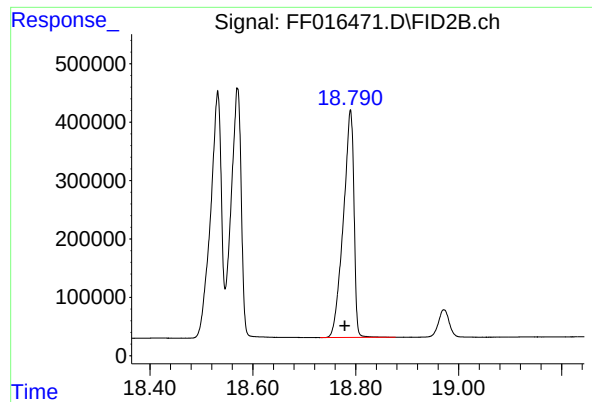
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.531 min  
Delta R.T.: 0.007 min  
Response: 6219562  
Conc: 54.54 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.570 min  
Delta R.T.: 0.005 min  
Response: 5756376  
Conc: 44.09 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.789 min  
Delta R.T.: 0.011 min  
Response: 5601678  
Conc: 45.49 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
PB169879BS

rteres

Area Percent

## Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016471.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 17:05  
Sample : PB169879BS  
Misc :  
ALS Vial : 82 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH  
092425.M  
Title : GC Extractables

Signal : FID2B.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 4.621       | 4.601        | 4.676      | VV       | 547005         | 5352626      | 74.16%         | 4.060%        |
| 2                       | 6.297       | 6.174        | 6.386      | BV       | 643503         | 6116562      | 84.74%         | 4.639%        |
| 3                       | 7.398       | 7.357        | 7.499      | BB       | 587400         | 5957164      | 82.53%         | 4.518%        |
| 4                       | 8.028       | 7.996        | 8.111      | PV       | 678078         | 6761441      | 93.68%         | 5.128%        |
| 5                       | 8.705       | 8.669        | 8.814      | BV       | 670643         | 6686342      | 92.64%         | 5.071%        |
| 6                       | 8.905       | 8.867        | 8.972      | BV       | 437092         | 4591039      | 63.61%         | 3.482%        |
| 7                       | 9.005       | 8.972        | 9.077      | VV       | 657841         | 6706149      | 92.91%         | 5.086%        |
| 8                       | 9.795       | 9.686        | 9.909      | BV       | 647038         | 6915095      | 95.81%         | 5.245%        |
| 9                       | 11.203      | 11.119       | 11.246     | BV       | 601389         | 6857027      | 95.00%         | 5.201%        |
| 10                      | 11.279      | 11.246       | 11.362     | VB       | 620549         | 6695772      | 92.77%         | 5.079%        |
| 11                      | 11.972      | 11.922       | 12.062     | BB       | 608122         | 6923797      | 95.93%         | 5.252%        |
| 12                      | 13.027      | 12.990       | 13.129     | VB       | 579571         | 6718611      | 93.08%         | 5.096%        |
| 13                      | 13.326      | 13.274       | 13.359     | BV       | 557027         | 6679023      | 92.54%         | 5.066%        |
| 14                      | 15.210      | 15.162       | 15.230     | BV       | 452765         | 6281921      | 87.03%         | 4.765%        |
| 15                      | 15.255      | 15.230       | 15.352     | VB       | 563241         | 7217787      | 100.00%        | 5.475%        |
| 16                      | 16.772      | 16.697       | 16.788     | BV       | 391581         | 6002410      | 83.16%         | 4.553%        |
| 17                      | 16.807      | 16.788       | 16.889     | VB       | 508019         | 6001192      | 83.14%         | 4.552%        |
| 18                      | 17.155      | 17.084       | 17.194     | BV       | 434131         | 5801355      | 80.38%         | 4.400%        |
| 19                      | 18.531      | 18.481       | 18.547     | BV       | 420184         | 6219562      | 86.17%         | 4.717%        |
| 20                      | 18.570      | 18.547       | 18.662     | VB       | 427620         | 5756376      | 79.75%         | 4.366%        |
| 21                      | 18.789      | 18.731       | 18.877     | BB       | 390221         | 5601678      | 77.61%         | 4.249%        |
| Sum of corrected areas: |             |              |            |          |                | 131842928    |                |               |

Aromatic EPH 092425.M Tue Sep 30 01:27:59 2025

## Report of Analysis

|                    |                        |           |                 |          |    |
|--------------------|------------------------|-----------|-----------------|----------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: | 09/23/25 |    |
| Project:           | RFP 916                |           | Date Received:  | 09/23/25 |    |
| Client Sample ID:  | EME-TS14-01MS          |           | SDG No.:        | Q3179    |    |
| Lab Sample ID:     | Q3179-02               |           | Matrix:         | Water    |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000     | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH      |    |
| Prep Method :      | SW3510                 |           |                 |          |    |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE056056.D | 1         | 09/29/25    | 09/29/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C12  | Aliphatic C9-C12          | 333   |           | 8.28     | 30.0       | ug/l    |
| Aliphatic C12-C16 | Aliphatic C12-C16         | 293   |           | 13.5     | 20.0       | ug/l    |
| Aliphatic C16-C21 | Aliphatic C16-C21         | 404   |           | 8.34     | 30.0       | ug/l    |
| Aliphatic C21-C28 | Aliphatic C21-C28         | 486   |           | 12.5     | 40.0       | ug/l    |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 1130  |           | 23.8     | 60.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 59.0  |           | 40 - 140 | 118%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 0.00  |           | 40 - 140 | 0%         | SPK: 50 |



## Quantitation Report For Aliphatic EPH Range.

|                   |               |                    |                   |
|-------------------|---------------|--------------------|-------------------|
| Lab Sample ID:    | Q3179-02      | Acq On:            | 29 Sep 2025 20:27 |
| Client Sample ID: | EME-TS14-01MS | Operator:          | YP\AJ             |
| Data file:        | FE056056.D    | Misc:              |                   |
| Instrument:       | FID_E         | ALS Vial:          | 29                |
| Dilution Factor:  | 1             | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.315  | 6.946  | 23325505  | 166.577 | 300              | ug/ml |
| Aliphatic C12-C16         | 6.947  | 10.396 | 22517640  | 146.813 | 200              | ug/ml |
| Aliphatic C16-C21         | 10.397 | 13.773 | 33564962  | 202.345 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.774 | 17.443 | 36153890  | 243.416 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.444 | 22.449 | 77058424  | 565.558 | 600              | ug/ml |
| Aliphatic EPH             | 3.315  | 22.449 | 192620421 | 1320    |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 0.000  | 0.000  | 0         | 0       |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.512 | 13.512 | 8241176   | 59.05   |                  | ug/ml |
| Aliphatic C9-C28          | 3.315  | 17.443 | 115561997 | 759.151 | 1200             | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056056.D  
 Signal(s) : FID1B.ch  
 Acq On : 29 Sep 2025 20:27  
 Operator : YP\AJ  
 Sample : Q3179-02  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 EME-TS14-01MS

Integration File: autoint1.e  
 Quant Time: Sep 30 00:31:41 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:55:37 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units   |
|--------------------------------|--------|------------|--------------|
| -----                          |        |            |              |
| System Monitoring Compounds    |        |            |              |
| 12) S 1-chlorooctadecane (S... | 13.512 | 8241176    | 59.049 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 118.10%      |
| Target Compounds               |        |            |              |
| 1) T n-Nonane (C9)             | 3.417  | 5766711    | 42.095 ug/ml |
| 2) T n-Decane (C10)            | 4.676  | 7141108    | 51.168 ug/ml |
| 4) T n-Dodecane (C12)          | 6.850  | 8564543    | 59.671 ug/ml |
| 6) T n-Tetradecane (C14)       | 8.687  | 9479288    | 64.116 ug/ml |
| 7) T n-Hexadecane (C16)        | 10.301 | 10442627   | 65.715 ug/ml |
| 8) T n-Octadecane (C18)        | 11.750 | 10836487   | 63.976 ug/ml |
| 10) T n-Eicosane (C20)         | 13.066 | 10924367   | 65.903 ug/ml |
| 11) T n-Heneicosane (C21)      | 13.680 | 10172257   | 62.602 ug/ml |
| 13) T n-Docosane (C22)         | 14.267 | 9756059    | 61.055 ug/ml |
| 14) T n-Tetracosane (C24)      | 15.374 | 9010437    | 59.131 ug/ml |
| 15) T n-Hexacosane (C26)       | 16.396 | 8341622    | 58.484 ug/ml |
| 16) T n-Octacosane (C28)       | 17.349 | 8067644    | 57.913 ug/ml |
| 17) T n-Tricontane (C30)       | 18.238 | 8292786    | 55.964 ug/ml |
| 18) T n-Dotriacontane (C32)    | 19.073 | 8500117    | 56.972 ug/ml |
| 19) T n-Tetratriacontane (C34) | 19.859 | 8822187    | 62.369 ug/ml |
| 20) T n-Hexatriacontane (C36)  | 20.601 | 9062793    | 70.599 ug/ml |
| 21) T n-Octatriacontane (C38)  | 21.378 | 9363961    | 71.294 ug/ml |
| 22) T n-Tetracontane (C40)     | 22.361 | 8664314    | 72.829 ug/ml |
| -----                          |        |            |              |

(f)=RT Delta > 1/2 Window

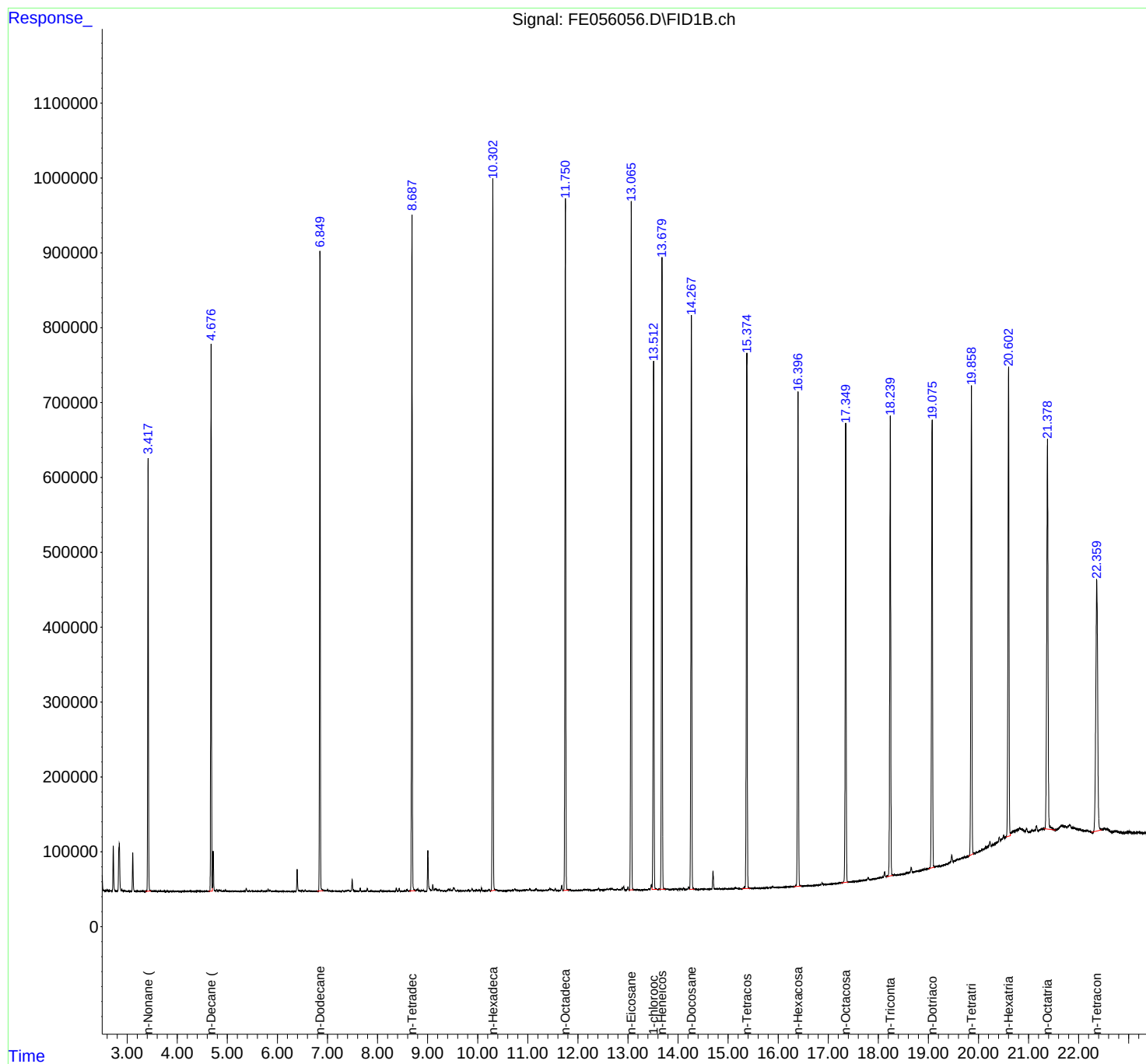
(m)=manual int.

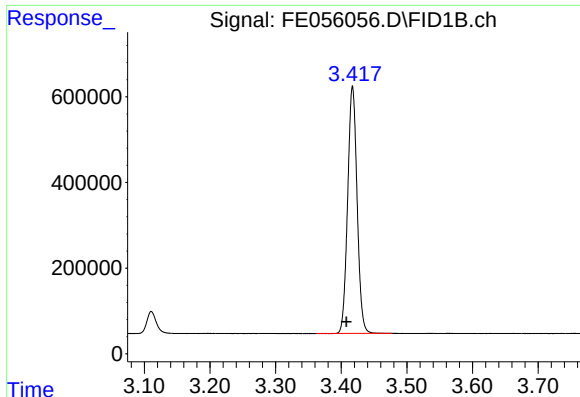
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056056.D  
Signal(s) : FID1B.ch  
Acq On : 29 Sep 2025 20:27  
Operator : YP\AJ  
Sample : Q3179-02  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MS

Integration File: autoint1.e  
Quant Time: Sep 30 00:31:41 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 uL  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

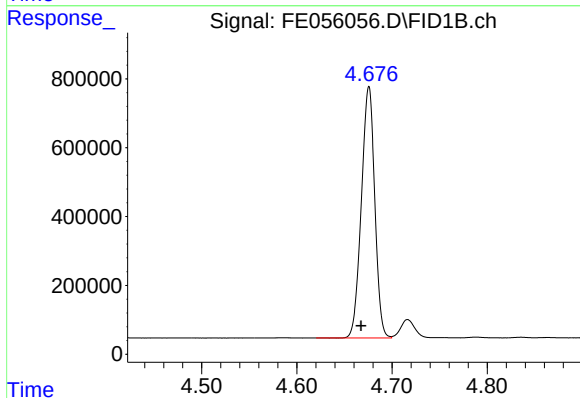




#1 n-Nonane (C9)

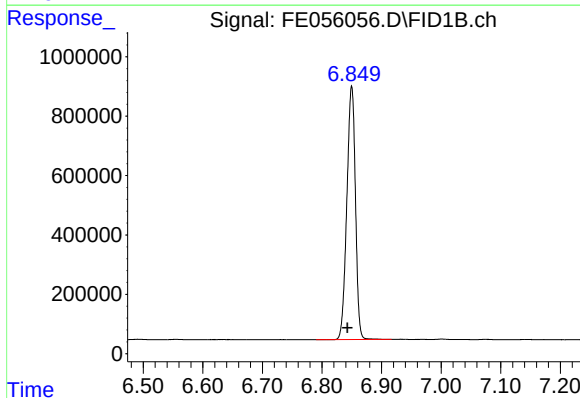
R.T.: 3.417 min  
Delta R.T.: 0.009 min  
Response: 5766711  
Conc: 42.10 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MS



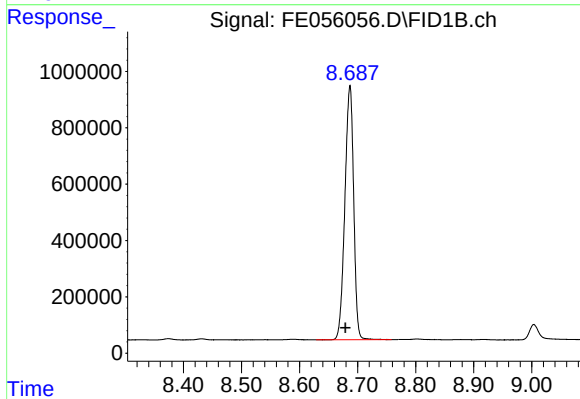
#2 n-Decane (C10)

R.T.: 4.676 min  
Delta R.T.: 0.008 min  
Response: 7141108  
Conc: 51.17 ug/ml



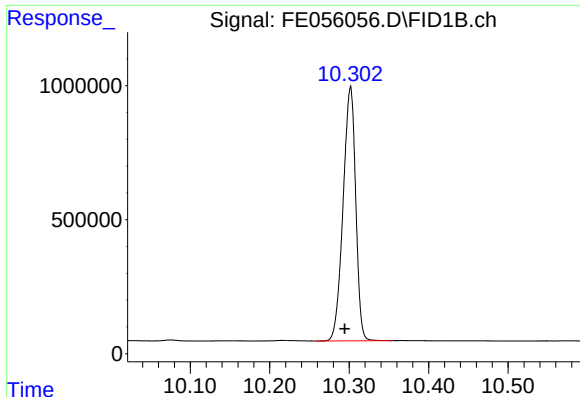
#4 n-Dodecane (C12)

R.T.: 6.850 min  
Delta R.T.: 0.007 min  
Response: 8564543  
Conc: 59.67 ug/ml



#6 n-Tetradecane (C14)

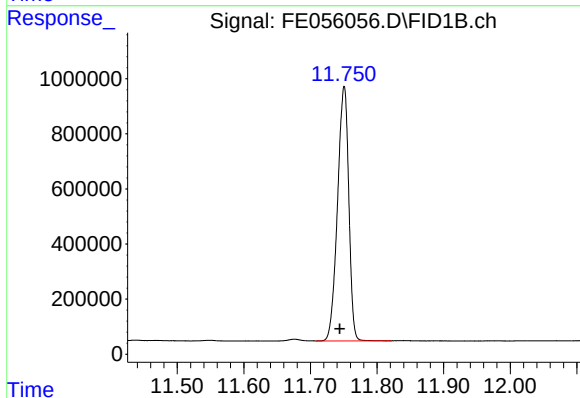
R.T.: 8.687 min  
Delta R.T.: 0.007 min  
Response: 9479288  
Conc: 64.12 ug/ml



#7 n-Hexadecane (C16)

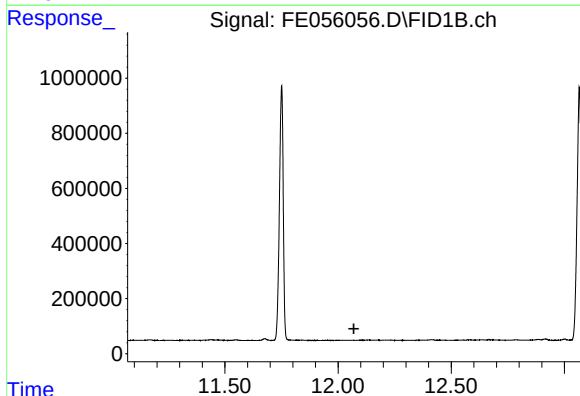
R.T.: 10.301 min  
Delta R.T.: 0.007 min  
Response: 10442627  
Conc: 65.71 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MS



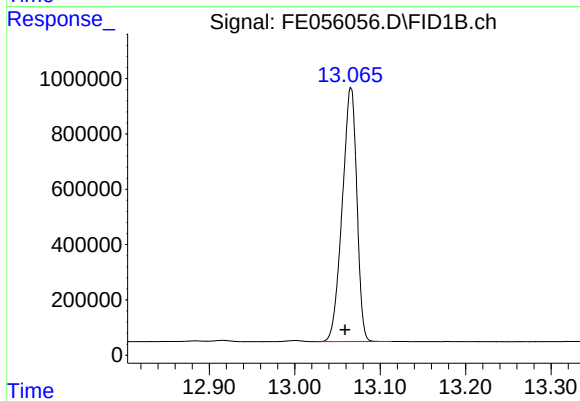
#8 n-Octadecane (C18)

R.T.: 11.750 min  
Delta R.T.: 0.006 min  
Response: 10836487  
Conc: 63.98 ug/ml



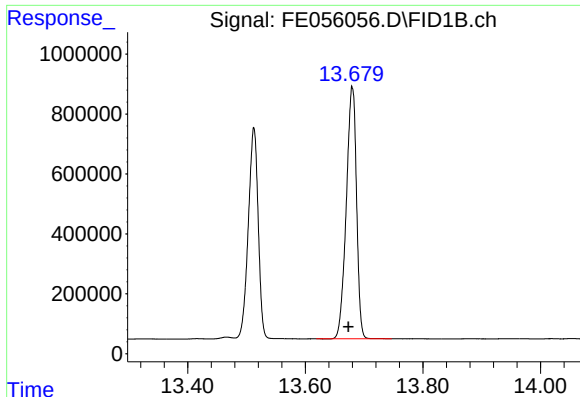
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min  
Exp R.T. : 12.070 min  
Response: 0  
Conc: N.D.



#10 n-Eicosane (C20)

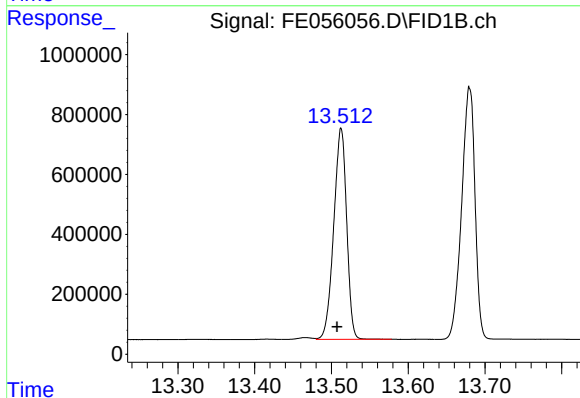
R.T.: 13.066 min  
Delta R.T.: 0.007 min  
Response: 10924367  
Conc: 65.90 ug/ml



#11 n-Heneicosane (C21)

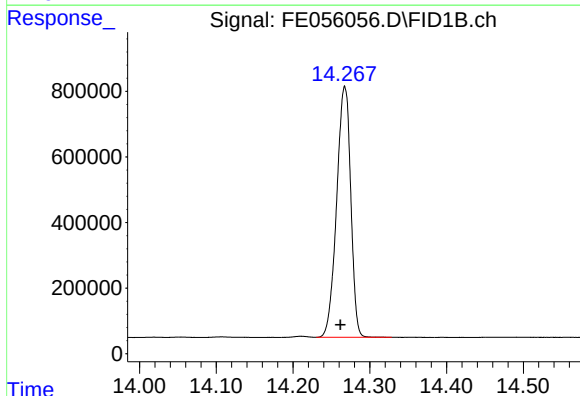
R.T.: 13.680 min  
Delta R.T.: 0.007 min  
Response: 10172257  
Conc: 62.60 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MS



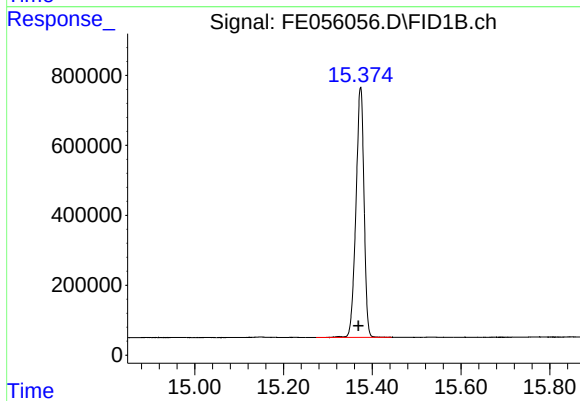
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min  
Delta R.T.: 0.005 min  
Response: 8241176  
Conc: 59.05 ug/ml



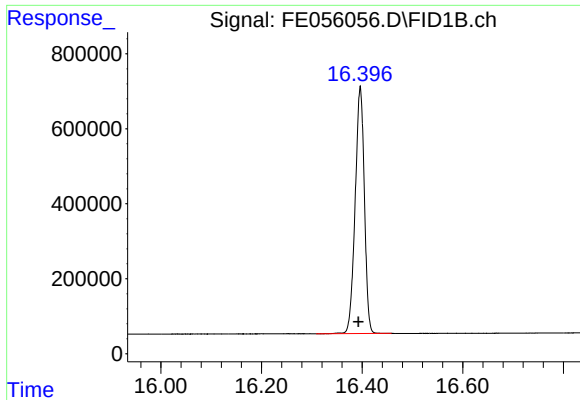
#13 n-Docosane (C22)

R.T.: 14.267 min  
Delta R.T.: 0.006 min  
Response: 9756059  
Conc: 61.06 ug/ml



#14 n-Tetracosane (C24)

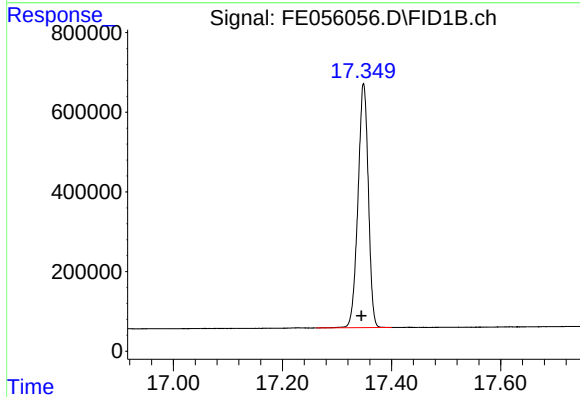
R.T.: 15.374 min  
Delta R.T.: 0.005 min  
Response: 9010437  
Conc: 59.13 ug/ml



#15 n-Hexacosane (C26)

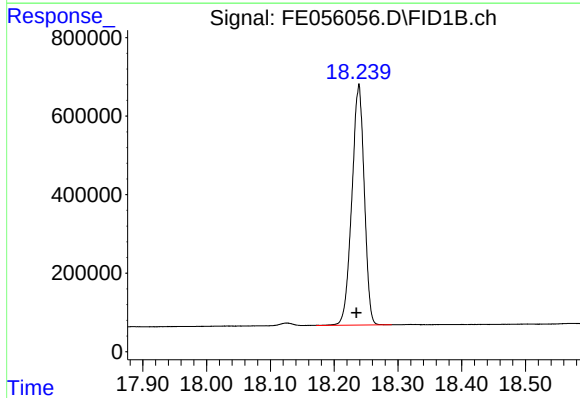
R.T.: 16.396 min  
Delta R.T.: 0.004 min  
Response: 8341622  
Conc: 58.48 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MS



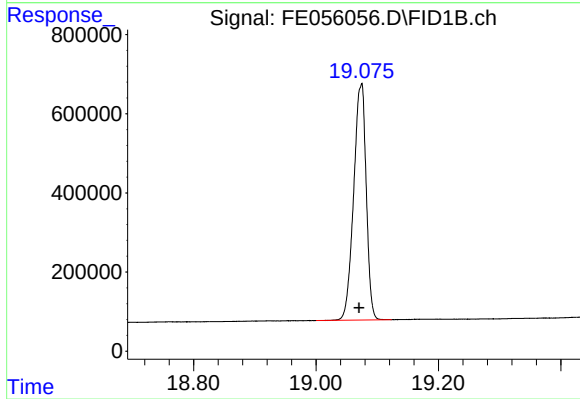
#16 n-Octacosane (C28)

R.T.: 17.349 min  
Delta R.T.: 0.004 min  
Response: 8067644  
Conc: 57.91 ug/ml



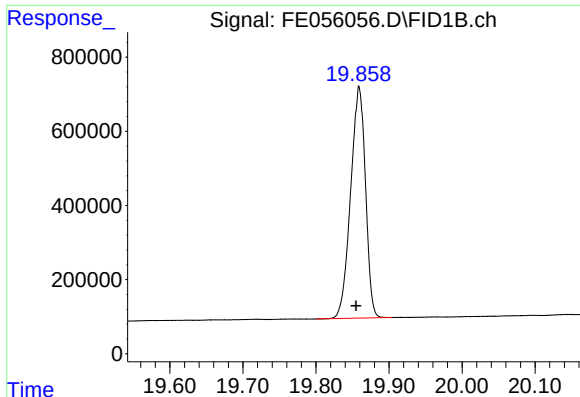
#17 n-Tricontane (C30)

R.T.: 18.238 min  
Delta R.T.: 0.004 min  
Response: 8292786  
Conc: 55.96 ug/ml



#18 n-Dotriacontane (C32)

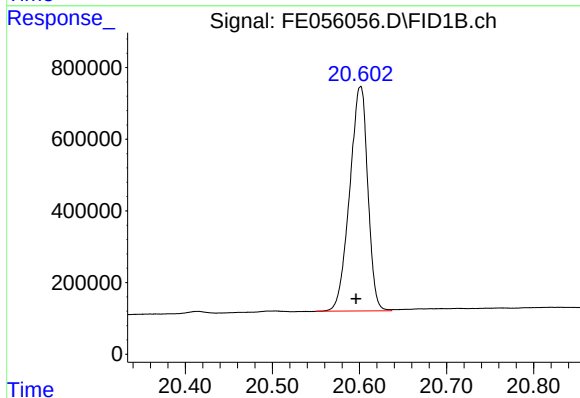
R.T.: 19.073 min  
Delta R.T.: 0.003 min  
Response: 8500117  
Conc: 56.97 ug/ml



#19 n-Tetratriacontane (C34)

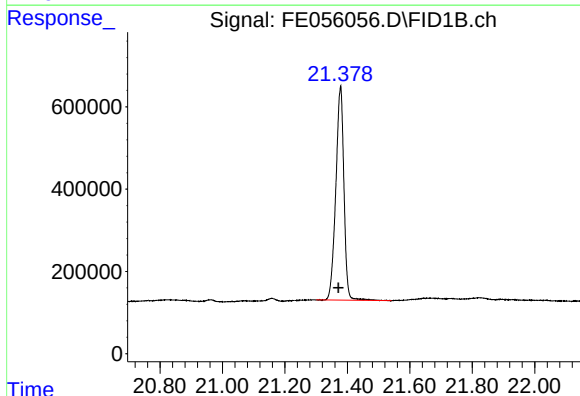
R.T.: 19.859 min  
Delta R.T.: 0.004 min  
Response: 8822187  
Conc: 62.37 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MS



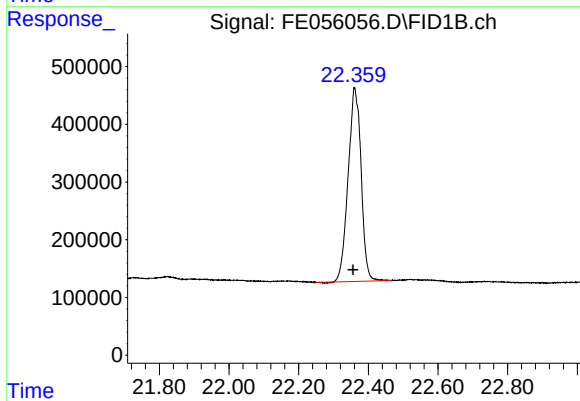
#20 n-Hexatriacontane (C36)

R.T.: 20.601 min  
Delta R.T.: 0.005 min  
Response: 9062793  
Conc: 70.60 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.378 min  
Delta R.T.: 0.006 min  
Response: 9363961  
Conc: 71.29 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.361 min  
Delta R.T.: 0.004 min  
Response: 8664314  
Conc: 72.83 ug/ml



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056056.D  
 Signal(s) : FID1B.ch  
 Acq On : 29 Sep 2025 20:27  
 Sample : Q3179-02MS  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 2.841       | 2.804        | 2.878      | BV       | 63326          | 1045333      | 9.02%          | 0.516%        |
| 2         | 2.891       | 2.878        | 2.936      | VV       | 1781           | 22825        | 0.20%          | 0.011%        |
| 3         | 2.956       | 2.936        | 2.984      | VV       | 1044           | 12552        | 0.11%          | 0.006%        |
| 4         | 2.997       | 2.984        | 3.014      | VV       | 124            | 1274         | 0.01%          | 0.001%        |
| 5         | 3.054       | 3.014        | 3.084      | PV       | 279            | 3266         | 0.03%          | 0.002%        |
| 6         | 3.111       | 3.084        | 3.165      | PV       | 51427          | 515116       | 4.44%          | 0.254%        |
| 7         | 3.198       | 3.165        | 3.254      | VV       | 349            | 8252         | 0.07%          | 0.004%        |
| 8         | 3.289       | 3.254        | 3.316      | VV       | 248            | 4308         | 0.04%          | 0.002%        |
| 9         | 3.333       | 3.316        | 3.348      | VV       | 82             | 941          | 0.01%          | 0.000%        |
| 10        | 3.352       | 3.348        | 3.379      | VV       | 68             | 852          | 0.01%          | 0.000%        |
| 11        | 3.417       | 3.379        | 3.518      | VV       | 576537         | 5793382      | 49.98%         | 2.860%        |
| 12        | 3.535       | 3.518        | 3.549      | VV       | 428            | 5954         | 0.05%          | 0.003%        |
| 13        | 3.564       | 3.549        | 3.615      | VV       | 481            | 10924        | 0.09%          | 0.005%        |
| 14        | 3.629       | 3.615        | 3.648      | VV       | 382            | 4760         | 0.04%          | 0.002%        |
| 15        | 3.662       | 3.648        | 3.688      | VV       | 366            | 5772         | 0.05%          | 0.003%        |
| 16        | 3.704       | 3.688        | 3.724      | VV       | 222            | 3807         | 0.03%          | 0.002%        |
| 17        | 3.734       | 3.724        | 3.748      | VV       | 407            | 4881         | 0.04%          | 0.002%        |
| 18        | 3.754       | 3.748        | 3.778      | VV       | 455            | 4148         | 0.04%          | 0.002%        |
| 19        | 3.792       | 3.778        | 3.841      | VV       | 475            | 9309         | 0.08%          | 0.005%        |
| 20        | 3.862       | 3.841        | 3.886      | PV       | 207            | 3155         | 0.03%          | 0.002%        |
| 21        | 3.909       | 3.886        | 3.927      | VV       | 139            | 1881         | 0.02%          | 0.001%        |
| 22        | 3.945       | 3.927        | 3.984      | VV       | 109            | 1397         | 0.01%          | 0.001%        |
| 23        | 4.009       | 3.984        | 4.055      | VV       | 330            | 5844         | 0.05%          | 0.003%        |
| 24        | 4.065       | 4.055        | 4.083      | VV       | 124            | 1094         | 0.01%          | 0.001%        |
| 25        | 4.108       | 4.083        | 4.168      | VV       | 296            | 6653         | 0.06%          | 0.003%        |
| 26        | 4.179       | 4.168        | 4.184      | PV       | 90             | 558          | 0.00%          | 0.000%        |
| 27        | 4.214       | 4.184        | 4.230      | VV       | 614            | 7325         | 0.06%          | 0.004%        |
| 28        | 4.247       | 4.230        | 4.275      | VV       | 871            | 9966         | 0.09%          | 0.005%        |
| 29        | 4.285       | 4.275        | 4.304      | VV       | 157            | 1498         | 0.01%          | 0.001%        |
| 30        | 4.323       | 4.304        | 4.348      | VV       | 364            | 4547         | 0.04%          | 0.002%        |
| 31        | 4.355       | 4.348        | 4.364      | VV       | 87             | 714          | 0.01%          | 0.000%        |
| 32        | 4.417       | 4.364        | 4.441      | VV       | 753            | 18160        | 0.16%          | 0.009%        |
| 33        | 4.451       | 4.441        | 4.464      | VV       | 190            | 2077         | 0.02%          | 0.001%        |
| 34        | 4.481       | 4.464        | 4.503      | VV       | 256            | 4285         | 0.04%          | 0.002%        |
| 35        | 4.585       | 4.503        | 4.607      | VV       | 733            | 16918        | 0.15%          | 0.008%        |
| 36        | 4.618       | 4.607        | 4.638      | VV       | 341            | 4359         | 0.04%          | 0.002%        |

| rteres.txt |       |       |       |    |        |         |        |        |
|------------|-------|-------|-------|----|--------|---------|--------|--------|
| 37         | 4.675 | 4.638 | 4.700 | VV | 725396 | 7156232 | 61.74% | 3.533% |
| 38         | 4.717 | 4.700 | 4.769 | VV | 53397  | 579840  | 5.00%  | 0.286% |
| 39         | 4.788 | 4.769 | 4.816 | VV | 2640   | 37454   | 0.32%  | 0.018% |
| 40         | 4.836 | 4.816 | 4.851 | VV | 2408   | 29272   | 0.25%  | 0.014% |
| 41         | 4.864 | 4.851 | 4.909 | VV | 1593   | 31017   | 0.27%  | 0.015% |
| 42         | 4.925 | 4.909 | 4.941 | VV | 1068   | 13714   | 0.12%  | 0.007% |
| 43         | 4.959 | 4.941 | 4.977 | VV | 1942   | 22394   | 0.19%  | 0.011% |
| 44         | 4.990 | 4.977 | 5.026 | VV | 737    | 15756   | 0.14%  | 0.008% |
| 45         | 5.042 | 5.026 | 5.051 | VV | 586    | 7506    | 0.06%  | 0.004% |
| 46         | 5.064 | 5.051 | 5.077 | VV | 667    | 8711    | 0.08%  | 0.004% |
| 47         | 5.096 | 5.077 | 5.122 | VV | 796    | 15219   | 0.13%  | 0.008% |
| 48         | 5.150 | 5.122 | 5.241 | VV | 485    | 23760   | 0.20%  | 0.012% |
| 49         | 5.259 | 5.241 | 5.274 | VV | 297    | 4543    | 0.04%  | 0.002% |
| 50         | 5.290 | 5.274 | 5.305 | VV | 537    | 7646    | 0.07%  | 0.004% |
| 51         | 5.319 | 5.305 | 5.331 | VV | 653    | 7604    | 0.07%  | 0.004% |
| 52         | 5.349 | 5.331 | 5.357 | VV | 618    | 8703    | 0.08%  | 0.004% |
| 53         | 5.377 | 5.357 | 5.411 | VV | 4319   | 53949   | 0.47%  | 0.027% |
| 54         | 5.438 | 5.411 | 5.461 | VV | 1491   | 19968   | 0.17%  | 0.010% |
| 55         | 5.488 | 5.461 | 5.519 | VV | 907    | 17114   | 0.15%  | 0.008% |
| 56         | 5.564 | 5.519 | 5.576 | VV | 651    | 12625   | 0.11%  | 0.006% |
| 57         | 5.584 | 5.576 | 5.596 | VV | 507    | 5811    | 0.05%  | 0.003% |
| 58         | 5.612 | 5.596 | 5.658 | VV | 536    | 13864   | 0.12%  | 0.007% |
| 59         | 5.698 | 5.658 | 5.738 | VV | 794    | 25066   | 0.22%  | 0.012% |
| 60         | 5.753 | 5.738 | 5.767 | VV | 666    | 9709    | 0.08%  | 0.005% |
| 61         | 5.777 | 5.767 | 5.794 | VV | 586    | 7232    | 0.06%  | 0.004% |
| 62         | 5.814 | 5.794 | 5.836 | VV | 3420   | 39929   | 0.34%  | 0.020% |
| 63         | 5.857 | 5.836 | 5.878 | VV | 1734   | 21497   | 0.19%  | 0.011% |
| 64         | 5.917 | 5.878 | 5.931 | VV | 599    | 11266   | 0.10%  | 0.006% |
| 65         | 5.962 | 5.931 | 5.973 | VV | 634    | 11206   | 0.10%  | 0.006% |
| 66         | 5.988 | 5.973 | 6.029 | VV | 681    | 17062   | 0.15%  | 0.008% |
| 67         | 6.039 | 6.029 | 6.055 | VV | 247    | 3168    | 0.03%  | 0.002% |
| 68         | 6.078 | 6.055 | 6.090 | VV | 308    | 4545    | 0.04%  | 0.002% |
| 69         | 6.109 | 6.090 | 6.154 | VV | 466    | 11480   | 0.10%  | 0.006% |
| 70         | 6.186 | 6.154 | 6.208 | VV | 282    | 5625    | 0.05%  | 0.003% |
| 71         | 6.210 | 6.208 | 6.228 | VV | 237    | 1665    | 0.01%  | 0.001% |
| 72         | 6.246 | 6.228 | 6.268 | VV | 136    | 2772    | 0.02%  | 0.001% |
| 73         | 6.294 | 6.268 | 6.318 | PV | 470    | 5994    | 0.05%  | 0.003% |
| 74         | 6.342 | 6.318 | 6.358 | VV | 313    | 5166    | 0.04%  | 0.003% |
| 75         | 6.394 | 6.358 | 6.433 | VV | 29569  | 325304  | 2.81%  | 0.161% |
| 76         | 6.444 | 6.433 | 6.474 | VV | 1245   | 23466   | 0.20%  | 0.012% |
| 77         | 6.491 | 6.474 | 6.519 | VV | 1716   | 26044   | 0.22%  | 0.013% |
| 78         | 6.555 | 6.519 | 6.581 | VV | 1407   | 25392   | 0.22%  | 0.013% |
| 79         | 6.632 | 6.581 | 6.709 | VV | 758    | 38761   | 0.33%  | 0.019% |
| 80         | 6.732 | 6.709 | 6.753 | VV | 628    | 11731   | 0.10%  | 0.006% |
| 81         | 6.779 | 6.753 | 6.810 | VV | 418    | 11403   | 0.10%  | 0.006% |
| 82         | 6.850 | 6.810 | 6.917 | VV | 859411 | 8622647 | 74.39% | 4.257% |
| 83         | 6.933 | 6.917 | 6.952 | VV | 1694   | 29512   | 0.25%  | 0.015% |
| 84         | 6.970 | 6.952 | 6.988 | VV | 1373   | 23183   | 0.20%  | 0.011% |
| 85         | 7.001 | 6.988 | 7.022 | VV | 2354   | 31588   | 0.27%  | 0.016% |
| 86         | 7.033 | 7.022 | 7.057 | VV | 1008   | 17012   | 0.15%  | 0.008% |
| 87         | 7.075 | 7.057 | 7.112 | VV | 1373   | 23167   | 0.20%  | 0.011% |
| 88         | 7.144 | 7.112 | 7.163 | VV | 910    | 17302   | 0.15%  | 0.009% |
| 89         | 7.177 | 7.163 | 7.207 | VV | 470    | 9015    | 0.08%  | 0.004% |

|     |        |        |        |    |            |         |        |        |
|-----|--------|--------|--------|----|------------|---------|--------|--------|
|     |        |        |        |    | rteres.txt |         |        |        |
| 90  | 7.222  | 7.207  | 7.240  | VV | 418        | 5485    | 0.05%  | 0.003% |
| 91  | 7.254  | 7.240  | 7.278  | VV | 313        | 5276    | 0.05%  | 0.003% |
| 92  | 7.302  | 7.278  | 7.337  | VV | 1217       | 20923   | 0.18%  | 0.010% |
| 93  | 7.359  | 7.337  | 7.374  | VV | 1345       | 18313   | 0.16%  | 0.009% |
| 94  | 7.426  | 7.374  | 7.455  | VV | 2031       | 55379   | 0.48%  | 0.027% |
| 95  | 7.493  | 7.455  | 7.579  | VV | 15892      | 213886  | 1.85%  | 0.106% |
| 96  | 7.597  | 7.579  | 7.620  | VV | 657        | 10834   | 0.09%  | 0.005% |
| 97  | 7.653  | 7.620  | 7.681  | VV | 4540       | 54799   | 0.47%  | 0.027% |
| 98  | 7.731  | 7.681  | 7.750  | VV | 797        | 20362   | 0.18%  | 0.010% |
| 99  | 7.764  | 7.750  | 7.774  | VV | 749        | 8274    | 0.07%  | 0.004% |
| 100 | 7.796  | 7.774  | 7.820  | VV | 3861       | 46957   | 0.41%  | 0.023% |
| 101 | 7.834  | 7.820  | 7.844  | VV | 405        | 4835    | 0.04%  | 0.002% |
| 102 | 7.864  | 7.844  | 7.878  | VV | 872        | 11950   | 0.10%  | 0.006% |
| 103 | 7.890  | 7.878  | 7.934  | VV | 763        | 10166   | 0.09%  | 0.005% |
| 104 | 7.961  | 7.934  | 7.998  | VV | 417        | 6150    | 0.05%  | 0.003% |
| 105 | 8.014  | 7.998  | 8.041  | PV | 230        | 3163    | 0.03%  | 0.002% |
| 106 | 8.064  | 8.041  | 8.083  | VV | 1653       | 18393   | 0.16%  | 0.009% |
| 107 | 8.125  | 8.083  | 8.191  | VV | 568        | 21928   | 0.19%  | 0.011% |
| 108 | 8.231  | 8.191  | 8.274  | VV | 645        | 16782   | 0.14%  | 0.008% |
| 109 | 8.286  | 8.274  | 8.309  | VV | 314        | 5045    | 0.04%  | 0.002% |
| 110 | 8.330  | 8.309  | 8.348  | VV | 469        | 6026    | 0.05%  | 0.003% |
| 111 | 8.374  | 8.348  | 8.401  | VV | 4411       | 48056   | 0.41%  | 0.024% |
| 112 | 8.431  | 8.401  | 8.454  | VV | 3893       | 43000   | 0.37%  | 0.021% |
| 113 | 8.465  | 8.454  | 8.499  | VV | 452        | 7461    | 0.06%  | 0.004% |
| 114 | 8.542  | 8.499  | 8.556  | VV | 795        | 13343   | 0.12%  | 0.007% |
| 115 | 8.589  | 8.556  | 8.628  | VV | 2283       | 43270   | 0.37%  | 0.021% |
| 116 | 8.642  | 8.628  | 8.650  | VV | 644        | 7356    | 0.06%  | 0.004% |
| 117 | 8.687  | 8.650  | 8.759  | VV | 910132     | 9533849 | 82.25% | 4.707% |
| 118 | 8.802  | 8.759  | 8.858  | VV | 3168       | 86001   | 0.74%  | 0.042% |
| 119 | 8.876  | 8.858  | 8.900  | VV | 1174       | 21295   | 0.18%  | 0.011% |
| 120 | 8.917  | 8.900  | 8.960  | VV | 1630       | 20681   | 0.18%  | 0.010% |
| 121 | 9.004  | 8.960  | 9.081  | VV | 54278      | 673264  | 5.81%  | 0.332% |
| 122 | 9.102  | 9.081  | 9.124  | VV | 8757       | 107500  | 0.93%  | 0.053% |
| 123 | 9.157  | 9.124  | 9.207  | VV | 2868       | 102035  | 0.88%  | 0.050% |
| 124 | 9.225  | 9.207  | 9.269  | VV | 2115       | 49715   | 0.43%  | 0.025% |
| 125 | 9.290  | 9.269  | 9.320  | VV | 992        | 16296   | 0.14%  | 0.008% |
| 126 | 9.343  | 9.320  | 9.371  | VV | 759        | 13118   | 0.11%  | 0.006% |
| 127 | 9.415  | 9.371  | 9.434  | VV | 2875       | 54940   | 0.47%  | 0.027% |
| 128 | 9.448  | 9.434  | 9.488  | VV | 1973       | 42515   | 0.37%  | 0.021% |
| 129 | 9.528  | 9.488  | 9.582  | VV | 4630       | 112805  | 0.97%  | 0.056% |
| 130 | 9.601  | 9.582  | 9.626  | VV | 1118       | 15082   | 0.13%  | 0.007% |
| 131 | 9.651  | 9.626  | 9.678  | VV | 743        | 11112   | 0.10%  | 0.005% |
| 132 | 9.700  | 9.678  | 9.717  | VV | 506        | 8089    | 0.07%  | 0.004% |
| 133 | 9.734  | 9.717  | 9.744  | VV | 551        | 7159    | 0.06%  | 0.004% |
| 134 | 9.753  | 9.744  | 9.765  | VV | 509        | 5490    | 0.05%  | 0.003% |
| 135 | 9.771  | 9.765  | 9.784  | VV | 448        | 4499    | 0.04%  | 0.002% |
| 136 | 9.816  | 9.784  | 9.838  | VV | 1267       | 24042   | 0.21%  | 0.012% |
| 137 | 9.888  | 9.838  | 9.918  | VV | 2983       | 53053   | 0.46%  | 0.026% |
| 138 | 9.935  | 9.918  | 9.948  | VV | 1136       | 13283   | 0.11%  | 0.007% |
| 139 | 9.975  | 9.948  | 10.001 | VV | 1201       | 25202   | 0.22%  | 0.012% |
| 140 | 10.026 | 10.001 | 10.052 | VV | 1364       | 26592   | 0.23%  | 0.013% |
| 141 | 10.075 | 10.052 | 10.119 | VV | 3972       | 49893   | 0.43%  | 0.025% |

|     |        |        |        |    | rteres.txt |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
| 142 | 10.151 | 10.119 | 10.177 | VV | 658        | 14061    | 0.12%  | 0.007% |
| 143 | 10.217 | 10.177 | 10.260 | VV | 2346       | 42400    | 0.37%  | 0.021% |
| 144 | 10.301 | 10.260 | 10.355 | VV | 945742     | 10491213 | 90.51% | 5.180% |
| 145 | 10.365 | 10.355 | 10.425 | VV | 1566       | 43777    | 0.38%  | 0.022% |
| 146 | 10.445 | 10.425 | 10.494 | VV | 656        | 16836    | 0.15%  | 0.008% |
| 147 | 10.511 | 10.494 | 10.520 | VV | 106        | 943      | 0.01%  | 0.000% |
| 148 | 10.546 | 10.520 | 10.558 | PV | 257        | 3868     | 0.03%  | 0.002% |
| 149 | 10.577 | 10.558 | 10.592 | VV | 511        | 6776     | 0.06%  | 0.003% |
| 150 | 10.621 | 10.592 | 10.658 | VV | 811        | 20804    | 0.18%  | 0.010% |
| 151 | 10.692 | 10.658 | 10.711 | VV | 1250       | 24242    | 0.21%  | 0.012% |
| 152 | 10.738 | 10.711 | 10.820 | VV | 2571       | 74467    | 0.64%  | 0.037% |
| 153 | 10.849 | 10.820 | 10.868 | VV | 879        | 16837    | 0.15%  | 0.008% |
| 154 | 10.901 | 10.868 | 10.914 | VV | 1016       | 19500    | 0.17%  | 0.010% |
| 155 | 10.940 | 10.914 | 10.952 | VV | 1060       | 20737    | 0.18%  | 0.010% |
| 156 | 10.972 | 10.952 | 11.003 | VV | 1312       | 31923    | 0.28%  | 0.016% |
| 157 | 11.039 | 11.003 | 11.075 | VV | 2268       | 51080    | 0.44%  | 0.025% |
| 158 | 11.096 | 11.075 | 11.114 | VV | 1078       | 17712    | 0.15%  | 0.009% |
| 159 | 11.126 | 11.114 | 11.137 | VV | 955        | 11109    | 0.10%  | 0.005% |
| 160 | 11.169 | 11.137 | 11.219 | VV | 2482       | 53920    | 0.47%  | 0.027% |
| 161 | 11.235 | 11.219 | 11.244 | VV | 679        | 7839     | 0.07%  | 0.004% |
| 162 | 11.259 | 11.244 | 11.288 | VV | 707        | 13945    | 0.12%  | 0.007% |
| 163 | 11.325 | 11.288 | 11.340 | VV | 587        | 14305    | 0.12%  | 0.007% |
| 164 | 11.362 | 11.340 | 11.389 | VV | 924        | 19584    | 0.17%  | 0.010% |
| 165 | 11.409 | 11.389 | 11.416 | VV | 1163       | 14081    | 0.12%  | 0.007% |
| 166 | 11.438 | 11.416 | 11.454 | VV | 3231       | 48068    | 0.41%  | 0.024% |
| 167 | 11.468 | 11.454 | 11.520 | VV | 2194       | 46387    | 0.40%  | 0.023% |
| 168 | 11.549 | 11.520 | 11.589 | VV | 2583       | 36755    | 0.32%  | 0.018% |
| 169 | 11.609 | 11.589 | 11.644 | VV | 281        | 5745     | 0.05%  | 0.003% |
| 170 | 11.676 | 11.644 | 11.708 | VV | 6531       | 83843    | 0.72%  | 0.041% |
| 171 | 11.750 | 11.708 | 11.824 | VV | 931142     | 10870752 | 93.78% | 5.367% |
| 172 | 11.841 | 11.824 | 11.873 | VV | 1368       | 22140    | 0.19%  | 0.011% |
| 173 | 11.887 | 11.873 | 11.923 | VV | 265        | 5564     | 0.05%  | 0.003% |
| 174 | 11.978 | 11.923 | 12.001 | PV | 306        | 6226     | 0.05%  | 0.003% |
| 175 | 12.070 | 12.001 | 12.081 | VV | 620        | 18492    | 0.16%  | 0.009% |
| 176 | 12.135 | 12.081 | 12.158 | VV | 1500       | 40137    | 0.35%  | 0.020% |
| 177 | 12.165 | 12.158 | 12.188 | VV | 1077       | 14942    | 0.13%  | 0.007% |
| 178 | 12.204 | 12.188 | 12.221 | VV | 1004       | 15417    | 0.13%  | 0.008% |
| 179 | 12.232 | 12.221 | 12.282 | VV | 1241       | 17201    | 0.15%  | 0.008% |
| 180 | 12.414 | 12.282 | 12.448 | VV | 2600       | 75119    | 0.65%  | 0.037% |
| 181 | 12.464 | 12.448 | 12.495 | VV | 847        | 14983    | 0.13%  | 0.007% |
| 182 | 12.581 | 12.495 | 12.604 | VV | 1866       | 59159    | 0.51%  | 0.029% |
| 183 | 12.638 | 12.604 | 12.654 | VV | 2082       | 47573    | 0.41%  | 0.023% |
| 184 | 12.670 | 12.654 | 12.736 | VV | 2305       | 66609    | 0.57%  | 0.033% |
| 185 | 12.786 | 12.736 | 12.816 | VV | 1996       | 46259    | 0.40%  | 0.023% |
| 186 | 12.829 | 12.816 | 12.837 | VV | 722        | 8465     | 0.07%  | 0.004% |
| 187 | 12.884 | 12.837 | 12.897 | VV | 3288       | 60781    | 0.52%  | 0.030% |
| 188 | 12.916 | 12.897 | 12.963 | VV | 5030       | 73189    | 0.63%  | 0.036% |
| 189 | 13.000 | 12.963 | 13.024 | VV | 4575       | 60881    | 0.53%  | 0.030% |
| 190 | 13.066 | 13.024 | 13.168 | VV | 918989     | 10967766 | 94.62% | 5.415% |
| 191 | 13.178 | 13.168 | 13.248 | VV | 746        | 12865    | 0.11%  | 0.006% |
| 192 | 13.327 | 13.248 | 13.368 | PV | 854        | 21280    | 0.18%  | 0.011% |
| 193 | 13.417 | 13.368 | 13.437 | VV | 1507       | 27084    | 0.23%  | 0.013% |
| 194 | 13.466 | 13.437 | 13.478 | VV | 6563       | 87831    | 0.76%  | 0.043% |

|     |        |        |        |    |            |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
|     |        |        |        |    | rteres.txt |          |        |        |
| 195 | 13.512 | 13.478 | 13.598 | VV | 701591     | 8300383  | 71.61% | 4.098% |
| 196 | 13.619 | 13.598 | 13.638 | VV | 1086       | 19620    | 0.17%  | 0.010% |
| 197 | 13.680 | 13.638 | 13.778 | VV | 846131     | 10243321 | 88.37% | 5.058% |
| 198 | 13.793 | 13.778 | 13.852 | VV | 985        | 24170    | 0.21%  | 0.012% |
| 199 | 13.877 | 13.852 | 13.917 | VV | 837        | 20923    | 0.18%  | 0.010% |
| 200 | 13.942 | 13.917 | 13.993 | VV | 941        | 27722    | 0.24%  | 0.014% |
| 201 | 14.019 | 13.993 | 14.035 | VV | 1051       | 14665    | 0.13%  | 0.007% |
| 202 | 14.054 | 14.035 | 14.083 | VV | 1357       | 20000    | 0.17%  | 0.010% |
| 203 | 14.106 | 14.083 | 14.153 | VV | 1994       | 35587    | 0.31%  | 0.018% |
| 204 | 14.211 | 14.153 | 14.231 | VV | 3777       | 54924    | 0.47%  | 0.027% |
| 205 | 14.267 | 14.231 | 14.384 | VV | 766380     | 9790967  | 84.47% | 4.834% |
| 206 | 14.394 | 14.384 | 14.408 | VV | 315        | 2356     | 0.02%  | 0.001% |
| 207 | 14.421 | 14.408 | 14.438 | VV | 189        | 1619     | 0.01%  | 0.001% |
| 208 | 14.462 | 14.438 | 14.471 | VV | 541        | 6827     | 0.06%  | 0.003% |
| 209 | 14.485 | 14.471 | 14.551 | VV | 560        | 13221    | 0.11%  | 0.007% |
| 210 | 14.558 | 14.551 | 14.578 | VV | 210        | 2143     | 0.02%  | 0.001% |
| 211 | 14.596 | 14.578 | 14.631 | PV | 382        | 4896     | 0.04%  | 0.002% |
| 212 | 14.654 | 14.631 | 14.664 | VV | 317        | 3960     | 0.03%  | 0.002% |
| 213 | 14.699 | 14.664 | 14.760 | VV | 23604      | 303457   | 2.62%  | 0.150% |
| 214 | 14.777 | 14.760 | 14.803 | VV | 424        | 8335     | 0.07%  | 0.004% |
| 215 | 14.827 | 14.803 | 14.867 | VV | 1068       | 14859    | 0.13%  | 0.007% |
| 216 | 14.891 | 14.867 | 14.937 | VV | 457        | 11286    | 0.10%  | 0.006% |
| 217 | 14.970 | 14.937 | 15.003 | VV | 460        | 12211    | 0.11%  | 0.006% |
| 218 | 15.029 | 15.003 | 15.050 | VV | 267        | 4857     | 0.04%  | 0.002% |
| 219 | 15.085 | 15.050 | 15.098 | VV | 351        | 6042     | 0.05%  | 0.003% |
| 220 | 15.148 | 15.098 | 15.201 | VV | 1642       | 39494    | 0.34%  | 0.019% |
| 221 | 15.225 | 15.201 | 15.262 | VV | 553        | 9059     | 0.08%  | 0.004% |
| 222 | 15.324 | 15.262 | 15.338 | PV | 2528       | 35492    | 0.31%  | 0.018% |
| 223 | 15.374 | 15.338 | 15.506 | VV | 719756     | 9001356  | 77.66% | 4.444% |
| 224 | 15.532 | 15.506 | 15.551 | VV | 658        | 9949     | 0.09%  | 0.005% |
| 225 | 15.562 | 15.551 | 15.603 | VV | 227        | 4317     | 0.04%  | 0.002% |
| 226 | 15.611 | 15.603 | 15.631 | VV | 142        | 1151     | 0.01%  | 0.001% |
| 227 | 15.673 | 15.631 | 15.714 | VV | 169        | 4286     | 0.04%  | 0.002% |
| 228 | 15.778 | 15.714 | 15.828 | PV | 780        | 23788    | 0.21%  | 0.012% |
| 229 | 15.849 | 15.828 | 15.866 | VV | 572        | 9882     | 0.09%  | 0.005% |
| 230 | 15.890 | 15.866 | 15.931 | VV | 1912       | 32180    | 0.28%  | 0.016% |
| 231 | 15.946 | 15.931 | 15.956 | VV | 292        | 3527     | 0.03%  | 0.002% |
| 232 | 16.033 | 15.956 | 16.058 | VV | 251        | 11118    | 0.10%  | 0.005% |
| 233 | 16.071 | 16.058 | 16.094 | VV | 250        | 3156     | 0.03%  | 0.002% |
| 234 | 16.156 | 16.094 | 16.180 | VV | 226        | 5463     | 0.05%  | 0.003% |
| 235 | 16.212 | 16.180 | 16.228 | VV | 265        | 5278     | 0.05%  | 0.003% |
| 236 | 16.254 | 16.228 | 16.264 | VV | 379        | 5891     | 0.05%  | 0.003% |
| 237 | 16.283 | 16.264 | 16.304 | VV | 248        | 4032     | 0.03%  | 0.002% |
| 238 | 16.396 | 16.304 | 16.474 | PV | 655275     | 8365909  | 72.17% | 4.131% |
| 239 | 16.484 | 16.474 | 16.494 | VV | 202        | 1921     | 0.02%  | 0.001% |
| 240 | 16.521 | 16.494 | 16.542 | VV | 264        | 4111     | 0.04%  | 0.002% |
| 241 | 16.572 | 16.542 | 16.611 | VV | 335        | 7604     | 0.07%  | 0.004% |
| 242 | 16.643 | 16.611 | 16.650 | VV | 76         | 1655     | 0.01%  | 0.001% |
| 243 | 16.686 | 16.650 | 16.701 | PV | 143        | 1704     | 0.01%  | 0.001% |
| 244 | 16.842 | 16.701 | 16.850 | PV | 407        | 9181     | 0.08%  | 0.005% |
| 245 | 16.878 | 16.850 | 16.931 | VV | 2347       | 39732    | 0.34%  | 0.020% |
| 246 | 17.093 | 16.931 | 17.098 | VV | 103        | 9134     | 0.08%  | 0.005% |

|     |        |        |        |    |                                   |          |         |        |
|-----|--------|--------|--------|----|-----------------------------------|----------|---------|--------|
|     |        |        |        |    | rteres.txt                        |          |         |        |
| 247 | 17.229 | 17.098 | 17.254 | PV | 738                               | 8755     | 0.08%   | 0.004% |
| 248 | 17.349 | 17.254 | 17.406 | VV | 614776                            | 8096851  | 69.85%  | 3.998% |
| 249 | 17.430 | 17.406 | 17.471 | VV | 530                               | 12887    | 0.11%   | 0.006% |
| 250 | 17.501 | 17.471 | 17.512 | VV | 220                               | 3885     | 0.03%   | 0.002% |
| 251 | 17.618 | 17.512 | 17.628 | PV | 336                               | 5091     | 0.04%   | 0.003% |
| 252 | 17.797 | 17.628 | 17.831 | VV | 3472                              | 72373    | 0.62%   | 0.036% |
| 253 | 17.885 | 17.831 | 17.901 | PV | 561                               | 7087     | 0.06%   | 0.003% |
| 254 | 18.126 | 17.901 | 18.153 | VV | 7204                              | 140005   | 1.21%   | 0.069% |
| 255 | 18.238 | 18.153 | 18.291 | VV | 604940                            | 8347816  | 72.02%  | 4.122% |
| 256 | 18.320 | 18.291 | 18.350 | VV | 1397                              | 35281    | 0.30%   | 0.017% |
| 257 | 18.399 | 18.350 | 18.407 | VV | 474                               | 17732    | 0.15%   | 0.009% |
| 258 | 18.505 | 18.407 | 18.520 | VV | 411                               | 15878    | 0.14%   | 0.008% |
| 259 | 18.572 | 18.520 | 18.590 | PV | 1069                              | 19147    | 0.17%   | 0.009% |
| 260 | 18.657 | 18.590 | 18.688 | VV | 6454                              | 108581   | 0.94%   | 0.054% |
| 261 | 18.762 | 18.688 | 18.780 | VV | 487                               | 10286    | 0.09%   | 0.005% |
| 262 | 18.925 | 18.780 | 18.940 | VV | 554                               | 8748     | 0.08%   | 0.004% |
| 263 | 19.073 | 18.940 | 19.127 | VV | 600562                            | 8538599  | 73.66%  | 4.216% |
| 264 | 19.200 | 19.127 | 19.219 | VV | 741                               | 38401    | 0.33%   | 0.019% |
| 265 | 19.467 | 19.219 | 19.504 | VV | 11263                             | 314449   | 2.71%   | 0.155% |
| 266 | 19.719 | 19.504 | 19.735 | VV | 5173                              | 538662   | 4.65%   | 0.266% |
| 267 | 19.859 | 19.735 | 19.904 | VV | 624264                            | 9388286  | 81.00%  | 4.635% |
| 268 | 19.915 | 19.904 | 19.921 | VV | 7415                              | 73721    | 0.64%   | 0.036% |
| 269 | 19.962 | 19.921 | 19.979 | VV | 7941                              | 263915   | 2.28%   | 0.130% |
| 270 | 20.099 | 19.979 | 20.110 | VV | 10136                             | 693935   | 5.99%   | 0.343% |
| 271 | 20.146 | 20.110 | 20.160 | VV | 11987                             | 333625   | 2.88%   | 0.165% |
| 272 | 20.229 | 20.160 | 20.257 | VV | 18457                             | 785710   | 6.78%   | 0.388% |
| 273 | 20.414 | 20.257 | 20.438 | VV | 21497                             | 1635819  | 14.11%  | 0.808% |
| 274 | 20.501 | 20.438 | 20.524 | VV | 21286                             | 977458   | 8.43%   | 0.483% |
| 275 | 20.601 | 20.524 | 20.638 | VV | 648481                            | 10419089 | 89.89%  | 5.144% |
| 276 | 20.714 | 20.638 | 20.724 | VV | 25427                             | 1271729  | 10.97%  | 0.628% |
| 277 | 20.763 | 20.724 | 20.776 | VV | 25910                             | 785519   | 6.78%   | 0.388% |
| 278 | 20.822 | 20.776 | 20.869 | VV | 26988                             | 1464653  | 12.64%  | 0.723% |
| 279 | 20.878 | 20.869 | 20.931 | VV | 24991                             | 868895   | 7.50%   | 0.429% |
| 280 | 20.962 | 20.931 | 21.005 | VV | 24948                             | 976241   | 8.42%   | 0.482% |
| 281 | 21.071 | 21.005 | 21.099 | VV | 20879                             | 1130509  | 9.75%   | 0.558% |
| 282 | 21.158 | 21.099 | 21.192 | VV | 25713                             | 1188687  | 10.26%  | 0.587% |
| 283 | 21.292 | 21.192 | 21.321 | VV | 20003                             | 1501831  | 12.96%  | 0.742% |
| 284 | 21.378 | 21.321 | 21.541 | VV | 535914                            | 11591166 | 100.00% | 5.723% |
| 285 | 21.658 | 21.541 | 21.713 | VV | 18604                             | 1721210  | 14.85%  | 0.850% |
| 286 | 21.731 | 21.713 | 21.764 | VV | 16752                             | 481255   | 4.15%   | 0.238% |
| 287 | 21.822 | 21.764 | 21.874 | VV | 17315                             | 1005873  | 8.68%   | 0.497% |
| 288 | 21.893 | 21.874 | 21.921 | VV | 12134                             | 328254   | 2.83%   | 0.162% |
| 289 | 21.929 | 21.921 | 21.978 | VV | 11162                             | 340664   | 2.94%   | 0.168% |
| 290 | 21.985 | 21.978 | 22.009 | VV | 9251                              | 162444   | 1.40%   | 0.080% |
| 291 | 22.017 | 22.009 | 22.117 | VV | 8313                              | 418059   | 3.61%   | 0.206% |
| 292 | 22.151 | 22.117 | 22.274 | VV | 4828                              | 293454   | 2.53%   | 0.145% |
| 293 | 22.361 | 22.274 | 22.478 | PV | 335431                            | 8734402  | 75.35%  | 4.313% |
|     |        |        |        |    | Sum of corrected areas: 202533729 |          |         |        |

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## Report of Analysis

|                    |                        |           |                 |          |    |
|--------------------|------------------------|-----------|-----------------|----------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: | 09/23/25 |    |
| Project:           | RFP 916                |           | Date Received:  | 09/23/25 |    |
| Client Sample ID:  | EME-TS14-01MS          |           | SDG No.:        | Q3179    |    |
| Lab Sample ID:     | Q3179-02               |           | Matrix:         | Water    |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000     | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH      |    |
| Prep Method :      | SW3510                 |           |                 |          |    |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FF016477.D | 1         | 09/29/25    | 09/29/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aromatic C10-C12  | Aromatic C10-C12          | 222   |           | 2.07     | 20.0       | ug/l    |
| Aromatic C12-C16  | Aromatic C12-C16          | 422   |           | 4.26     | 30.0       | ug/l    |
| Aromatic C16-C21  | Aromatic C16-C21          | 656   |           | 8.27     | 50.0       | ug/l    |
| Aromatic C21-C36  | Aromatic C21-C36          | 948   |           | 23.8     | 80.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 580-13-2          | 2-Bromonaphthalene (SURR) | 50.6  |           | 40 - 140 | 101%       | SPK: 50 |
| 321-60-8          | 2-Fluorobiphenyl (SURR)   | 45.7  |           | 40 - 140 | 91%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 49.4  |           | 40 - 140 | 99%        | SPK: 50 |

## Quantitation Report For Aromatic EPH Range.

|                   |               |                    |                   |
|-------------------|---------------|--------------------|-------------------|
| Lab Sample ID:    | Q3179-02      | Acq On:            | 29 Sep 2025 20:03 |
| Client Sample ID: | EME-TS14-01MS | Operator:          | YP\AJ             |
| Data file:        | FF016477.D    | Misc:              |                   |
| Instrument:       | FID_F         | ALS Vial:          | 88                |
| Dilution Factor:  | 1             | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aromatic C10-C12          | 4.521  | 6.397  | 15944293  | 111.248 | 200              | ug/ml |
| Aromatic C12-C16          | 6.398  | 9.101  | 30698570  | 211.443 | 300              | ug/ml |
| Aromatic C16-C21          | 9.102  | 13.420 | 47340767  | 328.361 | 500              | ug/ml |
| Aromatic C21-C36          | 13.421 | 18.876 | 62055378  | 474.306 | 800              | ug/ml |
| Aromatic EPH              | 4.521  | 18.876 | 156039008 | 1130    |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.972 | 11.972 | 7536987   | 49.44   |                  | ug/ml |
| 2-Bromonaphthalene (SURR) | 8.028  | 8.028  | 6335476   | 50.58   |                  | ug/ml |
| 2-Fluorobiphenyl (SURR)   | 8.903  | 8.903  | 3854619   | 45.7    |                  | ug/ml |



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016477.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 20:03  
 Operator : YP\AJ  
 Sample : Q3179-02MS  
 Misc :  
 ALS Vial : 88 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 EME-TS14-01MS

Integration File: autoint1.e  
 Quant Time: Sep 30 01:06:13 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.028  | 6335476    | 50.576 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 101.15%      |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.903  | 3854619    | 45.704 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 91.41%       |
| 11) S ortho-Terphenyl (SURR)       | 11.972 | 7536987    | 49.440 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 98.88%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.622  | 6715880    | 47.643 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.298  | 7633096    | 52.396 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.399  | 7318749    | 49.713 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.706  | 8161379    | 56.317 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.007  | 8269983    | 57.663 ug/ml |
| 8) T Flouorene (C16.55)            | 9.796  | 8371917    | 57.952 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.204 | 8265463    | 56.668 ug/ml |
| 10) T Anthracene (C19.43)          | 11.280 | 8159192    | 57.029 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.029 | 8043584    | 55.075 ug/ml |
| 13) T Pyrene (C20.8)               | 13.328 | 7987278    | 55.737 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.212 | 7505958    | 55.142 ug/ml |
| 15) T Chrysene (C27.41)            | 15.258 | 8158062    | 57.190 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.774 | 7165472    | 54.532 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.811 | 7070755    | 56.175 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.157 | 6862551    | 53.744 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.534 | 7406464    | 64.947 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.573 | 6766990    | 51.834 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.793 | 6667087    | 54.143 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

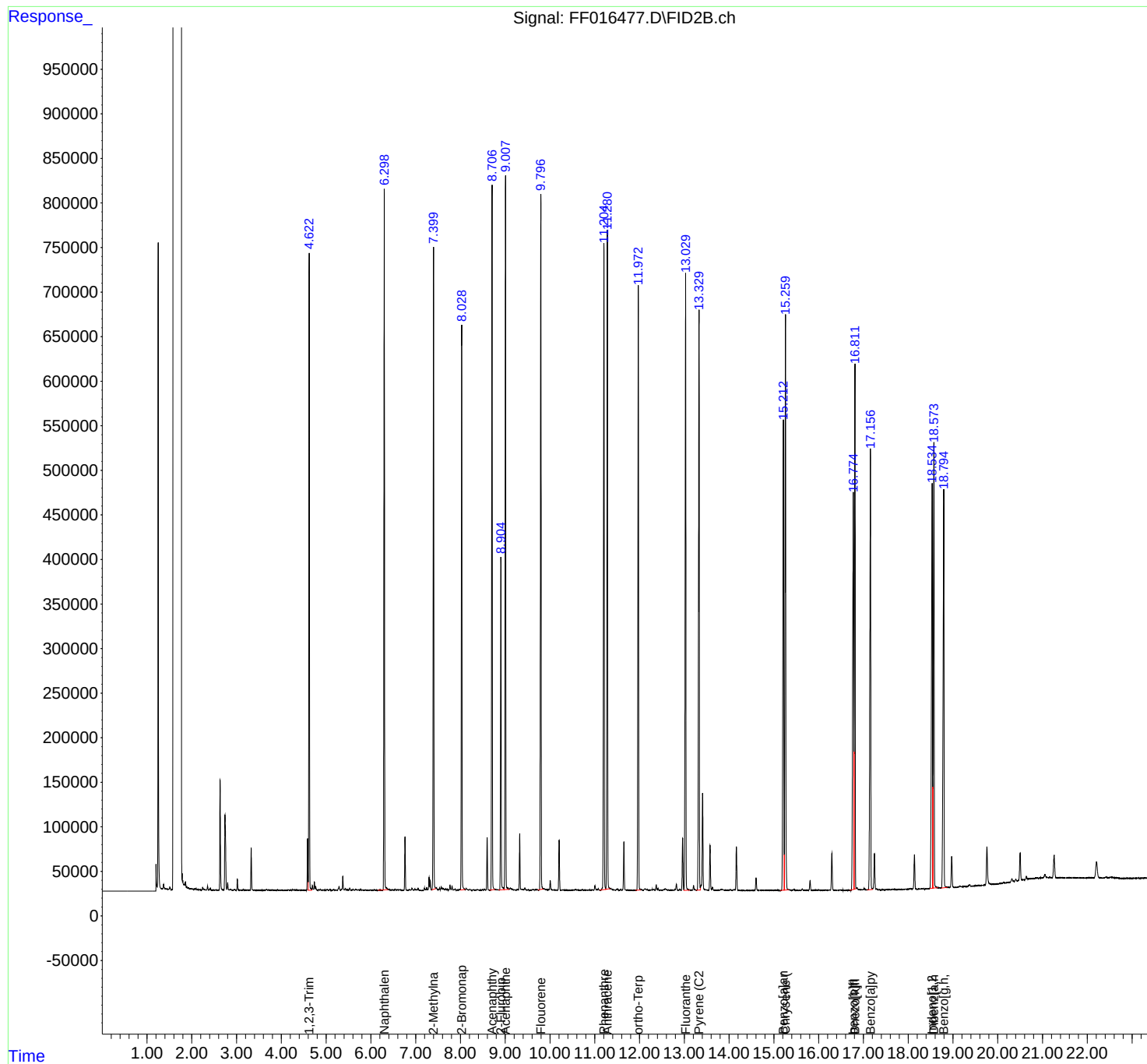
(m)=manual int.

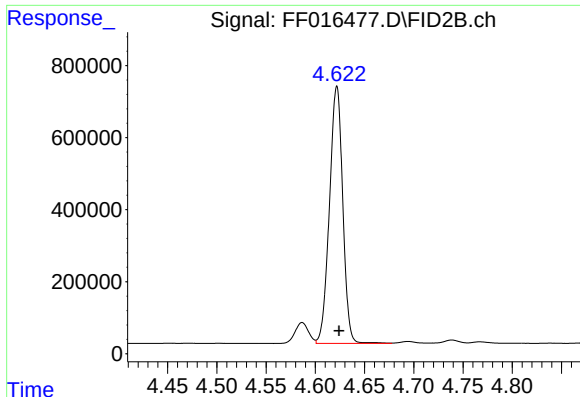
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016477.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 20:03  
Operator : YP\AJ  
Sample : Q3179-02MS  
Misc :  
ALS Vial : 88 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MS

Integration File: autoint1.e  
Quant Time: Sep 30 01:06:13 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:24:48 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

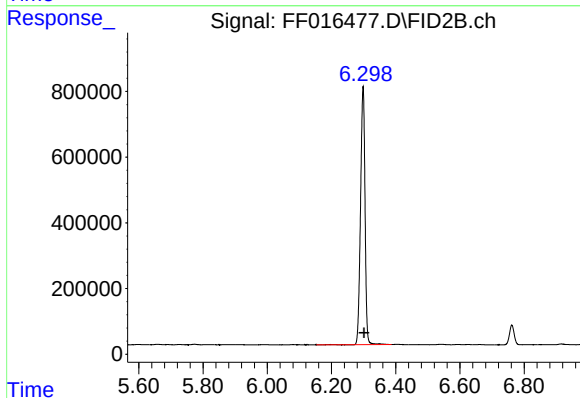




#1 1,2,3-Trimethylbenzene (C10.1)

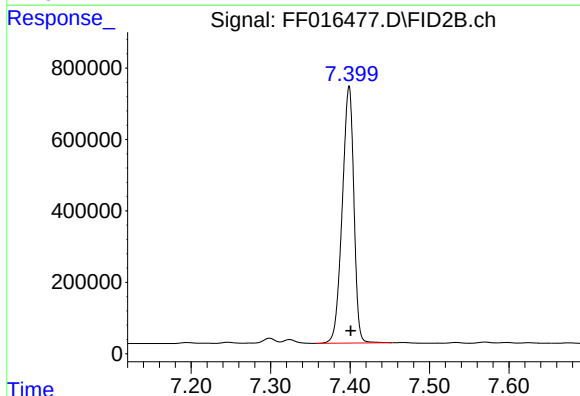
R.T.: 4.622 min  
Delta R.T.: -0.002 min  
Response: 6715880  
Conc: 47.64 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MS



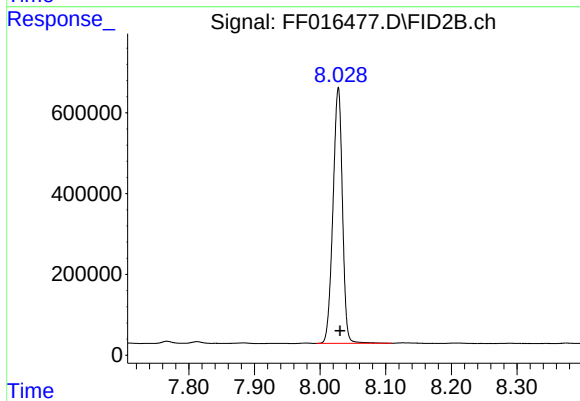
#2 Naphthalene (C11.7)

R.T.: 6.298 min  
Delta R.T.: -0.003 min  
Response: 7633096  
Conc: 52.40 ug/ml



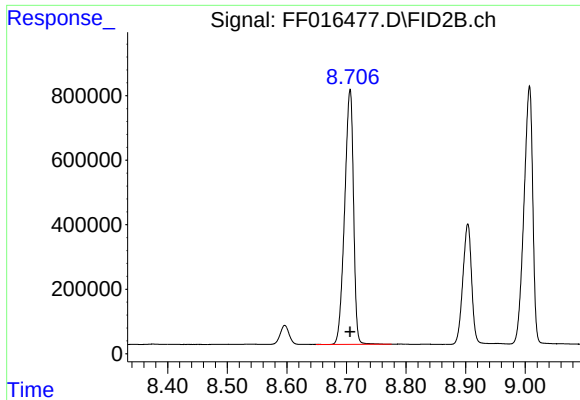
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.399 min  
Delta R.T.: -0.003 min  
Response: 7318749  
Conc: 49.71 ug/ml



#4 2-Bromonaphthalene (SURR)

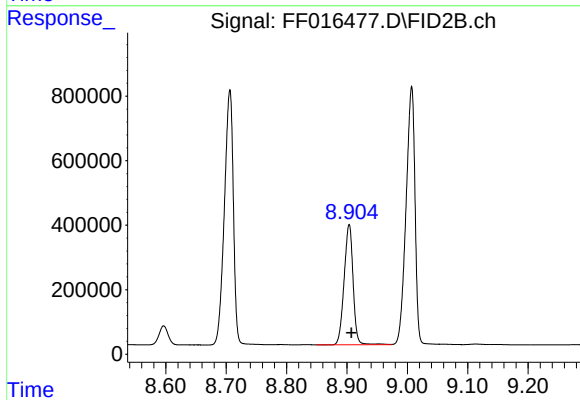
R.T.: 8.028 min  
Delta R.T.: -0.003 min  
Response: 6335476  
Conc: 50.58 ug/ml



#5 Acenaphthylene (C15.06)

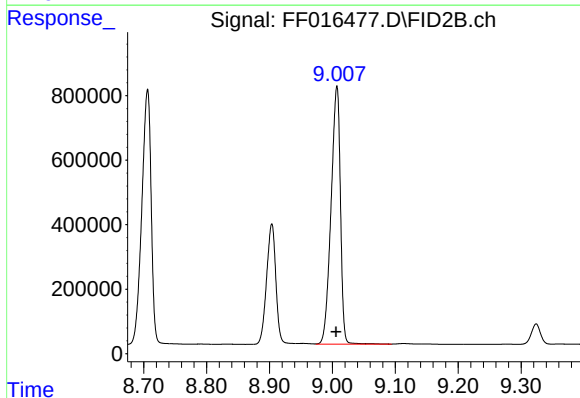
R.T.: 8.706 min  
Delta R.T.: 0.000 min  
Response: 8161379  
Conc: 56.32 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MS



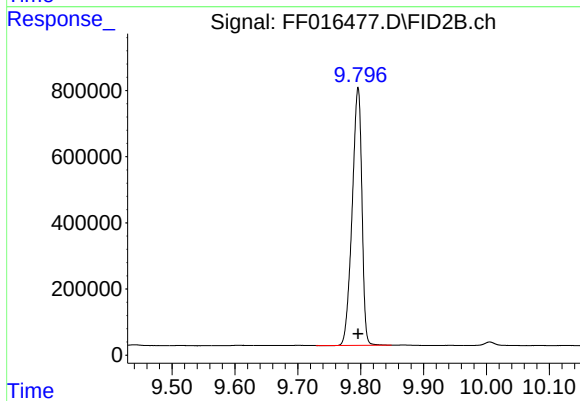
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.903 min  
Delta R.T.: -0.004 min  
Response: 3854619  
Conc: 45.70 ug/ml



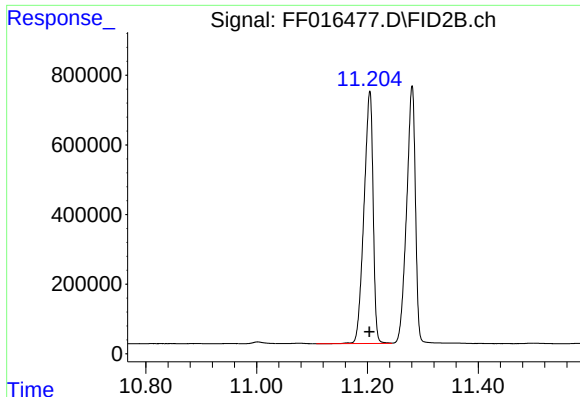
#7 Acenaphthene (C15.5)

R.T.: 9.007 min  
Delta R.T.: 0.000 min  
Response: 8269983  
Conc: 57.66 ug/ml



#8 Fluorene (C16.55)

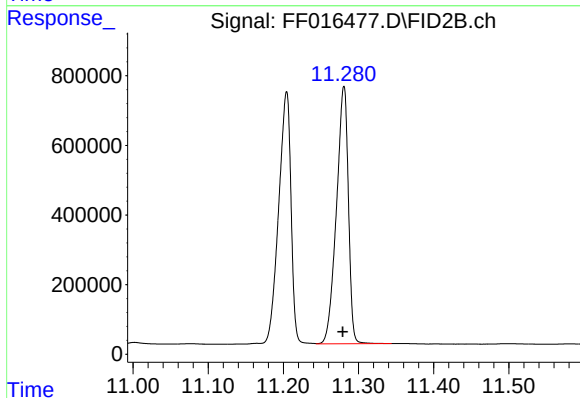
R.T.: 9.796 min  
Delta R.T.: 0.000 min  
Response: 8371917  
Conc: 57.95 ug/ml



#9 Phenanthrene (C19.36)

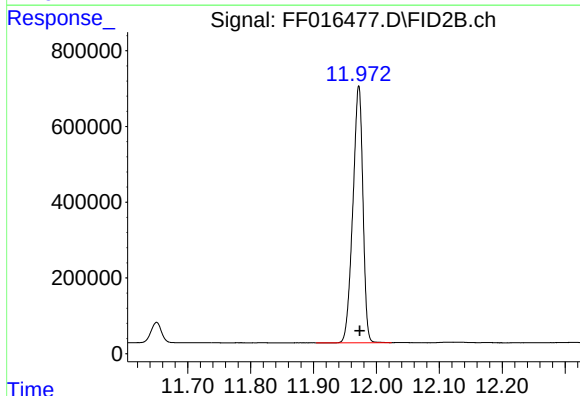
R.T.: 11.204 min  
Delta R.T.: 0.000 min  
Response: 8265463  
Conc: 56.67 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MS



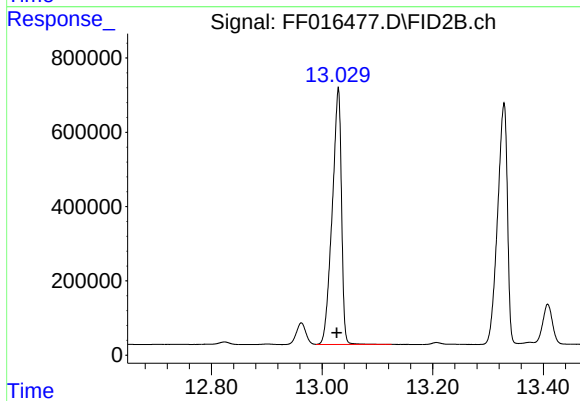
#10 Anthracene (C19.43)

R.T.: 11.280 min  
Delta R.T.: 0.001 min  
Response: 8159192  
Conc: 57.03 ug/ml



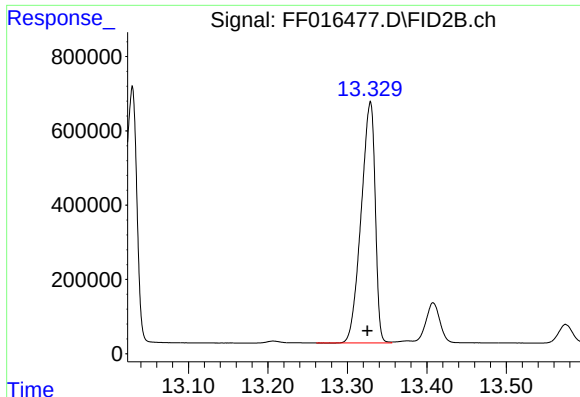
#11 ortho-Terphenyl (SURR)

R.T.: 11.972 min  
Delta R.T.: -0.002 min  
Response: 7536987  
Conc: 49.44 ug/ml



#12 Fluoranthene (C21.85)

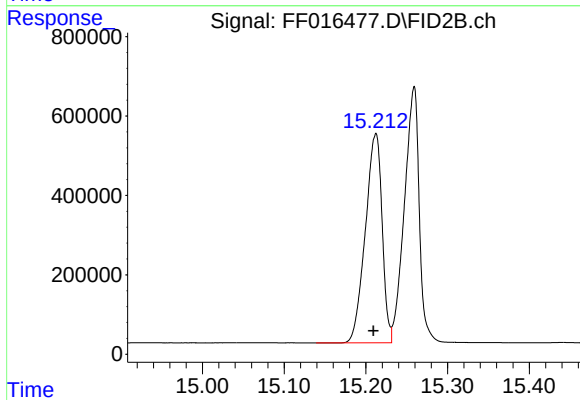
R.T.: 13.029 min  
Delta R.T.: 0.002 min  
Response: 8043584  
Conc: 55.07 ug/ml



#13 Pyrene (C20.8)

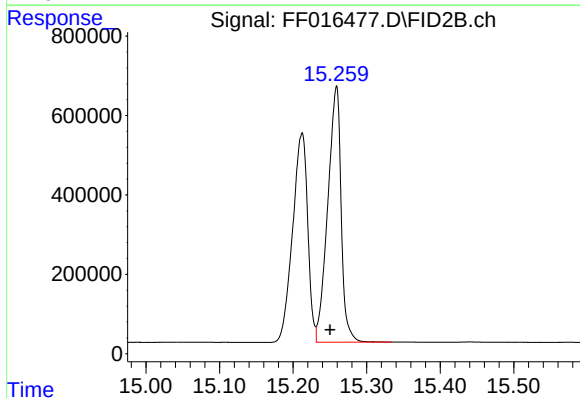
R.T.: 13.328 min  
Delta R.T.: 0.003 min  
Response: 7987278  
Conc: 55.74 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MS



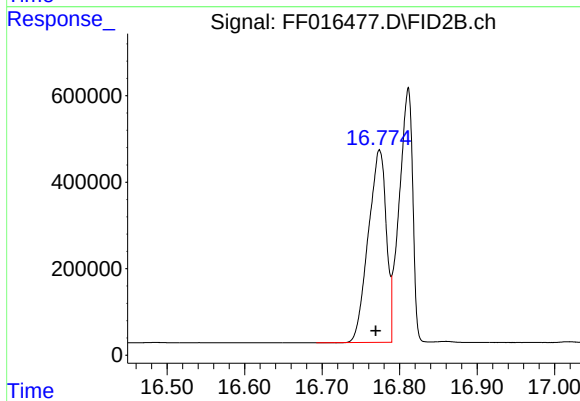
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min  
Delta R.T.: 0.003 min  
Response: 7505958  
Conc: 55.14 ug/ml



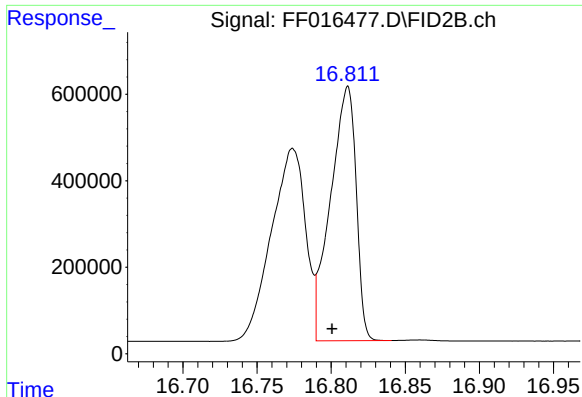
#15 Chrysene (C27.41)

R.T.: 15.258 min  
Delta R.T.: 0.008 min  
Response: 8158062  
Conc: 57.19 ug/ml



#16 benzo[b]fluoranthene (C30.41)

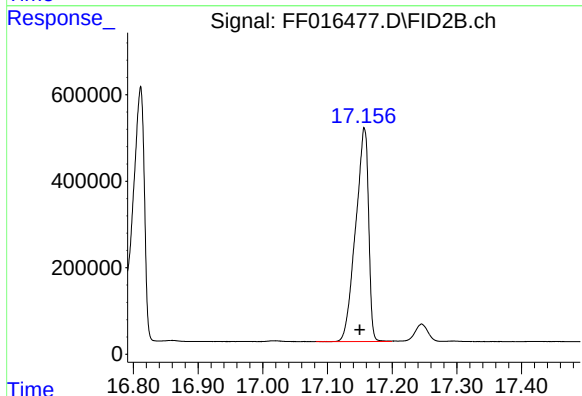
R.T.: 16.774 min  
Delta R.T.: 0.005 min  
Response: 7165472  
Conc: 54.53 ug/ml



#17 Bnezo[k]fluoranthene (C30.14)

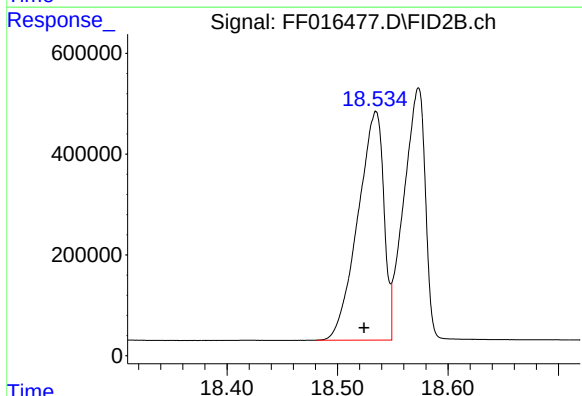
R.T.: 16.811 min  
Delta R.T.: 0.010 min  
Response: 7070755  
Conc: 56.18 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MS



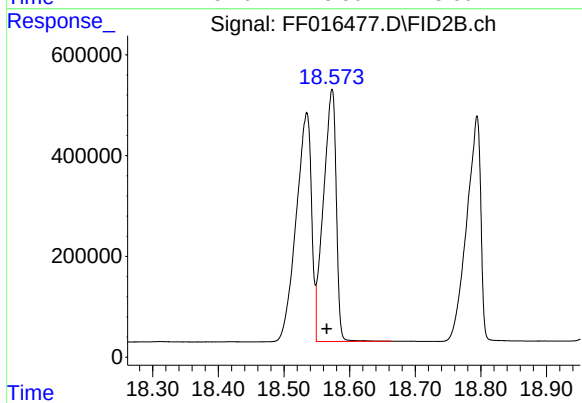
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.157 min  
Delta R.T.: 0.007 min  
Response: 6862551  
Conc: 53.74 ug/ml



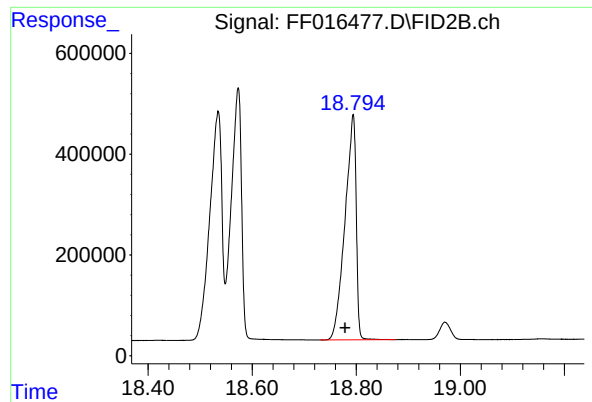
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.534 min  
Delta R.T.: 0.010 min  
Response: 7406464  
Conc: 64.95 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.573 min  
Delta R.T.: 0.008 min  
Response: 6766990  
Conc: 51.83 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.793 min  
Delta R.T.: 0.015 min  
Response: 6667087  
Conc: 54.14 ug/ml

Instrument :

FID\_F

ClientSampleId :

EME-TS14-01MS



rteres

Area Percent

## Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016477.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 20:03  
 Sample : Q3179-02MS  
 Misc :  
 ALS Vial : 88 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH  
 092425.M  
 Title : GC Extractables

Signal : FID2B.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 4.450       | 4.434        | 4.461      | PV       | 375            | 3543         | 0.04%          | 0.002%        |
| 2         | 4.470       | 4.461        | 4.485      | VV       | 404            | 4280         | 0.05%          | 0.003%        |
| 3         | 4.501       | 4.485        | 4.522      | VV       | 399            | 5359         | 0.06%          | 0.003%        |
| 4         | 4.526       | 4.522        | 4.547      | VV       | 199            | 1593         | 0.02%          | 0.001%        |
| 5         | 4.587       | 4.557        | 4.600      | VV       | 58192          | 551272       | 6.52%          | 0.324%        |
| 6         | 4.622       | 4.600        | 4.654      | VV       | 716174         | 6702812      | 79.24%         | 3.942%        |
| 7         | 4.658       | 4.654        | 4.677      | VV       | 2476           | 25438        | 0.30%          | 0.015%        |
| 8         | 4.694       | 4.677        | 4.716      | VV       | 5643           | 65064        | 0.77%          | 0.038%        |
| 9         | 4.739       | 4.716        | 4.755      | VV       | 9690           | 106263       | 1.26%          | 0.062%        |
| 10        | 4.767       | 4.755        | 4.797      | VV       | 4599           | 57099        | 0.68%          | 0.034%        |
| 11        | 4.805       | 4.797        | 4.824      | VV       | 654            | 7637         | 0.09%          | 0.004%        |
| 12        | 4.839       | 4.824        | 4.855      | VV       | 939            | 11625        | 0.14%          | 0.007%        |
| 13        | 4.871       | 4.855        | 4.890      | VV       | 1344           | 15794        | 0.19%          | 0.009%        |
| 14        | 4.907       | 4.890        | 4.927      | VV       | 460            | 7324         | 0.09%          | 0.004%        |
| 15        | 4.948       | 4.927        | 4.959      | VV       | 559            | 8431         | 0.10%          | 0.005%        |
| 16        | 4.973       | 4.959        | 4.991      | VV       | 537            | 8207         | 0.10%          | 0.005%        |
| 17        | 5.005       | 4.991        | 5.011      | VV       | 687            | 6617         | 0.08%          | 0.004%        |
| 18        | 5.026       | 5.011        | 5.060      | VV       | 1425           | 21011        | 0.25%          | 0.012%        |
| 19        | 5.082       | 5.060        | 5.135      | VV       | 1455           | 21424        | 0.25%          | 0.013%        |
| 20        | 5.163       | 5.135        | 5.192      | VV       | 1414           | 22483        | 0.27%          | 0.013%        |
| 21        | 5.204       | 5.192        | 5.218      | VV       | 586            | 7424         | 0.09%          | 0.004%        |
| 22        | 5.229       | 5.218        | 5.244      | VV       | 531            | 6180         | 0.07%          | 0.004%        |
| 23        | 5.290       | 5.244        | 5.327      | VV       | 4523           | 80290        | 0.95%          | 0.047%        |
| 24        | 5.351       | 5.327        | 5.355      | VV       | 1767           | 18432        | 0.22%          | 0.011%        |
| 25        | 5.373       | 5.355        | 5.410      | VV       | 16088          | 170817       | 2.02%          | 0.100%        |

| rteres |       |       |       |    |        |         |        |        |
|--------|-------|-------|-------|----|--------|---------|--------|--------|
| 26     | 5.427 | 5.410 | 5.455 | VV | 2451   | 33163   | 0.39%  | 0.020% |
| 27     | 5.476 | 5.455 | 5.486 | VV | 813    | 14224   | 0.17%  | 0.008% |
| 28     | 5.493 | 5.486 | 5.506 | VV | 712    | 7865    | 0.09%  | 0.005% |
| 29     | 5.528 | 5.506 | 5.576 | VV | 2851   | 44910   | 0.53%  | 0.026% |
| 30     | 5.598 | 5.576 | 5.641 | VV | 1175   | 26485   | 0.31%  | 0.016% |
|        |       |       |       |    |        |         |        |        |
| 31     | 5.658 | 5.641 | 5.677 | VV | 1731   | 23591   | 0.28%  | 0.014% |
| 32     | 5.689 | 5.677 | 5.708 | VV | 979    | 12717   | 0.15%  | 0.007% |
| 33     | 5.728 | 5.708 | 5.752 | VV | 1104   | 16063   | 0.19%  | 0.009% |
| 34     | 5.774 | 5.752 | 5.795 | VV | 1866   | 23857   | 0.28%  | 0.014% |
| 35     | 5.808 | 5.795 | 5.816 | VV | 483    | 5533    | 0.07%  | 0.003% |
|        |       |       |       |    |        |         |        |        |
| 36     | 5.829 | 5.816 | 5.847 | VV | 594    | 8979    | 0.11%  | 0.005% |
| 37     | 5.876 | 5.847 | 5.888 | VV | 697    | 12532   | 0.15%  | 0.007% |
| 38     | 5.893 | 5.888 | 5.910 | VV | 606    | 7096    | 0.08%  | 0.004% |
| 39     | 5.917 | 5.910 | 5.944 | VV | 488    | 7696    | 0.09%  | 0.005% |
| 40     | 5.947 | 5.944 | 5.967 | VV | 343    | 3737    | 0.04%  | 0.002% |
|        |       |       |       |    |        |         |        |        |
| 41     | 5.996 | 5.967 | 6.029 | VV | 598    | 13840   | 0.16%  | 0.008% |
| 42     | 6.040 | 6.029 | 6.064 | VV | 367    | 6192    | 0.07%  | 0.004% |
| 43     | 6.080 | 6.064 | 6.095 | VV | 865    | 10510   | 0.12%  | 0.006% |
| 44     | 6.100 | 6.095 | 6.110 | VV | 439    | 2984    | 0.04%  | 0.002% |
| 45     | 6.120 | 6.110 | 6.125 | VV | 388    | 2796    | 0.03%  | 0.002% |
|        |       |       |       |    |        |         |        |        |
| 46     | 6.132 | 6.125 | 6.146 | VV | 359    | 3966    | 0.05%  | 0.002% |
| 47     | 6.151 | 6.146 | 6.169 | VV | 361    | 3911    | 0.05%  | 0.002% |
| 48     | 6.195 | 6.169 | 6.229 | VV | 862    | 17805   | 0.21%  | 0.010% |
| 49     | 6.241 | 6.229 | 6.257 | VV | 381    | 4946    | 0.06%  | 0.003% |
| 50     | 6.299 | 6.257 | 6.388 | VV | 788585 | 7705658 | 91.09% | 4.532% |
|        |       |       |       |    |        |         |        |        |
| 51     | 6.406 | 6.388 | 6.436 | VV | 1778   | 34777   | 0.41%  | 0.020% |
| 52     | 6.439 | 6.436 | 6.456 | VV | 790    | 8425    | 0.10%  | 0.005% |
| 53     | 6.472 | 6.456 | 6.505 | VV | 887    | 19956   | 0.24%  | 0.012% |
| 54     | 6.541 | 6.505 | 6.574 | VV | 1750   | 37154   | 0.44%  | 0.022% |
| 55     | 6.593 | 6.574 | 6.611 | VV | 1221   | 17778   | 0.21%  | 0.010% |
|        |       |       |       |    |        |         |        |        |
| 56     | 6.625 | 6.611 | 6.641 | VV | 1217   | 14709   | 0.17%  | 0.009% |
| 57     | 6.661 | 6.641 | 6.683 | VV | 980    | 17327   | 0.20%  | 0.010% |
| 58     | 6.694 | 6.683 | 6.706 | VV | 303    | 3934    | 0.05%  | 0.002% |
| 59     | 6.721 | 6.706 | 6.734 | VV | 419    | 5703    | 0.07%  | 0.003% |
| 60     | 6.762 | 6.734 | 6.795 | VV | 60332  | 618931  | 7.32%  | 0.364% |
|        |       |       |       |    |        |         |        |        |
| 61     | 6.819 | 6.795 | 6.836 | VV | 781    | 14344   | 0.17%  | 0.008% |
| 62     | 6.851 | 6.836 | 6.871 | VV | 935    | 13971   | 0.17%  | 0.008% |
| 63     | 6.883 | 6.871 | 6.894 | VV | 758    | 8840    | 0.10%  | 0.005% |
| 64     | 6.916 | 6.894 | 6.962 | VV | 2876   | 52408   | 0.62%  | 0.031% |
| 65     | 6.981 | 6.962 | 7.005 | VV | 1817   | 28439   | 0.34%  | 0.017% |
|        |       |       |       |    |        |         |        |        |
| 66     | 7.018 | 7.005 | 7.035 | VV | 1393   | 17785   | 0.21%  | 0.010% |
| 67     | 7.054 | 7.035 | 7.079 | VV | 2868   | 35553   | 0.42%  | 0.021% |
| 68     | 7.081 | 7.079 | 7.120 | VV | 440    | 4999    | 0.06%  | 0.003% |
| 69     | 7.141 | 7.120 | 7.154 | PV | 243    | 2362    | 0.03%  | 0.001% |

|     |       |       |       |         |        |         |        |        |
|-----|-------|-------|-------|---------|--------|---------|--------|--------|
|     |       |       |       | riteres |        |         |        |        |
| 70  | 7.162 | 7.154 | 7.174 | VV      | 148    | 1317    | 0.02%  | 0.001% |
| 71  | 7.195 | 7.174 | 7.211 | VV      | 2830   | 32334   | 0.38%  | 0.019% |
| 72  | 7.217 | 7.211 | 7.232 | VV      | 1074   | 11705   | 0.14%  | 0.007% |
| 73  | 7.246 | 7.232 | 7.264 | VV      | 3690   | 41239   | 0.49%  | 0.024% |
| 74  | 7.299 | 7.264 | 7.312 | VV      | 15158  | 170937  | 2.02%  | 0.101% |
| 75  | 7.324 | 7.312 | 7.357 | VV      | 11224  | 126247  | 1.49%  | 0.074% |
| 76  | 7.399 | 7.357 | 7.457 | VV      | 722918 | 7412182 | 87.62% | 4.359% |
| 77  | 7.467 | 7.457 | 7.497 | VV      | 2876   | 45001   | 0.53%  | 0.026% |
| 78  | 7.511 | 7.497 | 7.518 | VV      | 1255   | 14305   | 0.17%  | 0.008% |
| 79  | 7.534 | 7.518 | 7.550 | VV      | 3158   | 36861   | 0.44%  | 0.022% |
| 80  | 7.570 | 7.550 | 7.584 | VV      | 4141   | 51225   | 0.61%  | 0.030% |
| 81  | 7.598 | 7.584 | 7.611 | VV      | 3028   | 37799   | 0.45%  | 0.022% |
| 82  | 7.624 | 7.611 | 7.641 | VV      | 2460   | 31191   | 0.37%  | 0.018% |
| 83  | 7.650 | 7.641 | 7.661 | VV      | 1240   | 13281   | 0.16%  | 0.008% |
| 84  | 7.675 | 7.661 | 7.689 | VV      | 2062   | 23727   | 0.28%  | 0.014% |
| 85  | 7.708 | 7.689 | 7.726 | VV      | 1627   | 24499   | 0.29%  | 0.014% |
| 86  | 7.767 | 7.726 | 7.792 | VV      | 6132   | 86066   | 1.02%  | 0.051% |
| 87  | 7.813 | 7.792 | 7.852 | VV      | 5126   | 75392   | 0.89%  | 0.044% |
| 88  | 7.883 | 7.852 | 7.911 | VV      | 2058   | 37679   | 0.45%  | 0.022% |
| 89  | 7.940 | 7.911 | 7.959 | VV      | 830    | 19040   | 0.23%  | 0.011% |
| 90  | 7.979 | 7.959 | 7.994 | VV      | 1627   | 21668   | 0.26%  | 0.013% |
| 91  | 8.028 | 7.994 | 8.110 | VV      | 633193 | 6403935 | 75.70% | 3.766% |
| 92  | 8.126 | 8.110 | 8.164 | VV      | 2267   | 50847   | 0.60%  | 0.030% |
| 93  | 8.172 | 8.164 | 8.187 | VV      | 978    | 12257   | 0.14%  | 0.007% |
| 94  | 8.209 | 8.187 | 8.239 | VV      | 1698   | 34461   | 0.41%  | 0.020% |
| 95  | 8.246 | 8.239 | 8.256 | VV      | 617    | 5774    | 0.07%  | 0.003% |
| 96  | 8.259 | 8.256 | 8.264 | VV      | 596    | 2391    | 0.03%  | 0.001% |
| 97  | 8.289 | 8.264 | 8.334 | VV      | 1095   | 28506   | 0.34%  | 0.017% |
| 98  | 8.344 | 8.334 | 8.355 | VV      | 638    | 6692    | 0.08%  | 0.004% |
| 99  | 8.375 | 8.355 | 8.407 | VV      | 1524   | 26660   | 0.32%  | 0.016% |
| 100 | 8.413 | 8.407 | 8.431 | VV      | 679    | 7775    | 0.09%  | 0.005% |
| 101 | 8.436 | 8.431 | 8.446 | VV      | 498    | 4378    | 0.05%  | 0.003% |
| 102 | 8.452 | 8.446 | 8.466 | VV      | 573    | 5713    | 0.07%  | 0.003% |
| 103 | 8.500 | 8.466 | 8.518 | VV      | 910    | 22341   | 0.26%  | 0.013% |
| 104 | 8.537 | 8.518 | 8.564 | VV      | 1246   | 25091   | 0.30%  | 0.015% |
| 105 | 8.597 | 8.564 | 8.652 | VV      | 59685  | 638464  | 7.55%  | 0.375% |
| 106 | 8.655 | 8.652 | 8.668 | VV      | 548    | 3889    | 0.05%  | 0.002% |
| 107 | 8.706 | 8.668 | 8.775 | VV      | 790035 | 8219225 | 97.16% | 4.834% |
| 108 | 8.792 | 8.775 | 8.816 | VV      | 1600   | 29262   | 0.35%  | 0.017% |
| 109 | 8.832 | 8.816 | 8.867 | VV      | 1265   | 26096   | 0.31%  | 0.015% |
| 110 | 8.904 | 8.867 | 8.944 | VV      | 374736 | 3864122 | 45.68% | 2.273% |
| 111 | 8.953 | 8.944 | 8.974 | VV      | 3475   | 53022   | 0.63%  | 0.031% |
| 112 | 9.007 | 8.974 | 9.054 | VV      | 803043 | 8313232 | 98.28% | 4.889% |

|     |        |        |        |        |        |         |         |        |
|-----|--------|--------|--------|--------|--------|---------|---------|--------|
|     |        |        |        | rteres |        |         |         |        |
| 113 | 9.062  | 9.054  | 9.093  | VV     | 2588   | 47282   | 0.56%   | 0.028% |
| 114 | 9.113  | 9.093  | 9.147  | VV     | 3124   | 69419   | 0.82%   | 0.041% |
| 115 | 9.150  | 9.147  | 9.181  | VV     | 1631   | 23389   | 0.28%   | 0.014% |
| 116 | 9.204  | 9.181  | 9.239  | VV     | 863    | 25346   | 0.30%   | 0.015% |
| 117 | 9.254  | 9.239  | 9.262  | VV     | 884    | 10377   | 0.12%   | 0.006% |
| 118 | 9.279  | 9.262  | 9.295  | VV     | 1342   | 19548   | 0.23%   | 0.011% |
| 119 | 9.324  | 9.295  | 9.350  | VV     | 64173  | 660073  | 7.80%   | 0.388% |
| 120 | 9.361  | 9.350  | 9.397  | VV     | 1678   | 37461   | 0.44%   | 0.022% |
| 121 | 9.402  | 9.397  | 9.414  | VV     | 1004   | 9710    | 0.11%   | 0.006% |
| 122 | 9.440  | 9.414  | 9.493  | VV     | 3019   | 61388   | 0.73%   | 0.036% |
| 123 | 9.514  | 9.493  | 9.541  | VV     | 908    | 16334   | 0.19%   | 0.010% |
| 124 | 9.563  | 9.541  | 9.584  | VV     | 608    | 10685   | 0.13%   | 0.006% |
| 125 | 9.603  | 9.584  | 9.633  | VV     | 1356   | 28282   | 0.33%   | 0.017% |
| 126 | 9.644  | 9.633  | 9.660  | VV     | 1037   | 14816   | 0.18%   | 0.009% |
| 127 | 9.671  | 9.660  | 9.687  | VV     | 1020   | 15196   | 0.18%   | 0.009% |
| 128 | 9.702  | 9.687  | 9.747  | VV     | 1347   | 32844   | 0.39%   | 0.019% |
| 129 | 9.796  | 9.747  | 9.852  | VV     | 781314 | 8459130 | 100.00% | 4.975% |
| 130 | 9.868  | 9.852  | 9.902  | VV     | 2409   | 52338   | 0.62%   | 0.031% |
| 131 | 9.908  | 9.902  | 9.923  | VV     | 1137   | 12817   | 0.15%   | 0.008% |
| 132 | 9.944  | 9.923  | 9.969  | VV     | 1381   | 29930   | 0.35%   | 0.018% |
| 133 | 10.005 | 9.969  | 10.067 | VV     | 11530  | 170252  | 2.01%   | 0.100% |
| 134 | 10.087 | 10.067 | 10.101 | VV     | 817    | 14434   | 0.17%   | 0.008% |
| 135 | 10.127 | 10.101 | 10.159 | VV     | 896    | 23228   | 0.27%   | 0.014% |
| 136 | 10.204 | 10.159 | 10.251 | VV     | 56712  | 651354  | 7.70%   | 0.383% |
| 137 | 10.256 | 10.251 | 10.259 | VV     | 455    | 2001    | 0.02%   | 0.001% |
| 138 | 10.281 | 10.259 | 10.286 | VV     | 678    | 9348    | 0.11%   | 0.005% |
| 139 | 10.300 | 10.286 | 10.338 | VV     | 935    | 19807   | 0.23%   | 0.012% |
| 140 | 10.374 | 10.338 | 10.402 | VV     | 795    | 19231   | 0.23%   | 0.011% |
| 141 | 10.407 | 10.402 | 10.421 | VV     | 450    | 4261    | 0.05%   | 0.003% |
| 142 | 10.435 | 10.421 | 10.461 | VV     | 502    | 8865    | 0.10%   | 0.005% |
| 143 | 10.481 | 10.461 | 10.496 | VV     | 823    | 11987   | 0.14%   | 0.007% |
| 144 | 10.515 | 10.496 | 10.520 | VV     | 699    | 8860    | 0.10%   | 0.005% |
| 145 | 10.530 | 10.520 | 10.549 | VV     | 813    | 12014   | 0.14%   | 0.007% |
| 146 | 10.567 | 10.549 | 10.591 | VV     | 1417   | 26350   | 0.31%   | 0.015% |
| 147 | 10.598 | 10.591 | 10.618 | VV     | 1016   | 12755   | 0.15%   | 0.008% |
| 148 | 10.634 | 10.618 | 10.662 | VV     | 867    | 15985   | 0.19%   | 0.009% |
| 149 | 10.676 | 10.662 | 10.700 | VV     | 592    | 11003   | 0.13%   | 0.006% |
| 150 | 10.723 | 10.700 | 10.746 | VV     | 920    | 18218   | 0.22%   | 0.011% |
| 151 | 10.761 | 10.746 | 10.775 | VV     | 683    | 9093    | 0.11%   | 0.005% |
| 152 | 10.789 | 10.775 | 10.796 | VV     | 645    | 7082    | 0.08%   | 0.004% |
| 153 | 10.812 | 10.796 | 10.820 | VV     | 766    | 9256    | 0.11%   | 0.005% |
| 154 | 10.827 | 10.820 | 10.840 | VV     | 709    | 8054    | 0.10%   | 0.005% |
| 155 | 10.845 | 10.840 | 10.848 | VV     | 697    | 3195    | 0.04%   | 0.002% |

|     |        |        |        |    | rteres |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
| 156 | 10.851 | 10.848 | 10.864 | VV | 690    | 5572    | 0.07%  | 0.003% |
| 157 | 10.888 | 10.864 | 10.910 | VV | 890    | 17230   | 0.20%  | 0.010% |
| 158 | 10.917 | 10.910 | 10.924 | VV | 577    | 4505    | 0.05%  | 0.003% |
| 159 | 10.926 | 10.924 | 10.931 | VV | 593    | 2109    | 0.02%  | 0.001% |
| 160 | 10.947 | 10.931 | 10.977 | VV | 800    | 18386   | 0.22%  | 0.011% |
|     |        |        |        |    |        |         |        |        |
| 161 | 11.002 | 10.977 | 11.052 | VV | 5690   | 98032   | 1.16%  | 0.058% |
| 162 | 11.076 | 11.052 | 11.127 | VV | 1921   | 43011   | 0.51%  | 0.025% |
| 163 | 11.204 | 11.127 | 11.245 | VV | 726387 | 8341426 | 98.61% | 4.906% |
| 164 | 11.281 | 11.245 | 11.345 | VV | 742556 | 8268946 | 97.75% | 4.863% |
| 165 | 11.355 | 11.345 | 11.392 | VV | 2475   | 54949   | 0.65%  | 0.032% |
|     |        |        |        |    |        |         |        |        |
| 166 | 11.401 | 11.392 | 11.432 | VV | 1201   | 22939   | 0.27%  | 0.013% |
| 167 | 11.437 | 11.432 | 11.444 | VV | 710    | 4877    | 0.06%  | 0.003% |
| 168 | 11.450 | 11.444 | 11.466 | VV | 733    | 9164    | 0.11%  | 0.005% |
| 169 | 11.495 | 11.466 | 11.557 | VV | 1929   | 57773   | 0.68%  | 0.034% |
| 170 | 11.580 | 11.557 | 11.605 | VV | 1461   | 26135   | 0.31%  | 0.015% |
|     |        |        |        |    |        |         |        |        |
| 171 | 11.651 | 11.605 | 11.709 | VV | 54880  | 660292  | 7.81%  | 0.388% |
| 172 | 11.722 | 11.709 | 11.764 | VV | 744    | 18251   | 0.22%  | 0.011% |
| 173 | 11.783 | 11.764 | 11.796 | VV | 495    | 7697    | 0.09%  | 0.005% |
| 174 | 11.819 | 11.796 | 11.857 | VV | 561    | 14090   | 0.17%  | 0.008% |
| 175 | 11.879 | 11.857 | 11.891 | VV | 484    | 8230    | 0.10%  | 0.005% |
|     |        |        |        |    |        |         |        |        |
| 176 | 11.900 | 11.891 | 11.919 | VV | 506    | 6088    | 0.07%  | 0.004% |
| 177 | 11.972 | 11.919 | 12.024 | VV | 680375 | 7576007 | 89.56% | 4.456% |
| 178 | 12.039 | 12.024 | 12.085 | VV | 1209   | 29930   | 0.35%  | 0.018% |
| 179 | 12.112 | 12.085 | 12.122 | VV | 1954   | 29439   | 0.35%  | 0.017% |
| 180 | 12.132 | 12.122 | 12.166 | VV | 1995   | 35999   | 0.43%  | 0.021% |
|     |        |        |        |    |        |         |        |        |
| 181 | 12.177 | 12.166 | 12.205 | VV | 1104   | 17487   | 0.21%  | 0.010% |
| 182 | 12.222 | 12.205 | 12.236 | VV | 616    | 9183    | 0.11%  | 0.005% |
| 183 | 12.251 | 12.236 | 12.267 | VV | 791    | 12653   | 0.15%  | 0.007% |
| 184 | 12.315 | 12.267 | 12.346 | VV | 1512   | 45142   | 0.53%  | 0.027% |
| 185 | 12.373 | 12.346 | 12.396 | VV | 6546   | 90084   | 1.06%  | 0.053% |
|     |        |        |        |    |        |         |        |        |
| 186 | 12.412 | 12.396 | 12.440 | VV | 2437   | 35887   | 0.42%  | 0.021% |
| 187 | 12.456 | 12.440 | 12.467 | VV | 633    | 8303    | 0.10%  | 0.005% |
| 188 | 12.480 | 12.467 | 12.511 | VV | 751    | 13912   | 0.16%  | 0.008% |
| 189 | 12.543 | 12.511 | 12.556 | VV | 1383   | 25073   | 0.30%  | 0.015% |
| 190 | 12.570 | 12.556 | 12.637 | VV | 2425   | 60075   | 0.71%  | 0.035% |
|     |        |        |        |    |        |         |        |        |
| 191 | 12.647 | 12.637 | 12.682 | VV | 727    | 14508   | 0.17%  | 0.009% |
| 192 | 12.699 | 12.682 | 12.734 | VV | 630    | 17405   | 0.21%  | 0.010% |
| 193 | 12.747 | 12.734 | 12.766 | VV | 739    | 12097   | 0.14%  | 0.007% |
| 194 | 12.824 | 12.766 | 12.851 | VV | 7224   | 118957  | 1.41%  | 0.070% |
| 195 | 12.861 | 12.851 | 12.866 | VV | 463    | 4039    | 0.05%  | 0.002% |
|     |        |        |        |    |        |         |        |        |
| 196 | 12.869 | 12.866 | 12.880 | VV | 469    | 3549    | 0.04%  | 0.002% |
| 197 | 12.901 | 12.880 | 12.929 | VV | 1638   | 24381   | 0.29%  | 0.014% |
| 198 | 12.963 | 12.929 | 12.990 | VV | 58800  | 708231  | 8.37%  | 0.417% |
| 199 | 13.029 | 12.990 | 13.139 | VV | 691157 | 8083284 | 95.56% | 4.754% |

|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
| 200 | 13.142 | 13.139 | 13.179 | VV | 605    | 12110   | 0.14%  | 0.007% |
| 201 | 13.207 | 13.179 | 13.281 | VV | 5804   | 98458   | 1.16%  | 0.058% |
| 202 | 13.329 | 13.281 | 13.356 | VV | 651358 | 8014105 | 94.74% | 4.713% |
| 203 | 13.376 | 13.356 | 13.382 | VV | 6305   | 78767   | 0.93%  | 0.046% |
| 204 | 13.408 | 13.382 | 13.489 | VV | 109060 | 1382291 | 16.34% | 0.813% |
| 205 | 13.499 | 13.489 | 13.532 | VV | 814    | 16179   | 0.19%  | 0.010% |
| 206 | 13.535 | 13.532 | 13.542 | VV | 489    | 2490    | 0.03%  | 0.001% |
| 207 | 13.575 | 13.542 | 13.609 | VV | 50834  | 636805  | 7.53%  | 0.375% |
| 208 | 13.629 | 13.609 | 13.667 | VV | 3930   | 61208   | 0.72%  | 0.036% |
| 209 | 13.671 | 13.667 | 13.675 | VV | 477    | 2208    | 0.03%  | 0.001% |
| 210 | 13.695 | 13.675 | 13.729 | VV | 647    | 14909   | 0.18%  | 0.009% |
| 211 | 13.774 | 13.729 | 13.800 | VV | 780    | 23116   | 0.27%  | 0.014% |
| 212 | 13.813 | 13.800 | 13.861 | VV | 1307   | 39844   | 0.47%  | 0.023% |
| 213 | 13.864 | 13.861 | 13.892 | VV | 1028   | 13638   | 0.16%  | 0.008% |
| 214 | 13.912 | 13.892 | 13.947 | VV | 709    | 17498   | 0.21%  | 0.010% |
| 215 | 13.954 | 13.947 | 13.976 | VV | 534    | 8284    | 0.10%  | 0.005% |
| 216 | 13.980 | 13.976 | 13.997 | VV | 548    | 5713    | 0.07%  | 0.003% |
| 217 | 14.025 | 13.997 | 14.054 | VV | 1128   | 22858   | 0.27%  | 0.013% |
| 218 | 14.078 | 14.054 | 14.088 | VV | 446    | 7933    | 0.09%  | 0.005% |
| 219 | 14.113 | 14.088 | 14.133 | VV | 1422   | 24308   | 0.29%  | 0.014% |
| 220 | 14.163 | 14.133 | 14.214 | VV | 49082  | 625448  | 7.39%  | 0.368% |
| 221 | 14.221 | 14.214 | 14.244 | VV | 433    | 5804    | 0.07%  | 0.003% |
| 222 | 14.248 | 14.244 | 14.278 | VV | 211    | 2539    | 0.03%  | 0.001% |
| 223 | 14.287 | 14.278 | 14.312 | VV | 192    | 2391    | 0.03%  | 0.001% |
| 224 | 14.323 | 14.312 | 14.359 | VV | 126    | 1309    | 0.02%  | 0.001% |
| 225 | 14.394 | 14.359 | 14.426 | PV | 297    | 6672    | 0.08%  | 0.004% |
| 226 | 14.449 | 14.431 | 14.477 | VV | 226    | 3697    | 0.04%  | 0.002% |
| 227 | 14.506 | 14.477 | 14.543 | VV | 292    | 6190    | 0.07%  | 0.004% |
| 228 | 14.555 | 14.543 | 14.567 | VV | 254    | 2481    | 0.03%  | 0.001% |
| 229 | 14.602 | 14.567 | 14.635 | VV | 14269  | 187475  | 2.22%  | 0.110% |
| 230 | 14.645 | 14.635 | 14.650 | VV | 482    | 3818    | 0.05%  | 0.002% |
| 231 | 14.653 | 14.650 | 14.706 | VV | 449    | 10022   | 0.12%  | 0.006% |
| 232 | 14.730 | 14.706 | 14.751 | VV | 445    | 7427    | 0.09%  | 0.004% |
| 233 | 14.788 | 14.758 | 14.811 | VV | 555    | 10937   | 0.13%  | 0.006% |
| 234 | 14.830 | 14.811 | 14.849 | VV | 495    | 8564    | 0.10%  | 0.005% |
| 235 | 14.863 | 14.849 | 14.909 | VV | 401    | 11181   | 0.13%  | 0.007% |
| 236 | 14.937 | 14.909 | 14.956 | VV | 481    | 10072   | 0.12%  | 0.006% |
| 237 | 14.961 | 14.956 | 14.969 | VV | 278    | 1961    | 0.02%  | 0.001% |
| 238 | 14.990 | 14.969 | 15.005 | VV | 316    | 5045    | 0.06%  | 0.003% |
| 239 | 15.044 | 15.005 | 15.064 | VV | 537    | 12762   | 0.15%  | 0.008% |
| 240 | 15.081 | 15.064 | 15.095 | VV | 431    | 6545    | 0.08%  | 0.004% |
| 241 | 15.106 | 15.095 | 15.129 | VV | 294    | 3842    | 0.05%  | 0.002% |
| 242 | 15.134 | 15.129 | 15.154 | VV | 133    | 1130    | 0.01%  | 0.001% |

|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
|     |        |        |        |    | rters  |         |        |        |
| 243 | 15.212 | 15.154 | 15.231 | PV | 528491 | 7515191 | 88.84% | 4.420% |
| 244 | 15.259 | 15.231 | 15.335 | VV | 646520 | 8203659 | 96.98% | 4.825% |
| 245 | 15.352 | 15.335 | 15.404 | VV | 954    | 24934   | 0.29%  | 0.015% |
| 246 | 15.407 | 15.404 | 15.419 | VV | 401    | 3236    | 0.04%  | 0.002% |
| 247 | 15.440 | 15.419 | 15.502 | VV | 1127   | 26529   | 0.31%  | 0.016% |
| 248 | 15.516 | 15.502 | 15.554 | VV | 265    | 4945    | 0.06%  | 0.003% |
| 249 | 15.571 | 15.554 | 15.594 | VV | 292    | 4075    | 0.05%  | 0.002% |
| 250 | 15.633 | 15.594 | 15.666 | VV | 1871   | 28369   | 0.34%  | 0.017% |
| 251 | 15.681 | 15.666 | 15.720 | VV | 569    | 10851   | 0.13%  | 0.006% |
| 252 | 15.743 | 15.720 | 15.749 | VV | 260    | 3600    | 0.04%  | 0.002% |
| 253 | 15.758 | 15.755 | 15.766 | VV | 236    | 1306    | 0.02%  | 0.001% |
| 254 | 15.808 | 15.766 | 15.856 | VV | 11006  | 151807  | 1.79%  | 0.089% |
| 255 | 15.865 | 15.856 | 15.872 | VV | 155    | 1479    | 0.02%  | 0.001% |
| 256 | 15.880 | 15.872 | 15.892 | VV | 233    | 2331    | 0.03%  | 0.001% |
| 257 | 15.919 | 15.892 | 15.931 | VV | 439    | 6976    | 0.08%  | 0.004% |
| 258 | 15.934 | 15.931 | 15.954 | VV | 324    | 3887    | 0.05%  | 0.002% |
| 259 | 15.975 | 15.954 | 15.989 | VV | 534    | 9049    | 0.11%  | 0.005% |
| 260 | 16.003 | 15.989 | 16.029 | VV | 634    | 10214   | 0.12%  | 0.006% |
| 261 | 16.039 | 16.029 | 16.070 | VV | 324    | 6134    | 0.07%  | 0.004% |
| 262 | 16.121 | 16.070 | 16.130 | VV | 354    | 9420    | 0.11%  | 0.006% |
| 263 | 16.157 | 16.130 | 16.204 | VV | 551    | 13901   | 0.16%  | 0.008% |
| 264 | 16.221 | 16.204 | 16.242 | VV | 247    | 4475    | 0.05%  | 0.003% |
| 265 | 16.257 | 16.242 | 16.264 | VV | 548    | 5742    | 0.07%  | 0.003% |
| 266 | 16.295 | 16.264 | 16.336 | VV | 41702  | 565281  | 6.68%  | 0.332% |
| 267 | 16.344 | 16.336 | 16.381 | VV | 376    | 6183    | 0.07%  | 0.004% |
| 268 | 16.404 | 16.381 | 16.456 | VV | 269    | 5278    | 0.06%  | 0.003% |
| 269 | 16.486 | 16.456 | 16.516 | VV | 792    | 12619   | 0.15%  | 0.007% |
| 270 | 16.541 | 16.516 | 16.574 | VV | 356    | 2633    | 0.03%  | 0.002% |
| 271 | 16.587 | 16.574 | 16.639 | VV | 116    | 1835    | 0.02%  | 0.001% |
| 272 | 16.652 | 16.639 | 16.665 | PV | 191    | 1726    | 0.02%  | 0.001% |
| 273 | 16.681 | 16.665 | 16.694 | VV | 211    | 1860    | 0.02%  | 0.001% |
| 274 | 16.714 | 16.694 | 16.719 | VV | 155    | 1066    | 0.01%  | 0.001% |
| 275 | 16.774 | 16.719 | 16.790 | PV | 446035 | 7172887 | 84.79% | 4.219% |
| 276 | 16.811 | 16.790 | 16.840 | VV | 588912 | 7147144 | 84.49% | 4.203% |
| 277 | 16.860 | 16.840 | 16.901 | VV | 3144   | 60809   | 0.72%  | 0.036% |
| 278 | 16.907 | 16.901 | 16.949 | VV | 685    | 16409   | 0.19%  | 0.010% |
| 279 | 16.955 | 16.949 | 16.966 | VV | 537    | 5241    | 0.06%  | 0.003% |
| 280 | 16.969 | 16.966 | 16.997 | VV | 589    | 9706    | 0.11%  | 0.006% |
| 281 | 17.019 | 16.997 | 17.057 | VV | 2271   | 39500   | 0.47%  | 0.023% |
| 282 | 17.064 | 17.057 | 17.069 | VV | 415    | 2716    | 0.03%  | 0.002% |
| 283 | 17.074 | 17.069 | 17.078 | VV | 401    | 2079    | 0.02%  | 0.001% |
| 284 | 17.084 | 17.078 | 17.102 | VV | 446    | 5279    | 0.06%  | 0.003% |
| 285 | 17.157 | 17.102 | 17.199 | VV | 493106 | 6893043 | 81.49% | 4.054% |

|     |        |        |        |     |                         |           |        |        |
|-----|--------|--------|--------|-----|-------------------------|-----------|--------|--------|
|     |        |        |        |     | rters                   |           |        |        |
| 286 | 17.246 | 17.199 | 17.277 | VV  | 41058                   | 588692    | 6.96%  | 0.346% |
| 287 | 17.295 | 17.277 | 17.347 | VV  | 1445                    | 26720     | 0.32%  | 0.016% |
| 288 | 17.356 | 17.347 | 17.379 | VV  | 297                     | 3997      | 0.05%  | 0.002% |
| 289 | 17.387 | 17.379 | 17.401 | VV  | 189                     | 1888      | 0.02%  | 0.001% |
| 290 | 17.420 | 17.401 | 17.431 | VV  | 374                     | 4812      | 0.06%  | 0.003% |
|     |        |        |        |     |                         |           |        |        |
| 291 | 17.435 | 17.431 | 17.446 | VV  | 244                     | 1900      | 0.02%  | 0.001% |
| 292 | 17.454 | 17.446 | 17.476 | VV  | 227                     | 2751      | 0.03%  | 0.002% |
| 293 | 17.519 | 17.487 | 17.529 | PV  | 527                     | 6502      | 0.08%  | 0.004% |
| 294 | 17.534 | 17.529 | 17.552 | VV  | 427                     | 4574      | 0.05%  | 0.003% |
| 295 | 17.569 | 17.552 | 17.605 | VV  | 412                     | 7900      | 0.09%  | 0.005% |
|     |        |        |        |     |                         |           |        |        |
| 296 | 17.656 | 17.605 | 17.679 | PV  | 699                     | 13900     | 0.16%  | 0.008% |
| 297 | 17.698 | 17.679 | 17.729 | VV  | 942                     | 14310     | 0.17%  | 0.008% |
| 298 | 17.800 | 17.729 | 17.841 | VV  | 375                     | 14301     | 0.17%  | 0.008% |
| 299 | 17.849 | 17.841 | 17.859 | VV  | 259                     | 2114      | 0.02%  | 0.001% |
| 300 | 17.906 | 17.859 | 17.911 | VV  | 454                     | 8183      | 0.10%  | 0.005% |
|     |        |        |        |     |                         |           |        |        |
| 301 | 17.914 | 17.911 | 17.957 | VV  | 376                     | 6084      | 0.07%  | 0.004% |
| 302 | 18.029 | 17.957 | 18.043 | VV  | 686                     | 20001     | 0.24%  | 0.012% |
| 303 | 18.061 | 18.043 | 18.083 | VV  | 910                     | 14244     | 0.17%  | 0.008% |
| 304 | 18.138 | 18.083 | 18.199 | VV  | 39002                   | 539971    | 6.38%  | 0.318% |
| 305 | 18.236 | 18.199 | 18.246 | VV  | 166                     | 3592      | 0.04%  | 0.002% |
|     |        |        |        |     |                         |           |        |        |
| 306 | 18.258 | 18.246 | 18.269 | VV  | 176                     | 2161      | 0.03%  | 0.001% |
| 307 | 18.311 | 18.269 | 18.374 | VV  | 866                     | 19398     | 0.23%  | 0.011% |
| 308 | 18.422 | 18.374 | 18.446 | PV  | 343                     | 6602      | 0.08%  | 0.004% |
| 309 | 18.535 | 18.446 | 18.549 | PV  | 454371                  | 7405211   | 87.54% | 4.355% |
| 310 | 18.573 | 18.549 | 18.734 | VV  | 501903                  | 6846733   | 80.94% | 4.027% |
|     |        |        |        |     |                         |           |        |        |
| 311 | 18.794 | 18.734 | 18.851 | PBA | 447502                  | 6649130   | 78.60% | 3.911% |
|     |        |        |        |     | Sum of corrected areas: | 170032132 |        |        |

Aromatic EPH 092425.M Tue Sep 30 01:32:03 2025



## Report of Analysis

|                    |                        |           |                 |          |    |
|--------------------|------------------------|-----------|-----------------|----------|----|
| Client:            | Weston Solutions, Inc. |           | Date Collected: | 09/23/25 |    |
| Project:           | RFP 916                |           | Date Received:  | 09/23/25 |    |
| Client Sample ID:  | EME-TS14-01MSD         |           | SDG No.:        | Q3179    |    |
| Lab Sample ID:     | Q3179-03               |           | Matrix:         | Water    |    |
| Analytical Method: | NJEPH                  |           | % Solid:        | 0        |    |
| Sample Wt/Vol:     | 1000                   | Units: mL | Final Vol:      | 2000     | uL |
| Soil Aliquot Vol:  |                        | uL        | Test:           | EPH      |    |
| Prep Method :      | SW3510                 |           |                 |          |    |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE056057.D | 1         | 09/29/25    | 09/29/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C12  | Aliphatic C9-C12          | 329   |           | 8.28     | 30.0       | ug/l    |
| Aliphatic C12-C16 | Aliphatic C12-C16         | 286   |           | 13.5     | 20.0       | ug/l    |
| Aliphatic C16-C21 | Aliphatic C16-C21         | 401   |           | 8.34     | 30.0       | ug/l    |
| Aliphatic C21-C28 | Aliphatic C21-C28         | 491   |           | 12.5     | 40.0       | ug/l    |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 1120  |           | 23.8     | 60.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 58.5  |           | 40 - 140 | 117%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 0.00  |           | 40 - 140 | 0%         | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |                |                    |                   |
|-------------------|----------------|--------------------|-------------------|
| Lab Sample ID:    | Q3179-03       | Acq On:            | 29 Sep 2025 20:57 |
| Client Sample ID: | EME-TS14-01MSD | Operator:          | YP\AJ             |
| Data file:        | FE056057.D     | Misc:              |                   |
| Instrument:       | FID_E          | ALS Vial:          | 30                |
| Dilution Factor:  | 1              | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.315  | 6.946  | 23042176  | 164.554 | 300              | ug/ml |
| Aliphatic C12-C16         | 6.947  | 10.396 | 22005325  | 143.473 | 200              | ug/ml |
| Aliphatic C16-C21         | 10.397 | 13.773 | 33279405  | 200.624 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.774 | 17.443 | 36466374  | 245.52  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.444 | 22.449 | 76389018  | 560.645 | 600              | ug/ml |
| Aliphatic EPH             | 3.315  | 22.449 | 191182298 | 1310    |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 0.000  | 0.000  | 0         | 0       |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.512 | 13.512 | 8160881   | 58.47   |                  | ug/ml |
| Aliphatic C9-C28          | 3.315  | 17.443 | 114793280 | 754.171 | 1200             | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056057.D  
 Signal(s) : FID1B.ch  
 Acq On : 29 Sep 2025 20:57  
 Operator : YP\AJ  
 Sample : Q3179-03  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 FID\_E  
 ClientSampleId :  
 EME-TS14-01MSD

Integration File: autoint1.e  
 Quant Time: Sep 30 00:32:09 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 12:55:37 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 ul  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18um

| Compound                       | R.T.   | Response   | Conc Units   |
|--------------------------------|--------|------------|--------------|
| -----                          |        |            |              |
| System Monitoring Compounds    |        |            |              |
| 12) S 1-chlorooctadecane (S... | 13.512 | 8160881    | 58.474 ug/ml |
| Spiked Amount 50.000           |        | Recovery = | 116.95%      |
| Target Compounds               |        |            |              |
| 1) T n-Nonane (C9)             | 3.416  | 5771844    | 42.133 ug/ml |
| 2) T n-Decane (C10)            | 4.675  | 7111210    | 50.953 ug/ml |
| 4) T n-Dodecane (C12)          | 6.849  | 8430957    | 58.741 ug/ml |
| 6) T n-Tetradecane (C14)       | 8.686  | 9280824    | 62.774 ug/ml |
| 7) T n-Hexadecane (C16)        | 10.301 | 10228409   | 64.367 ug/ml |
| 8) T n-Octadecane (C18)        | 11.750 | 10667564   | 62.979 ug/ml |
| 10) T n-Eicosane (C20)         | 13.065 | 10864641   | 65.542 ug/ml |
| 11) T n-Heneicosane (C21)      | 13.679 | 10166796   | 62.568 ug/ml |
| 13) T n-Docosane (C22)         | 14.267 | 9816245    | 61.432 ug/ml |
| 14) T n-Tetracosane (C24)      | 15.373 | 9104534    | 59.749 ug/ml |
| 15) T n-Hexacosane (C26)       | 16.397 | 8428572    | 59.094 ug/ml |
| 16) T n-Octacosane (C28)       | 17.348 | 8119016    | 58.282 ug/ml |
| 17) T n-Tricontane (C30)       | 18.239 | 8329721    | 56.213 ug/ml |
| 18) T n-Dotriacontane (C32)    | 19.072 | 8549001    | 57.299 ug/ml |
| 19) T n-Tetratriacontane (C34) | 19.858 | 8872363    | 62.724 ug/ml |
| 20) T n-Hexatriacontane (C36)  | 20.600 | 9121579    | 71.056 ug/ml |
| 21) T n-Octatriacontane (C38)  | 21.376 | 9422243    | 71.738 ug/ml |
| 22) T n-Tetracontane (C40)     | 22.360 | 8913426    | 74.923 ug/ml |
| -----                          |        |            |              |

(f)=RT Delta > 1/2 Window

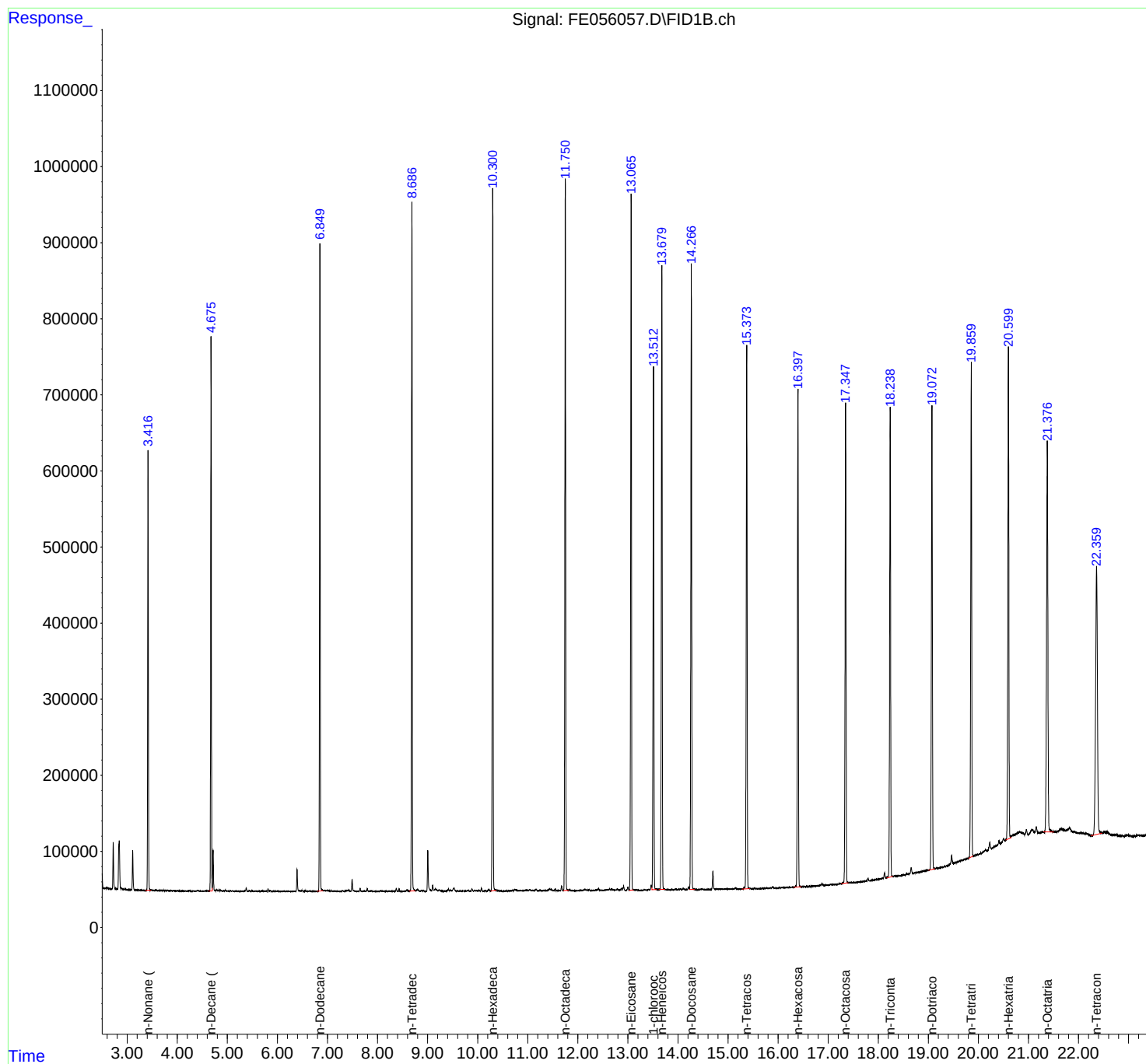
(m)=manual int.

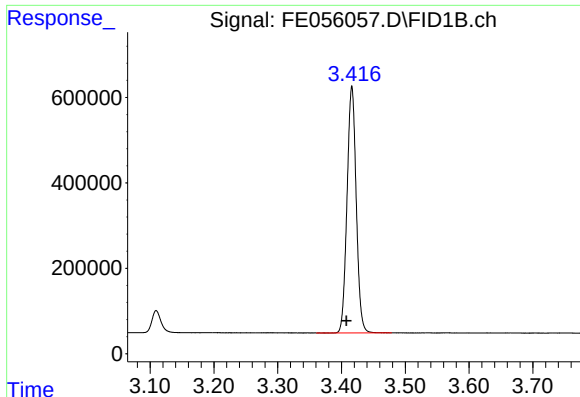
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
Data File : FE056057.D  
Signal(s) : FID1B.ch  
Acq On : 29 Sep 2025 20:57  
Operator : YP\AJ  
Sample : Q3179-03  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MSD

Integration File: autoint1.e  
Quant Time: Sep 30 00:32:09 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 12:55:37 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 ul  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18um

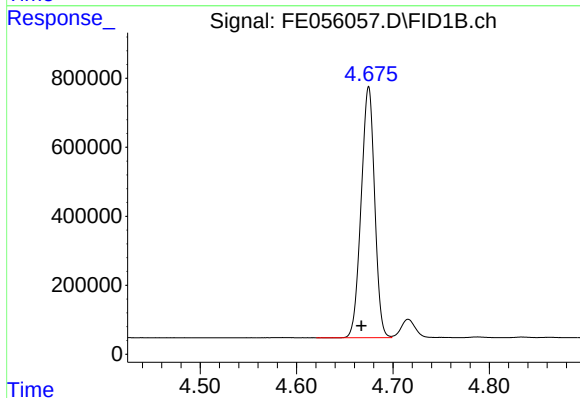




#1 n-Nonane (C9)

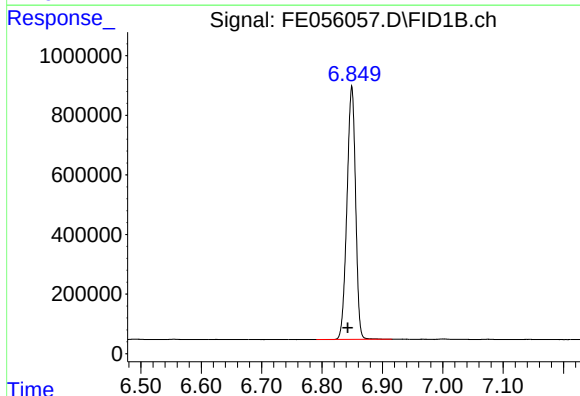
R.T.: 3.416 min  
Delta R.T.: 0.008 min  
Response: 5771844  
Conc: 42.13 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MSD



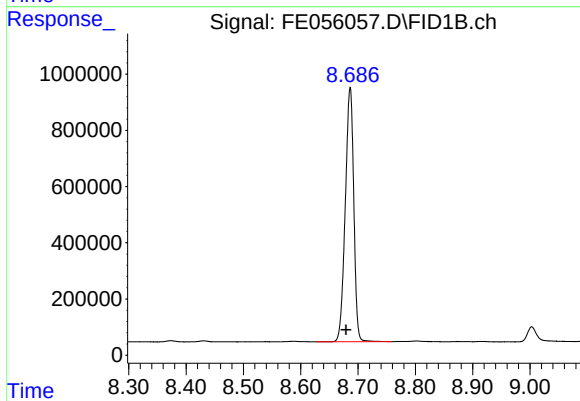
#2 n-Decane (C10)

R.T.: 4.675 min  
Delta R.T.: 0.007 min  
Response: 7111210  
Conc: 50.95 ug/ml



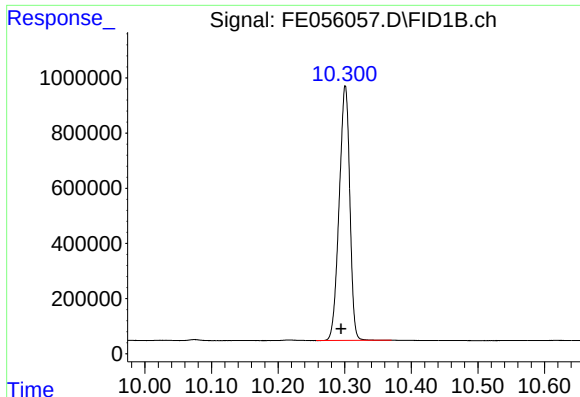
#4 n-Dodecane (C12)

R.T.: 6.849 min  
Delta R.T.: 0.006 min  
Response: 8430957  
Conc: 58.74 ug/ml



#6 n-Tetradecane (C14)

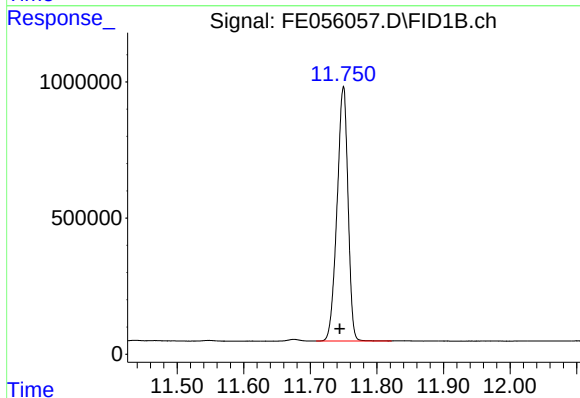
R.T.: 8.686 min  
Delta R.T.: 0.007 min  
Response: 9280824  
Conc: 62.77 ug/ml



#7 n-Hexadecane (C16)

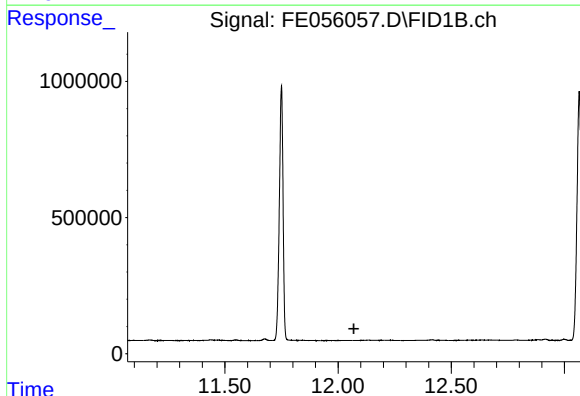
R.T.: 10.301 min  
Delta R.T.: 0.006 min  
Response: 10228409  
Conc: 64.37 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MSD



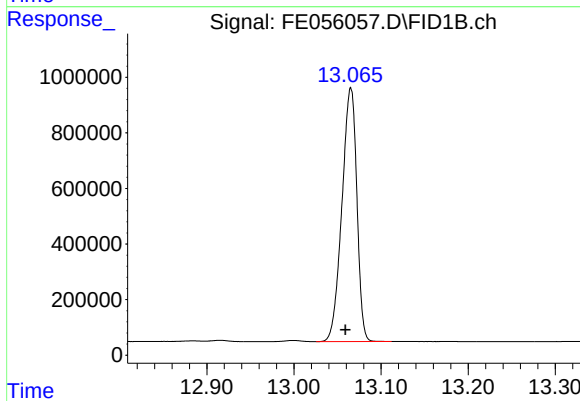
#8 n-Octadecane (C18)

R.T.: 11.750 min  
Delta R.T.: 0.005 min  
Response: 10667564  
Conc: 62.98 ug/ml



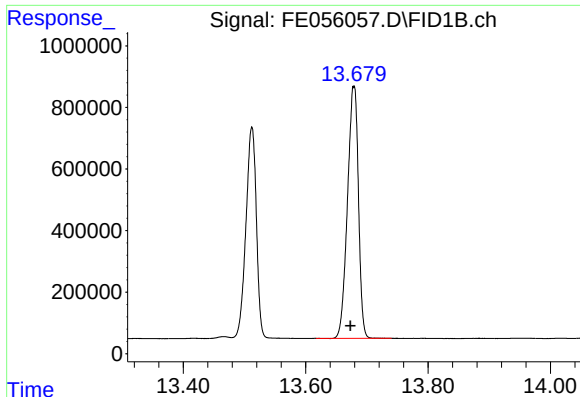
#9 ortho-Terphenyl (SURR)

R.T.: 0.000 min  
Exp R.T. : 12.070 min  
Response: 0  
Conc: N.D.



#10 n-Eicosane (C20)

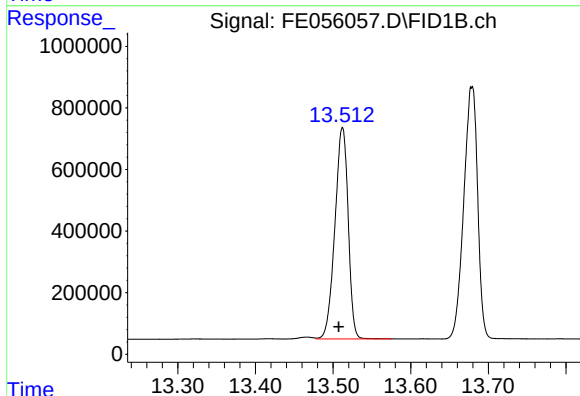
R.T.: 13.065 min  
Delta R.T.: 0.006 min  
Response: 10864641  
Conc: 65.54 ug/ml



#11 n-Heneicosane (C21)

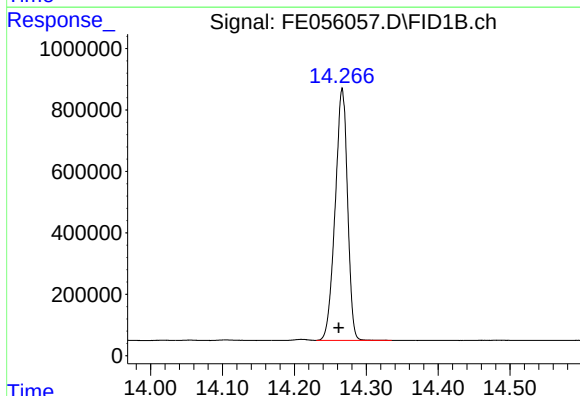
R.T.: 13.679 min  
Delta R.T.: 0.006 min  
Response: 10166796  
Conc: 62.57 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MSD



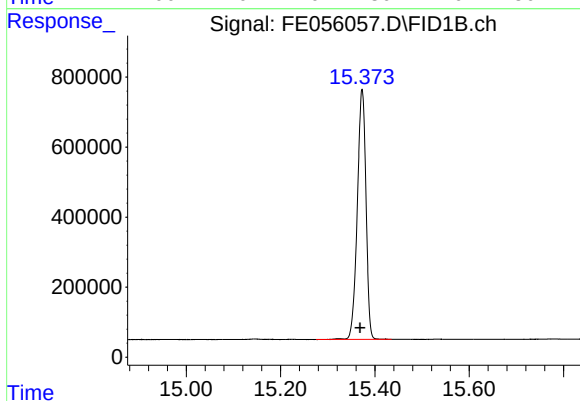
#12 1-chlorooctadecane (SURR)

R.T.: 13.512 min  
Delta R.T.: 0.005 min  
Response: 8160881  
Conc: 58.47 ug/ml



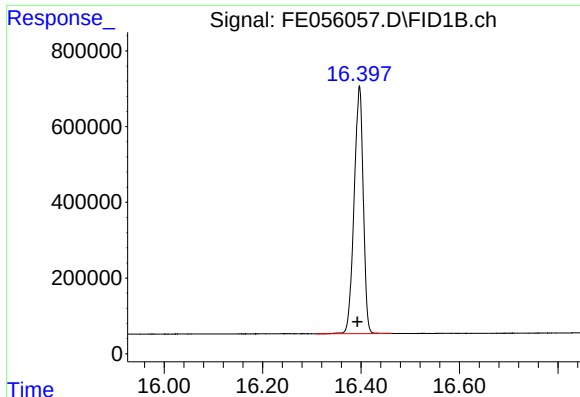
#13 n-Docosane (C22)

R.T.: 14.267 min  
Delta R.T.: 0.005 min  
Response: 9816245  
Conc: 61.43 ug/ml



#14 n-Tetracosane (C24)

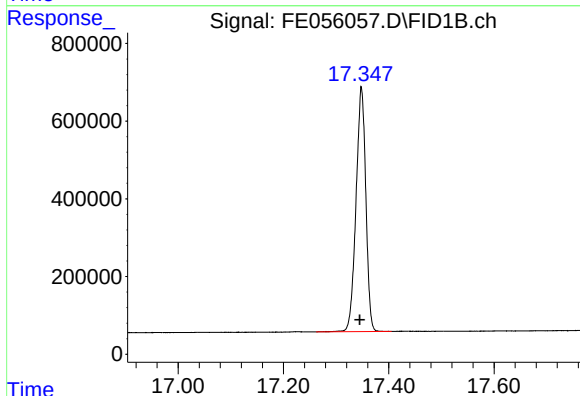
R.T.: 15.373 min  
Delta R.T.: 0.004 min  
Response: 9104534  
Conc: 59.75 ug/ml



#15 n-Hexacosane (C26)

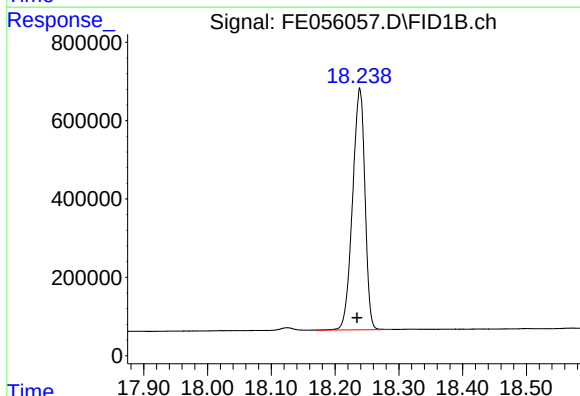
R.T.: 16.397 min  
Delta R.T.: 0.004 min  
Response: 8428572  
Conc: 59.09 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MSD



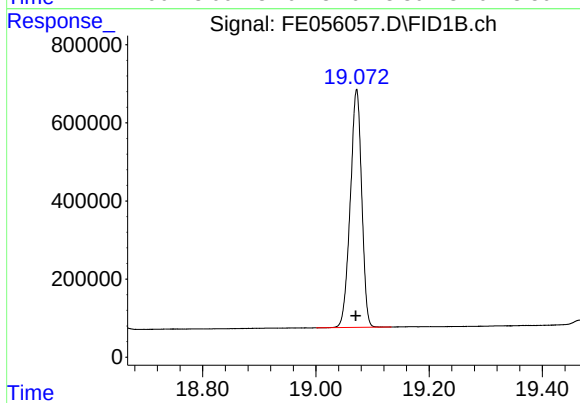
#16 n-Octacosane (C28)

R.T.: 17.348 min  
Delta R.T.: 0.003 min  
Response: 8119016  
Conc: 58.28 ug/ml



#17 n-Tricontane (C30)

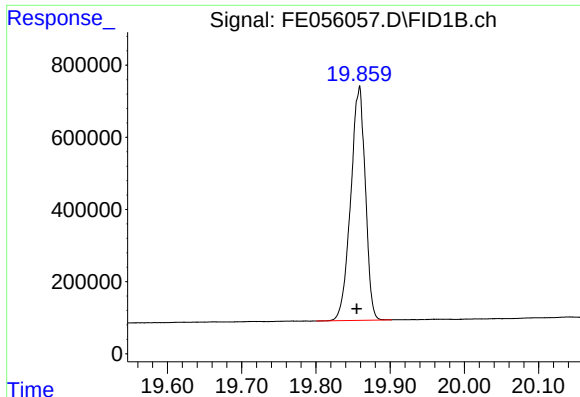
R.T.: 18.239 min  
Delta R.T.: 0.004 min  
Response: 8329721  
Conc: 56.21 ug/ml



#18 n-Dotriacontane (C32)

R.T.: 19.072 min  
Delta R.T.: 0.002 min  
Response: 8549001  
Conc: 57.30 ug/ml

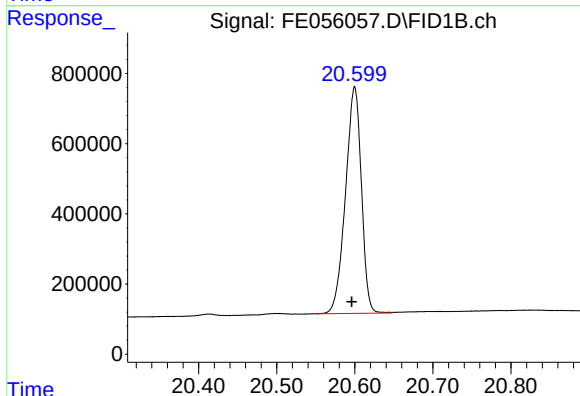




#19 n-Tetratriacontane (C34)

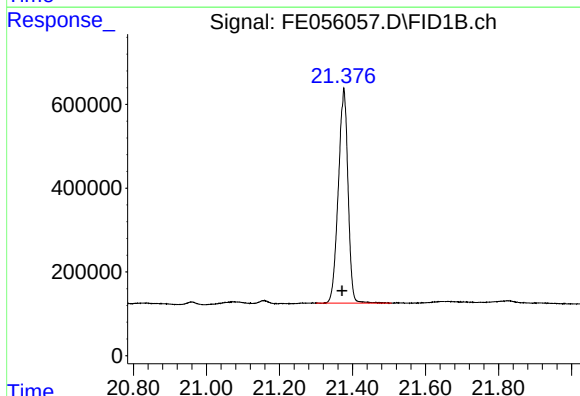
R.T.: 19.858 min  
Delta R.T.: 0.003 min  
Response: 8872363  
Conc: 62.72 ug/ml

Instrument :  
FID\_E  
ClientSampleId :  
EME-TS14-01MSD



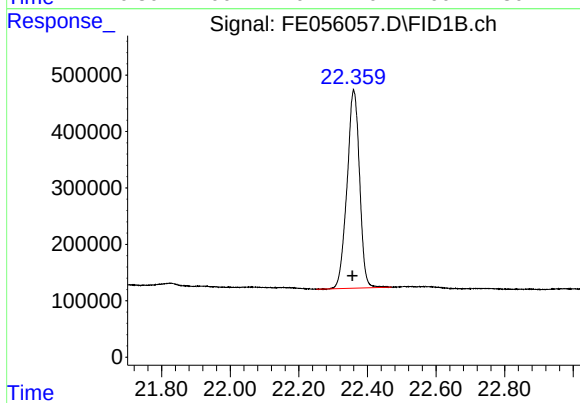
#20 n-Hexatriacontane (C36)

R.T.: 20.600 min  
Delta R.T.: 0.004 min  
Response: 9121579  
Conc: 71.06 ug/ml



#21 n-Octatriacontane (C38)

R.T.: 21.376 min  
Delta R.T.: 0.005 min  
Response: 9422243  
Conc: 71.74 ug/ml



#22 n-Tetracontane (C40)

R.T.: 22.360 min  
Delta R.T.: 0.003 min  
Response: 8913426  
Conc: 74.92 ug/ml

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_E\Data\FE092925AL\  
 Data File : FE056057.D  
 Signal(s) : FID1B.ch  
 Acq On : 29 Sep 2025 20:57  
 Sample : Q3179-03MSD  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_E\methods\Aliphatic EPH 092425.M  
 Title : GC Extractables

Signal : FID1B.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 2.840       | 2.805        | 2.877      | BV       | 64583          | 1047113      | 9.23%          | 0.521%        |
| 2         | 2.890       | 2.877        | 2.938      | VV       | 1810           | 24163        | 0.21%          | 0.012%        |
| 3         | 2.955       | 2.938        | 3.038      | VV       | 1114           | 12825        | 0.11%          | 0.006%        |
| 4         | 3.054       | 3.038        | 3.081      | VV       | 337            | 3177         | 0.03%          | 0.002%        |
| 5         | 3.110       | 3.081        | 3.178      | PV       | 51242          | 517291       | 4.56%          | 0.257%        |
| 6         | 3.199       | 3.178        | 3.271      | VV       | 296            | 8492         | 0.07%          | 0.004%        |
| 7         | 3.287       | 3.271        | 3.352      | VV       | 301            | 5119         | 0.05%          | 0.003%        |
| 8         | 3.358       | 3.352        | 3.380      | VV       | 98             | 729          | 0.01%          | 0.000%        |
| 9         | 3.416       | 3.380        | 3.517      | PV       | 575112         | 5796886      | 51.12%         | 2.884%        |
| 10        | 3.536       | 3.517        | 3.550      | VV       | 442            | 6163         | 0.05%          | 0.003%        |
| 11        | 3.565       | 3.550        | 3.584      | VV       | 462            | 6721         | 0.06%          | 0.003%        |
| 12        | 3.597       | 3.584        | 3.610      | VV       | 347            | 3807         | 0.03%          | 0.002%        |
| 13        | 3.629       | 3.610        | 3.643      | VV       | 383            | 5238         | 0.05%          | 0.003%        |
| 14        | 3.663       | 3.643        | 3.691      | VV       | 414            | 7593         | 0.07%          | 0.004%        |
| 15        | 3.704       | 3.691        | 3.721      | VV       | 275            | 2782         | 0.02%          | 0.001%        |
| 16        | 3.753       | 3.721        | 3.778      | VV       | 428            | 9025         | 0.08%          | 0.004%        |
| 17        | 3.792       | 3.778        | 3.844      | VV       | 495            | 9528         | 0.08%          | 0.005%        |
| 18        | 3.865       | 3.844        | 3.898      | VV       | 274            | 4142         | 0.04%          | 0.002%        |
| 19        | 3.906       | 3.898        | 3.918      | VV       | 129            | 1241         | 0.01%          | 0.001%        |
| 20        | 3.927       | 3.918        | 3.986      | VV       | 168            | 3785         | 0.03%          | 0.002%        |
| 21        | 4.007       | 3.986        | 4.051      | PV       | 410            | 7583         | 0.07%          | 0.004%        |
| 22        | 4.054       | 4.051        | 4.076      | VV       | 136            | 1429         | 0.01%          | 0.001%        |
| 23        | 4.105       | 4.076        | 4.177      | VV       | 246            | 7304         | 0.06%          | 0.004%        |
| 24        | 4.213       | 4.177        | 4.231      | PV       | 580            | 8156         | 0.07%          | 0.004%        |
| 25        | 4.246       | 4.231        | 4.300      | VV       | 793            | 11416        | 0.10%          | 0.006%        |
| 26        | 4.322       | 4.300        | 4.361      | VV       | 408            | 5851         | 0.05%          | 0.003%        |
| 27        | 4.402       | 4.361        | 4.460      | VV       | 754            | 19313        | 0.17%          | 0.010%        |
| 28        | 4.474       | 4.460        | 4.521      | VV       | 208            | 4348         | 0.04%          | 0.002%        |
| 29        | 4.533       | 4.521        | 4.539      | VV       | 160            | 1294         | 0.01%          | 0.001%        |
| 30        | 4.586       | 4.539        | 4.604      | VV       | 630            | 11608        | 0.10%          | 0.006%        |
| 31        | 4.618       | 4.604        | 4.640      | VV       | 270            | 3905         | 0.03%          | 0.002%        |
| 32        | 4.675       | 4.640        | 4.699      | VV       | 729088         | 7123628      | 62.82%         | 3.544%        |
| 33        | 4.716       | 4.699        | 4.771      | VV       | 53795          | 574460       | 5.07%          | 0.286%        |
| 34        | 4.788       | 4.771        | 4.814      | VV       | 2588           | 33372        | 0.29%          | 0.017%        |
| 35        | 4.835       | 4.814        | 4.850      | VV       | 2245           | 27064        | 0.24%          | 0.013%        |
| 36        | 4.863       | 4.850        | 4.882      | VV       | 1461           | 18634        | 0.16%          | 0.009%        |

| rteres.txt |       |       |       |    |        |         |        |        |
|------------|-------|-------|-------|----|--------|---------|--------|--------|
| 37         | 4.890 | 4.882 | 4.908 | VV | 612    | 7589    | 0.07%  | 0.004% |
| 38         | 4.925 | 4.908 | 4.941 | VV | 924    | 11734   | 0.10%  | 0.006% |
| 39         | 4.958 | 4.941 | 4.976 | VV | 1774   | 18844   | 0.17%  | 0.009% |
| 40         | 4.989 | 4.976 | 5.021 | VV | 590    | 10874   | 0.10%  | 0.005% |
| 41         | 5.041 | 5.021 | 5.051 | VV | 471    | 7053    | 0.06%  | 0.004% |
| 42         | 5.064 | 5.051 | 5.077 | VV | 521    | 6834    | 0.06%  | 0.003% |
| 43         | 5.096 | 5.077 | 5.130 | VV | 629    | 13598   | 0.12%  | 0.007% |
| 44         | 5.141 | 5.130 | 5.247 | VV | 371    | 12937   | 0.11%  | 0.006% |
| 45         | 5.289 | 5.247 | 5.304 | VV | 405    | 6190    | 0.05%  | 0.003% |
| 46         | 5.319 | 5.304 | 5.331 | VV | 504    | 5280    | 0.05%  | 0.003% |
| 47         | 5.348 | 5.331 | 5.356 | VV | 565    | 6267    | 0.06%  | 0.003% |
| 48         | 5.376 | 5.356 | 5.409 | VV | 4167   | 48608   | 0.43%  | 0.024% |
| 49         | 5.437 | 5.409 | 5.471 | VV | 1267   | 17720   | 0.16%  | 0.009% |
| 50         | 5.487 | 5.471 | 5.520 | VV | 824    | 12011   | 0.11%  | 0.006% |
| 51         | 5.564 | 5.520 | 5.575 | VV | 591    | 9688    | 0.09%  | 0.005% |
| 52         | 5.582 | 5.575 | 5.594 | VV | 522    | 4642    | 0.04%  | 0.002% |
| 53         | 5.607 | 5.594 | 5.665 | VV | 478    | 11963   | 0.11%  | 0.006% |
| 54         | 5.698 | 5.665 | 5.734 | VV | 678    | 18506   | 0.16%  | 0.009% |
| 55         | 5.754 | 5.734 | 5.767 | VV | 633    | 8067    | 0.07%  | 0.004% |
| 56         | 5.776 | 5.767 | 5.795 | VV | 531    | 6381    | 0.06%  | 0.003% |
| 57         | 5.813 | 5.795 | 5.838 | VV | 3356   | 37988   | 0.34%  | 0.019% |
| 58         | 5.856 | 5.838 | 5.878 | VV | 1611   | 18896   | 0.17%  | 0.009% |
| 59         | 5.915 | 5.878 | 5.935 | VV | 428    | 9347    | 0.08%  | 0.005% |
| 60         | 5.961 | 5.935 | 5.975 | VV | 547    | 9368    | 0.08%  | 0.005% |
| 61         | 6.003 | 5.975 | 6.035 | VV | 689    | 15359   | 0.14%  | 0.008% |
| 62         | 6.041 | 6.035 | 6.060 | VV | 191    | 1973    | 0.02%  | 0.001% |
| 63         | 6.081 | 6.060 | 6.095 | VV | 223    | 3324    | 0.03%  | 0.002% |
| 64         | 6.110 | 6.095 | 6.158 | VV | 402    | 8768    | 0.08%  | 0.004% |
| 65         | 6.184 | 6.158 | 6.222 | VV | 311    | 6176    | 0.05%  | 0.003% |
| 66         | 6.235 | 6.222 | 6.271 | PV | 136    | 2241    | 0.02%  | 0.001% |
| 67         | 6.295 | 6.271 | 6.317 | PV | 338    | 4692    | 0.04%  | 0.002% |
| 68         | 6.347 | 6.317 | 6.361 | VV | 281    | 4128    | 0.04%  | 0.002% |
| 69         | 6.393 | 6.361 | 6.432 | VV | 28930  | 317015  | 2.80%  | 0.158% |
| 70         | 6.445 | 6.432 | 6.475 | VV | 1192   | 22543   | 0.20%  | 0.011% |
| 71         | 6.491 | 6.475 | 6.534 | VV | 1698   | 28127   | 0.25%  | 0.014% |
| 72         | 6.555 | 6.534 | 6.581 | VV | 1319   | 19471   | 0.17%  | 0.010% |
| 73         | 6.590 | 6.581 | 6.600 | VV | 400    | 4506    | 0.04%  | 0.002% |
| 74         | 6.627 | 6.600 | 6.662 | VV | 691    | 20194   | 0.18%  | 0.010% |
| 75         | 6.672 | 6.662 | 6.703 | VV | 415    | 8775    | 0.08%  | 0.004% |
| 76         | 6.731 | 6.703 | 6.751 | VV | 589    | 11252   | 0.10%  | 0.006% |
| 77         | 6.780 | 6.751 | 6.815 | VV | 347    | 11023   | 0.10%  | 0.005% |
| 78         | 6.849 | 6.815 | 6.915 | VV | 839221 | 8484724 | 74.83% | 4.221% |
| 79         | 6.932 | 6.915 | 6.953 | VV | 1717   | 30495   | 0.27%  | 0.015% |
| 80         | 6.968 | 6.953 | 6.984 | VV | 1276   | 19764   | 0.17%  | 0.010% |
| 81         | 7.001 | 6.984 | 7.023 | VV | 2362   | 33772   | 0.30%  | 0.017% |
| 82         | 7.033 | 7.023 | 7.058 | VV | 1020   | 16221   | 0.14%  | 0.008% |
| 83         | 7.075 | 7.058 | 7.112 | VV | 1315   | 21258   | 0.19%  | 0.011% |
| 84         | 7.142 | 7.112 | 7.162 | VV | 780    | 15182   | 0.13%  | 0.008% |
| 85         | 7.170 | 7.162 | 7.208 | VV | 373    | 7817    | 0.07%  | 0.004% |
| 86         | 7.222 | 7.208 | 7.248 | VV | 381    | 5898    | 0.05%  | 0.003% |
| 87         | 7.253 | 7.248 | 7.273 | VV | 233    | 2928    | 0.03%  | 0.001% |
| 88         | 7.301 | 7.273 | 7.336 | VV | 1130   | 19395   | 0.17%  | 0.010% |
| 89         | 7.358 | 7.336 | 7.378 | VV | 1266   | 19655   | 0.17%  | 0.010% |

| rteres.txt |        |        |        |    |        |         |        |        |
|------------|--------|--------|--------|----|--------|---------|--------|--------|
| 90         | 7.426  | 7.378  | 7.454  | VV | 1996   | 50467   | 0.45%  | 0.025% |
| 91         | 7.492  | 7.454  | 7.585  | VV | 15809  | 208788  | 1.84%  | 0.104% |
| 92         | 7.597  | 7.585  | 7.618  | VV | 611    | 8365    | 0.07%  | 0.004% |
| 93         | 7.653  | 7.618  | 7.699  | VV | 4472   | 56925   | 0.50%  | 0.028% |
| 94         | 7.732  | 7.699  | 7.748  | VV | 834    | 15996   | 0.14%  | 0.008% |
| 95         | 7.762  | 7.748  | 7.773  | VV | 683    | 7881    | 0.07%  | 0.004% |
| 96         | 7.796  | 7.773  | 7.821  | VV | 3831   | 46677   | 0.41%  | 0.023% |
| 97         | 7.830  | 7.821  | 7.845  | VV | 407    | 4669    | 0.04%  | 0.002% |
| 98         | 7.863  | 7.845  | 7.877  | VV | 855    | 11870   | 0.10%  | 0.006% |
| 99         | 7.889  | 7.877  | 7.910  | VV | 720    | 8402    | 0.07%  | 0.004% |
| 100        | 7.921  | 7.910  | 7.930  | VV | 157    | 1124    | 0.01%  | 0.001% |
| 101        | 7.963  | 7.930  | 7.989  | VV | 442    | 6930    | 0.06%  | 0.003% |
| 102        | 8.020  | 7.989  | 8.041  | VV | 220    | 3518    | 0.03%  | 0.002% |
| 103        | 8.063  | 8.041  | 8.084  | PV | 1671   | 19136   | 0.17%  | 0.010% |
| 104        | 8.093  | 8.084  | 8.106  | VV | 391    | 4328    | 0.04%  | 0.002% |
| 105        | 8.121  | 8.106  | 8.150  | VV | 536    | 11319   | 0.10%  | 0.006% |
| 106        | 8.161  | 8.150  | 8.188  | VV | 484    | 6919    | 0.06%  | 0.003% |
| 107        | 8.232  | 8.188  | 8.273  | VV | 659    | 18923   | 0.17%  | 0.009% |
| 108        | 8.289  | 8.273  | 8.316  | VV | 404    | 7504    | 0.07%  | 0.004% |
| 109        | 8.329  | 8.316  | 8.351  | VV | 506    | 5171    | 0.05%  | 0.003% |
| 110        | 8.373  | 8.351  | 8.405  | VV | 4320   | 47839   | 0.42%  | 0.024% |
| 111        | 8.431  | 8.405  | 8.453  | VV | 3810   | 41849   | 0.37%  | 0.021% |
| 112        | 8.468  | 8.453  | 8.511  | VV | 414    | 8808    | 0.08%  | 0.004% |
| 113        | 8.540  | 8.511  | 8.555  | VV | 677    | 11245   | 0.10%  | 0.006% |
| 114        | 8.588  | 8.555  | 8.627  | VV | 2237   | 42247   | 0.37%  | 0.021% |
| 115        | 8.642  | 8.627  | 8.650  | VV | 660    | 7070    | 0.06%  | 0.004% |
| 116        | 8.686  | 8.650  | 8.759  | VV | 897327 | 9332410 | 82.30% | 4.643% |
| 117        | 8.802  | 8.759  | 8.858  | VV | 3131   | 85098   | 0.75%  | 0.042% |
| 118        | 8.874  | 8.858  | 8.900  | VV | 1219   | 21304   | 0.19%  | 0.011% |
| 119        | 8.916  | 8.900  | 8.945  | VV | 1622   | 19970   | 0.18%  | 0.010% |
| 120        | 8.961  | 8.945  | 8.974  | PV | 114    | 1400    | 0.01%  | 0.001% |
| 121        | 9.003  | 8.974  | 9.081  | VV | 53122  | 663852  | 5.85%  | 0.330% |
| 122        | 9.101  | 9.081  | 9.125  | VV | 8446   | 105955  | 0.93%  | 0.053% |
| 123        | 9.154  | 9.125  | 9.207  | VV | 2770   | 98820   | 0.87%  | 0.049% |
| 124        | 9.225  | 9.207  | 9.268  | VV | 2154   | 47101   | 0.42%  | 0.023% |
| 125        | 9.288  | 9.268  | 9.317  | VV | 900    | 14433   | 0.13%  | 0.007% |
| 126        | 9.343  | 9.317  | 9.365  | VV | 688    | 10950   | 0.10%  | 0.005% |
| 127        | 9.414  | 9.365  | 9.433  | VV | 2779   | 52207   | 0.46%  | 0.026% |
| 128        | 9.447  | 9.433  | 9.463  | VV | 1977   | 26572   | 0.23%  | 0.013% |
| 129        | 9.470  | 9.463  | 9.488  | VV | 1223   | 14846   | 0.13%  | 0.007% |
| 130        | 9.528  | 9.488  | 9.578  | VV | 4585   | 107276  | 0.95%  | 0.053% |
| 131        | 9.601  | 9.578  | 9.628  | VV | 1018   | 13589   | 0.12%  | 0.007% |
| 132        | 9.650  | 9.628  | 9.677  | VV | 760    | 9163    | 0.08%  | 0.005% |
| 133        | 9.697  | 9.677  | 9.717  | VV | 415    | 6324    | 0.06%  | 0.003% |
| 134        | 9.732  | 9.717  | 9.744  | VV | 451    | 5640    | 0.05%  | 0.003% |
| 135        | 9.754  | 9.744  | 9.780  | VV | 445    | 7251    | 0.06%  | 0.004% |
| 136        | 9.815  | 9.780  | 9.836  | VV | 1133   | 21073   | 0.19%  | 0.010% |
| 137        | 9.887  | 9.836  | 9.917  | VV | 2851   | 47228   | 0.42%  | 0.023% |
| 138        | 9.935  | 9.917  | 9.949  | VV | 977    | 11892   | 0.10%  | 0.006% |
| 139        | 9.975  | 9.949  | 10.001 | VV | 1073   | 22302   | 0.20%  | 0.011% |
| 140        | 10.027 | 10.001 | 10.052 | VV | 1293   | 24106   | 0.21%  | 0.012% |
| 141        | 10.074 | 10.052 | 10.114 | VV | 3868   | 45016   | 0.40%  | 0.022% |

|     |        |        |        |    |            |          |        |        |  |
|-----|--------|--------|--------|----|------------|----------|--------|--------|--|
|     |        |        |        |    | rteres.txt |          |        |        |  |
| 142 | 10.153 | 10.114 | 10.178 | VV | 618        | 12225    | 0.11%  | 0.006% |  |
| 143 | 10.216 | 10.178 | 10.260 | VV | 2169       | 38978    | 0.34%  | 0.019% |  |
| 144 | 10.301 | 10.260 | 10.434 | VV | 928736     | 10312484 | 90.95% | 5.130% |  |
| 145 | 10.446 | 10.434 | 10.461 | VV | 600        | 7993     | 0.07%  | 0.004% |  |
| 146 | 10.469 | 10.461 | 10.496 | VV | 506        | 5557     | 0.05%  | 0.003% |  |
| 147 | 10.547 | 10.496 | 10.557 | PV | 289        | 4050     | 0.04%  | 0.002% |  |
| 148 | 10.577 | 10.557 | 10.591 | VV | 491        | 6306     | 0.06%  | 0.003% |  |
| 149 | 10.618 | 10.591 | 10.657 | VV | 825        | 19098    | 0.17%  | 0.010% |  |
| 150 | 10.692 | 10.657 | 10.710 | VV | 1184       | 23114    | 0.20%  | 0.011% |  |
| 151 | 10.738 | 10.710 | 10.816 | VV | 2464       | 72419    | 0.64%  | 0.036% |  |
| 152 | 10.847 | 10.816 | 10.870 | VV | 794        | 17582    | 0.16%  | 0.009% |  |
| 153 | 10.939 | 10.870 | 10.955 | VV | 969        | 38362    | 0.34%  | 0.019% |  |
| 154 | 10.973 | 10.955 | 11.005 | VV | 1255       | 31112    | 0.27%  | 0.015% |  |
| 155 | 11.038 | 11.005 | 11.074 | VV | 2206       | 49630    | 0.44%  | 0.025% |  |
| 156 | 11.095 | 11.074 | 11.109 | VV | 1036       | 15181    | 0.13%  | 0.008% |  |
| 157 | 11.127 | 11.109 | 11.138 | VV | 853        | 13708    | 0.12%  | 0.007% |  |
| 158 | 11.168 | 11.138 | 11.206 | VV | 2483       | 49421    | 0.44%  | 0.025% |  |
| 159 | 11.211 | 11.206 | 11.220 | VV | 428        | 3396     | 0.03%  | 0.002% |  |
| 160 | 11.236 | 11.220 | 11.245 | VV | 655        | 7852     | 0.07%  | 0.004% |  |
| 161 | 11.258 | 11.245 | 11.278 | VV | 755        | 10787    | 0.10%  | 0.005% |  |
| 162 | 11.296 | 11.278 | 11.308 | VV | 402        | 6052     | 0.05%  | 0.003% |  |
| 163 | 11.325 | 11.308 | 11.341 | VV | 554        | 9357     | 0.08%  | 0.005% |  |
| 164 | 11.362 | 11.341 | 11.387 | VV | 918        | 16990    | 0.15%  | 0.008% |  |
| 165 | 11.437 | 11.387 | 11.454 | VV | 3111       | 60410    | 0.53%  | 0.030% |  |
| 166 | 11.468 | 11.454 | 11.518 | VV | 2119       | 43804    | 0.39%  | 0.022% |  |
| 167 | 11.548 | 11.518 | 11.594 | VV | 2661       | 36334    | 0.32%  | 0.018% |  |
| 168 | 11.613 | 11.594 | 11.639 | VV | 243        | 3994     | 0.04%  | 0.002% |  |
| 169 | 11.675 | 11.639 | 11.706 | VV | 6436       | 81661    | 0.72%  | 0.041% |  |
| 170 | 11.750 | 11.706 | 11.820 | VV | 929003     | 10702050 | 94.38% | 5.324% |  |
| 171 | 11.840 | 11.820 | 11.873 | VV | 1307       | 24373    | 0.21%  | 0.012% |  |
| 172 | 11.886 | 11.873 | 11.930 | VV | 352        | 5970     | 0.05%  | 0.003% |  |
| 173 | 11.976 | 11.930 | 11.998 | PV | 247        | 5813     | 0.05%  | 0.003% |  |
| 174 | 12.069 | 11.998 | 12.084 | VV | 536        | 17203    | 0.15%  | 0.009% |  |
| 175 | 12.134 | 12.084 | 12.153 | VV | 1501       | 36401    | 0.32%  | 0.018% |  |
| 176 | 12.166 | 12.153 | 12.187 | VV | 1083       | 17968    | 0.16%  | 0.009% |  |
| 177 | 12.205 | 12.187 | 12.218 | VV | 984        | 14891    | 0.13%  | 0.007% |  |
| 178 | 12.232 | 12.218 | 12.252 | VV | 1231       | 15684    | 0.14%  | 0.008% |  |
| 179 | 12.262 | 12.252 | 12.282 | VV | 265        | 3177     | 0.03%  | 0.002% |  |
| 180 | 12.414 | 12.282 | 12.442 | VV | 2634       | 74349    | 0.66%  | 0.037% |  |
| 181 | 12.462 | 12.442 | 12.495 | VV | 858        | 16960    | 0.15%  | 0.008% |  |
| 182 | 12.581 | 12.495 | 12.604 | VV | 1417       | 50756    | 0.45%  | 0.025% |  |
| 183 | 12.638 | 12.604 | 12.655 | VV | 2051       | 45433    | 0.40%  | 0.023% |  |
| 184 | 12.670 | 12.655 | 12.740 | VV | 1828       | 60109    | 0.53%  | 0.030% |  |
| 185 | 12.754 | 12.740 | 12.768 | VV | 724        | 10532    | 0.09%  | 0.005% |  |
| 186 | 12.785 | 12.768 | 12.813 | VV | 1966       | 32251    | 0.28%  | 0.016% |  |
| 187 | 12.884 | 12.813 | 12.897 | VV | 3072       | 70129    | 0.62%  | 0.035% |  |
| 188 | 12.915 | 12.897 | 12.945 | VV | 4808       | 70196    | 0.62%  | 0.035% |  |
| 189 | 12.955 | 12.945 | 12.967 | VV | 334        | 3498     | 0.03%  | 0.002% |  |
| 190 | 12.999 | 12.967 | 13.024 | VV | 4425       | 58897    | 0.52%  | 0.029% |  |
| 191 | 13.065 | 13.024 | 13.118 | VV | 913450     | 10890304 | 96.04% | 5.418% |  |
| 192 | 13.124 | 13.118 | 13.163 | VV | 853        | 15276    | 0.13%  | 0.008% |  |
| 193 | 13.178 | 13.163 | 13.248 | VV | 606        | 12492    | 0.11%  | 0.006% |  |
| 194 | 13.323 | 13.248 | 13.365 | PV | 757        | 19259    | 0.17%  | 0.010% |  |

|     |        |        |        |    |            |          |        |        |
|-----|--------|--------|--------|----|------------|----------|--------|--------|
|     |        |        |        |    | rteres.txt |          |        |        |
| 195 | 13.417 | 13.365 | 13.436 | VV | 1341       | 25371    | 0.22%  | 0.013% |
| 196 | 13.466 | 13.436 | 13.478 | VV | 6741       | 88918    | 0.78%  | 0.044% |
| 197 | 13.512 | 13.478 | 13.595 | VV | 688074     | 8215696  | 72.45% | 4.087% |
| 198 | 13.615 | 13.595 | 13.637 | VV | 985        | 19559    | 0.17%  | 0.010% |
| 199 | 13.679 | 13.637 | 13.767 | VV | 825796     | 10237416 | 90.28% | 5.093% |
| 200 | 13.792 | 13.767 | 13.850 | VV | 879        | 26868    | 0.24%  | 0.013% |
| 201 | 13.884 | 13.850 | 13.910 | VV | 743        | 19490    | 0.17%  | 0.010% |
| 202 | 13.944 | 13.910 | 13.992 | VV | 1013       | 31652    | 0.28%  | 0.016% |
| 203 | 14.018 | 13.992 | 14.038 | VV | 1026       | 16221    | 0.14%  | 0.008% |
| 204 | 14.054 | 14.038 | 14.081 | VV | 1371       | 20347    | 0.18%  | 0.010% |
| 205 | 14.105 | 14.081 | 14.148 | VV | 2079       | 37746    | 0.33%  | 0.019% |
| 206 | 14.210 | 14.148 | 14.228 | VV | 3804       | 58555    | 0.52%  | 0.029% |
| 207 | 14.267 | 14.228 | 14.345 | VV | 816223     | 9842118  | 86.80% | 4.896% |
| 208 | 14.358 | 14.345 | 14.377 | VV | 353        | 5471     | 0.05%  | 0.003% |
| 209 | 14.394 | 14.377 | 14.409 | VV | 336        | 3776     | 0.03%  | 0.002% |
| 210 | 14.418 | 14.409 | 14.435 | VV | 130        | 1418     | 0.01%  | 0.001% |
| 211 | 14.462 | 14.435 | 14.475 | VV | 462        | 7997     | 0.07%  | 0.004% |
| 212 | 14.489 | 14.475 | 14.542 | VV | 555        | 13124    | 0.12%  | 0.007% |
| 213 | 14.552 | 14.542 | 14.573 | VV | 270        | 3117     | 0.03%  | 0.002% |
| 214 | 14.595 | 14.573 | 14.615 | PV | 384        | 4825     | 0.04%  | 0.002% |
| 215 | 14.698 | 14.615 | 14.768 | VV | 23808      | 316338   | 2.79%  | 0.157% |
| 216 | 14.776 | 14.768 | 14.802 | VV | 404        | 6474     | 0.06%  | 0.003% |
| 217 | 14.826 | 14.802 | 14.861 | VV | 1160       | 16506    | 0.15%  | 0.008% |
| 218 | 14.898 | 14.861 | 14.916 | VV | 403        | 8944     | 0.08%  | 0.004% |
| 219 | 14.967 | 14.916 | 15.008 | VV | 543        | 19802    | 0.17%  | 0.010% |
| 220 | 15.033 | 15.008 | 15.061 | VV | 351        | 8537     | 0.08%  | 0.004% |
| 221 | 15.084 | 15.061 | 15.095 | VV | 455        | 6267     | 0.06%  | 0.003% |
| 222 | 15.145 | 15.095 | 15.166 | VV | 1695       | 33578    | 0.30%  | 0.017% |
| 223 | 15.174 | 15.166 | 15.199 | VV | 598        | 8827     | 0.08%  | 0.004% |
| 224 | 15.225 | 15.199 | 15.258 | VV | 604        | 10918    | 0.10%  | 0.005% |
| 225 | 15.269 | 15.258 | 15.278 | VV | 148        | 1054     | 0.01%  | 0.001% |
| 226 | 15.324 | 15.278 | 15.334 | PV | 2551       | 33693    | 0.30%  | 0.017% |
| 227 | 15.373 | 15.334 | 15.504 | VV | 715253     | 9104685  | 80.29% | 4.529% |
| 228 | 15.533 | 15.504 | 15.551 | VV | 705        | 10374    | 0.09%  | 0.005% |
| 229 | 15.561 | 15.551 | 15.611 | VV | 288        | 4927     | 0.04%  | 0.002% |
| 230 | 15.623 | 15.611 | 15.638 | VV | 128        | 993      | 0.01%  | 0.000% |
| 231 | 15.645 | 15.638 | 15.657 | PV | 82         | 435      | 0.00%  | 0.000% |
| 232 | 15.689 | 15.657 | 15.698 | PV | 125        | 1665     | 0.01%  | 0.001% |
| 233 | 15.781 | 15.698 | 15.810 | PV | 643        | 17554    | 0.15%  | 0.009% |
| 234 | 15.849 | 15.810 | 15.865 | VV | 499        | 8945     | 0.08%  | 0.004% |
| 235 | 15.889 | 15.865 | 15.931 | VV | 1930       | 28403    | 0.25%  | 0.014% |
| 236 | 15.972 | 15.931 | 15.988 | VV | 219        | 4821     | 0.04%  | 0.002% |
| 237 | 16.035 | 15.988 | 16.049 | VV | 220        | 4079     | 0.04%  | 0.002% |
| 238 | 16.067 | 16.049 | 16.079 | VV | 184        | 2606     | 0.02%  | 0.001% |
| 239 | 16.086 | 16.079 | 16.118 | VV | 138        | 2106     | 0.02%  | 0.001% |
| 240 | 16.125 | 16.118 | 16.134 | VV | 115        | 631      | 0.01%  | 0.000% |
| 241 | 16.156 | 16.134 | 16.178 | PV | 198        | 3024     | 0.03%  | 0.002% |
| 242 | 16.252 | 16.178 | 16.263 | VV | 364        | 10969    | 0.10%  | 0.005% |
| 243 | 16.286 | 16.263 | 16.311 | VV | 219        | 4241     | 0.04%  | 0.002% |
| 244 | 16.397 | 16.311 | 16.478 | PV | 659143     | 8449215  | 74.51% | 4.203% |
| 245 | 16.487 | 16.478 | 16.501 | VV | 164        | 1859     | 0.02%  | 0.001% |
| 246 | 16.525 | 16.501 | 16.542 | VV | 295        | 3970     | 0.04%  | 0.002% |

|     |        |        |        |    |            |          |         |        |  |
|-----|--------|--------|--------|----|------------|----------|---------|--------|--|
|     |        |        |        |    | rteres.txt |          |         |        |  |
| 247 | 16.586 | 16.542 | 16.595 | VV | 233        | 6370     | 0.06%   | 0.003% |  |
| 248 | 16.605 | 16.595 | 16.614 | VV | 150        | 1332     | 0.01%   | 0.001% |  |
| 249 | 16.773 | 16.614 | 16.785 | PV | 137        | 653      | 0.01%   | 0.000% |  |
| 250 | 16.876 | 16.785 | 16.928 | VV | 2356       | 43026    | 0.38%   | 0.021% |  |
| 251 | 16.961 | 16.928 | 16.991 | VV | 205        | 4867     | 0.04%   | 0.002% |  |
| 252 | 17.050 | 16.991 | 17.068 | PV | 229        | 5113     | 0.05%   | 0.003% |  |
| 253 | 17.091 | 17.068 | 17.105 | VV | 184        | 2253     | 0.02%   | 0.001% |  |
| 254 | 17.227 | 17.105 | 17.254 | PV | 776        | 9222     | 0.08%   | 0.005% |  |
| 255 | 17.348 | 17.254 | 17.406 | VV | 630924     | 8150270  | 71.88%  | 4.055% |  |
| 256 | 17.431 | 17.406 | 17.455 | VV | 597        | 14103    | 0.12%   | 0.007% |  |
| 257 | 17.458 | 17.455 | 17.505 | VV | 390        | 6817     | 0.06%   | 0.003% |  |
| 258 | 17.511 | 17.505 | 17.519 | VV | 158        | 999      | 0.01%   | 0.000% |  |
| 259 | 18.613 | 18.519 | 18.643 | VV | 331        | 6450     | 0.06%   | 0.003% |  |
| 260 | 17.686 | 17.643 | 17.698 | PV | 207        | 3343     | 0.03%   | 0.002% |  |
| 261 | 17.733 | 17.698 | 17.740 | PV | 258        | 4677     | 0.04%   | 0.002% |  |
| 262 | 17.795 | 17.740 | 17.827 | VV | 3699       | 58078    | 0.51%   | 0.029% |  |
| 263 | 17.886 | 17.827 | 17.911 | PV | 519        | 8877     | 0.08%   | 0.004% |  |
| 264 | 18.125 | 17.911 | 18.156 | PV | 6985       | 129703   | 1.14%   | 0.065% |  |
| 265 | 18.239 | 18.156 | 18.295 | VV | 614819     | 8370774  | 73.82%  | 4.164% |  |
| 266 | 18.323 | 18.295 | 18.346 | VV | 1029       | 24891    | 0.22%   | 0.012% |  |
| 267 | 18.501 | 18.346 | 18.520 | VV | 596        | 26155    | 0.23%   | 0.013% |  |
| 268 | 18.571 | 18.520 | 18.585 | PV | 862        | 11467    | 0.10%   | 0.006% |  |
| 269 | 18.657 | 18.585 | 18.688 | VV | 7996       | 125084   | 1.10%   | 0.062% |  |
| 270 | 18.754 | 18.688 | 18.768 | VV | 260        | 6290     | 0.06%   | 0.003% |  |
| 271 | 19.072 | 18.768 | 19.134 | VV | 608822     | 8560041  | 75.49%  | 4.258% |  |
| 272 | 19.168 | 19.134 | 19.181 | VV | 692        | 14025    | 0.12%   | 0.007% |  |
| 273 | 19.200 | 19.181 | 19.218 | VV | 403        | 6745     | 0.06%   | 0.003% |  |
| 274 | 19.372 | 19.218 | 19.385 | PV | 1003       | 36404    | 0.32%   | 0.018% |  |
| 275 | 19.465 | 19.385 | 19.498 | VV | 13167      | 264869   | 2.34%   | 0.132% |  |
| 276 | 19.664 | 19.498 | 19.681 | VV | 4142       | 343127   | 3.03%   | 0.171% |  |
| 277 | 19.720 | 19.681 | 19.733 | VV | 4434       | 128914   | 1.14%   | 0.064% |  |
| 278 | 19.770 | 19.733 | 19.778 | VV | 4912       | 119154   | 1.05%   | 0.059% |  |
| 279 | 19.858 | 19.778 | 19.901 | VV | 645450     | 9272478  | 81.77%  | 4.613% |  |
| 280 | 19.965 | 19.901 | 19.989 | VV | 7161       | 361736   | 3.19%   | 0.180% |  |
| 281 | 20.141 | 19.989 | 20.168 | VV | 11147      | 926942   | 8.17%   | 0.461% |  |
| 282 | 20.228 | 20.168 | 20.261 | VV | 19794      | 729147   | 6.43%   | 0.363% |  |
| 283 | 20.413 | 20.261 | 20.437 | VV | 19847      | 1472634  | 12.99%  | 0.733% |  |
| 284 | 20.501 | 20.437 | 20.535 | VV | 20266      | 1031155  | 9.09%   | 0.513% |  |
| 285 | 20.600 | 20.535 | 20.648 | VV | 665330     | 10420681 | 91.90%  | 5.184% |  |
| 286 | 20.708 | 20.648 | 20.718 | VV | 23065      | 950053   | 8.38%   | 0.473% |  |
| 287 | 20.786 | 20.718 | 20.794 | VV | 24760      | 1077432  | 9.50%   | 0.536% |  |
| 288 | 20.831 | 20.794 | 20.924 | VV | 25208      | 1825095  | 16.10%  | 0.908% |  |
| 289 | 20.960 | 20.924 | 20.995 | VV | 26184      | 945834   | 8.34%   | 0.471% |  |
| 290 | 21.075 | 20.995 | 21.125 | VV | 24746      | 1726511  | 15.23%  | 0.859% |  |
| 291 | 21.157 | 21.125 | 21.193 | VV | 26521      | 909880   | 8.02%   | 0.453% |  |
| 292 | 21.207 | 21.193 | 21.229 | VV | 19101      | 398043   | 3.51%   | 0.198% |  |
| 293 | 21.264 | 21.229 | 21.278 | VV | 19223      | 552332   | 4.87%   | 0.275% |  |
| 294 | 21.300 | 21.278 | 21.319 | VV | 18817      | 461802   | 4.07%   | 0.230% |  |
| 295 | 21.376 | 21.319 | 21.507 | VV | 527905     | 11339219 | 100.00% | 5.641% |  |
| 296 | 21.525 | 21.507 | 21.561 | VV | 16082      | 506128   | 4.46%   | 0.252% |  |
| 297 | 21.662 | 21.561 | 21.739 | VV | 17565      | 1704650  | 15.03%  | 0.848% |  |
| 298 | 21.751 | 21.739 | 21.760 | VV | 14352      | 178695   | 1.58%   | 0.089% |  |
| 299 | 21.825 | 21.760 | 21.893 | VV | 16837      | 1124286  | 9.92%   | 0.559% |  |

|     |        |        |        |    |                         |         |           |        |
|-----|--------|--------|--------|----|-------------------------|---------|-----------|--------|
|     |        |        |        |    | rteres.txt              |         |           |        |
| 300 | 21.910 | 21.893 | 22.024 | VV | 10537                   | 673060  | 5.94%     | 0.335% |
| 301 | 22.057 | 22.024 | 22.128 | VV | 6836                    | 379438  | 3.35%     | 0.189% |
| 302 | 22.155 | 22.128 | 22.258 | VV | 4743                    | 222064  | 1.96%     | 0.110% |
| 303 | 22.268 | 22.258 | 22.274 | VV | 247                     | 2296    | 0.02%     | 0.001% |
| 304 | 22.360 | 22.274 | 22.472 | PV | 350382                  | 8940543 | 78.85%    | 4.448% |
|     |        |        |        |    | Sum of corrected areas: |         | 201016179 |        |

Aliphatic EPH 092425.M Tue Sep 30 06:35:37 2025



## Report of Analysis

|                    |                        |                 |                      |
|--------------------|------------------------|-----------------|----------------------|
| Client:            | Weston Solutions, Inc. | Date Collected: | 09/23/25             |
| Project:           | RFP 916                | Date Received:  | 09/23/25             |
| Client Sample ID:  | EME-TS14-01MSD         | SDG No.:        | Q3179                |
| Lab Sample ID:     | Q3179-03               | Matrix:         | Water                |
| Analytical Method: | NJEPH                  | % Solid:        | 0                    |
| Sample Wt/Vol:     | 1000      Units:    mL | Final Vol:      | 2000              uL |
| Soil Aliquot Vol:  | uL                     | Test:           | EPH                  |
| Prep Method :      | SW3510                 |                 |                      |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FF016478.D | 1         | 09/29/25    | 09/29/25        | PB169879      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aromatic C10-C12  | Aromatic C10-C12          | 216   |           | 2.07     | 20.0       | ug/l    |
| Aromatic C12-C16  | Aromatic C12-C16          | 359   |           | 4.26     | 30.0       | ug/l    |
| Aromatic C16-C21  | Aromatic C16-C21          | 745   |           | 8.27     | 50.0       | ug/l    |
| Aromatic C21-C36  | Aromatic C21-C36          | 933   |           | 23.8     | 80.0       | ug/l    |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 580-13-2          | 2-Bromonaphthalene (SURR) | 49.3  |           | 40 - 140 | 99%        | SPK: 50 |
| 321-60-8          | 2-Fluorobiphenyl (SURR)   | 44.8  |           | 40 - 140 | 90%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 48.5  |           | 40 - 140 | 97%        | SPK: 50 |

## Quantitation Report For Aromatic EPH Range.

|                   |                |                    |                   |
|-------------------|----------------|--------------------|-------------------|
| Lab Sample ID:    | Q3179-03       | Acq On:            | 29 Sep 2025 20:33 |
| Client Sample ID: | EME-TS14-01MSD | Operator:          | YP\AJ             |
| Data file:        | FF016478.D     | Misc:              |                   |
| Instrument:       | FID_F          | ALS Vial:          | 89                |
| Dilution Factor:  | 1              | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aromatic C10-C12          | 4.521  | 6.397  | 15510841  | 108.224 | 200              | ug/ml |
| Aromatic C12-C16          | 6.398  | 9.101  | 26121744  | 179.92  | 300              | ug/ml |
| Aromatic C16-C21          | 9.102  | 13.420 | 53705559  | 372.508 | 500              | ug/ml |
| Aromatic C21-C36          | 13.421 | 18.876 | 61061959  | 466.713 | 800              | ug/ml |
| Aromatic EPH              | 4.521  | 18.876 | 156400103 | 1130    |                  | ug/ml |
| 2-Bromonaphthalene (SURR) | 8.027  | 8.027  | 6177103   | 49.31   |                  | ug/ml |
| 2-Fluorobiphenyl (SURR)   | 8.903  | 8.903  | 3780657   | 44.83   |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.971 | 11.971 | 7387930   | 48.46   |                  | ug/ml |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016478.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 20:33  
 Operator : YP\AJ  
 Sample : Q3179-03MSD  
 Misc :  
 ALS Vial : 89 Sample Multiplier: 1

Instrument :  
 FID\_F  
 ClientSampleId :  
 EME-TS14-01MSD

Integration File: autoint1.e  
 Quant Time: Sep 30 01:06:41 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
 Quant Title : GC Extractables  
 QLast Update : Wed Sep 24 16:24:48 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1 µl  
 Signal Phase : Rxi-1ms  
 Signal Info : 20M x 0.18mm x 0.18µm

| Compound                           | R.T.   | Response   | Conc Units   |
|------------------------------------|--------|------------|--------------|
| -----                              |        |            |              |
| System Monitoring Compounds        |        |            |              |
| 4) S 2-Bromonaphthalene (S...      | 8.027  | 6177103    | 49.312 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 98.62%       |
| 6) S 2-Fluorobiphenyl (SURR)       | 8.903  | 3780657    | 44.827 ug/ml |
| Spiked Amount 50.000 Range 0 - 131 |        | Recovery = | 89.65%       |
| 11) S ortho-Terphenyl (SURR)       | 11.971 | 7387930    | 48.462 ug/ml |
| Spiked Amount 50.000               |        | Recovery = | 96.92%       |
| Target Compounds                   |        |            |              |
| 1) T 1,2,3-Trimethylbenzen...      | 4.621  | 6523757    | 46.280 ug/ml |
| 2) T Naphthalene (C11.7)           | 6.298  | 7439663    | 51.068 ug/ml |
| 3) T 2-Methylnaphthalene (...)     | 7.398  | 7144507    | 48.529 ug/ml |
| 5) T Acenaphthylene (C15.06)       | 8.705  | 7976442    | 55.041 ug/ml |
| 7) T Acenaphthene (C15.5)          | 9.006  | 8085770    | 56.379 ug/ml |
| 8) T Flouorene (C16.55)            | 9.796  | 8201591    | 56.773 ug/ml |
| 9) T Phenanthrene (C19.36)         | 11.203 | 8133608    | 55.764 ug/ml |
| 10) T Anthracene (C19.43)          | 11.280 | 8088666    | 56.536 ug/ml |
| 12) T Fluoranthene (C21.85)        | 13.028 | 7912752    | 54.179 ug/ml |
| 13) T Pyrene (C20.8)               | 13.328 | 7861443    | 54.859 ug/ml |
| 14) T Benzo[a]anthracene (C...     | 15.212 | 7393494    | 54.315 ug/ml |
| 15) T Chrysene (C27.41)            | 15.257 | 8048520    | 56.422 ug/ml |
| 16) T benzo[b]fluoranthene ...     | 16.774 | 7026231    | 53.472 ug/ml |
| 17) T Bnezo[k]fluoranthene ...     | 16.810 | 6974796    | 55.413 ug/ml |
| 18) T Benzo[a]pyrene (C31.34)      | 17.156 | 6759084    | 52.934 ug/ml |
| 19) T Indeno[1,2,3-cd]pyren...     | 18.533 | 7230058    | 63.400 ug/ml |
| 20) T Dibenz[a,h]anthracene...     | 18.571 | 6691161    | 51.253 ug/ml |
| 21) T Benzo[g,h,i]perylene ...     | 18.791 | 6530278    | 53.032 ug/ml |
| -----                              |        |            |              |

(f)=RT Delta > 1/2 Window

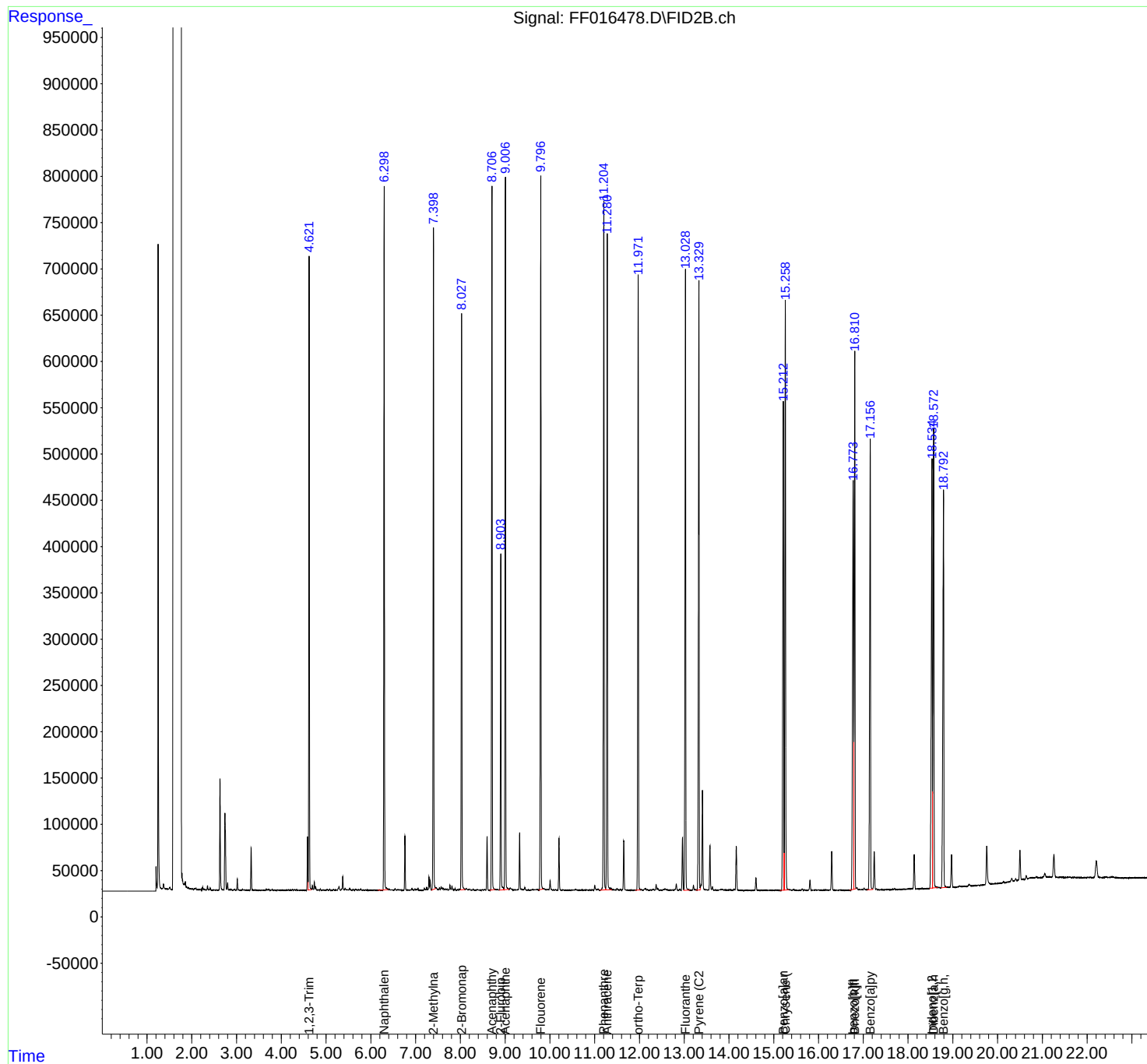
(m)=manual int.

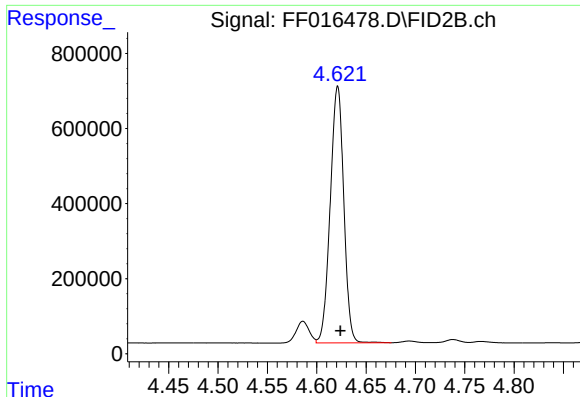
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
Data File : FF016478.D  
Signal(s) : FID2B.ch  
Acq On : 29 Sep 2025 20:33  
Operator : YP\AJ  
Sample : Q3179-03MSD  
Misc :  
ALS Vial : 89 Sample Multiplier: 1

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MSD

Integration File: autoint1.e  
Quant Time: Sep 30 01:06:41 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH 092425.M  
Quant Title : GC Extractables  
QLast Update : Wed Sep 24 16:24:48 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1 µl  
Signal Phase : Rxi-1ms  
Signal Info : 20M x 0.18mm x 0.18µm

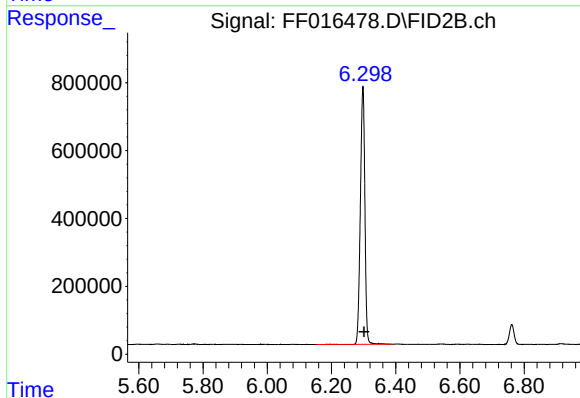




#1 1,2,3-Trimethylbenzene (C10.1)

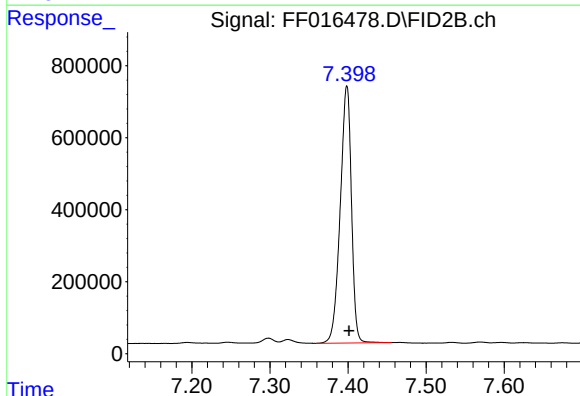
R.T.: 4.621 min  
Delta R.T.: -0.003 min  
Response: 6523757  
Conc: 46.28 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MSD



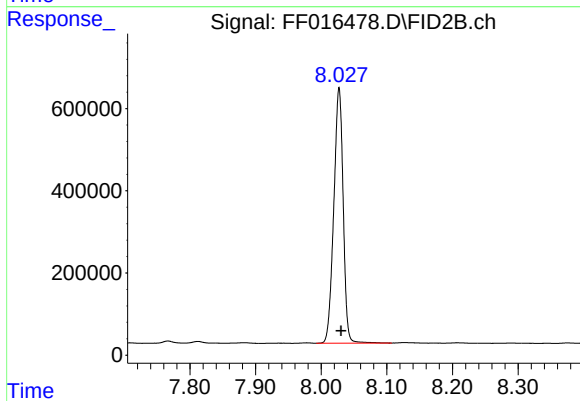
#2 Naphthalene (C11.7)

R.T.: 6.298 min  
Delta R.T.: -0.003 min  
Response: 7439663  
Conc: 51.07 ug/ml



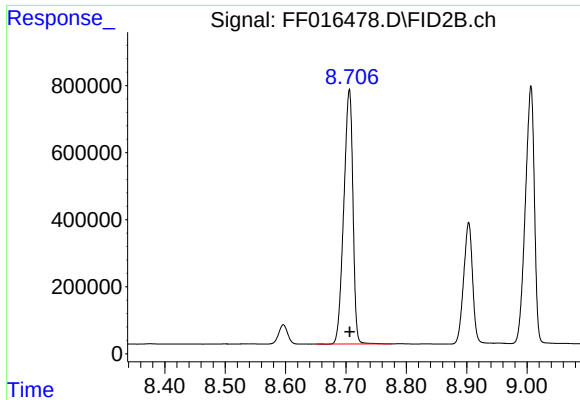
#3 2-Methylnaphthalene (C12.89)

R.T.: 7.398 min  
Delta R.T.: -0.003 min  
Response: 7144507  
Conc: 48.53 ug/ml



#4 2-Bromonaphthalene (SURR)

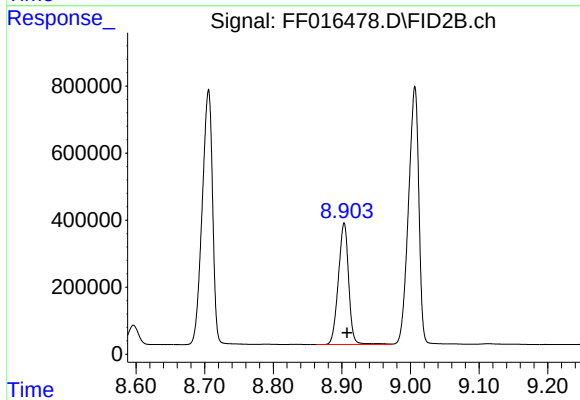
R.T.: 8.027 min  
Delta R.T.: -0.003 min  
Response: 6177103  
Conc: 49.31 ug/ml



#5 Acenaphthylene (C15.06)

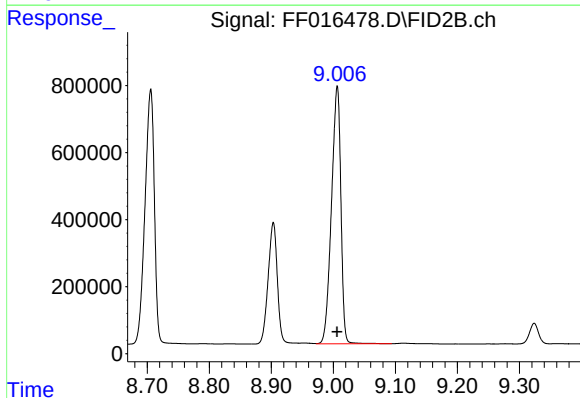
R.T.: 8.705 min  
Delta R.T.: 0.000 min  
Response: 7976442  
Conc: 55.04 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MSD



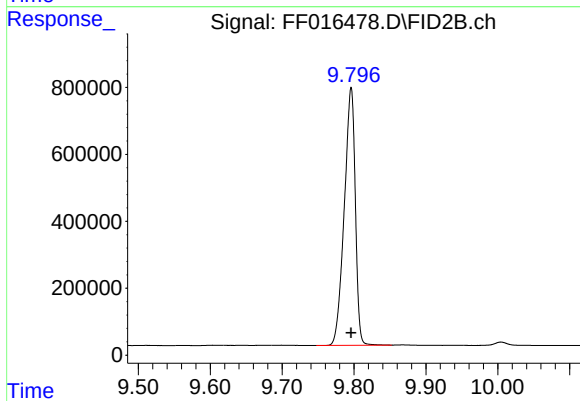
#6 2-Fluorobiphenyl (SURR)

R.T.: 8.903 min  
Delta R.T.: -0.004 min  
Response: 3780657  
Conc: 44.83 ug/ml



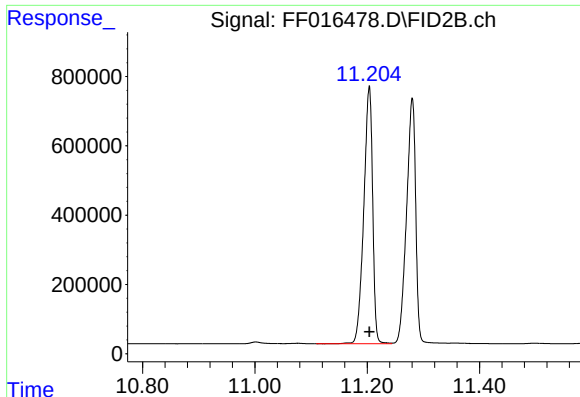
#7 Acenaphthene (C15.5)

R.T.: 9.006 min  
Delta R.T.: 0.000 min  
Response: 8085770  
Conc: 56.38 ug/ml



#8 Fluorene (C16.55)

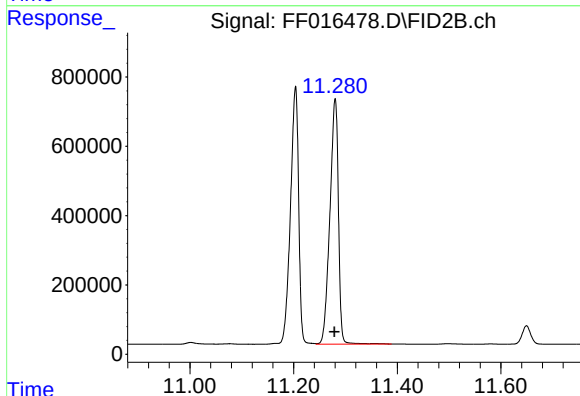
R.T.: 9.796 min  
Delta R.T.: 0.000 min  
Response: 8201591  
Conc: 56.77 ug/ml



#9 Phenanthrene (C19.36)

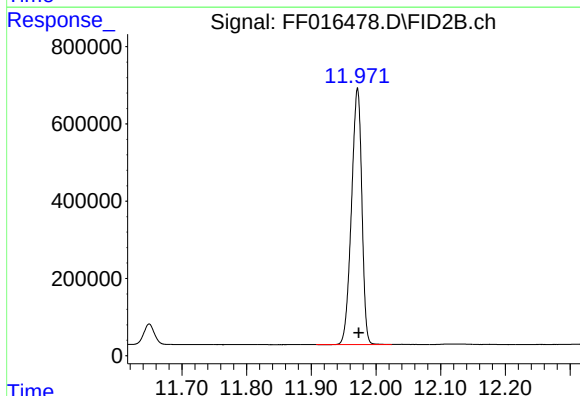
R.T.: 11.203 min  
Delta R.T.: 0.000 min  
Response: 8133608  
Conc: 55.76 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MSD



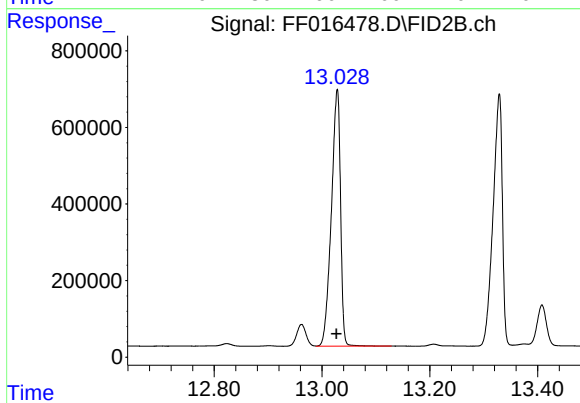
#10 Anthracene (C19.43)

R.T.: 11.280 min  
Delta R.T.: 0.001 min  
Response: 8088666  
Conc: 56.54 ug/ml



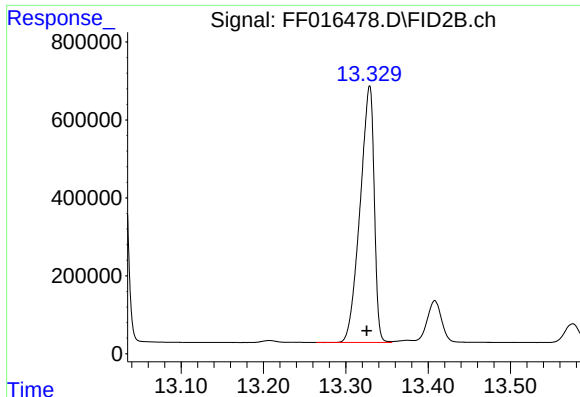
#11 ortho-Terphenyl (SURR)

R.T.: 11.971 min  
Delta R.T.: -0.002 min  
Response: 7387930  
Conc: 48.46 ug/ml



#12 Fluoranthene (C21.85)

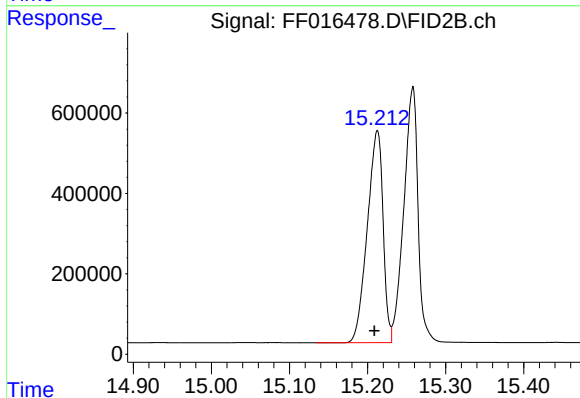
R.T.: 13.028 min  
Delta R.T.: 0.001 min  
Response: 7912752  
Conc: 54.18 ug/ml



#13 Pyrene (C20.8)

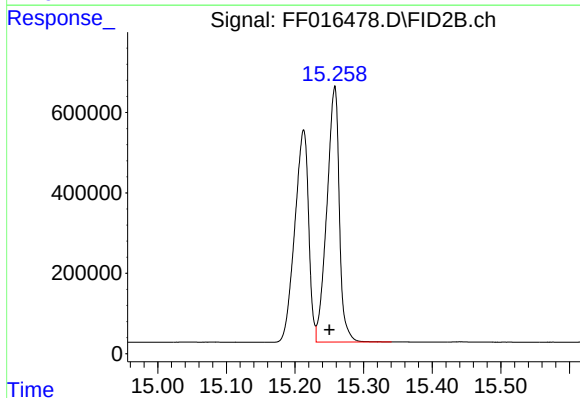
R.T.: 13.328 min  
Delta R.T.: 0.003 min  
Response: 7861443  
Conc: 54.86 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MSD



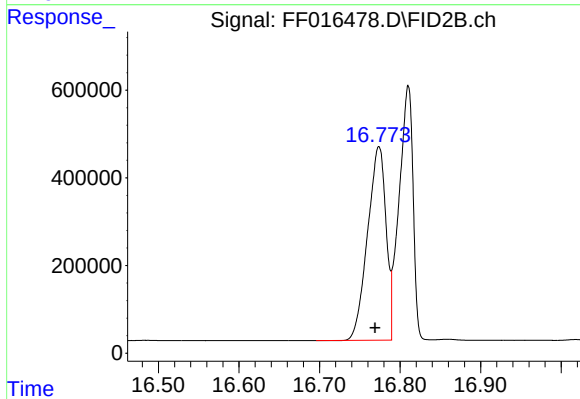
#14 Benzo[a]anthracene (C26.37)

R.T.: 15.212 min  
Delta R.T.: 0.003 min  
Response: 7393494  
Conc: 54.32 ug/ml



#15 Chrysene (C27.41)

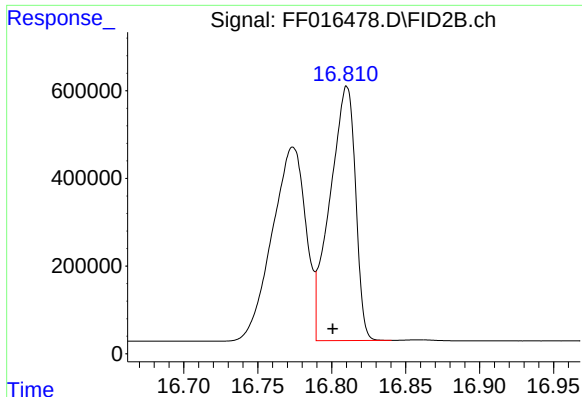
R.T.: 15.257 min  
Delta R.T.: 0.007 min  
Response: 8048520  
Conc: 56.42 ug/ml



#16 benzo[b]fluoranthene (C30.41)

R.T.: 16.774 min  
Delta R.T.: 0.005 min  
Response: 7026231  
Conc: 53.47 ug/ml

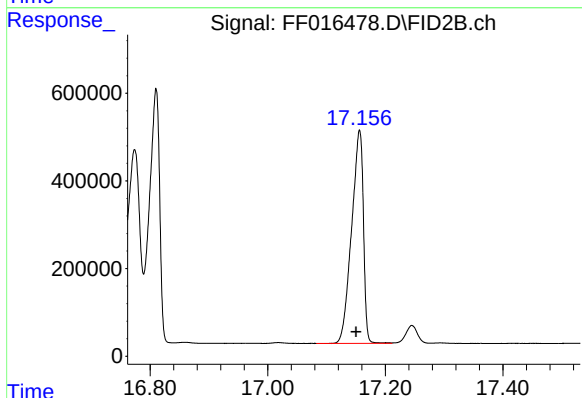




#17 Bnezo[k]fluoranthene (C30.14)

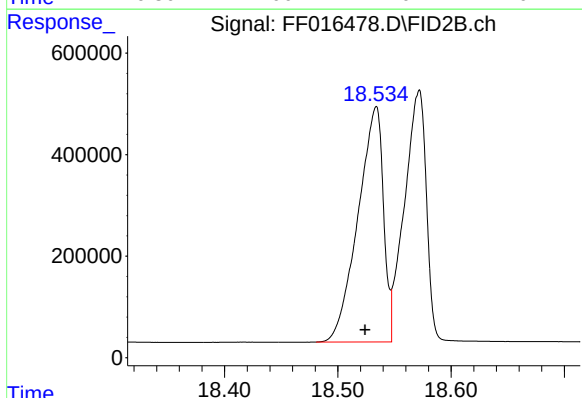
R.T.: 16.810 min  
Delta R.T.: 0.009 min  
Response: 6974796  
Conc: 55.41 ug/ml

Instrument :  
FID\_F  
ClientSampleId :  
EME-TS14-01MSD



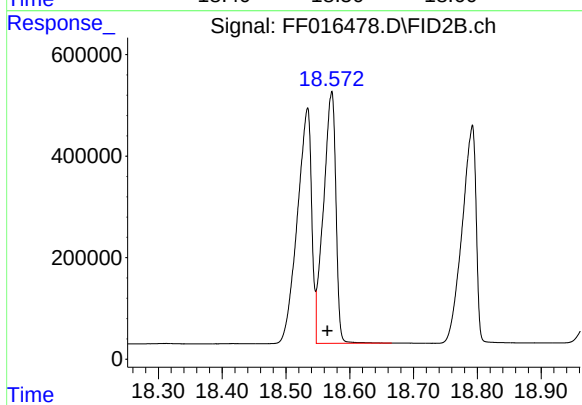
#18 Benzo[a]pyrene (C31.34)

R.T.: 17.156 min  
Delta R.T.: 0.006 min  
Response: 6759084  
Conc: 52.93 ug/ml



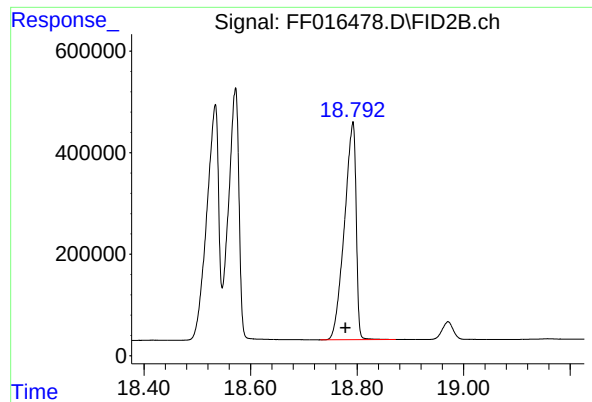
#19 Indeno[1,2,3-cd]pyrene (C35.01)

R.T.: 18.533 min  
Delta R.T.: 0.009 min  
Response: 7230058  
Conc: 63.40 ug/ml



#20 Dibenz[a,h]anthracene (C30.36)

R.T.: 18.571 min  
Delta R.T.: 0.006 min  
Response: 6691161  
Conc: 51.25 ug/ml



#21 Benzo[g,h,i]perylene (C34.01)

R.T.: 18.791 min  
Delta R.T.: 0.013 min  
Response: 6530278  
Conc: 53.03 ug/ml

Instrument :

FID\_F

ClientSampleId :

EME-TS14-01MSD

rteres

Area Percent

## Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_F\Data\FF092925AR\  
 Data File : FF016478.D  
 Signal(s) : FID2B.ch  
 Acq On : 29 Sep 2025 20:33  
 Sample : Q3179-03MSD  
 Misc :  
 ALS Vial : 89 Sample Multiplier: 1

Integration File: sample.E

Method : Z:\pestpcbsrv\HPCHEM1\FID\_F\Method\Aromatic EPH  
 092425.M  
 Title : GC Extractables

Signal : FID2B.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 4.452       | 4.411        | 4.462      | BV       | 282            | 1890         | 0.02%          | 0.001%        |
| 2         | 4.471       | 4.462        | 4.487      | VV       | 338            | 2885         | 0.03%          | 0.002%        |
| 3         | 4.501       | 4.487        | 4.519      | VV       | 349            | 3763         | 0.05%          | 0.002%        |
| 4         | 4.525       | 4.519        | 4.559      | VV       | 201            | 1685         | 0.02%          | 0.001%        |
| 5         | 4.586       | 4.559        | 4.600      | PV       | 58183          | 536577       | 6.49%          | 0.322%        |
| 6         | 4.621       | 4.600        | 4.653      | VV       | 684782         | 6527251      | 78.90%         | 3.922%        |
| 7         | 4.658       | 4.653        | 4.676      | VV       | 2412           | 25414        | 0.31%          | 0.015%        |
| 8         | 4.694       | 4.676        | 4.715      | VV       | 5436           | 64680        | 0.78%          | 0.039%        |
| 9         | 4.738       | 4.715        | 4.754      | VV       | 9412           | 104524       | 1.26%          | 0.063%        |
| 10        | 4.766       | 4.754        | 4.796      | VV       | 4327           | 53663        | 0.65%          | 0.032%        |
| 11        | 4.805       | 4.796        | 4.822      | VV       | 543            | 6717         | 0.08%          | 0.004%        |
| 12        | 4.839       | 4.822        | 4.857      | VV       | 879            | 11339        | 0.14%          | 0.007%        |
| 13        | 4.871       | 4.857        | 4.894      | VV       | 1329           | 14995        | 0.18%          | 0.009%        |
| 14        | 4.908       | 4.894        | 4.923      | VV       | 424            | 5619         | 0.07%          | 0.003%        |
| 15        | 4.947       | 4.923        | 4.961      | VV       | 580            | 9710         | 0.12%          | 0.006%        |
| 16        | 4.972       | 4.961        | 4.987      | VV       | 512            | 6936         | 0.08%          | 0.004%        |
| 17        | 5.026       | 4.987        | 5.060      | VV       | 1344           | 26734        | 0.32%          | 0.016%        |
| 18        | 5.082       | 5.060        | 5.138      | VV       | 1437           | 21733        | 0.26%          | 0.013%        |
| 19        | 5.163       | 5.138        | 5.191      | VV       | 1335           | 20934        | 0.25%          | 0.013%        |
| 20        | 5.204       | 5.191        | 5.219      | VV       | 566            | 8091         | 0.10%          | 0.005%        |
| 21        | 5.229       | 5.219        | 5.249      | VV       | 493            | 6358         | 0.08%          | 0.004%        |
| 22        | 5.289       | 5.249        | 5.323      | VV       | 4414           | 79958        | 0.97%          | 0.048%        |
| 23        | 5.351       | 5.323        | 5.357      | VV       | 1799           | 21682        | 0.26%          | 0.013%        |
| 24        | 5.373       | 5.357        | 5.406      | VV       | 15245          | 163633       | 1.98%          | 0.098%        |
| 25        | 5.427       | 5.406        | 5.454      | VV       | 2560           | 35723        | 0.43%          | 0.021%        |

| rteres |       |       |       |    |        |         |        |        |
|--------|-------|-------|-------|----|--------|---------|--------|--------|
| 26     | 5.474 | 5.454 | 5.489 | VV | 816    | 15325   | 0.19%  | 0.009% |
| 27     | 5.495 | 5.489 | 5.509 | VV | 640    | 6924    | 0.08%  | 0.004% |
| 28     | 5.527 | 5.509 | 5.574 | VV | 2705   | 40842   | 0.49%  | 0.025% |
| 29     | 5.597 | 5.574 | 5.641 | VV | 1166   | 24448   | 0.30%  | 0.015% |
| 30     | 5.657 | 5.641 | 5.679 | VV | 1591   | 22914   | 0.28%  | 0.014% |
|        |       |       |       |    |        |         |        |        |
| 31     | 5.688 | 5.679 | 5.710 | VV | 914    | 10673   | 0.13%  | 0.006% |
| 32     | 5.725 | 5.710 | 5.746 | VV | 952    | 12517   | 0.15%  | 0.008% |
| 33     | 5.773 | 5.746 | 5.792 | VV | 1808   | 23044   | 0.28%  | 0.014% |
| 34     | 5.805 | 5.792 | 5.814 | VV | 438    | 4655    | 0.06%  | 0.003% |
| 35     | 5.829 | 5.814 | 5.846 | VV | 537    | 7811    | 0.09%  | 0.005% |
|        |       |       |       |    |        |         |        |        |
| 36     | 5.873 | 5.846 | 5.887 | VV | 616    | 11094   | 0.13%  | 0.007% |
| 37     | 5.893 | 5.887 | 5.909 | VV | 522    | 6024    | 0.07%  | 0.004% |
| 38     | 5.920 | 5.909 | 5.940 | VV | 453    | 6179    | 0.07%  | 0.004% |
| 39     | 5.950 | 5.940 | 5.967 | VV | 280    | 3517    | 0.04%  | 0.002% |
| 40     | 5.998 | 5.967 | 6.011 | VV | 487    | 9162    | 0.11%  | 0.006% |
|        |       |       |       |    |        |         |        |        |
| 41     | 6.020 | 6.011 | 6.030 | VV | 230    | 2265    | 0.03%  | 0.001% |
| 42     | 6.041 | 6.030 | 6.065 | VV | 343    | 4576    | 0.06%  | 0.003% |
| 43     | 6.078 | 6.065 | 6.107 | VV | 706    | 9894    | 0.12%  | 0.006% |
| 44     | 6.123 | 6.107 | 6.141 | VV | 384    | 5014    | 0.06%  | 0.003% |
| 45     | 6.155 | 6.141 | 6.173 | VV | 265    | 4128    | 0.05%  | 0.002% |
|        |       |       |       |    |        |         |        |        |
| 46     | 6.195 | 6.173 | 6.234 | VV | 838    | 14694   | 0.18%  | 0.009% |
| 47     | 6.240 | 6.234 | 6.252 | VV | 230    | 1710    | 0.02%  | 0.001% |
| 48     | 6.298 | 6.252 | 6.344 | VV | 758292 | 7459677 | 90.17% | 4.482% |
| 49     | 6.349 | 6.344 | 6.387 | VV | 2737   | 49798   | 0.60%  | 0.030% |
| 50     | 6.405 | 6.387 | 6.436 | VV | 1659   | 32676   | 0.39%  | 0.020% |
|        |       |       |       |    |        |         |        |        |
| 51     | 6.440 | 6.436 | 6.457 | VV | 725    | 8246    | 0.10%  | 0.005% |
| 52     | 6.472 | 6.457 | 6.502 | VV | 832    | 16809   | 0.20%  | 0.010% |
| 53     | 6.541 | 6.502 | 6.573 | VV | 1727   | 35035   | 0.42%  | 0.021% |
| 54     | 6.592 | 6.573 | 6.610 | VV | 1154   | 15905   | 0.19%  | 0.010% |
| 55     | 6.625 | 6.610 | 6.639 | VV | 1106   | 12680   | 0.15%  | 0.008% |
|        |       |       |       |    |        |         |        |        |
| 56     | 6.661 | 6.639 | 6.708 | VV | 885    | 18593   | 0.22%  | 0.011% |
| 57     | 6.720 | 6.708 | 6.732 | VV | 343    | 3603    | 0.04%  | 0.002% |
| 58     | 6.762 | 6.732 | 6.792 | VV | 59090  | 599837  | 7.25%  | 0.360% |
| 59     | 6.819 | 6.792 | 6.831 | VV | 669    | 11922   | 0.14%  | 0.007% |
| 60     | 6.850 | 6.831 | 6.871 | VV | 772    | 11912   | 0.14%  | 0.007% |
|        |       |       |       |    |        |         |        |        |
| 61     | 6.884 | 6.871 | 6.894 | VV | 710    | 7369    | 0.09%  | 0.004% |
| 62     | 6.915 | 6.894 | 6.961 | VV | 2728   | 47645   | 0.58%  | 0.029% |
| 63     | 6.982 | 6.961 | 7.004 | VV | 1734   | 25999   | 0.31%  | 0.016% |
| 64     | 7.019 | 7.004 | 7.036 | VV | 1305   | 17013   | 0.21%  | 0.010% |
| 65     | 7.054 | 7.036 | 7.076 | VV | 2726   | 32823   | 0.40%  | 0.020% |
|        |       |       |       |    |        |         |        |        |
| 66     | 7.081 | 7.076 | 7.126 | VV | 408    | 5080    | 0.06%  | 0.003% |
| 67     | 7.137 | 7.126 | 7.150 | VV | 151    | 1389    | 0.02%  | 0.001% |
| 68     | 7.167 | 7.150 | 7.173 | VV | 125    | 1026    | 0.01%  | 0.001% |
| 69     | 7.194 | 7.173 | 7.230 | VV | 2856   | 41763   | 0.50%  | 0.025% |

|     |       |       |       |        |        |         |        |        |
|-----|-------|-------|-------|--------|--------|---------|--------|--------|
|     |       |       |       | nteres |        |         |        |        |
| 70  | 7.246 | 7.230 | 7.264 | VV     | 3551   | 40454   | 0.49%  | 0.024% |
| 71  | 7.298 | 7.264 | 7.312 | VV     | 14804  | 165192  | 2.00%  | 0.099% |
| 72  | 7.323 | 7.312 | 7.359 | VV     | 11041  | 123710  | 1.50%  | 0.074% |
| 73  | 7.399 | 7.359 | 7.456 | VV     | 717629 | 7226324 | 87.35% | 4.342% |
| 74  | 7.466 | 7.456 | 7.501 | VV     | 2793   | 47823   | 0.58%  | 0.029% |
| 75  | 7.533 | 7.501 | 7.551 | VV     | 3075   | 48090   | 0.58%  | 0.029% |
| 76  | 7.569 | 7.551 | 7.584 | VV     | 4014   | 49451   | 0.60%  | 0.030% |
| 77  | 7.597 | 7.584 | 7.611 | VV     | 2923   | 36329   | 0.44%  | 0.022% |
| 78  | 7.625 | 7.611 | 7.643 | VV     | 2290   | 31699   | 0.38%  | 0.019% |
| 79  | 7.648 | 7.643 | 7.661 | VV     | 1145   | 11101   | 0.13%  | 0.007% |
| 80  | 7.675 | 7.661 | 7.690 | VV     | 1944   | 23074   | 0.28%  | 0.014% |
| 81  | 7.708 | 7.690 | 7.727 | VV     | 1563   | 23216   | 0.28%  | 0.014% |
| 82  | 7.767 | 7.727 | 7.791 | VV     | 6050   | 82470   | 1.00%  | 0.050% |
| 83  | 7.812 | 7.791 | 7.852 | VV     | 5027   | 73362   | 0.89%  | 0.044% |
| 84  | 7.883 | 7.852 | 7.911 | VV     | 1936   | 35234   | 0.43%  | 0.021% |
| 85  | 7.936 | 7.911 | 7.957 | VV     | 839    | 17867   | 0.22%  | 0.011% |
| 86  | 7.978 | 7.957 | 7.992 | VV     | 1573   | 20759   | 0.25%  | 0.012% |
| 87  | 8.027 | 7.992 | 8.108 | VV     | 623189 | 6241362 | 75.44% | 3.750% |
| 88  | 8.127 | 8.108 | 8.169 | VV     | 2102   | 53061   | 0.64%  | 0.032% |
| 89  | 8.175 | 8.169 | 8.187 | VV     | 894    | 8885    | 0.11%  | 0.005% |
| 90  | 8.208 | 8.187 | 8.241 | VV     | 1638   | 32960   | 0.40%  | 0.020% |
| 91  | 8.246 | 8.241 | 8.261 | VV     | 570    | 6268    | 0.08%  | 0.004% |
| 92  | 8.288 | 8.261 | 8.332 | VV     | 1050   | 26562   | 0.32%  | 0.016% |
| 93  | 8.343 | 8.332 | 8.355 | VV     | 528    | 5776    | 0.07%  | 0.003% |
| 94  | 8.376 | 8.355 | 8.404 | VV     | 1393   | 22178   | 0.27%  | 0.013% |
| 95  | 8.412 | 8.404 | 8.429 | VV     | 577    | 7253    | 0.09%  | 0.004% |
| 96  | 8.437 | 8.429 | 8.442 | VV     | 477    | 3101    | 0.04%  | 0.002% |
| 97  | 8.451 | 8.442 | 8.464 | VV     | 504    | 5487    | 0.07%  | 0.003% |
| 98  | 8.501 | 8.464 | 8.517 | VV     | 863    | 19636   | 0.24%  | 0.012% |
| 99  | 8.537 | 8.517 | 8.566 | VV     | 1147   | 22984   | 0.28%  | 0.014% |
| 100 | 8.596 | 8.566 | 8.644 | VV     | 58330  | 614699  | 7.43%  | 0.369% |
| 101 | 8.654 | 8.644 | 8.671 | VV     | 386    | 4688    | 0.06%  | 0.003% |
| 102 | 8.706 | 8.671 | 8.776 | VV     | 760953 | 8024222 | 97.00% | 4.822% |
| 103 | 8.792 | 8.776 | 8.817 | VV     | 1399   | 26297   | 0.32%  | 0.016% |
| 104 | 8.834 | 8.817 | 8.869 | VV     | 1047   | 21968   | 0.27%  | 0.013% |
| 105 | 8.903 | 8.869 | 8.945 | VV     | 363588 | 3773915 | 45.62% | 2.268% |
| 106 | 8.954 | 8.945 | 8.972 | VV     | 3417   | 46219   | 0.56%  | 0.028% |
| 107 | 9.006 | 8.972 | 9.057 | VV     | 769932 | 8125639 | 98.22% | 4.882% |
| 108 | 9.062 | 9.057 | 9.093 | VV     | 2498   | 40381   | 0.49%  | 0.024% |
| 109 | 9.113 | 9.093 | 9.187 | VV     | 2971   | 88729   | 1.07%  | 0.053% |
| 110 | 9.198 | 9.187 | 9.214 | VV     | 776    | 10610   | 0.13%  | 0.006% |
| 111 | 9.227 | 9.214 | 9.233 | VV     | 614    | 6335    | 0.08%  | 0.004% |
| 112 | 9.250 | 9.233 | 9.264 | VV     | 800    | 12801   | 0.15%  | 0.008% |

|     |        |        |        |        |        |         |         |        |
|-----|--------|--------|--------|--------|--------|---------|---------|--------|
|     |        |        |        | rteres |        |         |         |        |
| 113 | 9.277  | 9.264  | 9.295  | VV     | 1269   | 17744   | 0.21%   | 0.011% |
| 114 | 9.324  | 9.295  | 9.350  | VV     | 62517  | 642825  | 7.77%   | 0.386% |
| 115 | 9.361  | 9.350  | 9.411  | VV     | 1651   | 43721   | 0.53%   | 0.026% |
| 116 | 9.440  | 9.411  | 9.469  | VV     | 2927   | 51995   | 0.63%   | 0.031% |
| 117 | 9.472  | 9.469  | 9.492  | VV     | 705    | 7077    | 0.09%   | 0.004% |
| 118 | 9.511  | 9.492  | 9.546  | VV     | 868    | 15944   | 0.19%   | 0.010% |
| 119 | 9.561  | 9.546  | 9.583  | VV     | 602    | 8732    | 0.11%   | 0.005% |
| 120 | 9.605  | 9.583  | 9.634  | VV     | 1267   | 26914   | 0.33%   | 0.016% |
| 121 | 9.644  | 9.634  | 9.657  | VV     | 971    | 11926   | 0.14%   | 0.007% |
| 122 | 9.669  | 9.657  | 9.681  | VV     | 980    | 12594   | 0.15%   | 0.008% |
| 123 | 9.700  | 9.681  | 9.745  | VV     | 1289   | 34016   | 0.41%   | 0.020% |
| 124 | 9.796  | 9.745  | 9.853  | VV     | 772155 | 8272779 | 100.00% | 4.971% |
| 125 | 9.867  | 9.853  | 9.902  | VV     | 2356   | 49484   | 0.60%   | 0.030% |
| 126 | 9.909  | 9.902  | 9.922  | VV     | 1046   | 11578   | 0.14%   | 0.007% |
| 127 | 9.943  | 9.922  | 9.967  | VV     | 1264   | 26926   | 0.33%   | 0.016% |
| 128 | 10.004 | 9.967  | 10.069 | VV     | 10820  | 164579  | 1.99%   | 0.099% |
| 129 | 10.086 | 10.069 | 10.106 | VV     | 724    | 13229   | 0.16%   | 0.008% |
| 130 | 10.121 | 10.106 | 10.158 | VV     | 777    | 18048   | 0.22%   | 0.011% |
| 131 | 10.203 | 10.158 | 10.257 | VV     | 56510  | 632145  | 7.64%   | 0.380% |
| 132 | 10.300 | 10.257 | 10.351 | VV     | 876    | 27895   | 0.34%   | 0.017% |
| 133 | 10.374 | 10.351 | 10.400 | VV     | 593    | 12070   | 0.15%   | 0.007% |
| 134 | 10.408 | 10.400 | 10.418 | VV     | 308    | 2752    | 0.03%   | 0.002% |
| 135 | 10.430 | 10.418 | 10.463 | VV     | 386    | 6881    | 0.08%   | 0.004% |
| 136 | 10.485 | 10.463 | 10.498 | VV     | 687    | 9286    | 0.11%   | 0.006% |
| 137 | 10.510 | 10.498 | 10.517 | VV     | 554    | 5524    | 0.07%   | 0.003% |
| 138 | 10.534 | 10.517 | 10.544 | VV     | 601    | 8728    | 0.11%   | 0.005% |
| 139 | 10.568 | 10.544 | 10.587 | VV     | 1337   | 22319   | 0.27%   | 0.013% |
| 140 | 10.599 | 10.587 | 10.618 | VV     | 782    | 11425   | 0.14%   | 0.007% |
| 141 | 10.636 | 10.618 | 10.656 | VV     | 691    | 11435   | 0.14%   | 0.007% |
| 142 | 10.675 | 10.656 | 10.702 | VV     | 467    | 9482    | 0.11%   | 0.006% |
| 143 | 10.723 | 10.702 | 10.744 | VV     | 820    | 14737   | 0.18%   | 0.009% |
| 144 | 10.760 | 10.744 | 10.778 | VV     | 545    | 8147    | 0.10%   | 0.005% |
| 145 | 10.795 | 10.778 | 10.799 | VV     | 580    | 5930    | 0.07%   | 0.004% |
| 146 | 10.823 | 10.799 | 10.838 | VV     | 598    | 13257   | 0.16%   | 0.008% |
| 147 | 10.843 | 10.838 | 10.862 | VV     | 582    | 6964    | 0.08%   | 0.004% |
| 148 | 10.882 | 10.862 | 10.885 | VV     | 606    | 6460    | 0.08%   | 0.004% |
| 149 | 10.892 | 10.885 | 10.914 | VV     | 636    | 8984    | 0.11%   | 0.005% |
| 150 | 10.920 | 10.914 | 10.926 | VV     | 488    | 3222    | 0.04%   | 0.002% |
| 151 | 10.929 | 10.926 | 10.934 | VV     | 436    | 2143    | 0.03%   | 0.001% |
| 152 | 10.947 | 10.934 | 10.976 | VV     | 712    | 14321   | 0.17%   | 0.009% |
| 153 | 11.002 | 10.976 | 11.052 | VV     | 5504   | 93445   | 1.13%   | 0.056% |
| 154 | 11.077 | 11.052 | 11.124 | VV     | 1706   | 36707   | 0.44%   | 0.022% |
| 155 | 11.204 | 11.124 | 11.244 | VV     | 745164 | 8173826 | 98.80%  | 4.911% |

|     |        |        |        |    | rteres |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
| 156 | 11.280 | 11.244 | 11.346 | VV | 710127 | 8109529 | 98.03% | 4.873% |
| 157 | 11.355 | 11.346 | 11.390 | VV | 2338   | 48374   | 0.58%  | 0.029% |
| 158 | 11.405 | 11.390 | 11.432 | VV | 1108   | 22754   | 0.28%  | 0.014% |
| 159 | 11.449 | 11.432 | 11.465 | VV | 674    | 12003   | 0.15%  | 0.007% |
| 160 | 11.496 | 11.465 | 11.559 | VV | 1907   | 53115   | 0.64%  | 0.032% |
| 161 | 11.580 | 11.559 | 11.606 | VV | 1396   | 24051   | 0.29%  | 0.014% |
| 162 | 11.649 | 11.606 | 11.712 | VV | 53882  | 643614  | 7.78%  | 0.387% |
| 163 | 11.726 | 11.712 | 11.764 | VV | 597    | 14516   | 0.18%  | 0.009% |
| 164 | 11.784 | 11.764 | 11.797 | VV | 493    | 7002    | 0.08%  | 0.004% |
| 165 | 11.815 | 11.797 | 11.844 | VV | 557    | 10300   | 0.12%  | 0.006% |
| 166 | 11.892 | 11.844 | 11.923 | VV | 503    | 15598   | 0.19%  | 0.009% |
| 167 | 11.972 | 11.923 | 12.024 | VV | 664274 | 7419408 | 89.68% | 4.458% |
| 168 | 12.040 | 12.024 | 12.086 | VV | 1100   | 26338   | 0.32%  | 0.016% |
| 169 | 12.113 | 12.086 | 12.122 | VV | 1805   | 27468   | 0.33%  | 0.017% |
| 170 | 12.133 | 12.122 | 12.164 | VV | 1788   | 31462   | 0.38%  | 0.019% |
| 171 | 12.176 | 12.164 | 12.204 | VV | 1056   | 16491   | 0.20%  | 0.010% |
| 172 | 12.208 | 12.204 | 12.211 | VV | 362    | 1328    | 0.02%  | 0.001% |
| 173 | 12.222 | 12.211 | 12.234 | VV | 478    | 6059    | 0.07%  | 0.004% |
| 174 | 12.254 | 12.234 | 12.271 | VV | 762    | 13052   | 0.16%  | 0.008% |
| 175 | 12.315 | 12.271 | 12.347 | VV | 1335   | 39026   | 0.47%  | 0.023% |
| 176 | 12.373 | 12.347 | 12.395 | VV | 6369   | 85557   | 1.03%  | 0.051% |
| 177 | 12.412 | 12.395 | 12.438 | VV | 2510   | 33802   | 0.41%  | 0.020% |
| 178 | 12.456 | 12.438 | 12.468 | VV | 547    | 7815    | 0.09%  | 0.005% |
| 179 | 12.480 | 12.468 | 12.505 | VV | 631    | 9939    | 0.12%  | 0.006% |
| 180 | 12.544 | 12.505 | 12.557 | VV | 1271   | 25241   | 0.31%  | 0.015% |
| 181 | 12.570 | 12.557 | 12.636 | VV | 2219   | 54849   | 0.66%  | 0.033% |
| 182 | 12.648 | 12.636 | 12.671 | VV | 755    | 11837   | 0.14%  | 0.007% |
| 183 | 12.698 | 12.671 | 12.714 | VV | 587    | 11673   | 0.14%  | 0.007% |
| 184 | 12.749 | 12.714 | 12.764 | VV | 743    | 17545   | 0.21%  | 0.011% |
| 185 | 12.823 | 12.764 | 12.852 | VV | 7112   | 115001  | 1.39%  | 0.069% |
| 186 | 12.860 | 12.852 | 12.878 | VV | 435    | 5554    | 0.07%  | 0.003% |
| 187 | 12.903 | 12.878 | 12.929 | VV | 1667   | 22420   | 0.27%  | 0.013% |
| 188 | 12.962 | 12.929 | 12.989 | VV | 57180  | 693372  | 8.38%  | 0.417% |
| 189 | 13.028 | 12.989 | 13.174 | VV | 673601 | 7958059 | 96.20% | 4.782% |
| 190 | 13.207 | 13.174 | 13.230 | VV | 5556   | 76133   | 0.92%  | 0.046% |
| 191 | 13.237 | 13.230 | 13.272 | VV | 1088   | 18859   | 0.23%  | 0.011% |
| 192 | 13.329 | 13.272 | 13.354 | VV | 660485 | 7886077 | 95.33% | 4.739% |
| 193 | 13.375 | 13.354 | 13.382 | VV | 6154   | 80181   | 0.97%  | 0.048% |
| 194 | 13.408 | 13.382 | 13.485 | VV | 108163 | 1353486 | 16.36% | 0.813% |
| 195 | 13.503 | 13.485 | 13.537 | VV | 825    | 19124   | 0.23%  | 0.011% |
| 196 | 13.576 | 13.537 | 13.610 | VV | 48592  | 628601  | 7.60%  | 0.378% |
| 197 | 13.629 | 13.610 | 13.676 | VV | 3913   | 63089   | 0.76%  | 0.038% |
| 198 | 13.696 | 13.676 | 13.722 | VV | 682    | 15142   | 0.18%  | 0.009% |
| 199 | 13.728 | 13.722 | 13.735 | VV | 479    | 3226    | 0.04%  | 0.002% |

|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
|     |        |        |        | rt | eres   |         |        |        |
| 200 | 13.776 | 13.735 | 13.801 | VV | 795    | 24582   | 0.30%  | 0.015% |
| 201 | 13.813 | 13.801 | 13.827 | VV | 1262   | 17491   | 0.21%  | 0.011% |
| 202 | 13.833 | 13.827 | 13.894 | VV | 1227   | 37614   | 0.45%  | 0.023% |
| 203 | 13.921 | 13.894 | 13.942 | VV | 729    | 16296   | 0.20%  | 0.010% |
| 204 | 13.960 | 13.942 | 13.966 | VV | 565    | 7198    | 0.09%  | 0.004% |
| 205 | 13.982 | 13.966 | 13.993 | VV | 599    | 9053    | 0.11%  | 0.005% |
| 206 | 14.026 | 13.993 | 14.056 | VV | 1103   | 24546   | 0.30%  | 0.015% |
| 207 | 14.071 | 14.056 | 14.087 | VV | 470    | 7359    | 0.09%  | 0.004% |
| 208 | 14.113 | 14.087 | 14.133 | VV | 1495   | 25501   | 0.31%  | 0.015% |
| 209 | 14.163 | 14.133 | 14.211 | VV | 48096  | 615182  | 7.44%  | 0.370% |
| 210 | 14.226 | 14.211 | 14.248 | VV | 384    | 6262    | 0.08%  | 0.004% |
| 211 | 14.261 | 14.248 | 14.275 | VV | 178    | 1983    | 0.02%  | 0.001% |
| 212 | 14.284 | 14.275 | 14.311 | VV | 184    | 1960    | 0.02%  | 0.001% |
| 213 | 14.331 | 14.311 | 14.357 | PV | 139    | 1925    | 0.02%  | 0.001% |
| 214 | 14.391 | 14.357 | 14.426 | VV | 336    | 7994    | 0.10%  | 0.005% |
| 215 | 14.429 | 14.426 | 14.442 | VV | 198    | 1216    | 0.01%  | 0.001% |
| 216 | 14.454 | 14.442 | 14.481 | VV | 237    | 3585    | 0.04%  | 0.002% |
| 217 | 14.504 | 14.481 | 14.525 | VV | 321    | 4919    | 0.06%  | 0.003% |
| 218 | 14.559 | 14.537 | 14.565 | VV | 170    | 1798    | 0.02%  | 0.001% |
| 219 | 14.602 | 14.565 | 14.639 | VV | 13775  | 183933  | 2.22%  | 0.111% |
| 220 | 14.646 | 14.639 | 14.652 | VV | 399    | 3108    | 0.04%  | 0.002% |
| 221 | 14.658 | 14.652 | 14.682 | VV | 443    | 5848    | 0.07%  | 0.004% |
| 222 | 14.692 | 14.682 | 14.699 | VV | 278    | 1959    | 0.02%  | 0.001% |
| 223 | 14.706 | 14.699 | 14.711 | VV | 218    | 1250    | 0.02%  | 0.001% |
| 224 | 14.727 | 14.711 | 14.753 | VV | 426    | 7395    | 0.09%  | 0.004% |
| 225 | 14.789 | 14.753 | 14.801 | VV | 574    | 8089    | 0.10%  | 0.005% |
| 226 | 14.822 | 14.801 | 14.850 | VV | 441    | 9200    | 0.11%  | 0.006% |
| 227 | 14.869 | 14.850 | 14.905 | VV | 368    | 10237   | 0.12%  | 0.006% |
| 228 | 14.937 | 14.905 | 14.962 | VV | 472    | 10372   | 0.13%  | 0.006% |
| 229 | 14.967 | 14.962 | 14.974 | VV | 250    | 1488    | 0.02%  | 0.001% |
| 230 | 14.989 | 14.974 | 15.006 | VV | 294    | 4261    | 0.05%  | 0.003% |
| 231 | 15.042 | 15.006 | 15.064 | VV | 516    | 12112   | 0.15%  | 0.007% |
| 232 | 15.079 | 15.064 | 15.100 | VV | 440    | 7154    | 0.09%  | 0.004% |
| 233 | 15.111 | 15.100 | 15.142 | VV | 309    | 4542    | 0.05%  | 0.003% |
| 234 | 15.213 | 15.163 | 15.231 | PV | 528581 | 7409294 | 89.56% | 4.452% |
| 235 | 15.258 | 15.231 | 15.340 | VV | 634262 | 8093457 | 97.83% | 4.863% |
| 236 | 15.350 | 15.340 | 15.401 | VV | 1035   | 24290   | 0.29%  | 0.015% |
| 237 | 15.411 | 15.401 | 15.416 | VV | 448    | 3526    | 0.04%  | 0.002% |
| 238 | 15.441 | 15.416 | 15.464 | VV | 1125   | 20782   | 0.25%  | 0.012% |
| 239 | 15.469 | 15.464 | 15.497 | VV | 522    | 7628    | 0.09%  | 0.005% |
| 240 | 15.505 | 15.497 | 15.528 | VV | 322    | 5160    | 0.06%  | 0.003% |
| 241 | 15.533 | 15.528 | 15.554 | VV | 237    | 2802    | 0.03%  | 0.002% |
| 242 | 15.576 | 15.561 | 15.599 | VV | 342    | 4897    | 0.06%  | 0.003% |



|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
|     |        |        |        |    | rteres |         |        |        |
| 243 | 15.634 | 15.599 | 15.668 | VV | 1934   | 31118   | 0.38%  | 0.019% |
| 244 | 15.687 | 15.668 | 15.731 | VV | 579    | 12866   | 0.16%  | 0.008% |
| 245 | 15.742 | 15.731 | 15.751 | VV | 296    | 2942    | 0.04%  | 0.002% |
| 246 | 15.757 | 15.751 | 15.764 | VV | 282    | 1995    | 0.02%  | 0.001% |
| 247 | 15.809 | 15.764 | 15.862 | VV | 11043  | 154868  | 1.87%  | 0.093% |
| 248 | 15.878 | 15.862 | 15.883 | VV | 288    | 3008    | 0.04%  | 0.002% |
| 249 | 15.916 | 15.883 | 15.956 | VV | 431    | 15069   | 0.18%  | 0.009% |
| 250 | 15.998 | 15.956 | 16.030 | VV | 648    | 20249   | 0.24%  | 0.012% |
| 251 | 16.043 | 16.030 | 16.047 | VV | 334    | 2933    | 0.04%  | 0.002% |
| 252 | 16.055 | 16.047 | 16.080 | VV | 304    | 5454    | 0.07%  | 0.003% |
| 253 | 16.097 | 16.080 | 16.105 | VV | 357    | 4072    | 0.05%  | 0.002% |
| 254 | 16.113 | 16.105 | 16.131 | VV | 449    | 5833    | 0.07%  | 0.004% |
| 255 | 16.159 | 16.131 | 16.186 | VV | 541    | 13435   | 0.16%  | 0.008% |
| 256 | 16.190 | 16.186 | 16.195 | VV | 286    | 1288    | 0.02%  | 0.001% |
| 257 | 16.223 | 16.195 | 16.229 | VV | 273    | 4764    | 0.06%  | 0.003% |
| 258 | 16.254 | 16.229 | 16.263 | VV | 592    | 8412    | 0.10%  | 0.005% |
| 259 | 16.294 | 16.263 | 16.330 | VV | 42261  | 559515  | 6.76%  | 0.336% |
| 260 | 16.345 | 16.330 | 16.390 | VV | 386    | 7941    | 0.10%  | 0.005% |
| 261 | 16.406 | 16.390 | 16.422 | VV | 212    | 2977    | 0.04%  | 0.002% |
| 262 | 16.436 | 16.422 | 16.454 | VV | 200    | 2621    | 0.03%  | 0.002% |
| 263 | 16.487 | 16.454 | 16.513 | VV | 758    | 12967   | 0.16%  | 0.008% |
| 264 | 16.539 | 16.513 | 16.559 | VV | 230    | 3606    | 0.04%  | 0.002% |
| 265 | 16.586 | 16.568 | 16.591 | VV | 139    | 1084    | 0.01%  | 0.001% |
| 266 | 16.604 | 16.597 | 16.658 | VV | 128    | 3200    | 0.04%  | 0.002% |
| 267 | 16.675 | 16.669 | 16.695 | VV | 188    | 1004    | 0.01%  | 0.001% |
| 268 | 16.774 | 16.720 | 16.789 | VV | 442693 | 7038128 | 85.08% | 4.229% |
| 269 | 16.810 | 16.789 | 16.840 | VV | 581915 | 7041078 | 85.11% | 4.231% |
| 270 | 16.860 | 16.840 | 16.904 | VV | 2990   | 60868   | 0.74%  | 0.037% |
| 271 | 16.908 | 16.904 | 16.911 | VV | 631    | 2757    | 0.03%  | 0.002% |
| 272 | 16.916 | 16.911 | 16.928 | VV | 630    | 5691    | 0.07%  | 0.003% |
| 273 | 16.932 | 16.928 | 16.941 | VV | 555    | 4297    | 0.05%  | 0.003% |
| 274 | 16.946 | 16.941 | 16.957 | VV | 528    | 5084    | 0.06%  | 0.003% |
| 275 | 16.968 | 16.957 | 16.992 | VV | 572    | 10812   | 0.13%  | 0.006% |
| 276 | 17.018 | 16.992 | 17.059 | VV | 2328   | 40153   | 0.49%  | 0.024% |
| 277 | 17.074 | 17.059 | 17.097 | VV | 426    | 8266    | 0.10%  | 0.005% |
| 278 | 17.156 | 17.097 | 17.211 | VV | 487471 | 6792452 | 82.11% | 4.081% |
| 279 | 17.245 | 17.211 | 17.278 | VV | 41142  | 572176  | 6.92%  | 0.344% |
| 280 | 17.293 | 17.278 | 17.324 | VV | 1420   | 21942   | 0.27%  | 0.013% |
| 281 | 17.326 | 17.324 | 17.339 | VV | 276    | 1753    | 0.02%  | 0.001% |
| 282 | 17.348 | 17.339 | 17.380 | VV | 236    | 4290    | 0.05%  | 0.003% |
| 283 | 17.396 | 17.389 | 17.404 | VV | 145    | 1137    | 0.01%  | 0.001% |
| 284 | 17.417 | 17.404 | 17.422 | VV | 293    | 2412    | 0.03%  | 0.001% |
| 285 | 17.426 | 17.422 | 17.441 | VV | 262    | 1850    | 0.02%  | 0.001% |

|     |        |        |        |     |                         |           |        |        |
|-----|--------|--------|--------|-----|-------------------------|-----------|--------|--------|
|     |        |        |        |     | rteres                  |           |        |        |
| 286 | 17.447 | 17.441 | 17.476 | VV  | 229                     | 2837      | 0.03%  | 0.002% |
| 287 | 17.519 | 17.493 | 17.534 | PV  | 373                     | 5626      | 0.07%  | 0.003% |
| 288 | 17.570 | 17.534 | 17.599 | VV  | 379                     | 8460      | 0.10%  | 0.005% |
| 289 | 17.657 | 17.599 | 17.676 | PV  | 565                     | 9970      | 0.12%  | 0.006% |
| 290 | 17.698 | 17.676 | 17.741 | VV  | 1038                    | 15901     | 0.19%  | 0.010% |
| 291 | 17.767 | 17.741 | 17.773 | PV  | 211                     | 1683      | 0.02%  | 0.001% |
| 292 | 17.801 | 17.773 | 17.829 | VV  | 396                     | 8074      | 0.10%  | 0.005% |
| 293 | 17.844 | 17.829 | 17.849 | VV  | 187                     | 1776      | 0.02%  | 0.001% |
| 294 | 17.859 | 17.849 | 17.864 | VV  | 175                     | 1248      | 0.02%  | 0.001% |
| 295 | 17.913 | 17.864 | 17.943 | VV  | 340                     | 9318      | 0.11%  | 0.006% |
| 296 | 17.980 | 17.943 | 17.986 | VV  | 329                     | 5387      | 0.07%  | 0.003% |
| 297 | 18.028 | 17.986 | 18.045 | VV  | 539                     | 13393     | 0.16%  | 0.008% |
| 298 | 18.062 | 18.045 | 18.078 | VV  | 744                     | 10034     | 0.12%  | 0.006% |
| 299 | 18.137 | 18.078 | 18.184 | VV  | 37708                   | 535610    | 6.47%  | 0.322% |
| 300 | 18.192 | 18.184 | 18.207 | VV  | 158                     | 1606      | 0.02%  | 0.001% |
| 301 | 18.228 | 18.207 | 18.239 | VV  | 205                     | 2498      | 0.03%  | 0.002% |
| 302 | 18.248 | 18.239 | 18.258 | VV  | 166                     | 1364      | 0.02%  | 0.001% |
| 303 | 18.312 | 18.258 | 18.362 | VV  | 864                     | 19375     | 0.23%  | 0.012% |
| 304 | 18.417 | 18.384 | 18.451 | PV  | 390                     | 7291      | 0.09%  | 0.004% |
| 305 | 18.534 | 18.451 | 18.547 | PV  | 465150                  | 7238439   | 87.50% | 4.349% |
| 306 | 18.572 | 18.547 | 18.671 | VV  | 499407                  | 6743815   | 81.52% | 4.052% |
| 307 | 18.676 | 18.671 | 18.734 | VV  | 747                     | 14066     | 0.17%  | 0.008% |
| 308 | 18.792 | 18.734 | 18.851 | PBA | 430168                  | 6517391   | 78.78% | 3.916% |
|     |        |        |        |     | Sum of corrected areas: | 166423912 |        |        |

Aromatic EPH 092425.M Tue Sep 30 01:32:31 2025



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## Manual Integration Report

|           |            |            |       |
|-----------|------------|------------|-------|
| Sequence: | FE092425AL | Instrument | FID_e |
|-----------|------------|------------|-------|

| Sample ID | File ID    | Parameter                 | Review By | Review On            | Supervised By | Supervised On     | Reason                      |
|-----------|------------|---------------------------|-----------|----------------------|---------------|-------------------|-----------------------------|
| Q3168-03  | FE055979.D | 1-chlorooctadecane (SURR) | yogesh    | 9/25/2025 1:08:41 PM | mohammad      | 9/26/2025 4:25:44 | Peak Integrated by Software |
| Q3168-03  | FE055979.D | ortho-Terphenyl (SURR)    | yogesh    | 9/25/2025 1:08:41 PM | mohammad      | 9/26/2025 4:25:44 | Peak Integrated by Software |

## Manual Integration Report

Sequence:

FE092925AL

Instrument

FID\_e

| Sample ID           | File ID    | Parameter                 | Review By | Review On             | Supervised By | Supervised On     | Reason                      |
|---------------------|------------|---------------------------|-----------|-----------------------|---------------|-------------------|-----------------------------|
| 20 PPM ALIPHATIC HC | FE056035.D | n-Octatriacontane (C38)   | yogesh    | 9/29/2025 12:58:42 PM | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3212-01DL          | FE056042.D | ortho-Terphenyl (SURR)    | yogesh    | 9/29/2025 4:40:13 PM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FE056045.D | n-Octatriacontane (C38)   | yogesh    | 9/30/2025 7:44:43 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FE056045.D | n-Tetracontane (C40)      | yogesh    | 9/30/2025 7:44:43 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3206-01            | FE056048.D | 1-chlorooctadecane (SURR) | yogesh    | 9/30/2025 7:44:44 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3206-02            | FE056049.D | 1-chlorooctadecane (SURR) | yogesh    | 9/30/2025 7:44:46 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3206-02            | FE056049.D | ortho-Terphenyl (SURR)    | yogesh    | 9/30/2025 7:44:46 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FE056059.D | 1-chlorooctadecane (SURR) | yogesh    | 9/30/2025 7:45:02 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3221-01            | FE056062.D | 1-chlorooctadecane (SURR) | yogesh    | 9/30/2025 7:44:49 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3231-01            | FE056066.D | 1-chlorooctadecane (SURR) | yogesh    | 9/30/2025 7:44:51 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3231-06            | FE056068.D | 1-chlorooctadecane (SURR) | yogesh    | 9/30/2025 7:44:53 AM  | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3231-13            | FE056071.D | ortho-Terphenyl (SURR)    | yogesh    | 9/30/2025 11:00:46 AM | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| Q3231-14            | FE056072.D | ortho-Terphenyl (SURR)    | yogesh    | 9/30/2025 11:00:48 AM | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |

## Manual Integration Report

Sequence:

FE092925AL

Instrument

FID\_e

| Sample ID           | File ID    | Parameter                 | Review By | Review On             | Supervised By | Supervised On     | Reason                      |
|---------------------|------------|---------------------------|-----------|-----------------------|---------------|-------------------|-----------------------------|
| PB169879BL          | FE056073.D | 1-chlorooctadecane (SURR) | yogesh    | 9/30/2025 11:00:50 AM | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| PB169879BS          | FE056074.D | n-Octatriacontane (C38)   | yogesh    | 9/30/2025 11:00:51 AM | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FE056077.D | n-Hexatriacontane (C36)   | yogesh    | 9/30/2025 11:00:53 AM | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |
| 20 PPM ALIPHATIC HC | FE056077.D | n-Octatriacontane (C38)   | yogesh    | 9/30/2025 11:00:53 AM | mohammad      | 10/1/2025 1:40:41 | Peak Integrated by Software |



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## Manual Integration Report

Sequence:

FF092425AR

Instrument

FID\_f

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason



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## Manual Integration Report

Sequence:

FF092925AR

Instrument

FID\_f

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL**

|                                                                    |                                         |                   |                                 |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Review By                                                          | yogesh                                  | Review On         | 9/24/2025 11:25:42 AM           |
| Supervise By                                                       | mohammad                                | Supervise On      | 9/26/2025 4:25:44 AM            |
| SubDirectory                                                       | FE092425AL                              | HP Acquire Method | HP Processing Method FE092425AL |
| <b>STD.NAME</b>                                                    | <b>STD REF.#</b>                        |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24768,PP24770,PP24771,PP24772,PP24773 |                   |                                 |
| CCC<br>Internal Standard/PEM                                       | PP24771                                 |                   |                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24769,PP24774                         |                   |                                 |

| Sr# | SampleId                    | Data File Name | Date-Time         | Operator | Status |
|-----|-----------------------------|----------------|-------------------|----------|--------|
| 1   | MECL2                       | FE055960.D     | 24 Sep 2025 08:06 | YPIAJ    | Ok     |
| 2   | I.BLK                       | FE055961.D     | 24 Sep 2025 08:36 | YPIAJ    | Ok     |
| 3   | 100 PPM ALIPHATIC HC STD1   | FE055962.D     | 24 Sep 2025 09:07 | YPIAJ    | Ok     |
| 4   | 50 PPM ALIPHATIC HC STD2    | FE055963.D     | 24 Sep 2025 09:37 | YPIAJ    | Ok     |
| 5   | 20 PPM ALIPHATIC HC STD3    | FE055964.D     | 24 Sep 2025 10:07 | YPIAJ    | Ok     |
| 6   | 10 PPM ALIPHATIC HC STD4    | FE055965.D     | 24 Sep 2025 10:38 | YPIAJ    | Ok     |
| 7   | 5 PPM ALIPHATIC HC STD5     | FE055966.D     | 24 Sep 2025 11:08 | YPIAJ    | Ok     |
| 8   | 20 PPM ALIPHATIC HC STD ICV | FE055967.D     | 24 Sep 2025 11:39 | YPIAJ    | Ok     |
| 9   | I.BLK                       | FE055968.D     | 24 Sep 2025 12:09 | YPIAJ    | Ok     |
| 10  | 20 PPM ALIPHATIC HC STD     | FE055969.D     | 24 Sep 2025 12:40 | YPIAJ    | Ok     |
| 11  | PB169809BL                  | FE055970.D     | 24 Sep 2025 14:27 | YPIAJ    | Ok     |
| 12  | PB169809BS                  | FE055971.D     | 24 Sep 2025 14:58 | YPIAJ    | Ok     |
| 13  | PB169809BSD                 | FE055972.D     | 24 Sep 2025 15:28 | YPIAJ    | Ok     |



Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL**

| Review By                                                          | yogesh                                  | Review On         | 9/24/2025 11:25:42 AM           |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Supervise By                                                       | mohammad                                | Supervise On      | 9/26/2025 4:25:44 AM            |
| SubDirectory                                                       | FE092425AL                              | HP Acquire Method | HP Processing Method FE092425AL |
| STD.NAME                                                           | STD REF.#                               |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24768,PP24770,PP24771,PP24772,PP24773 |                   |                                 |
| CCC<br>Internal Standard/PEM                                       | PP24771                                 |                   |                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24769,PP24774                         |                   |                                 |

|    |                         |            |                   |       |          |
|----|-------------------------|------------|-------------------|-------|----------|
| 14 | Q3159-01                | FE055973.D | 24 Sep 2025 15:59 | YPIAJ | Ok       |
| 15 | Q3159-01D               | FE055974.D | 24 Sep 2025 16:29 | YPIAJ | Ok       |
| 16 | Q3159-01MS              | FE055975.D | 24 Sep 2025 17:00 | YPIAJ | Ok       |
| 17 | Q3159-01MSD             | FE055976.D | 24 Sep 2025 17:31 | YPIAJ | Ok       |
| 18 | Q3159-03                | FE055977.D | 24 Sep 2025 18:01 | YPIAJ | Ok       |
| 19 | Q3167-01                | FE055978.D | 24 Sep 2025 18:32 | YPIAJ | Dilution |
| 20 | Q3168-03                | FE055979.D | 24 Sep 2025 19:03 | YPIAJ | Dilution |
| 21 | I.BLK                   | FE055980.D | 24 Sep 2025 20:04 | YPIAJ | Ok       |
| 22 | 20 PPM ALIPHATIC HC STD | FE055981.D | 24 Sep 2025 20:35 | YPIAJ | Ok       |
|    |                         |            |                   |       |          |
|    |                         |            |                   |       |          |
|    |                         |            |                   |       |          |
|    |                         |            |                   |       |          |
|    |                         |            |                   |       |          |

M : Manual Integration

Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL**

|                                         |                                         |                   |                                 |
|-----------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Review By                               | yogesh                                  | Review On         | 9/29/2025 10:09:20 AM           |
| Supervise By                            | mohammad                                | Supervise On      | 10/1/2025 1:40:41 AM            |
| SubDirectory                            | FE092925AL                              | HP Acquire Method | HP Processing Method FE092425AL |
| <b>STD.NAME</b>                         | <b>STD REF.#</b>                        |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |                   |                                 |
| CCC                                     | PP24771                                 |                   |                                 |
| Internal Standard/PEM                   |                                         |                   |                                 |
| ICV/I.BLK                               | PP24769,PP24774                         |                   |                                 |
| Surrogate Standard                      |                                         |                   |                                 |
| MS/MSD Standard                         |                                         |                   |                                 |
| LCS Standard                            |                                         |                   |                                 |

| Sr# | SampleID                | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------------------|----------------|-------------------|----------|----------|
| 1   | MECL2                   | FE056033.D     | 29 Sep 2025 08:16 | YPIAJ    | Ok       |
| 2   | I.BLK                   | FE056034.D     | 29 Sep 2025 08:47 | YPIAJ    | Ok       |
| 3   | 20 PPM ALIPHATIC HC STD | FE056035.D     | 29 Sep 2025 09:17 | YPIAJ    | Ok,M     |
| 4   | Q3209-01                | FE056036.D     | 29 Sep 2025 09:47 | YPIAJ    | Dilution |
| 5   | Q3209-02                | FE056037.D     | 29 Sep 2025 10:18 | YPIAJ    | Dilution |
| 6   | Q3212-01                | FE056038.D     | 29 Sep 2025 10:48 | YPIAJ    | Dilution |
| 7   | Q3212-02                | FE056039.D     | 29 Sep 2025 11:18 | YPIAJ    | Dilution |
| 8   | Q3209-01DL              | FE056040.D     | 29 Sep 2025 11:49 | YPIAJ    | Ok       |
| 9   | Q3209-02DL              | FE056041.D     | 29 Sep 2025 12:19 | YPIAJ    | Ok       |
| 10  | Q3212-01DL              | FE056042.D     | 29 Sep 2025 12:49 | YPIAJ    | Ok,M     |
| 11  | Q3212-02DL              | FE056043.D     | 29 Sep 2025 13:20 | YPIAJ    | Ok       |
| 12  | I.BLK                   | FE056044.D     | 29 Sep 2025 14:21 | YPIAJ    | Ok       |
| 13  | 20 PPM ALIPHATIC HC STD | FE056045.D     | 29 Sep 2025 14:51 | YPIAJ    | Ok,M     |
| 14  | Q3200-01                | FE056046.D     | 29 Sep 2025 15:22 | YPIAJ    | Ok       |
| 15  | Q3200-02                | FE056047.D     | 29 Sep 2025 15:52 | YPIAJ    | Ok       |
| 16  | Q3206-01                | FE056048.D     | 29 Sep 2025 16:23 | YPIAJ    | Ok,M     |
| 17  | Q3206-02                | FE056049.D     | 29 Sep 2025 16:53 | YPIAJ    | Dilution |
| 18  | Q3208-03                | FE056050.D     | 29 Sep 2025 17:23 | YPIAJ    | Dilution |
| 19  | Q3208-04                | FE056051.D     | 29 Sep 2025 17:54 | YPIAJ    | Dilution |
| 20  | Q3177-01                | FE056052.D     | 29 Sep 2025 18:25 | YPIAJ    | Not Ok   |
| 21  | Q3177-02                | FE056053.D     | 29 Sep 2025 18:55 | YPIAJ    | Not Ok   |

Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL**

| Review By                               | yogesh                                  | Review On         | 9/29/2025 10:09:20 AM           |
|-----------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Supervise By                            | mohammad                                | Supervise On      | 10/1/2025 1:40:41 AM            |
| SubDirectory                            | FE092925AL                              | HP Acquire Method | HP Processing Method FE092425AL |
| STD.NAME                                | STD REF.#                               |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |                   |                                 |
| CCC                                     | PP24771                                 |                   |                                 |
| Internal Standard/PEM                   |                                         |                   |                                 |
| ICV/I.BLK                               | PP24769,PP24774                         |                   |                                 |
| Surrogate Standard                      |                                         |                   |                                 |
| MS/MSD Standard                         |                                         |                   |                                 |
| LCS Standard                            |                                         |                   |                                 |

|    |                         |            |                   |       |          |
|----|-------------------------|------------|-------------------|-------|----------|
| 22 | Q3177-03                | FE056054.D | 29 Sep 2025 19:26 | YPIAJ | Not Ok   |
| 23 | Q3179-01                | FE056055.D | 29 Sep 2025 19:56 | YPIAJ | Ok       |
| 24 | Q3179-02MS              | FE056056.D | 29 Sep 2025 20:27 | YPIAJ | Ok       |
| 25 | Q3179-02MS              | FE056056.D | 29 Sep 2025 20:27 | YPIAJ | Ok       |
| 26 | Q3179-03MSD             | FE056057.D | 29 Sep 2025 20:57 | YPIAJ | Ok       |
| 27 | Q3179-03MSD             | FE056057.D | 29 Sep 2025 20:57 | YPIAJ | Ok       |
| 28 | I.BLK                   | FE056058.D | 29 Sep 2025 21:58 | YPIAJ | Ok       |
| 29 | 20 PPM ALIPHATIC HC STD | FE056059.D | 29 Sep 2025 22:59 | YPIAJ | Ok,M     |
| 30 | Q3220-01                | FE056060.D | 29 Sep 2025 23:30 | YPIAJ | Ok       |
| 31 | Q3220-02                | FE056061.D | 30 Sep 2025 00:01 | YPIAJ | Ok       |
| 32 | Q3221-01                | FE056062.D | 30 Sep 2025 00:31 | YPIAJ | Dilution |
| 33 | Q3221-02                | FE056063.D | 30 Sep 2025 01:02 | YPIAJ | Dilution |
| 34 | Q3222-01                | FE056064.D | 30 Sep 2025 01:32 | YPIAJ | Dilution |
| 35 | Q3222-02                | FE056065.D | 30 Sep 2025 02:02 | YPIAJ | Dilution |
| 36 | Q3231-01                | FE056066.D | 30 Sep 2025 02:33 | YPIAJ | Dilution |
| 37 | Q3231-02                | FE056067.D | 30 Sep 2025 03:03 | YPIAJ | Ok       |
| 38 | Q3231-06                | FE056068.D | 30 Sep 2025 03:33 | YPIAJ | Ok,M     |
| 39 | Q3231-09                | FE056069.D | 30 Sep 2025 04:04 | YPIAJ | Dilution |
| 40 | Q3231-10                | FE056070.D | 30 Sep 2025 04:34 | YPIAJ | Dilution |
| 41 | Q3231-13                | FE056071.D | 30 Sep 2025 05:05 | YPIAJ | Ok,M     |
| 42 | Q3231-14                | FE056072.D | 30 Sep 2025 05:35 | YPIAJ | Ok,M     |
| 43 | PB169879BL              | FE056073.D | 30 Sep 2025 06:05 | YPIAJ | Ok,M     |
| 44 | PB169879BS              | FE056074.D | 30 Sep 2025 06:36 | YPIAJ | Ok,M     |

Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL**

| Review By                                                          | yogesh                                  | Review On         | 9/29/2025 10:09:20 AM           |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Supervise By                                                       | mohammad                                | Supervise On      | 10/1/2025 1:40:41 AM            |
| SubDirectory                                                       | FE092925AL                              | HP Acquire Method | HP Processing Method FE092425AL |
| STD.NAME                                                           | STD REF.#                               |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24768,PP24770,PP24771,PP24772,PP24773 |                   |                                 |
| CCC<br>Internal Standard/PEM                                       | PP24771                                 |                   |                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24769,PP24774                         |                   |                                 |

|    |                         |            |                   |       |      |
|----|-------------------------|------------|-------------------|-------|------|
| 45 | PB169879TB              | FE056075.D | 30 Sep 2025 07:06 | YP\AJ | Ok   |
| 46 | I.BLK                   | FE056076.D | 30 Sep 2025 07:36 | YP\AJ | Ok   |
| 47 | 20 PPM ALIPHATIC HC STD | FE056077.D | 30 Sep 2025 08:07 | YP\AJ | Ok,M |
|    |                         |            |                   |       |      |
|    |                         |            |                   |       |      |
|    |                         |            |                   |       |      |
|    |                         |            |                   |       |      |
|    |                         |            |                   |       |      |
|    |                         |            |                   |       |      |

M : Manual Integration

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF092425AR**

|                                                                    |                                         |                   |                                 |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Review By                                                          | yogesh                                  | Review On         | 9/24/2025 12:57:21 PM           |
| Supervise By                                                       | mohammad                                | Supervise On      | 9/26/2025 4:25:38 AM            |
| SubDirectory                                                       | FF092425AR                              | HP Acquire Method | HP Processing Method FF092425AR |
| <b>STD.NAME</b>                                                    | <b>STD REF.#</b>                        |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24500,PP24502,PP24503,PP24504,PP24505 |                   |                                 |
| CCC<br>Internal Standard/PEM                                       | PP24503                                 |                   |                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24501,PP24506                         |                   |                                 |

| Sr# | SampleId                   | Data File Name | Date-Time         | Operator | Status |
|-----|----------------------------|----------------|-------------------|----------|--------|
| 1   | MECL2                      | FF016429.D     | 24 Sep 2025 13:00 | YP\AJ    | Ok     |
| 2   | I.BLK                      | FF016430.D     | 24 Sep 2025 13:30 | YP\AJ    | Ok     |
| 3   | 100 PPM AROMATIC HC STD1   | FF016431.D     | 24 Sep 2025 13:59 | YP\AJ    | Ok     |
| 4   | 50 PPM AROMATIC HC STD2    | FF016432.D     | 24 Sep 2025 14:29 | YP\AJ    | Ok     |
| 5   | 20 PPM AROMATIC HC STD3    | FF016433.D     | 24 Sep 2025 14:59 | YP\AJ    | Ok     |
| 6   | 10 PPM AROMATIC HC STD4    | FF016434.D     | 24 Sep 2025 15:28 | YP\AJ    | Ok     |
| 7   | 5 PPM AROMATIC HC STD5     | FF016435.D     | 24 Sep 2025 15:58 | YP\AJ    | Ok     |
| 8   | 20 PPM AROMATIC HC STD ICV | FF016436.D     | 24 Sep 2025 16:28 | YP\AJ    | Ok     |
| 9   | I.BLK                      | FF016437.D     | 24 Sep 2025 17:27 | YP\AJ    | Ok     |
| 10  | 20 PPM AROMATIC HC STD     | FF016438.D     | 24 Sep 2025 17:57 | YP\AJ    | Ok     |

M : Manual Integration

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF092925AR**

|                                                                    |                                         |                   |                                 |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Review By                                                          | yogesh                                  | Review On         | 9/29/2025 3:49:57 PM            |
| Supervise By                                                       | mohammad                                | Supervise On      | 10/1/2025 1:40:54 AM            |
| SubDirectory                                                       | FF092925AR                              | HP Acquire Method | HP Processing Method FF092425AR |
| <b>STD.NAME</b>                                                    | <b>STD REF.#</b>                        |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24500,PP24502,PP24503,PP24504,PP24505 |                   |                                 |
| CCC<br>Internal Standard/PEM                                       | PP24503                                 |                   |                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24501,PP24506                         |                   |                                 |

| Sr# | SampleId               | Data File Name | Date-Time         | Operator | Status |
|-----|------------------------|----------------|-------------------|----------|--------|
| 1   | MECL2                  | FF016467.D     | 29 Sep 2025 08:51 | YPIAJ    | Ok     |
| 2   | I.BLK                  | FF016468.D     | 29 Sep 2025 12:09 | YPIAJ    | Ok     |
| 3   | 20 PPM AROMATIC HC STD | FF016469.D     | 29 Sep 2025 14:07 | YPIAJ    | Ok     |
| 4   | PB169879BL             | FF016470.D     | 29 Sep 2025 16:35 | YPIAJ    | Ok     |
| 5   | PB169879BS             | FF016471.D     | 29 Sep 2025 17:05 | YPIAJ    | Ok     |
| 6   | PB169879TB             | FF016472.D     | 29 Sep 2025 17:35 | YPIAJ    | Ok     |
| 7   | Q3177-01               | FF016473.D     | 29 Sep 2025 18:04 | YPIAJ    | ReRun  |
| 8   | Q3177-02               | FF016474.D     | 29 Sep 2025 18:34 | YPIAJ    | Ok     |
| 9   | Q3177-03               | FF016475.D     | 29 Sep 2025 19:04 | YPIAJ    | Ok     |
| 10  | Q3179-01               | FF016476.D     | 29 Sep 2025 19:33 | YPIAJ    | Ok     |
| 11  | Q3179-02MS             | FF016477.D     | 29 Sep 2025 20:03 | YPIAJ    | Ok     |
| 12  | Q3179-02MS             | FF016477.D     | 29 Sep 2025 20:03 | YPIAJ    | Ok     |
| 13  | Q3179-03MSD            | FF016478.D     | 29 Sep 2025 20:33 | YPIAJ    | Ok     |
| 14  | Q3179-03MSD            | FF016478.D     | 29 Sep 2025 20:33 | YPIAJ    | Ok     |
| 15  | I.BLK                  | FF016479.D     | 29 Sep 2025 21:03 | YPIAJ    | Ok     |

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF092925AR**

| Review By                | yogesh                                  | Review On         | 9/29/2025 3:49:57 PM            |
|--------------------------|-----------------------------------------|-------------------|---------------------------------|
| Supervise By             | mohammad                                | Supervise On      | 10/1/2025 1:40:54 AM            |
| SubDirectory             | FF092925AR                              | HP Acquire Method | HP Processing Method FF092425AR |
| STD.NAME                 | STD REF.#                               |                   |                                 |
| Tune/Reschk              |                                         |                   |                                 |
| Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |                   |                                 |
| CCC                      | PP24503                                 |                   |                                 |
| Internal Standard/PEM    |                                         |                   |                                 |
| ICV/I.BLK                | PP24501,PP24506                         |                   |                                 |
| Surrogate Standard       |                                         |                   |                                 |
| MS/MSD Standard          |                                         |                   |                                 |
| LCS Standard             |                                         |                   |                                 |

|    |                        |            |                   |      |    |
|----|------------------------|------------|-------------------|------|----|
| 16 | 20 PPM AROMATIC HC STD | FF016480.D | 29 Sep 2025 22:02 | YPAJ | Ok |
|----|------------------------|------------|-------------------|------|----|

M : Manual Integration

Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL**

|              |            |                   |                                 |
|--------------|------------|-------------------|---------------------------------|
| Review By    | yogesh     | Review On         | 9/24/2025 11:25:42 AM           |
| Supervise By | mohammad   | Supervise On      | 9/26/2025 4:25:44 AM            |
| SubDirectory | FE092425AL | HP Acquire Method | HP Processing Method FE092425AL |

| STD.NAME                                                           | STD REF.#                               |
|--------------------------------------------------------------------|-----------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                            | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC<br>Internal Standard/PEM                                       | PP24771                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24769,PP24774                         |

| Sr# | SampleID             | ClientID             | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|----------------------|----------------------|----------------|-------------------|---------|----------|--------|
| 1   | MECL2                | MECL2                | FE055960.D     | 24 Sep 2025 08:06 |         | YP\AJ    | Ok     |
| 2   | I.BLK                | I.BLK                | FE055961.D     | 24 Sep 2025 08:36 |         | YP\AJ    | Ok     |
| 3   | 100 PPM ALIPHATIC HC | 100 PPM ALIPHATIC HC | FE055962.D     | 24 Sep 2025 09:07 |         | YP\AJ    | Ok     |
| 4   | 50 PPM ALIPHATIC HC  | 50 PPM ALIPHATIC HC  | FE055963.D     | 24 Sep 2025 09:37 |         | YP\AJ    | Ok     |
| 5   | 20 PPM ALIPHATIC HC  | 20 PPM ALIPHATIC HC  | FE055964.D     | 24 Sep 2025 10:07 |         | YP\AJ    | Ok     |
| 6   | 10 PPM ALIPHATIC HC  | 10 PPM ALIPHATIC HC  | FE055965.D     | 24 Sep 2025 10:38 |         | YP\AJ    | Ok     |
| 7   | 5 PPM ALIPHATIC HC   | 5 PPM ALIPHATIC HC   | FE055966.D     | 24 Sep 2025 11:08 |         | YP\AJ    | Ok     |
| 8   | 20 PPM ALIPHATIC HC  | 20 PPM ALIPHATIC HC  | FE055967.D     | 24 Sep 2025 11:39 |         | YP\AJ    | Ok     |
| 9   | I.BLK                | I.BLK                | FE055968.D     | 24 Sep 2025 12:09 |         | YP\AJ    | Ok     |
| 10  | 20 PPM ALIPHATIC HC  | 20 PPM ALIPHATIC HC  | FE055969.D     | 24 Sep 2025 12:40 |         | YP\AJ    | Ok     |
| 11  | PB169809BL           | PB169809BL           | FE055970.D     | 24 Sep 2025 14:27 |         | YP\AJ    | Ok     |
| 12  | PB169809BS           | PB169809BLBS         | FE055971.D     | 24 Sep 2025 14:58 |         | YP\AJ    | Ok     |



Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092425AL**

|                                                                    |                                         |                   |                                 |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Review By                                                          | yogesh                                  | Review On         | 9/24/2025 11:25:42 AM           |
| Supervise By                                                       | mohammad                                | Supervise On      | 9/26/2025 4:25:44 AM            |
| SubDirectory                                                       | FE092425AL                              | HP Acquire Method | HP Processing Method FE092425AL |
| <b>STD.NAME</b>                                                    | <b>STD REF.#</b>                        |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24768,PP24770,PP24771,PP24772,PP24773 |                   |                                 |
| CCC<br>Internal Standard/PEM                                       | PP24771                                 |                   |                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24769,PP24774                         |                   |                                 |

|    |                     |                       |            |                   |                       |      |          |
|----|---------------------|-----------------------|------------|-------------------|-----------------------|------|----------|
| 13 | PB169809BSD         | PB169809BLBSBSBSB     | FE055972.D | 24 Sep 2025 15:28 |                       | YPAJ | Ok       |
| 14 | Q3159-01            | VNJ-245               | FE055973.D | 24 Sep 2025 15:59 |                       | YPAJ | Ok       |
| 15 | Q3159-01D           | VNJ-245D              | FE055974.D | 24 Sep 2025 16:29 |                       | YPAJ | Ok       |
| 16 | Q3159-01MS          | VNJ-245MS             | FE055975.D | 24 Sep 2025 17:00 | FE055973.D            | YPAJ | Ok       |
| 17 | Q3159-01MSD         | VNJ-245MSD            | FE055976.D | 24 Sep 2025 17:31 | FE055973.D!FE055975.D | YPAJ | Ok       |
| 18 | Q3159-03            | VNJ-255               | FE055977.D | 24 Sep 2025 18:01 |                       | YPAJ | Ok       |
| 19 | Q3167-01            | RT4784                | FE055978.D | 24 Sep 2025 18:32 | Need 2X               | YPAJ | Dilution |
| 20 | Q3168-03            | ARS20-0010-Oily Soil- | FE055979.D | 24 Sep 2025 19:03 | Need 10X              | YPAJ | Dilution |
| 21 | I.BLK               | I.BLK                 | FE055980.D | 24 Sep 2025 20:04 |                       | YPAJ | Ok       |
| 22 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC   | FE055981.D | 24 Sep 2025 20:35 |                       | YPAJ | Ok       |

M : Manual Integration

Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL**

Review By

yogesh

Review On

9/29/2025 10:09:20 AM

Supervise By

mohammad

Supervise On

10/1/2025 1:40:41 AM

SubDirectory

FE092925AL

HP Acquire Method

HP Processing Method

FE092425AL

| STD.NAME                                | STD REF.#                               |
|-----------------------------------------|-----------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds | PP24768,PP24770,PP24771,PP24772,PP24773 |
| CCC                                     | PP24771                                 |
| Internal Standard/PEM                   |                                         |
| ICV/I.BLK                               | PP24769,PP24774                         |
| Surrogate Standard                      |                                         |
| MS/MSD Standard                         |                                         |
| LCS Standard                            |                                         |

| Sr# | SampleId            | ClientID            | Data File Name | Date-Time         | Comment           | Operator | Status   |
|-----|---------------------|---------------------|----------------|-------------------|-------------------|----------|----------|
| 1   | MECL2               | MECL2               | FE056033.D     | 29 Sep 2025 08:16 |                   | YP\AJ    | Ok       |
| 2   | I.BLK               | I.BLK               | FE056034.D     | 29 Sep 2025 08:47 |                   | YP\AJ    | Ok       |
| 3   | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056035.D     | 29 Sep 2025 09:17 |                   | YP\AJ    | Ok,M     |
| 4   | Q3209-01            | PL-02-092525        | FE056036.D     | 29 Sep 2025 09:47 | need 10x dilution | YP\AJ    | Dilution |
| 5   | Q3209-02            | PL-02-092525-E2     | FE056037.D     | 29 Sep 2025 10:18 | need 5x dilution  | YP\AJ    | Dilution |
| 6   | Q3212-01            | EO-03-092525        | FE056038.D     | 29 Sep 2025 10:48 | need 10x dilution | YP\AJ    | Dilution |
| 7   | Q3212-02            | EO-03-092525-E2     | FE056039.D     | 29 Sep 2025 11:18 | need 10x dilution | YP\AJ    | Dilution |
| 8   | Q3209-01DL          | PL-02-092525DL      | FE056040.D     | 29 Sep 2025 11:49 |                   | YP\AJ    | Ok       |
| 9   | Q3209-02DL          | PL-02-092525-E2DL   | FE056041.D     | 29 Sep 2025 12:19 |                   | YP\AJ    | Ok       |
| 10  | Q3212-01DL          | EO-03-092525DL      | FE056042.D     | 29 Sep 2025 12:49 |                   | YP\AJ    | Ok,M     |
| 11  | Q3212-02DL          | EO-03-092525-E2DL   | FE056043.D     | 29 Sep 2025 13:20 |                   | YP\AJ    | Ok       |
| 12  | I.BLK               | I.BLK               | FE056044.D     | 29 Sep 2025 14:21 |                   | YP\AJ    | Ok       |
| 13  | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056045.D     | 29 Sep 2025 14:51 |                   | YP\AJ    | Ok,M     |
| 14  | Q3200-01            | ETGI-367            | FE056046.D     | 29 Sep 2025 15:22 |                   | YP\AJ    | Ok       |
| 15  | Q3200-02            | ETGI-367            | FE056047.D     | 29 Sep 2025 15:52 |                   | YP\AJ    | Ok       |
| 16  | Q3206-01            | TR-06-092525        | FE056048.D     | 29 Sep 2025 16:23 |                   | YP\AJ    | Ok,M     |
| 17  | Q3206-02            | TR-06-092525-E2     | FE056049.D     | 29 Sep 2025 16:53 | Need 5X           | YP\AJ    | Dilution |
| 18  | Q3208-03            | SU-ESM-01           | FE056050.D     | 29 Sep 2025 17:23 | Need 5X           | YP\AJ    | Dilution |

Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL**

| Review By                                                          | yogesh                                  | Review On         | 9/29/2025 10:09:20 AM |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|-----------------------|
| Supervise By                                                       | mohammad                                | Supervise On      | 10/1/2025 1:40:41 AM  |
| SubDirectory                                                       | FE092925AL                              | HP Acquire Method | HP Processing Method  |
|                                                                    |                                         |                   | FE092425AL            |
| STD.NAME                                                           | STD REF.#                               |                   |                       |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24768,PP24770,PP24771,PP24772,PP24773 |                   |                       |
| CCC<br>Internal Standard/PEM                                       | PP24771                                 |                   |                       |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24769,PP24774                         |                   |                       |

|    |                     |                     |            |                   |                       |       |          |
|----|---------------------|---------------------|------------|-------------------|-----------------------|-------|----------|
| 19 | Q3208-04            | SU-ESM-02           | FE056051.D | 29 Sep 2025 17:54 | Need 5X               | YPIAJ | Dilution |
| 20 | Q3177-01            | Q3177-01            | FE056052.D | 29 Sep 2025 18:25 | Possible carryover    | YPIAJ | Not Ok   |
| 21 | Q3177-02            | Q3177-02            | FE056053.D | 29 Sep 2025 18:55 | Possible carryover    | YPIAJ | Not Ok   |
| 22 | Q3177-03            | Q3177-03            | FE056054.D | 29 Sep 2025 19:26 | Possible carryover    | YPIAJ | Not Ok   |
| 23 | Q3179-01            | EME-TS14-01         | FE056055.D | 29 Sep 2025 19:56 |                       | YPIAJ | Ok       |
| 24 | Q3179-02MS          | EME-TS14-01MS       | FE056056.D | 29 Sep 2025 20:27 | FE056055.D            | YPIAJ | Ok       |
| 25 | Q3179-03MSD         | EME-TS14-01MSD      | FE056057.D | 29 Sep 2025 20:57 | FE056055.D!FE056056.D | YPIAJ | Ok       |
| 26 | I.BLK               | I.BLK               | FE056058.D | 29 Sep 2025 21:58 |                       | YPIAJ | Ok       |
| 27 | 20 PPM ALIPHATIC HC | 20 PPM ALIPHATIC HC | FE056059.D | 29 Sep 2025 22:59 |                       | YPIAJ | Ok,M     |
| 28 | Q3220-01            | OR-03-092625        | FE056060.D | 29 Sep 2025 23:30 |                       | YPIAJ | Ok       |
| 29 | Q3220-02            | OR-03-092625-E2     | FE056061.D | 30 Sep 2025 00:01 |                       | YPIAJ | Ok       |
| 30 | Q3221-01            | HD-01-092625        | FE056062.D | 30 Sep 2025 00:31 | Need 5X               | YPIAJ | Dilution |
| 31 | Q3221-02            | HD-01-092625-E2     | FE056063.D | 30 Sep 2025 01:02 | Need 5X               | YPIAJ | Dilution |
| 32 | Q3222-01            | SU-03-092625        | FE056064.D | 30 Sep 2025 01:32 | Need 5X               | YPIAJ | Dilution |
| 33 | Q3222-02            | SU-03-092625-E2     | FE056065.D | 30 Sep 2025 02:02 | Need 5X               | YPIAJ | Dilution |
| 34 | Q3231-01            | WC-1                | FE056066.D | 30 Sep 2025 02:33 | Need 2X               | YPIAJ | Dilution |
| 35 | Q3231-02            | WC-1-EPH            | FE056067.D | 30 Sep 2025 03:03 |                       | YPIAJ | Ok       |

Instrument ID: FID\_E

**Daily Analysis Runlog For Sequence/QC Batch ID # FE092925AL**

| Review By                                                          | yogesh                                  | Review On         | 9/29/2025 10:09:20 AM |            |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|-----------------------|------------|
| Supervise By                                                       | mohammad                                | Supervise On      | 10/1/2025 1:40:41 AM  |            |
| SubDirectory                                                       | FE092925AL                              | HP Acquire Method | HP Processing Method  | FE092425AL |
| STD.NAME                                                           | STD REF.#                               |                   |                       |            |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24768,PP24770,PP24771,PP24772,PP24773 |                   |                       |            |
| CCC<br>Internal Standard/PEM                                       | PP24771                                 |                   |                       |            |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24769,PP24774                         |                   |                       |            |

|    |                        |                        |            |                   |         |      |          |
|----|------------------------|------------------------|------------|-------------------|---------|------|----------|
| 36 | Q3231-06               | WC-2-EPH               | FE056068.D | 30 Sep 2025 03:33 |         | YPAJ | Ok,M     |
| 37 | Q3231-09               | WC-3                   | FE056069.D | 30 Sep 2025 04:04 | Need 2X | YPAJ | Dilution |
| 38 | Q3231-10               | WC-3-EPH               | FE056070.D | 30 Sep 2025 04:34 | Need 2X | YPAJ | Dilution |
| 39 | Q3231-13               | WC-4                   | FE056071.D | 30 Sep 2025 05:05 |         | YPAJ | Ok,M     |
| 40 | Q3231-14               | WC-4-EPH               | FE056072.D | 30 Sep 2025 05:35 |         | YPAJ | Ok,M     |
| 41 | PB169879BL             | PB169879BL             | FE056073.D | 30 Sep 2025 06:05 |         | YPAJ | Ok,M     |
| 42 | PB169879BS             | PB169879BS             | FE056074.D | 30 Sep 2025 06:36 |         | YPAJ | Ok,M     |
| 43 | PB169879TB             | PB169879BSTB           | FE056075.D | 30 Sep 2025 07:06 |         | YPAJ | Ok       |
| 44 | I.BLK                  | I.BLK                  | FE056076.D | 30 Sep 2025 07:36 |         | YPAJ | Ok       |
| 45 | 20 PPM ALIPHATIC<br>HC | 20 PPM ALIPHATIC<br>HC | FE056077.D | 30 Sep 2025 08:07 |         | YPAJ | Ok,M     |

M : Manual Integration

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF092425AR**

|                                         |                                         |                   |                                 |
|-----------------------------------------|-----------------------------------------|-------------------|---------------------------------|
| Review By                               | yogesh                                  | Review On         | 9/24/2025 12:57:21 PM           |
| Supervise By                            | mohammad                                | Supervise On      | 9/26/2025 4:25:38 AM            |
| SubDirectory                            | FF092425AR                              | HP Acquire Method | HP Processing Method FF092425AR |
| <b>STD.NAME</b>                         | <b>STD REF.#</b>                        |                   |                                 |
| Tune/Reschk<br>Initial Calibration Stds | PP24500,PP24502,PP24503,PP24504,PP24505 |                   |                                 |
| CCC                                     | PP24503                                 |                   |                                 |
| Internal Standard/PEM                   |                                         |                   |                                 |
| ICV/I.BLK                               | PP24501,PP24506                         |                   |                                 |
| Surrogate Standard                      |                                         |                   |                                 |
| MS/MSD Standard                         |                                         |                   |                                 |
| LCS Standard                            |                                         |                   |                                 |

| Sr# | SampleID           | ClientID           | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|--------------------|--------------------|----------------|-------------------|---------|----------|--------|
| 1   | MECL2              | MECL2              | FF016429.D     | 24 Sep 2025 13:00 |         | YPIAJ    | Ok     |
| 2   | I.BLK              | I.BLK              | FF016430.D     | 24 Sep 2025 13:30 |         | YPIAJ    | Ok     |
| 3   | 100 PPM AROMATIC H | 100 PPM AROMATIC H | FF016431.D     | 24 Sep 2025 13:59 |         | YPIAJ    | Ok     |
| 4   | 50 PPM AROMATIC HC | 50 PPM AROMATIC HC | FF016432.D     | 24 Sep 2025 14:29 |         | YPIAJ    | Ok     |
| 5   | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF016433.D     | 24 Sep 2025 14:59 |         | YPIAJ    | Ok     |
| 6   | 10 PPM AROMATIC HC | 10 PPM AROMATIC HC | FF016434.D     | 24 Sep 2025 15:28 |         | YPIAJ    | Ok     |
| 7   | 5 PPM AROMATIC HC  | 5 PPM AROMATIC HC  | FF016435.D     | 24 Sep 2025 15:58 |         | YPIAJ    | Ok     |
| 8   | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF016436.D     | 24 Sep 2025 16:28 |         | YPIAJ    | Ok     |
| 9   | I.BLK              | I.BLK              | FF016437.D     | 24 Sep 2025 17:27 |         | YPIAJ    | Ok     |
| 10  | 20 PPM AROMATIC HC | 20 PPM AROMATIC HC | FF016438.D     | 24 Sep 2025 17:57 |         | YPIAJ    | Ok     |

M : Manual Integration

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF092925AR**

|              |            |                   |                      |
|--------------|------------|-------------------|----------------------|
| Review By    | yogesh     | Review On         | 9/29/2025 3:49:57 PM |
| Supervise By | mohammad   | Supervise On      | 10/1/2025 1:40:54 AM |
| SubDirectory | FF092925AR | HP Acquire Method | HP Processing Method |
|              |            |                   | FF092425AR           |

| STD.NAME                                                           | STD REF.#                               |
|--------------------------------------------------------------------|-----------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                            | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC<br>Internal Standard/PEM                                       | PP24503                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24501,PP24506                         |

| Sr# | SampleID           | ClientID          | Data File Name | Date-Time         | Comment        | Operator | Status |
|-----|--------------------|-------------------|----------------|-------------------|----------------|----------|--------|
| 1   | MECL2              | MECL2             | FF016467.D     | 29 Sep 2025 08:51 |                | YP\AJ    | Ok     |
| 2   | I.BLK              | I.BLK             | FF016468.D     | 29 Sep 2025 12:09 |                | YP\AJ    | Ok     |
| 3   | 20 PPM AROMATIC HC | 20 PPM AROMATIC H | FF016469.D     | 29 Sep 2025 14:07 |                | YP\AJ    | Ok     |
| 4   | PB169879BL         | PB169879BL        | FF016470.D     | 29 Sep 2025 16:35 |                | YP\AJ    | Ok     |
| 5   | PB169879BS         | PB169879BS        | FF016471.D     | 29 Sep 2025 17:05 |                | YP\AJ    | Ok     |
| 6   | PB169879TB         | PB169879BSTB      | FF016472.D     | 29 Sep 2025 17:35 |                | YP\AJ    | Ok     |
| 7   | Q3177-01           | EME-TS12-01       | FF016473.D     | 29 Sep 2025 18:04 | Surrogate Fail | YP\AJ    | ReRun  |
| 8   | Q3177-02           | EME-TS13-01       | FF016474.D     | 29 Sep 2025 18:34 |                | YP\AJ    | Ok     |
| 99  | Q3177-03           | EME-TS14-02       | FF016475.D     | 29 Sep 2025 19:04 |                | YP\AJ    | Ok     |
| 10  | Q3179-01           | EME-TS14-01       | FF016476.D     | 29 Sep 2025 19:33 |                | YP\AJ    | Ok     |
| 11  | Q3179-02MS         | EME-TS14-01MS     | FF016477.D     | 29 Sep 2025 20:03 | FF016476.D     | YP\AJ    | Ok     |

Instrument ID: FID\_F

**Daily Analysis Runlog For Sequence/QC Batch ID # FF092925AR**

|              |            |                   |                      |            |  |
|--------------|------------|-------------------|----------------------|------------|--|
| Review By    | yogesh     | Review On         | 9/29/2025 3:49:57 PM |            |  |
| Supervise By | mohammad   | Supervise On      | 10/1/2025 1:40:54 AM |            |  |
| SubDirectory | FF092925AR | HP Acquire Method | HP Processing Method | FF092425AR |  |

| STD.NAME                                                           | STD REF.#                               |
|--------------------------------------------------------------------|-----------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                            | PP24500,PP24502,PP24503,PP24504,PP24505 |
| CCC<br>Internal Standard/PEM                                       | PP24503                                 |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24501,PP24506                         |

|    |                       |                   |             |                   |                       |      |    |
|----|-----------------------|-------------------|-------------|-------------------|-----------------------|------|----|
| 12 | Q3179-03MSD           | EME-TS14-01MSD    | FF016478.D  | 29 Sep 2025 20:33 | FF016476.D\FF016477.D | YPAJ | Ok |
| 13 | I.BLK                 | I.BLK             | FF016479.D  | 29 Sep 2025 21:03 |                       | YPAJ | Ok |
| 14 | 20 PPM AROMATIC<br>HC | 20 PPM AROMATIC H | CFF016480.D | 29 Sep 2025 22:02 |                       | YPAJ | Ok |

M : Manual Integration

SOP ID : M1312-SPLP-10  
SDG No : N/A  
Weigh By : JP  
Balance ID : WC SC-7  
pH Meter ID : WC PH METER-1  
Extraction By : JP  
Filter By : JP  
Pipette ID : WC  
Tumbler ID : T-2  
TCLP Filter ID : 40819719

Start Prep Date : 09/24/2025 Time : 14:30  
End Prep Date : 09/25/2025 Time : 08:10  
Combination Ratio : 20  
ZHE Cleaning Batch : N/A 71  
Initial Room Temperature : 24 °C  
Final Room Temperature : 22 °C  
TCLP Technician Signature : *JS*  
Supervisor By : *12*

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| 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                 |

| Chemical Used        | ML/SAMPLE U       | Lot Number              |
|----------------------|-------------------|-------------------------|
| SPLP FLUID           | WP114530          | N/A                     |
| N/A                  | N/A               | N/A                     |
| HNO3-TCLP,1N         | N/A               | WP114528                |
| pH Strips            | N/A               | W1931,W1934,W3171,W3172 |
| pH Strips            | W1940,W1941,W1942 | W3166,W1938,W1939,      |
| 1 Liter Amber        | N/A               | 90924-08                |
| 120ml Plastic bottle | N/A               | 2738                    |
| 1:1 HNO3             | N/A               | MP86978                 |

**Extraction Conformance/Non-Conformance Comments:**

TUMBLER T-2 checked,30 rpm. Matrix spikes are added after filtration and before preservation.

| Date / Time    | Prepped Sample Relinquished By/Location | Received By/Location |
|----------------|-----------------------------------------|----------------------|
| 09/25/25 10:00 | <i>JS</i> / TCY 120 cm                  | <i>SKJ.</i> RJ 1E-X1 |
|                | Preparation Group                       | Analysis Group       |

*met nity*



## SPLP EXTRACTION LOGPAGE

PB169818

| Sample ID  | ClientID       | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prep Pos |
|------------|----------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| PB169818TB | LEB818         | 15             | N/A           | 2000                            | N/A          | N/A            | N/A             | 4.24              | 1.5                     | T-2      |
| Q3177-01   | EME-TS12-01    | 11             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.0                     | T-2      |
| Q3177-02   | EME-TS13-01    | 12             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.5                     | T-2      |
| Q3177-03   | EME-TS14-02    | 13             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.5                     | T-2      |
| Q3179-01   | EME-TS14-01    | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.0                     | T-2      |
| Q3179-02   | EME-TS14-01MS  | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.5                     | T-2      |
| Q3179-03   | EME-TS14-01MSD | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.0                     | T-2      |

| SampleID   | ClientID       | Sample Weight (g) | Filter Weight (g) | Filtrate (mL) | Filter + Solid (After 100°C) | % solids | % Dry Solids |
|------------|----------------|-------------------|-------------------|---------------|------------------------------|----------|--------------|
| PB169818TB | LEB818         | N/A               | N/A               | N/A           | N/A                          | N/A      | N/A          |
| Q3177-01   | EME-TS12-01    | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q3177-02   | EME-TS13-01    | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q3177-03   | EME-TS14-02    | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q3179-01   | EME-TS14-01    | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q3179-02   | EME-TS14-01MS  | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |
| Q3179-03   | EME-TS14-01MSD | N/A               | N/A               | N/A           | N/A                          | 100      | N/A          |

**Hot Block ID :** WC S-1 / WC S-2

**Thermometer ID :** FLASHPOINT

| SampleID   | ClientID       | Sample Weight (g) | Volume DI Water (mL) | PH after 5 min stir | PH after 10 min stir | Extraction Fluid 1 or 2 | pH Extraction Fluid |
|------------|----------------|-------------------|----------------------|---------------------|----------------------|-------------------------|---------------------|
| PB169818TB | LEB818         | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q3177-01   | EME-TS12-01    | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q3177-02   | EME-TS13-01    | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q3177-03   | EME-TS14-02    | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q3179-01   | EME-TS14-01    | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q3179-02   | EME-TS14-01MS  | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |
| Q3179-03   | EME-TS14-01MSD | N/A               | N/A                  | N/A                 | N/A                  | #1                      | 4.24                |

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp q3177      WorkList ID : 192051      Department : TCLP Extraction      Date : 09-24-2025 13:40:41

| Sample   | Customer Sample | Matrix | Test            | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|----------|-----------------|--------|-----------------|--------------|----------|-----------------------------|--------------|--------|
| Q3177-01 | EME-TS12-01     | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | J23                         | 09/23/2025   | 1312   |
| Q3177-02 | EME-TS13-01     | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | J23                         | 09/23/2025   | 1312   |
| Q3177-03 | EME-TS14-02     | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | J23                         | 09/23/2025   | 1312   |
| Q3179-01 | EME-TS14-01     | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | J42                         | 09/23/2025   | 1312   |
| Q3179-02 | EME-TS14-01MS   | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | J42                         | 09/23/2025   | 1312   |
| Q3179-03 | EME-TS14-01MSD  | Solid  | SPLP Extraction | Cool 4 deg C | ROYF02   | J42                         | 09/23/2025   | 1312   |

Date/Time 09/24/25 13:45  
Raw Sample Received by: JB WRC  
Raw Sample Relinquished by: JTCM

Date/Time 09/24/25 16:00  
Raw Sample Received by: JTCM  
Raw Sample Relinquished by: JB WRC

SOP ID: MNJDEP-EPH-8

Clean Up SOP #: N/A

Extraction Start Date : 09/29/2025

Matrix : Water

Extraction Start Time : 08:30

Weigh By: N/A

Extraction By: RJ

Extraction End Date : 09/29/2025

Balance check: N/A

Filter By: RJ

Extraction End Time : 14:45

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3953

Hood ID: 3,7

Supervisor By : ritesh

Extraction Method: ☒ Separatory Funnel

☐ Continous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

| Standard Name           | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|-------------------------|----------|---------------------|---------------------|
| Spike Sol 1             | 1.0ML    | 100 PPM             | PP24918             |
| Surrogate               | 1.0ML    | 100 PPM             | PP24941             |
| Fractionation Surrogate | 1.0ML    | 100 PPM             | PP24915             |
| N/A                     | N/A      | N/A                 | N/A                 |
| N/A                     | N/A      | N/A                 | N/A                 |

| Chemical Used      | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| Methylene Chloride | N/A            | E3973      |
| Baked Na2SO4       | N/A            | EP2646     |
| Hexane             | N/A            | E3974      |
| 6N HCL             | N/A            | EP2635     |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

## Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210443.

KD Bath ID: WATER BATH-1,2

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

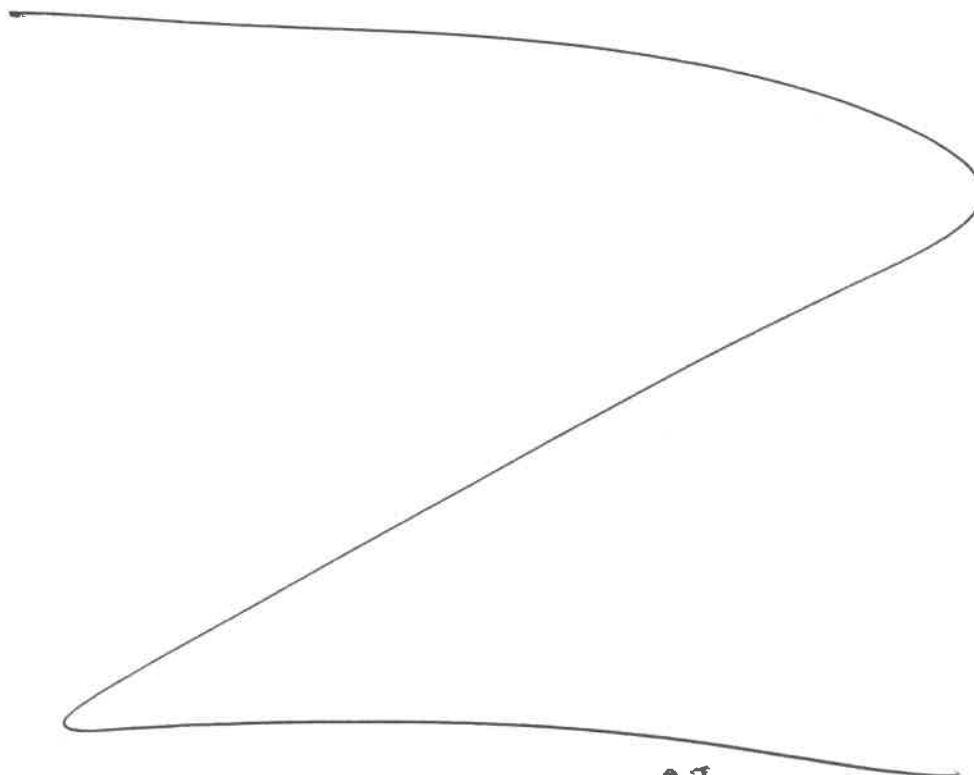
Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 9/29/25     | RJ C (Cell-1 lab)                       | Y-P-pestipus         |
| 14:50       | Preparation Group                       | Analysis Group       |

Analytical Method: MNJDEP-EPH-8

Concentration Date: 09/29/2025

| Sample ID  | Client Sample ID | Test | g / (mL) | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|------------|------------------|------|----------|----|----------------|------------|--------------------|-------|----------|-------------|
|            |                  |      |          |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB169879BL | PB169879BL       | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  |       |          | SEP-1       |
| PB169879BS | PB169879BS       | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  |       |          | 2           |
| PB169879TB | PB169879TB       | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  |       |          | 3           |
| Q3177-01   | EME-TS12-01      | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  | A     |          | 4           |
| Q3177-02   | EME-TS13-01      | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  | A     |          | 5           |
| Q3177-03   | EME-TS14-02      | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  | A     |          | 6           |
| Q3179-01   | EME-TS14-01      | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  | A     |          | 7           |
| Q3179-02   | EME-TS14-01MS    | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  | A     |          | 8           |
| Q3179-03   | EME-TS14-01MSD   | EPH  | 1000     | <2 | ritesh         | Evelyn     | 2                  | A     |          | 9           |



RJ  
9/29

| Sample ID  | ClientID       | TCLP Vessel ID | Sample Wt (g) | Volume Extraction Fluid #1 (mL) | Multi phasic | Phase Miscible | Phases Combined | Final Leachate PH | Metals Leachate Adj. PH | Prep Pos |
|------------|----------------|----------------|---------------|---------------------------------|--------------|----------------|-----------------|-------------------|-------------------------|----------|
| PB169818TB | LEB818         | 15             | N/A           | 2000                            | N/A          | N/A            | N/A             | 4.24              | 1.5                     | T-2      |
| Q3177-01   | EME-TS12-01    | 11             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.0                     | T-2      |
| Q3177-02   | EME-TS13-01    | 12             | 100.03        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.5                     | T-2      |
| Q3177-03   | EME-TS14-02    | 13             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.2               | 1.5                     | T-2      |
| Q3179-01   | EME-TS14-01    | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.0                     | T-2      |
| Q3179-02   | EME-TS14-01MS  | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.5                     | T-2      |
| Q3179-03   | EME-TS14-01MSD | 14             | 100.02        | 2000                            | N/A          | N/A            | N/A             | 7.6               | 1.0                     | T-2      |

6/9/25/25  
10:00

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3179

**Test :** EPH

**Prepbatch ID :** PB169879,

**Sequence ID/Qc Batch ID:** FE092925AL,FF092925AR,

**Standard ID :**

EP2635,EP2646,PP24500,PP24501,PP24502,PP24503,PP24504,PP24505,PP24506,PP24768,PP24769,PP24770,PP  
24771,PP24772,PP24773,PP24774,PP24915,PP24918,PP24941,

**Chemical ID :**

E3875,E3926,E3956,E3966,E3972,E3973,E3974,M6151,P10758,P11140,P12364,P13280,P13281,P13620,P13673,P13  
674,P13690,P13954,P13955,P14029,P14030,P14031,P14032,P14058,P14059,P14060,P14061,P14074,P14075,P1407  
6,P14077,P14078,P14079,P14080,P14081,P14082,P14083,P14094,P14095,P14096,P14097,P14098,P14099,P14100,  
P14101,P14102,P14103,P14147,P14148,P14149,P14150,W3112,W3234,



## Extractions STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------|-------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|---------------------------------|
| 3319             | 6N HCL      | <a href="#">EP2635</a> | 08/19/2025       | 02/17/2026             | RUPESHKUMAR SHAH   | None           | None             | Riteshkumar Patel<br>08/19/2025 |

**FROM** 219.00000ml of M6151 + 781.00000ml of W3112 = Final Quantity: 1000.000 ml

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>            |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|---------------------------------|
| 3923             | Baked Sodium Sulfate | <a href="#">EP2646</a> | 09/26/2025       | 01/28/2026             | Evelyn Huang       | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>09/26/2025 |

**FROM** 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                     | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 782              | 100 PPM Aromatic HC Working STD | <a href="#">PP24500</a> | 05/01/2025       | 10/08/2025             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                                 |                         |                  |                        |                    |                |                  | 05/08/2025           |

**FROM** 0.25000ml of P13673 + 0.62500ml of P13954 + 1.25000ml of P10758 + 22.87500ml of E3926 = Final Quantity: 25.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|--------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 2945             | 100 PPM Aromatic HC Working STD (Absolute) | <a href="#">PP24501</a> | 05/01/2025       | 10/08/2025             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                                            |                         |                  |                        |                    |                |                  | 05/08/2025           |

**FROM** 0.25000ml of P13674 + 0.62500ml of P13955 + 1.25000ml of P11140 + 22.87500ml of E3926 = Final Quantity: 25.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 787              | 50 PPM Aromatic HC STD | <a href="#">PP24502</a> | 05/01/2025       | 10/08/2025             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                        |                         |                  |                        |                    |                |                  | 05/08/2025           |

**FROM** 0.50000ml of E3926 + 0.50000ml of PP24500 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 788              | 20 PPM Aromatic HC STD | <a href="#">PP24503</a> | 05/01/2025       | 10/08/2025             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                        |                         |                  |                        |                    |                |                  | 05/08/2025           |

**FROM** 0.80000ml of E3926 + 0.20000ml of PP24500 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 789              | 10 PPM Aromatic HC STD | <a href="#">PP24504</a> | 05/01/2025       | 10/08/2025             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                        |                         |                  |                        |                    |                |                  | 05/08/2025           |

**FROM** 0.90000ml of E3926 + 0.10000ml of PP24500 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 790              | 5 PPM Aromatic HC STD | <a href="#">PP24505</a> | 05/01/2025       | 10/08/2025             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                       |                         |                  |                        |                    |                |                  | 05/08/2025           |

**FROM** 0.90000ml of E3926 + 0.10000ml of PP24502 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                           | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 2946             | 20 PPM Aromatic HC STD ICV (Absolute) | <a href="#">PP24506</a> | 05/01/2025       | 10/08/2025             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                                       |                         |                  |                        |                    |                |                  | 05/08/2025           |

**FROM** 0.80000ml of E3926 + 0.20000ml of PP24501 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                               | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 781              | 100 PPM Aliphatic HC Working STD (Restek) | <a href="#">PP24768</a> | 08/01/2025       | 02/01/2026             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                                           |                         |                  |                        |                    |                |                  | 08/19/2025           |

**FROM** 0.25000ml of P13620 + 0.25000ml of P13690 + 1.25000ml of P12364 + 23.25000ml of E3956 = Final Quantity: 25.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                         | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 2900             | 100 PPM Aliphatic HC STD (Absolute) | <a href="#">PP24769</a> | 08/01/2025       | 02/01/2026             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                                     |                         |                  |                        |                    |                |                  | 08/19/2025           |

**FROM** 0.22000ml of P13690 + 0.25000ml of P13620 + 1.25000ml of P13280 + 1.25000ml of P13281 + 22.00000ml of E3956 = Final Quantity: 25.000 ml

| <u>Recipe ID</u> | <u>NAME</u>             | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 783              | 50 PPM Aliphatic HC STD | <a href="#">PP24770</a> | 08/01/2025       | 02/01/2026             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                         |                         |                  |                        |                    |                |                  | 08/19/2025           |

**FROM** 0.50000ml of W3234 + 0.50000ml of PP24768 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>             | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 784              | 20 PPM Aliphatic HC STD | <a href="#">PP24771</a> | 08/01/2025       | 02/01/2026             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                         |                         |                  |                        |                    |                |                  | 08/19/2025           |

**FROM** 0.80000ml of W3234 + 0.20000ml of PP24768 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>             | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 785              | 10 PPM Aliphatic HC STD | <a href="#">PP24772</a> | 08/01/2025       | 02/01/2026             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                         |                         |                  |                        |                    |                |                  | 08/19/2025           |

**FROM** 0.90000ml of W3234 + 0.10000ml of PP24768 = Final Quantity: 1.000 ml

## Pest/Pcb STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>            | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 786              | 5 PPM Aliphatic HC STD | <a href="#">PP24773</a> | 08/01/2025       | 02/01/2026             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                        |                         |                  |                        |                    |                |                  | 08/19/2025           |

**FROM** 0.90000ml of W3234 + 0.10000ml of PP24770 = Final Quantity: 1.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                            | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 2901             | 20 PPM Aliphatic HC STD ICV (Absolute) | <a href="#">PP24774</a> | 08/01/2025       | 02/01/2026             | Yogesh Patel       | None           | None             | Abdul Mirza          |
|                  |                                        |                         |                  |                        |                    |                |                  | 08/19/2025           |

**FROM** 0.80000ml of W3234 + 0.20000ml of PP24769 = Final Quantity: 1.000 ml





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



| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                                                                                                          | <u>NO.</u>              | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 1339             | 100 PPM NJEPH Surrogate Spike                                                                                                                                                                                                        | <a href="#">PP24941</a> | 09/24/2025       | 03/24/2026             | Abdul Mirza        | None           | None             | Yogesh Patel<br>10/03/2025 |
| <u>FROM</u>      | 1.25000ml of P14029 + 1.25000ml of P14030 + 1.25000ml of P14031 + 1.25000ml of P14032 + 1.25000ml of P14147 +<br>1.25000ml of P14148 + 1.25000ml of P14149 + 1.25000ml of P14150 + 490.00000ml of E3972 = 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 # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 417203 | 01/28/2026      | 07/28/2025 / RUPESH     | 01/29/2025 / Rajesh         | E3875          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25A0262002 | 10/08/2025      | 04/08/2025 / Rajesh     | 02/07/2025 / Rajesh         | E3926          |

| 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) | 25C0362005 | 04/30/2026      | 07/16/2025 / RUPESH     | 07/16/2025 / RUPESH         | E3956          |

| 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) | 25C0362005 | 04/30/2026      | 08/22/2025 / RUPESH     | 08/20/2025 / RUPESH         | E3966          |

| 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) | 24H1462005 | 05/24/2027      | 09/16/2025 / Evelyn     | 09/04/2025 / Riteshkumar    | E3972          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By  | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|--------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25C1262005 | 04/16/2026      | 09/15/2025 / Riteshkumar | 09/15/2025 / Riteshkumar    | E3973          |

## CHEMICAL RECEIPT LOG BOOK

| 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) | 25C0362006 | 04/10/2027      | 09/26/2025 / Riteshkumar | 09/26/2025 / Riteshkumar    | E3974          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 22G2862015 | 02/17/2026      | 02/18/2025 / Sagar      | 01/15/2025 / Sagar          | M6151          |

| Supplier | ItemCode / ItemName                                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-----------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30541 / Custom NJEPH Aromatics Calibration Standard | A0172403 | 11/01/2025      | 05/01/2025 / yogesh     | 06/17/2021 / dhaval         | P10758         |

| Supplier                 | ItemCode / ItemName                            | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95709 / NJ EPH Aromatic Hydrocarbons, 2000 PPM | 060420 | 11/01/2025      | 05/01/2025 / yogesh     | 10/29/2021 / Abdul          | P11140         |

| Supplier | ItemCode / ItemName                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30540 / Custom NJEPH Aliphatics Calibration Standard | A0190424 | 02/01/2026      | 08/01/2025 / yogesh     | 03/16/2023 / Yogesh         | P12364         |

| Supplier                 | ItemCode / ItemName                                       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM | 040524 | 02/01/2026      | 08/01/2025 / yogesh     | 04/11/2024 / yogesh         | P13280         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                 | ItemCode / ItemName                                       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------|-----------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| Absolute Standards, Inc. | 95899 / NJ EPH Aliphatic n-Hydrocarbons-Revised, 1000 PPM | 040524 | 02/01/2026      | 08/01/2025 / yogesh     | 04/11/2024 / yogesh         | P13281         |

| Supplier | ItemCode / ItemName                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31098 / 1-Chlorooctadecane Standard | A0213283 | 02/01/2026      | 08/01/2025 / yogesh     | 10/16/2024 / yogesh         | P13620         |

| Supplier | ItemCode / ItemName          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31097 / o-Terphenyl Standard | A0216631 | 11/01/2025      | 05/01/2025 / yogesh     | 10/16/2024 / yogesh         | P13673         |

| Supplier | ItemCode / ItemName          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31097 / o-Terphenyl Standard | A0216631 | 11/01/2025      | 05/01/2025 / yogesh     | 10/16/2024 / yogesh         | P13674         |

| Supplier | ItemCode / ItemName          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31097 / o-Terphenyl Standard | A0216631 | 02/01/2026      | 08/01/2025 / yogesh     | 10/16/2024 / yogesh         | P13690         |

| Supplier | ItemCode / ItemName                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31480 / MA Fractionation Surrogate Spike Mix | A0219106 | 11/01/2025      | 05/01/2025 / yogesh     | 03/10/2025 / yogesh         | P13954         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31480 / MA Fractionation Surrogate Spike Mix | A0221895 | 11/01/2025      | 05/01/2025 / yogesh     | 03/10/2025 / yogesh         | P13955         |

| Supplier | ItemCode / ItemName                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31098 / 1-Chlorooctadecane Standard | A0225485 | 03/24/2026      | 09/24/2025 / Abdul      | 06/02/2025 / Rahul          | P14029         |

| Supplier | ItemCode / ItemName                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31098 / 1-Chlorooctadecane Standard | A0225485 | 03/24/2026      | 09/24/2025 / Abdul      | 06/02/2025 / Rahul          | P14030         |

| Supplier | ItemCode / ItemName                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31098 / 1-Chlorooctadecane Standard | A0225485 | 03/24/2026      | 09/24/2025 / Abdul      | 06/02/2025 / Rahul          | P14031         |

| Supplier | ItemCode / ItemName                 | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31098 / 1-Chlorooctadecane Standard | A0225485 | 03/24/2026      | 09/24/2025 / Abdul      | 06/02/2025 / Rahul          | P14032         |

| Supplier | ItemCode / ItemName                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31480 / MA Fractionation Surrogate Spike Mix | A0224278 | 02/28/2026      | 08/28/2025 / Abdul      | 06/09/2025 / anahy          | P14058         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31480 / MA Fractionation Surrogate Spike Mix | A0221895 | 02/28/2026      | 08/28/2025 / Abdul      | 06/09/2025 / anahy          | P14059         |

| Supplier | ItemCode / ItemName                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31480 / MA Fractionation Surrogate Spike Mix | A0221895 | 02/28/2026      | 08/28/2025 / Abdul      | 06/09/2025 / anahy          | P14060         |

| Supplier | ItemCode / ItemName                          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31480 / MA Fractionation Surrogate Spike Mix | A0221895 | 02/28/2026      | 08/28/2025 / Abdul      | 06/09/2025 / anahy          | P14061         |

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14074         |

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14075         |

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14076         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14077         |

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14078         |

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14079         |

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14080         |

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14081         |

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14082         |



## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30543 / Custom NJEPH Aromatics Matrix Spike Mix | A0225381 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14083         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14094         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14095         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14096         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14097         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14098         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14099         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14100         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14101         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14102         |

| Supplier | ItemCode / ItemName                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 30542 / Custom NJEPH Aliphatics Matrix Spike Mix | A0226411 | 03/02/2026      | 09/02/2025 / Abdul      | 07/16/2025 / anahy          | P14103         |

| Supplier | ItemCode / ItemName          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31097 / o-Terphenyl Standard | A0216631 | 03/24/2026      | 09/24/2025 / Abdul      | 09/24/2025 / Abdul          | P14147         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31097 / o-Terphenyl Standard | A0216631 | 03/24/2026      | 09/24/2025 / Abdul      | 09/24/2025 / Abdul          | P14148         |

| Supplier | ItemCode / ItemName          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31097 / o-Terphenyl Standard | A0216631 | 03/24/2026      | 09/24/2025 / Abdul      | 09/24/2025 / Abdul          | P14149         |

| Supplier | ItemCode / ItemName          | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31097 / o-Terphenyl Standard | A0216631 | 03/24/2026      | 09/24/2025 / Abdul      | 09/24/2025 / Abdul          | P14150         |

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 / lwona      | 07/03/2024 / lwona          | W3112          |

| 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) | 25C0362005 | 04/30/2026      | 07/28/2025 / jignesh    | 07/25/2025 / jignesh        | W3234          |



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## 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.*

DD  
06/17/2021

**Catalog No. :** 30541 **Lot No.:** A0172403

**Description :** NJEPH Aromatics Calibration Standard

NJEPH Aromatics Calibration Standard 2,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2027 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P10758  
TO  
P10762  
- (S)

### CERTIFIED VALUES

| Elution Order | Compound                                                                | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                         |
|---------------|-------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------|
| 1             | 1,2,3-Trimethylbenzene<br>CAS # 526-73-8 (Lot 8776.10-36)<br>Purity 98% | 2,010.0 µg/mL               | +/- 11.7957 µg/mL Gravimetric<br>+/- 90.5449 µg/mL Unstressed<br>+/- 100.4678 µg/mL Stressed |
| 2             | Naphthalene<br>CAS # 91-20-3 (Lot MKBZ8680V)<br>Purity 99%              | 2,006.0 µg/mL               | +/- 11.7723 µg/mL Gravimetric<br>+/- 90.3656 µg/mL Unstressed<br>+/- 100.2689 µg/mL Stressed |
| 3             | 2-Methylnaphthalene<br>CAS # 91-57-6 (Lot STBG8884)<br>Purity 99%       | 2,008.0 µg/mL               | +/- 11.7841 µg/mL Gravimetric<br>+/- 90.4557 µg/mL Unstressed<br>+/- 100.3688 µg/mL Stressed |
| 4             | Acenaphthylene<br>CAS # 208-96-8 (Lot N19U)<br>Purity 95%               | 2,002.6 µg/mL               | +/- 11.7524 µg/mL Gravimetric<br>+/- 90.2125 µg/mL Unstressed<br>+/- 100.0989 µg/mL Stressed |
| 5             | Acenaphthene<br>CAS # 83-32-9 (Lot MKCN0610)<br>Purity 99%              | 2,000.0 µg/mL               | +/- 11.7371 µg/mL Gravimetric<br>+/- 90.0953 µg/mL Unstressed<br>+/- 99.9689 µg/mL Stressed  |
| 6             | Fluorene<br>CAS # 86-73-7 (Lot 10217947)<br>Purity 99%                  | 2,016.0 µg/mL               | +/- 11.8310 µg/mL Gravimetric<br>+/- 90.8161 µg/mL Unstressed<br>+/- 100.7687 µg/mL Stressed |
| 7             | Phenanthrene<br>CAS # 85-01-8 (Lot MKCL7390)<br>Purity 99%              | 2,012.0 µg/mL               | +/- 11.8075 µg/mL Gravimetric<br>+/- 90.6359 µg/mL Unstressed<br>+/- 100.5688 µg/mL Stressed |

|          |                        |          |                     |         |       |     |          |       |             |
|----------|------------------------|----------|---------------------|---------|-------|-----|----------|-------|-------------|
| 8        | Anthracene             |          |                     | 2,002.0 | µg/mL | +/- | 11.7489  | µg/mL | Gravimetric |
|          | CAS #                  | 120-12-7 | (Lot MKCM0015)      |         |       | +/- | 90.1854  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 100.0689 | µg/mL | Stressed    |
| 9        | Fluoranthene           |          |                     | 2,003.0 | µg/mL | +/- | 11.7547  | µg/mL | Gravimetric |
|          | CAS #                  | 206-44-0 | (Lot MKCF7378)      |         |       | +/- | 90.2305  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 100.1189 | µg/mL | Stressed    |
| 10       | Pyrene                 |          |                     | 2,011.0 | µg/mL | +/- | 11.8017  | µg/mL | Gravimetric |
|          | CAS #                  | 129-00-0 | (Lot BCCB9880)      |         |       | +/- | 90.5909  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 100.5188 | µg/mL | Stressed    |
| 11       | Benz(a)anthracene      |          |                     | 2,011.0 | µg/mL | +/- | 11.8014  | µg/mL | Gravimetric |
|          | CAS #                  | 56-55-3  | (Lot P0022018-0505) |         |       | +/- | 90.5890  | µg/mL | Unstressed  |
|          | Purity                 | 98%      |                     |         |       | +/- | 100.5168 | µg/mL | Stressed    |
| 12       | Chrysene               |          |                     | 2,000.0 | µg/mL | +/- | 11.7371  | µg/mL | Gravimetric |
|          | CAS #                  | 218-01-9 | (Lot STBJ8094)      |         |       | +/- | 90.0953  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 99.9689  | µg/mL | Stressed    |
| 13       | Benzo(b)fluoranthene   |          |                     | 2,006.0 | µg/mL | +/- | 11.7721  | µg/mL | Gravimetric |
|          | CAS #                  | 205-99-2 | (Lot 012012B)       |         |       | +/- | 90.3638  | µg/mL | Unstressed  |
|          | Purity                 | 97%      |                     |         |       | +/- | 100.2669 | µg/mL | Stressed    |
| 14       | Benzo(k)fluoranthene   |          |                     | 2,010.0 | µg/mL | +/- | 11.7958  | µg/mL | Gravimetric |
|          | CAS #                  | 207-08-9 | (Lot 012019K)       |         |       | +/- | 90.5458  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 100.4688 | µg/mL | Stressed    |
| 15       | Benzo(a)pyrene         |          |                     | 2,004.0 | µg/mL | +/- | 11.7606  | µg/mL | Gravimetric |
|          | CAS #                  | 50-32-8  | (Lot RP210113)      |         |       | +/- | 90.2755  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 100.1689 | µg/mL | Stressed    |
| 16       | Indeno(1,2,3-cd)pyrene |          |                     | 2,010.0 | µg/mL | +/- | 11.7958  | µg/mL | Gravimetric |
|          | CAS #                  | 193-39-5 | (Lot 1-RAK-33-4)    |         |       | +/- | 90.5458  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 100.4688 | µg/mL | Stressed    |
| 17       | Dibenz(a,h)anthracene  |          |                     | 2,017.0 | µg/mL | +/- | 11.8369  | µg/mL | Gravimetric |
|          | CAS #                  | 53-70-3  | (Lot ER032211-01)   |         |       | +/- | 90.8611  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 100.8187 | µg/mL | Stressed    |
| 18       | Benzo(g,h,i)perylene   |          |                     | 2,003.0 | µg/mL | +/- | 11.7547  | µg/mL | Gravimetric |
|          | CAS #                  | 191-24-2 | (Lot 8GFYJ)         |         |       | +/- | 90.2305  | µg/mL | Unstressed  |
|          | Purity                 | 99%      |                     |         |       | +/- | 100.1189 | µg/mL | Stressed    |
| <hr/>    |                        |          |                     |         |       |     |          |       |             |
| Solvent: | Methylene chloride     |          |                     |         |       |     |          |       |             |
|          | CAS #                  | 75-09-2  |                     |         |       |     |          |       |             |
|          | Purity                 | 99%      |                     |         |       |     |          |       |             |

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

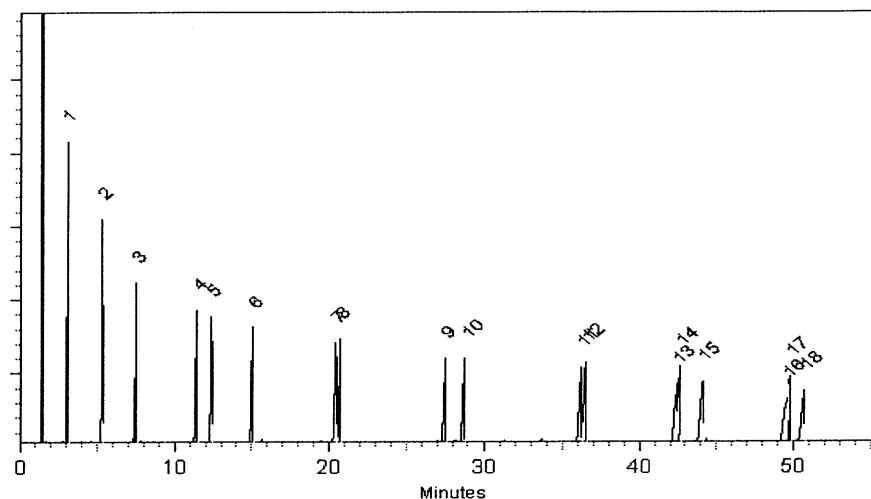
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

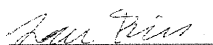
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

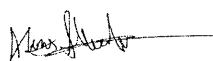
**Det. Type:**  
FID



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.

  
Lane Kibe - Mix Technician

Date Mixed: 14-May-2021      Balance: B345965662

  
Alexis Shelow - Operations Tech I

Date Passed: 18-May-2021

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions                                          | Standard Conditions | Non-Standard Conditions |
|-----------------------------------------------------------|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

n-Hexane 95%  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

## Certificate of Analysis

| Test                                                                            | Specification  | Result      |
|---------------------------------------------------------------------------------|----------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)            | $\leq 5$       | 1           |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)            | $\leq 10$      | 6           |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | $\leq 5$       | 4           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)     | $\geq 99.5 \%$ | 100.0 %     |
| Assay (as n-Hexane) (by GC, corrected for water)                                | $\geq 95 \%$   | 100 %       |
| Color (APHA)                                                                    | $\leq 10$      | 10          |
| Residue after Evaporation                                                       | $\leq 1.0$ ppm | 0.2 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                           | Passes Test    | Passes Test |
| Water (by KF, coulometric)                                                      | $\leq 0.05 \%$ | $< 0.01 \%$ |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3974

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC





**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MÉXICO  
CP 64070  
TEL +52 81 13 52 67 67  
www.pqm.com.mx

# CERTIFICATE OF ANALYSIS

|                       |                                   |               |                                 |
|-----------------------|-----------------------------------|---------------|---------------------------------|
| PRODUCT :             | SODIUM SULFATE CRYSTALS ANHYDROUS |               |                                 |
| QUALITY :             | ACS (CODE RMB3375)                | FORMULA :     | Na <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER: | 6399                              | RELEASE DATE: | MAY/23/2024                     |
| LOT NUMBER :          | 417203                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.8 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.2         |
| Insoluble matter                         | Max. 0.01%     | 0.001 %     |
| Loss on ignition                         | Max. 0.5%      | 0.1 %       |
| Chloride (Cl)                            | Max. 0.001%    | <0.001 %    |
| Nitrogen compounds (as N)                | Max. 5 ppm     | <5 ppm      |
| Phosphate (PO <sub>4</sub> )             | Max. 0.001%    | <0.001 %    |
| Heavy metals (as Pb)                     | Max. 5 ppm     | <5 ppm      |
| Iron (Fe)                                | Max. 0.001%    | <0.001 %    |
| Calcium (Ca)                             | Max. 0.01%     | 0.001 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.001 %     |
| 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%        | 0.2 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 96.2 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 3.5 %       |
| Through US Standard No. 100 sieve        | Max. 10%       | 0.1 %       |

## COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)

avantor



Material No.: 9266-A4  
Batch No.: 25A0262002  
Manufactured Date: 2024-11-21  
Expiration Date: 2026-02-20  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                             | Specification  | Result  |
|--------------------------------------------------------------------------------------------------|----------------|---------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                             | $\leq 5$       | 1       |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                              | $\leq 10$      | 4       |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8\%$  | 99.9%   |
| Color (APHA)                                                                                     | $\leq 10$      | 10      |
| Residue after Evaporation                                                                        | $\leq 1.0$ ppm | 0.8 ppm |
| Titration Acid ( $\mu$ eq/g)                                                                     | $\leq 0.3$     | <0.1    |
| Chloride (Cl)                                                                                    | $\leq 10$ ppm  | <5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02\%$  | <0.01%  |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926

*J. Croak*

Jamie Croak  
Director Quality Operations, Bioscience Production

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

n-Hexane 95%  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis

 **avantors**<sup>™</sup>



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

## Certificate of Analysis

| Test                                                                           | Specification  | Result      |
|--------------------------------------------------------------------------------|----------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)           | $\leq 5$       | 1           |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)            | $\leq 10$      | 6           |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | $\leq 5$       | 5           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)    | $\geq 99.5 \%$ | 100.0 %     |
| Assay (as n-Hexane) (by GC, corrected for water)                               | $\geq 95 \%$   | 100 %       |
| Color (APHA)                                                                   | $\leq 10$      | 10          |
| Residue after Evaporation                                                      | $\leq 1.0$ ppm | 0.1 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                          | Passes Test    | Passes Test |
| Water (by KF, coulometric)                                                     | $\leq 0.05 \%$ | $< 0.01 \%$ |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

*Received on 7/16/25*

**E3956**



Jamie Croak  
Director Quality Operations, Bioscience Production

n-Hexane 95%  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis

Avantor

Material No.: 9262-03  
Batch No.: 25C0362005  
Manufactured Date: 2025-01-29  
Expiration Date: 2026-04-30  
Revision No.: 0

## Certificate of Analysis

| Test                                                                           | Specification  | Result      |
|--------------------------------------------------------------------------------|----------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)           | $\leq 5$       | 1           |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)            | $\leq 10$      | 6           |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | $\leq 5$       | 5           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)    | $\geq 99.5\%$  | 100.0 %     |
| Assay (as n-Hexane) (by GC, corrected for water)                               | $\geq 95\%$    | 100 %       |
| Color (APHA)                                                                   | $\leq 10$      | 10          |
| Residue after Evaporation                                                      | $\leq 1.0$ ppm | 0.1 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                          | Passes Test    | Passes Test |
| Water (by KF, coulometric)                                                     | $\leq 0.05\%$  | $< 0.01\%$  |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3966



Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | >= 99.4 %     | 99.8 %      |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.2 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (µeq/g)                                                  | <= 0.3        | 0.2         |
| Titration Base (µeq/g)                                                  | <= 0.6        | <0.1        |
| Water (H <sub>2</sub> O)                                                | <= 0.5 %      | 0.2 %       |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)    | <= 5          | <1          |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)    | <= 10         | 1           |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

 **avantor™**



M6151

R → 11/15/25

Material No.: 9530-33  
Batch No.: 22G2862015  
Manufactured Date: 2022-06-15  
Retest Date: 2027-06-14  
Revision No.: 0

## Certificate of Analysis

| Test                                      | Specification | Result      |
|-------------------------------------------|---------------|-------------|
| ACS – Assay (as HCl) (by acid–base titrn) | 36.5 – 38.0 % | 37.9 %      |
| ACS – Color (APHA)                        | ≤ 10          | 5           |
| ACS – Residue after Ignition              | ≤ 3 ppm       | < 1 ppm     |
| ACS – Specific Gravity at 60°/60°F        | 1.185 – 1.192 | 1.191       |
| ACS – Bromide (Br)                        | ≤ 0.005 %     | < 0.005 %   |
| ACS – Extractable Organic Substances      | ≤ 5 ppm       | < 1 ppm     |
| ACS – Free Chlorine (as Cl <sub>2</sub> ) | ≤ 0.5 ppm     | < 0.5 ppm   |
| Phosphate (PO <sub>4</sub> )              | ≤ 0.05 ppm    | < 0.03 ppm  |
| Sulfate (SO <sub>4</sub> )                | ≤ 0.5 ppm     | < 0.3 ppm   |
| Sulfite (SO <sub>3</sub> )                | ≤ 0.8 ppm     | 0.3 ppm     |
| Ammonium (NH <sub>4</sub> )               | ≤ 3 ppm       | < 1 ppm     |
| Trace Impurities – Arsenic (As)           | ≤ 0.010 ppm   | < 0.003 ppm |
| Trace Impurities – Aluminum (Al)          | ≤ 10.0 ppb    | 1.3 ppb     |
| Arsenic and Antimony (as As)              | ≤ 5.0 ppb     | < 3.0 ppb   |
| Trace Impurities – Barium (Ba)            | ≤ 1.0 ppb     | 0.2 ppb     |
| Trace Impurities – Beryllium (Be)         | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Bismuth (Bi)           | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities – Boron (B)              | ≤ 20.0 ppb    | < 5.0 ppb   |
| Trace Impurities – Cadmium (Cd)           | ≤ 1.0 ppb     | < 0.3 ppb   |
| Trace Impurities – Calcium (Ca)           | ≤ 50.0 ppb    | 163.0 ppb   |
| Trace Impurities – Chromium (Cr)          | ≤ 1.0 ppb     | 0.7 ppb     |
| Trace Impurities – Cobalt (Co)            | ≤ 1.0 ppb     | < 0.3 ppb   |
| Trace Impurities – Copper (Cu)            | ≤ 1.0 ppb     | < 0.1 ppb   |
| Trace Impurities – Gallium (Ga)           | ≤ 1.0 ppb     | < 0.2 ppb   |
| Trace Impurities – Germanium (Ge)         | ≤ 3.0 ppb     | < 2.0 ppb   |
| Trace Impurities – Gold (Au)              | ≤ 4.0 ppb     | 0.6 ppb     |
| Heavy Metals (as Pb)                      | ≤ 100 ppb     | < 50 ppb    |
| Trace Impurities – Iron (Fe)              | ≤ 15 ppb      | 6 ppb       |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33  
Batch No.: 22G2862015

| Test                                                   | Specification | Result     |
|--------------------------------------------------------|---------------|------------|
| Trace Impurities – Lead (Pb)                           | ≤ 1.0 ppb     | < 0.5 ppb  |
| Trace Impurities – Lithium (Li)                        | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Magnesium (Mg)                      | ≤ 10.0 ppb    | 2.9 ppb    |
| Trace Impurities – Manganese (Mn)                      | ≤ 1.0 ppb     | < 0.4 ppb  |
| Trace Impurities – Mercury (Hg)                        | ≤ 0.5 ppb     | 0.1 ppb    |
| Trace Impurities – Molybdenum (Mo)                     | ≤ 10.0 ppb    | < 3.0 ppb  |
| Trace Impurities – Nickel (Ni)                         | ≤ 4.0 ppb     | < 0.3 ppb  |
| Trace Impurities – Niobium (Nb)                        | ≤ 1.0 ppb     | 0.8 ppb    |
| Trace Impurities – Potassium (K)                       | ≤ 9.0 ppb     | < 2.0 ppb  |
| Trace Impurities – Selenium (Se), For Information Only |               | < 1.0 ppb  |
| Trace Impurities – Silicon (Si)                        | ≤ 100.0 ppb   | < 10.0 ppb |
| Trace Impurities – Silver (Ag)                         | ≤ 1.0 ppb     | 0.5 ppb    |
| Trace Impurities – Sodium (Na)                         | ≤ 100.0 ppb   | 2.3 ppb    |
| Trace Impurities – Strontium (Sr)                      | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Tantalum (Ta)                       | ≤ 1.0 ppb     | 1.6 ppb    |
| Trace Impurities – Thallium (Tl)                       | ≤ 5.0 ppb     | < 2.0 ppb  |
| Trace Impurities – Tin (Sn)                            | ≤ 5.0 ppb     | 4.0 ppb    |
| Trace Impurities – Titanium (Ti)                       | ≤ 1.0 ppb     | 1.5 ppb    |
| Trace Impurities – Vanadium (V)                        | ≤ 1.0 ppb     | < 0.2 ppb  |
| Trace Impurities – Zinc (Zn)                           | ≤ 5.0 ppb     | 0.8 ppb    |
| Trace Impurities – Zirconium (Zr)                      | ≤ 1.0 ppb     | 0.3 ppb    |

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%  
BAKER INSTRA–ANALYZED® Reagent  
For Trace Metal Analysis



Material No.: 9530-33  
Batch No.: 22G2862015

| Test | Specification | Result |
|------|---------------|--------|
|------|---------------|--------|

For Laboratory, Research, or Manufacturing Use  
Product Information (not specifications):  
Appearance (clear, fuming liquid)  
Meets ACS Specifications  
Storage Condition: Store below 25 °C.

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in cursive script that reads 'Jamie Ethier'.  
Jamie Ethier  
Vice President Global Quality





**CERTIFIED WEIGHT REPORT**

**Part Number:** 95709  
**Lot Number:** 060420  
**Description:** NJ EPH Aromatic Hydrocarbons  
18 components  
**Expiration Date:** 060425  
**Recommended Storage:** Refrigerate (4 °C)  
**Nominal Concentration (µg/mL):** 2000  
**NIST Test ID#:** 23060  
**Weight(s) shown below were combined and diluted to (mL):** 500.0  
**Balance Uncertainty:** 5E-05  
**Flask Uncertainty:** 0.058

**Solvent(s):** Methylene chloride  
**Lot#** 104923

|                |                   |        |
|----------------|-------------------|--------|
| Formulated By: | Benson Chan       | 060420 |
| Reviewed By:   | Pedro L. Renteria | 060420 |
|                |                   | DATE   |

| Compound | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (±) (µg/mL) | CAS# | SDS Information (Solvent Safety Info. On Attached pg.) | LD50 |
|----------|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|----------------------------------|------|--------------------------------------------------------|------|
|----------|------------|----------------------|------------|--------------------|------------------|------------------|---------------------|----------------------------------|------|--------------------------------------------------------|------|

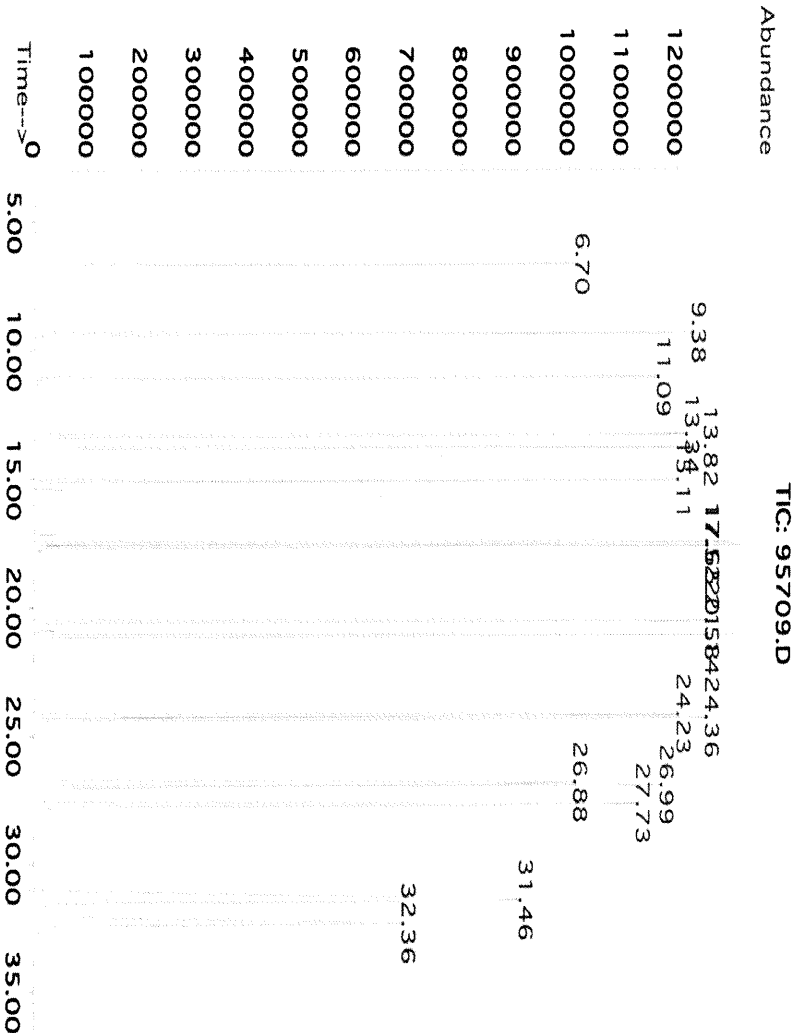
|                            |     |           |      |      |     |         |         |        |     |          |                     |                   |
|----------------------------|-----|-----------|------|------|-----|---------|---------|--------|-----|----------|---------------------|-------------------|
| 1. Acenaphthene            | 1   | MKB14871V | 2000 | 99   | 0.2 | 1.01003 | 1.01010 | 2000.1 | 8.1 | 83-32-9  | N/A                 | ip-tral 600mg/kg  |
| 2. Acenaphthylene          | 3   | 012014    | 2000 | 98   | 0.2 | 1.02033 | 1.02053 | 2000.4 | 8.2 | 208-96-6 | N/A                 | N/A               |
| 3. Anthracene              | 13  | A0210580  | 2000 | 99   | 0.2 | 1.01003 | 1.01009 | 2000.1 | 8.1 | 120-12-7 | 0.2mg/m3 (8h)       | ip-trus 430mg/kg  |
| 4. Benz(a)anthracene       | 28  | JY2TD-JT  | 2000 | 98   | 0.2 | 1.02033 | 1.02051 | 2000.3 | 8.2 | 56-55-3  | N/A                 | N/A               |
| 5. Benz(a)pyrene           | 30  | 012012    | 2000 | 99.5 | 0.2 | 1.00495 | 1.00511 | 2000.3 | 8.1 | 50-32-8  | 0.2mg/m3 (8h)       | scu-tral 50mg/kg  |
| 6. Benz(b)fluoranthene     | 31  | 012012b   | 2000 | 99   | 0.2 | 1.01003 | 1.01012 | 2000.2 | 8.1 | 205-99-2 | N/A                 | N/A               |
| 7. Benz(k)fluoranthene     | 33  | 012012k   | 2000 | 99   | 0.2 | 1.01003 | 1.01018 | 2000.3 | 8.1 | 207-08-9 | N/A                 | N/A               |
| 8. Benz(g,h,i)perylene     | 32  | 012018    | 2000 | 99   | 0.2 | 1.01003 | 1.01019 | 2000.3 | 8.1 | 191-24-2 | N/A                 | N/A               |
| 9. Chrysene                | 91  | 012015    | 2000 | 98   | 0.2 | 1.02033 | 1.02040 | 2000.1 | 8.2 | 218-01-9 | 0.2mg/m3            | N/A               |
| 10. Dibenzo(a,h)anthracene | 112 | 012011    | 2000 | 98   | 0.2 | 1.02033 | 1.02050 | 2000.3 | 8.2 | 53-70-3  | 0.2mg/m3            | N/A               |
| 11. Fluoranthene           | 183 | 04221PV   | 2000 | 98   | 0.2 | 1.02033 | 1.02050 | 2000.3 | 8.2 | 206-44-0 | N/A                 | of-tral 2000mg/kg |
| 12. Fluorene               | 184 | 07211MV   | 2000 | 98   | 0.2 | 1.02033 | 1.02047 | 2000.3 | 8.2 | 86-73-7  | N/A                 | ip-trus 2 g/kg    |
| 13. Indeno(1,2,3-cd)pyrene | 202 | 012014    | 2000 | 99.9 | 0.2 | 1.00093 | 1.00119 | 2000.5 | 8.0 | 193-39-5 | N/A                 | N/A               |
| 14. 2-Methylnaphthalene    | 214 | MKB13783V | 2000 | 97   | 0.2 | 1.03085 | 1.03090 | 2000.1 | 8.3 | 91-57-6  | N/A                 | of-tral 1630mg/kg |
| 15. Naphthalene            | 222 | MKB28690V | 2000 | 100  | 0.2 | 0.99993 | 0.99999 | 2000.1 | 8.0 | 91-20-3  | 10 ppm (50mg/m3/8h) | of-tral 490mg/kg  |
| 16. Phenanthrene           | 248 | 03410PV   | 2000 | 99   | 0.2 | 1.01003 | 1.01030 | 2000.5 | 8.1 | 85-01-8  | 0.2mg/m3/8h         | of-trus 700mg/kg  |
| 17. Pyrene                 | 259 | 010197    | 2000 | 98   | 0.2 | 1.02033 | 1.02042 | 2000.2 | 8.2 | 129-00-0 | 0.2mg/m3/8h         | of-tral 2700mg/kg |
| 18. 1,2,3-Trimethylbenzene | 944 | 031097    | 2000 | 99   | 0.2 | 1.01003 | 1.01025 | 2000.4 | 8.1 | 526-73-8 | N/A                 | N/A               |

\* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.  
\* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).  
\* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.  
\* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.  
\* Uncertainty Reference: Taylor, B.N. and Kuyat, C.F., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

P11137  
P11141  
11/10/21



**Method GC8MSD-2.M:** Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (14min.), Rate = 10°C/min., Injector B= 250°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.



| Peak No. | Name                                          | MSD RT (min.) |
|----------|-----------------------------------------------|---------------|
| 1        | 1,2,3-Trimethylbenzene                        | 6.70          |
| 2        | Naphthalene                                   | 9.38          |
| 3        | 2-Methylnaphthalene                           | 11.09         |
| 4        | Acenaphthylene                                | 13.34         |
| 5        | Acenaphthene                                  | 13.82         |
| 6        | Fluorene                                      | 15.11         |
| 7        | Phenanthrene                                  | 17.52         |
| 8        | Anthracene                                    | 17.65         |
| 9        | Fluoranthene                                  | 20.58         |
| 10       | Pyrene                                        | 21.14         |
| 11       | Chrysene                                      | 24.23         |
| 12       | Benzo(a)anthracene                            | 24.36         |
| 13       | Benzo(b)fluoranthene/Benzo(k)fluoranthene     | 26.98         |
| 14       | Benzo(a)pyrene                                | 27.73         |
| 15       | Indeno(1,2,3-cd)pyrene/Dibenzo(a,h)anthracene | 31.46         |
| 16       | Benzo(g,h,i)perylene                          | 32.36         |



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## 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. :** 30540 **Lot No.:** A0190424

**Description :** NJEPH Aliphatics Calibration Standard

Aliphatics Calibration Standard 2000µg/mL, Hexane/Carbon Disulfide (80:20), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2029 **Storage:** 25°C nominal

**Handling:** Sonicate prior to use. **Ship:** Ambient

P12361  
↓  
P12370 } Y.P.  
031/6/23

### CERTIFIED VALUES

| Elution Order | Compound                                                              | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)      |                                                |
|---------------|-----------------------------------------------------------------------|-----------------------------|-------------------------------------------|------------------------------------------------|
| 1             | n-Nonane (C9)<br>CAS # 111-84-2<br>Purity 99%<br>(Lot SHBN5361)       | 2,014.0 µg/mL               | +/- 11.8193<br>+/- 50.0027<br>+/- 59.9491 | µg/mL<br>Gravimetric<br>Unstressed<br>Stressed |
| 2             | n-Decane (C10)<br>CAS # 124-18-5<br>Purity 99%<br>(Lot SHBN8619)      | 2,014.7 µg/mL               | +/- 11.8232<br>+/- 50.0193<br>+/- 59.9689 | µg/mL<br>Gravimetric<br>Unstressed<br>Stressed |
| 3             | Naphthalene<br>CAS # 91-20-3<br>Purity 99%<br>(Lot MKCH0219)          | 2,015.3 µg/mL               | +/- 11.8271<br>+/- 50.0358<br>+/- 59.9888 | µg/mL<br>Gravimetric<br>Unstressed<br>Stressed |
| 4             | n-Dodecane (C12)<br>CAS # 112-40-3<br>Purity 99%<br>(Lot SHBN7174)    | 2,008.0 µg/mL               | +/- 11.7841<br>+/- 49.8538<br>+/- 59.7705 | µg/mL<br>Gravimetric<br>Unstressed<br>Stressed |
| 5             | 2-Methylnaphthalene<br>CAS # 91-57-6<br>Purity 96%<br>(Lot STBK0259)  | 2,007.0 µg/mL               | +/- 11.7784<br>+/- 49.8299<br>+/- 59.7419 | µg/mL<br>Gravimetric<br>Unstressed<br>Stressed |
| 6             | n-Tetradecane (C14)<br>CAS # 629-59-4<br>Purity 99%<br>(Lot STBK2282) | 2,016.7 µg/mL               | +/- 11.8349<br>+/- 50.0689<br>+/- 60.0284 | µg/mL<br>Gravimetric<br>Unstressed<br>Stressed |
| 7             | n-Hexadecane (C16)<br>CAS # 544-76-3<br>Purity 98%<br>(Lot SHBM4146)  | 2,014.9 µg/mL               | +/- 11.8244<br>+/- 50.0246<br>+/- 59.9753 | µg/mL<br>Gravimetric<br>Unstressed<br>Stressed |

|                                                 |                                                            |                  |               |     |         |       |             |
|-------------------------------------------------|------------------------------------------------------------|------------------|---------------|-----|---------|-------|-------------|
| 8                                               | n-Octadecane (C18)<br>CAS # 593-45-3<br>Purity 97%         | (Lot VZKOJ)      | 2,004.7 µg/mL | +/- | 11.7645 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 49.7710 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.6712 | µg/mL | Stressed    |
| 9                                               | n-Eicosane (C20)<br>CAS # 112-95-8<br>Purity 99%           | (Lot MKCF7888)   | 2,018.0 µg/mL | +/- | 11.8428 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 50.1020 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 60.0681 | µg/mL | Stressed    |
| 10                                              | n-Heneicosane (C21)<br>CAS # 629-94-7<br>Purity 99%        | (Lot MKCL3226)   | 2,000.7 µg/mL | +/- | 11.7410 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 49.6717 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.5522 | µg/mL | Stressed    |
| 11                                              | n-Docosane (C22)<br>CAS # 629-97-0<br>Purity 99%           | (Lot MKCL8918)   | 2,005.3 µg/mL | +/- | 11.7684 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 49.7876 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.6911 | µg/mL | Stressed    |
| 12                                              | n-Tetracosane (C24)<br>CAS # 646-31-1<br>Purity 99%        | (Lot MKCN2863)   | 2,018.0 µg/mL | +/- | 11.8428 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 50.1020 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 60.0681 | µg/mL | Stressed    |
| 13                                              | n-Hexacosane (C26)<br>CAS # 630-01-3<br>Purity 99%         | (Lot MKCD4540)   | 2,014.0 µg/mL | +/- | 11.8193 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 50.0027 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.9491 | µg/mL | Stressed    |
| 14                                              | n-Octacosane (C28)<br>CAS # 630-02-4<br>Purity 99%         | (Lot BCCG0084)   | 2,002.0 µg/mL | +/- | 11.7489 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 49.7048 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.5919 | µg/mL | Stressed    |
| 15                                              | n-Triacontane (C30)<br>CAS # 638-68-6<br>Purity 97%        | (Lot MKCQ9436)   | 2,011.1 µg/mL | +/- | 11.8025 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 49.9316 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.8637 | µg/mL | Stressed    |
| 16                                              | n-Dotriacontane (C32)<br>CAS # 544-85-4<br>Purity 99%      | (Lot BCBW0661)   | 2,012.0 µg/mL | +/- | 11.8075 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 49.9531 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.8895 | µg/mL | Stressed    |
| 17                                              | n-Tetratriacontane (C34)<br>CAS # 14167-59-0<br>Purity 99% | (Lot OML4N)      | 2,006.7 µg/mL | +/- | 11.7762 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 49.8207 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.7308 | µg/mL | Stressed    |
| 18                                              | n-Hexatriacontane (C36)<br>CAS # 630-06-8<br>Purity 99%    | (Lot Z27H018)    | 2,017.3 µg/mL | +/- | 11.8388 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 50.0855 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 60.0483 | µg/mL | Stressed    |
| 19                                              | n-Octatriacontane (C38)<br>CAS # 7194-85-6<br>Purity 96%   | (Lot 0000145137) | 2,017.3 µg/mL | +/- | 11.8385 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 50.0842 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 60.0467 | µg/mL | Stressed    |
| 20                                              | n-Tetracontane (C40)<br>CAS # 4181-95-7<br>Purity 99%      | (Lot BSBME)      | 2,008.7 µg/mL | +/- | 11.7880 | µg/mL | Gravimetric |
|                                                 |                                                            |                  |               | +/- | 49.8703 | µg/mL | Unstressed  |
|                                                 |                                                            |                  |               | +/- | 59.7903 | µg/mL | Stressed    |
| <b>Solvent:</b> Hexane/Carbon disulfide (80:20) |                                                            |                  |               |     |         |       |             |
|                                                 | CAS # 110-54-3/75-15-0                                     |                  |               |     |         |       |             |
|                                                 | Purity 99%                                                 |                  |               |     |         |       |             |

**Column:**  
30m x 0.25mm x 0.25µm  
Pxx-5 (cat.#10223)

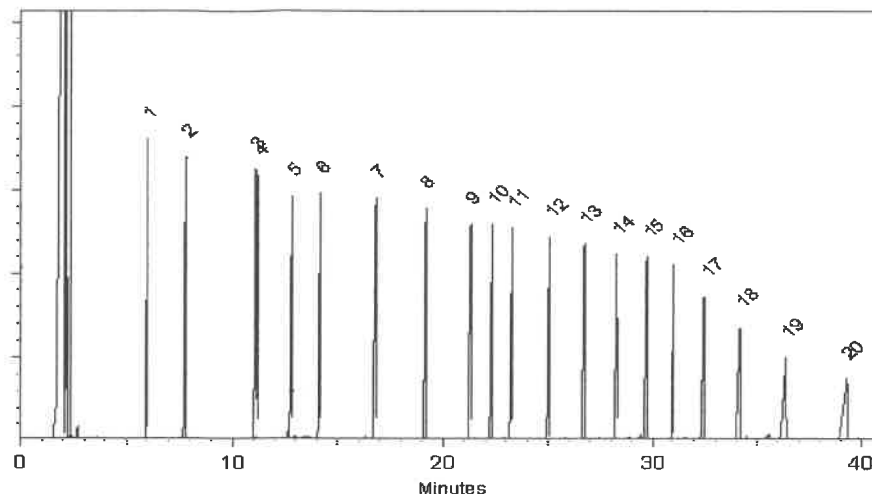
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°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.

  
Morgan Craighead - Mix Technician

Date Mixed: 10-Oct-2022      Balance: 1128360905

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us) for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions                                          | Standard Conditions | Non-Standard Conditions |
|-----------------------------------------------------------|---------------------|-------------------------|
| 25°C Nominal (Room Temperature)                           | < 60°C              | ≥ 60°C up to 7 days     |
| 10°C or colder (Refrigerate)                              | < 40°C              | ≥ 40°C up to 7 days     |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C              | ≥ 25°C up to 7 days     |

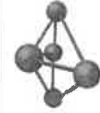
- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at [www.restek.com/Contact-Us](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised  
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):  
Cyclohexane

Lot#  
28930

P13278  
2  
P13287  
Y.P.  
04/11/24

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

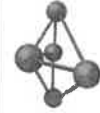
|                |                 |        |      |
|----------------|-----------------|--------|------|
| Formulated By: | Anthony Mahoney | 040524 | DATE |
| Reviewed By:   | Pedro L. Rentas | 040524 | DATE |

| Compound |                     | Part Number | (RM#)     | Lot Number | DIL Factor | Initial Vol. (mL) | Initial Conc (µg/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Pipette | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information<br>(Solvent Safety Info. On Attached pg.) |                                     |                   |
|----------|---------------------|-------------|-----------|------------|------------|-------------------|----------------------|----------------------|------------|--------------------|---------|------------------|------------------|---------------------|------------------------------------|-----------------------------------------------------------|-------------------------------------|-------------------|
|          |                     |             |           |            |            |                   |                      |                      |            |                    |         |                  |                  |                     |                                    | CAS#                                                      | OSHA PEL (TWA)                      | LD50              |
| 1.       | 2-Methylnaphthalene | (0214)      | MKBF3783V | NA         | NA         | NA                | NA                   | 1000                 | 97         | 0.2                | NA      | 0.02579          | 0.02594          | 1005.7              | 5.7                                | 91-57-6                                                   | N/A                                 | or-rat 1630mg/kg  |
| 2.       | Naphthalene         | (0222)      | MKB28680V | NA         | NA         | NA                | NA                   | 1000                 | 100        | 0.2                | NA      | 0.02502          | 0.02511          | 1003.7              | 5.7                                | 91-20-3                                                   | 10 ppm (50mg/m <sup>3</sup> /8H)    | or-rat 490mg/kg   |
| 3.       | n-Nonane            | 95708       | 120222    | 1.00       | 25.00      | 1000.7            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1000.0              | 4.2                                | 111-84-2                                                  | 200 ppm (1050mg/m <sup>3</sup> /8H) | ivn-mus 218mg/kg  |
| 4.       | n-Decane            | 95708       | 120222    | 1.00       | 25.00      | 1000.9            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1000.2              | 4.2                                | 124-18-5                                                  | N/A                                 | N/A               |
| 5.       | n-Dodecane          | 95708       | 120222    | 1.00       | 25.00      | 1000.7            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1000.0              | 4.2                                | 112-40-3                                                  | N/A                                 | ivn-mus 3494mg/kg |
| 6.       | n-Tetradecane       | 95708       | 120222    | 1.00       | 25.00      | 1002.1            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1001.3              | 4.2                                | 629-59-4                                                  | N/A                                 | N/A               |
| 7.       | n-Hexadecane        | 95708       | 120222    | 1.00       | 25.00      | 1000.5            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 999.7               | 4.2                                | 544-76-3                                                  | N/A                                 | N/A               |
| 8.       | n-Octadecane        | 95708       | 120222    | 1.00       | 25.00      | 1001.0            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1000.3              | 4.1                                | 583-45-3                                                  | N/A                                 | N/A               |
| 9.       | n-Eicosane          | 95708       | 120222    | 1.00       | 25.00      | 1001.0            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1000.3              | 4.2                                | 112-95-8                                                  | N/A                                 | N/A               |
| 10.      | n-Henicosane        | 95708       | 120222    | 1.00       | 25.00      | 1002.4            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1001.6              | 4.2                                | 629-94-7                                                  | N/A                                 | N/A               |
| 11.      | n-Docosane          | 95708       | 120222    | 1.00       | 25.00      | 1001.9            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1001.2              | 4.2                                | 629-97-0                                                  | N/A                                 | N/A               |
| 12.      | n-Tetracosane       | 95708       | 120222    | 1.00       | 25.00      | 1000.8            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1000.1              | 4.2                                | 646-31-1                                                  | N/A                                 | N/A               |
| 13.      | n-Hexacosane        | 95708       | 120222    | 1.00       | 25.00      | 1001.2            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1000.4              | 4.2                                | 630-01-3                                                  | N/A                                 | N/A               |
| 14.      | n-Octacosane        | 95708       | 120222    | 1.00       | 25.00      | 1000.5            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 999.8               | 4.2                                | 630-02-4                                                  | N/A                                 | N/A               |
| 15.      | n-Triacontane       | 95708       | 120222    | 1.00       | 25.00      | 1000.5            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 999.8               | 4.2                                | 638-68-6                                                  | N/A                                 | N/A               |
| 16.      | n-Dotriacontane     | 95708       | 120222    | 1.00       | 25.00      | 1000.5            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 999.8               | 4.3                                | 544-85-4                                                  | N/A                                 | ivn-mus 100mg/kg  |
| 17.      | n-Tetracontane      | 95708       | 120222    | 1.00       | 25.00      | 1000.4            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 999.7               | 4.2                                | 14167-59-0                                                | N/A                                 | N/A               |
| 18.      | n-Hexatriacontane   | 95708       | 120222    | 1.00       | 25.00      | 1001.5            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 1000.8              | 4.2                                | 630-08-8                                                  | N/A                                 | N/A               |
| 19.      | n-Octatriacontane   | 95708       | 120222    | 1.00       | 25.00      | 1000.3            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 999.6               | 4.3                                | 7184-86-6                                                 | N/A                                 | N/A               |
| 20.      | n-Tetracontane      | 95708       | 120222    | 1.00       | 25.00      | 1000.6            | 1000                 | 1000                 | NA         | 0.013              | NA      | NA               | NA               | 999.9               | 4.3                                | 4181-95-7                                                 | N/A                                 | N/A               |

\* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.  
\* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).  
\* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.  
\* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.  
\* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).







CERTIFIED WEIGHT REPORT

Part Number: 95999

Lot Number: 040524

Description: NJ EPH Aliphatic n-Hydrocarbons - Revised  
20 components

Expiration Date: 040534

Recommended Storage: Ambient (20 °C)

Nominal Concentration (µg/mL): 1000

NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL):

CAUTION: Sonicate Before Use

Solvent(s):  
Cyclohexane

Lot#  
28930

P13278  
2  
P13287  
Y.P.  
04/11/24

5E-05 Balance Uncertainty  
0.001 Flask Uncertainty

|                |                 |        |      |
|----------------|-----------------|--------|------|
| Formulated By: | Anthony Mahoney | 040524 | DATE |
| Reviewed By:   | Pedro L. Rentas | 040524 | DATE |

| Compound |                     | Part Number | Lot Number | DIL  | Factor | Initial Vol. (mL) | Initial Conc (µg/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Pipette | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information                        |                                                     |
|----------|---------------------|-------------|------------|------|--------|-------------------|----------------------|----------------------|------------|--------------------|---------|------------------|------------------|---------------------|------------------------------------|----------------------------------------|-----------------------------------------------------|
|          |                     | (RM#)       |            |      |        |                   |                      |                      |            |                    |         |                  |                  |                     |                                    | (Solvent Safety Info. On Attached pg.) | OSHA PEL (TWA)                                      |
| 1.       | 2-Methylnaphthalene | (0214)      | MKB3783V   | NA   | NA     | NA                | NA                   | 1000                 | 97         | 0.2                | NA      | 0.02579          | 0.02594          | 1005.7              | 5.7                                | 91-57-6                                | N/A                                                 |
| 2.       | Naphthalene         | (0222)      | MKB28680V  | NA   | NA     | NA                | NA                   | 1000                 | 100        | 0.2                | NA      | 0.02502          | 0.02511          | 1003.7              | 5.7                                | 91-20-3                                | 10 ppm (50mg/m <sup>3</sup> 8H) orl-rat 1630mg/kg   |
| 3.       | n-Nonane            | 95708       | 120222     | 1.00 | 25.00  | 1000.7            | 1000.7               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1000.0              | 4.2                                | 111-84-2                               | 200 ppm (1050mg/m <sup>3</sup> 8H) orl-rat 490mg/kg |
| 4.       | n-Decane            | 95708       | 120222     | 1.00 | 25.00  | 1000.9            | 1000.9               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1000.2              | 4.2                                | 124-18-5                               | ivn-mus 218mg/kg                                    |
| 5.       | n-Dodecane          | 95708       | 120222     | 1.00 | 25.00  | 1000.7            | 1000.7               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1000.0              | 4.2                                | 112-40-3                               | N/A                                                 |
| 6.       | n-Tetradecane       | 95708       | 120222     | 1.00 | 25.00  | 1002.1            | 1002.1               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1001.3              | 4.2                                | 629-59-4                               | ivn-mus 3494mg/kg                                   |
| 7.       | n-Hexadecane        | 95708       | 120222     | 1.00 | 25.00  | 1000.5            | 1000.5               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 999.7               | 4.2                                | 544-76-3                               | N/A                                                 |
| 8.       | n-Octadecane        | 95708       | 120222     | 1.00 | 25.00  | 1001.0            | 1001.0               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1000.3              | 4.1                                | 589-45-3                               | N/A                                                 |
| 9.       | n-Eicosane          | 95708       | 120222     | 1.00 | 25.00  | 1001.0            | 1001.0               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1000.3              | 4.2                                | 112-95-8                               | N/A                                                 |
| 10.      | n-Henicosane        | 95708       | 120222     | 1.00 | 25.00  | 1002.4            | 1002.4               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1001.6              | 4.2                                | 629-94-7                               | N/A                                                 |
| 11.      | n-Docosane          | 95708       | 120222     | 1.00 | 25.00  | 1001.9            | 1001.9               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1001.2              | 4.2                                | 629-97-0                               | N/A                                                 |
| 12.      | n-Tetracosane       | 95708       | 120222     | 1.00 | 25.00  | 1000.8            | 1000.8               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1000.1              | 4.2                                | 646-31-1                               | N/A                                                 |
| 13.      | n-Hexacosane        | 95708       | 120222     | 1.00 | 25.00  | 1001.2            | 1001.2               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1000.4              | 4.2                                | 630-01-3                               | N/A                                                 |
| 14.      | n-Octacosane        | 95708       | 120222     | 1.00 | 25.00  | 1000.5            | 1000.5               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 999.8               | 4.2                                | 630-02-4                               | N/A                                                 |
| 15.      | n-Triacontane       | 95708       | 120222     | 1.00 | 25.00  | 1000.5            | 1000.5               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 999.8               | 4.2                                | 638-68-6                               | N/A                                                 |
| 16.      | n-Dotriacontane     | 95708       | 120222     | 1.00 | 25.00  | 1000.5            | 1000.5               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 999.8               | 4.3                                | 544-85-4                               | ivn-mus 100mg/kg                                    |
| 17.      | n-Tetraacontane     | 95708       | 120222     | 1.00 | 25.00  | 1000.4            | 1000.4               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 999.7               | 4.2                                | 14167-59-0                             | N/A                                                 |
| 18.      | n-Hexatriacontane   | 95708       | 120222     | 1.00 | 25.00  | 1001.5            | 1001.5               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 1000.8              | 4.2                                | 630-06-8                               | N/A                                                 |
| 19.      | n-Octatriacontane   | 95708       | 120222     | 1.00 | 25.00  | 1000.3            | 1000.3               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 999.6               | 4.3                                | 7184-86-6                              | N/A                                                 |
| 20.      | n-Tetracontane      | 95708       | 120222     | 1.00 | 25.00  | 1000.6            | 1000.6               | 1000                 | NA         | NA                 | 0.013   | NA               | NA               | 999.9               | 4.3                                | 4181-95-7                              | N/A                                                 |

• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.  
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).  
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.  
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.  
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).





110 Benner Circle  
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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31098 **Lot No.:** A0213283

**Description :** 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2031 **Storage:** 10°C or colder

**Ship:** Ambient

P13595  
↓  
P13624 } Y.P.  
10/16/24

### CERTIFIED VALUES

| Elution Order | Compound           | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1-Chlorooctadecane | 3386-33-2 | 15018900 | 99%    | 10,058.0 µg/mL              | +/- 565.0578                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (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:**

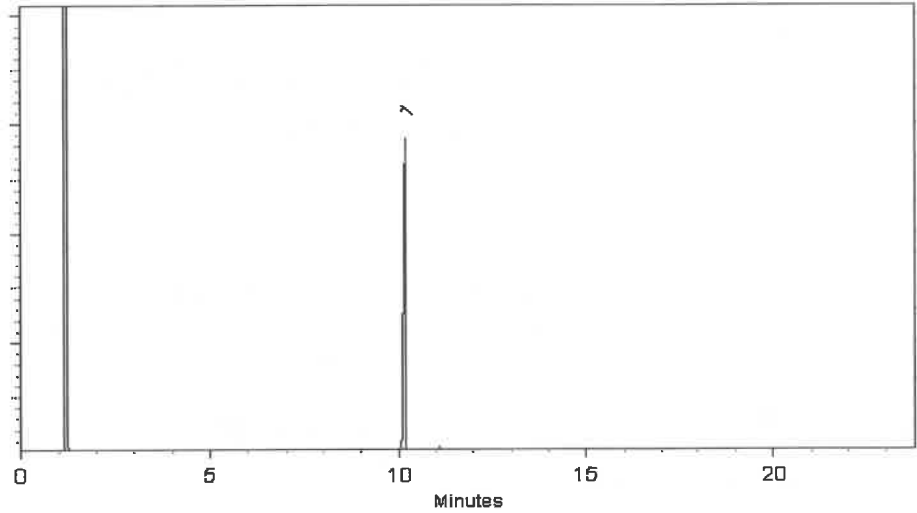
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

**Date Mixed:** 28-Jun-2024

**Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Jul-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31097 **Lot No.:** A0216631  
**Description :** o-Terphenyl Standard  
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** April 30, 2028 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.  
↓  
P13694 } 10/16/24

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #   | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|---------|-------|--------|-----------------------------|----------------------------------------|
| 1             | o-Terphenyl | 84-15-1 | GKSSA | 99%    | 10,065.0 µg/mL              | +/- 453.3336                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

# Quality Confirmation Test

**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:**

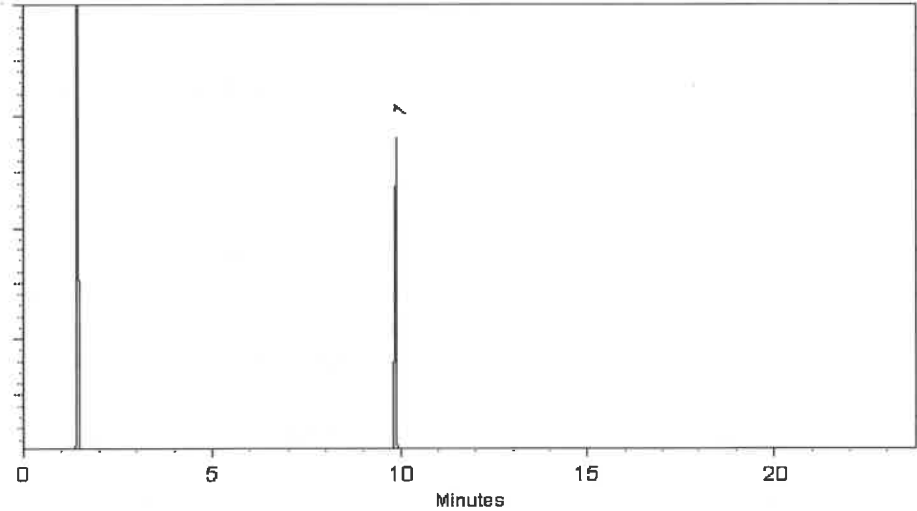
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31097 **Lot No.:** A0216631  
**Description :** o-Terphenyl Standard  
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** April 30, 2028 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.  
↓  
P13694 } 10/16/24

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #   | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|---------|-------|--------|-----------------------------|----------------------------------------|
| 1             | o-Terphenyl | 84-15-1 | GKSSA | 99%    | 10,065.0 µg/mL              | +/- 453.3336                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**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:**

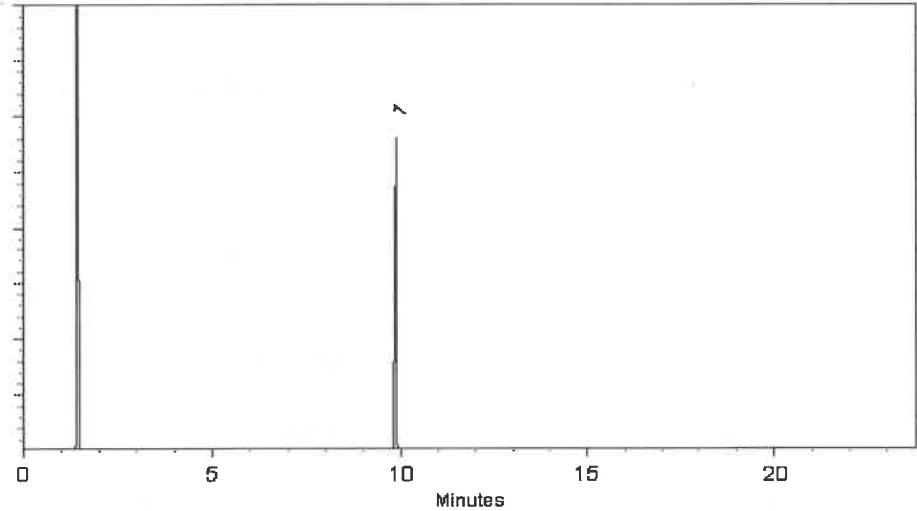
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31097 **Lot No.:** A0216631  
**Description :** o-Terphenyl Standard  
o-Terphenyl Standard 10,000 µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** April 30, 2028 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

P13645 } Y.P.  
↓  
P13694 } 10/16/24

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #   | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|---------|-------|--------|-----------------------------|----------------------------------------|
| 1             | o-Terphenyl | 84-15-1 | GKSSA | 99%    | 10,065.0 µg/mL              | +/- 453.3336                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**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:**

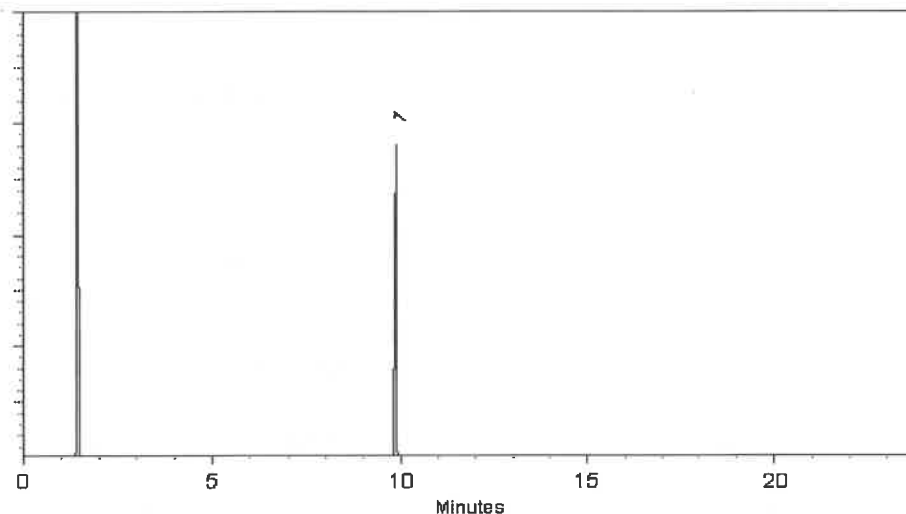
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 17-Sep-2024

Balance Serial # 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 23-Sep-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31480 **Lot No.:** A0219106  
**Description :** MA Fractionation Surrogate Spike Mix  
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** October 31, 2030 **Storage:** 10°C or colder  
**Handling:** Sonication required. Mix is **Ship:** Ambient  
photosensitive.

p13947  
L  
p1395h

### CERTIFIED VALUES

| Elution Order | Compound           | CAS #    | Lot #     | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|----------|-----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorobiphenyl   | 321-60-8 | 00021384  | 99%    | 4,013.5 µg/mL               | +/- 180.7988                           |
| 2             | 2-Bromonaphthalene | 580-13-2 | STBC5362V | 99%    | 4,011.0 µg/mL               | +/- 180.6862                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

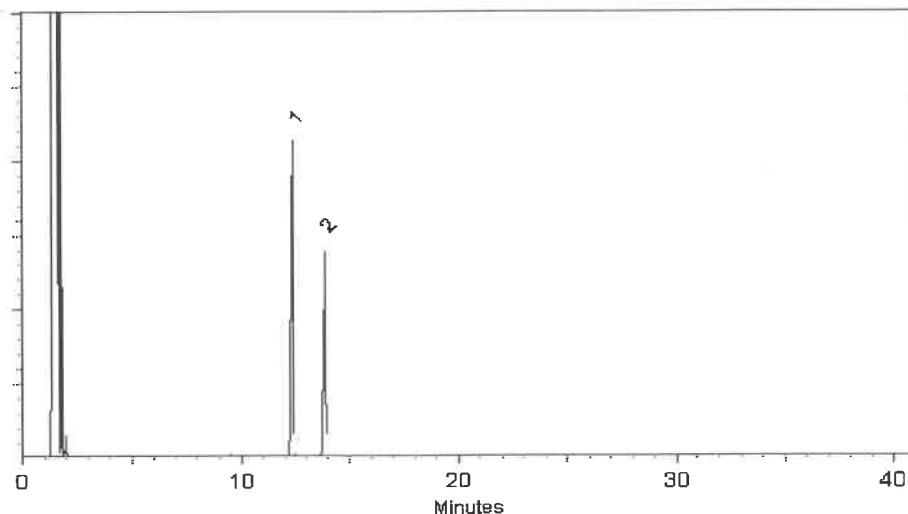
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Wilner Torres*  
Wilner Torres - Operation Tech I

Date Mixed: 14-Nov-2024

Balance Serial # 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Nov-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31480 **Lot No.:** A0221895  
**Description :** MA Fractionation Surrogate Spike Mix  
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** January 31, 2031 **Storage:** 10°C or colder  
**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P1395  
↓  
P13966.

### CERTIFIED VALUES

| Elution Order | Compound           | CAS #    | Lot #     | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|----------|-----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorobiphenyl   | 321-60-8 | 00021384  | 99%    | 4,032.5 µg/mL               | +/- 181.6547                           |
| 2             | 2-Bromonaphthalene | 580-13-2 | STBC5362V | 99%    | 4,033.0 µg/mL               | +/- 181.6772                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

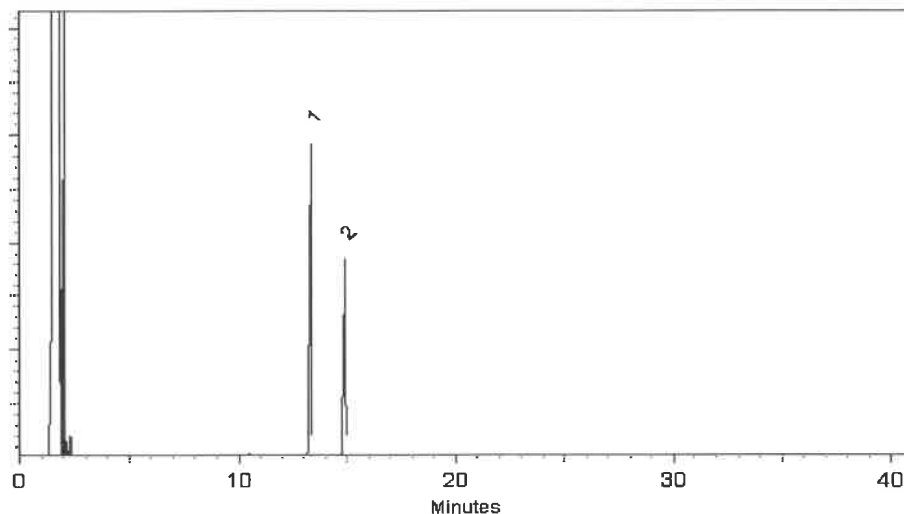
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I

Date Mixed: 04-Feb-2025

Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 12-Feb-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31098 **Lot No.:** A0225485

**Description :** 1-Chlorooctadecane Standard

1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2032 **Storage:** 10°C or colder

**Ship:** Ambient

P14028  
↓  
P14042 } RC/  
6/2/25

## CERTIFIED VALUES

| Elution Order | Compound           | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1-Chlorooctadecane | 3386-33-2 | 15711200 | 99%    | 10,006.8 µg/mL              | +/- 562.1814                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

# Quality Confirmation Test

**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:**

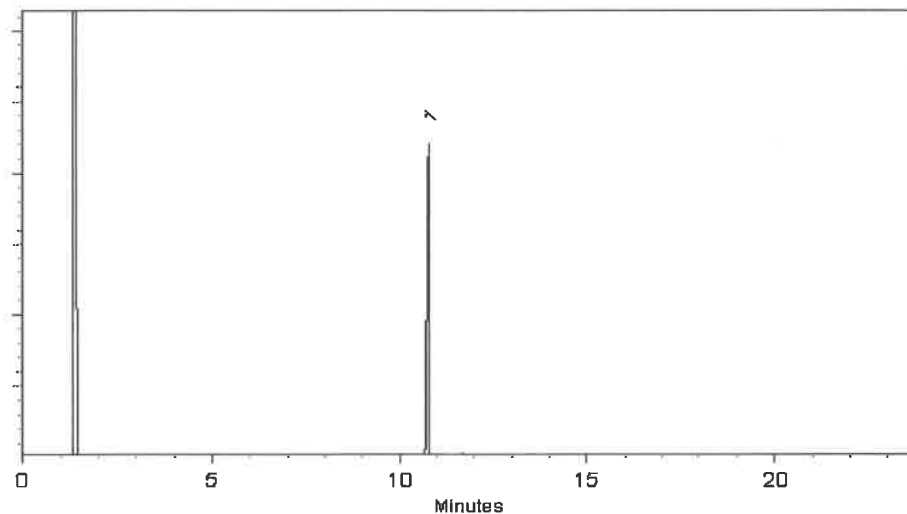
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

*Brittany Federinko*

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*



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**Catalog No. :** 31098 **Lot No.:** A0225485  
**Description :** 1-Chlorooctadecane Standard  
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride,  
1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

P14028  
↓  
P14042  
RC/  
6/2/25

## CERTIFIED VALUES

| Elution Order | Compound           | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1-Chlorooctadecane | 3386-33-2 | 15711200 | 99%    | 10,006.8 µg/mL              | +/- 562.1814                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

# Quality Confirmation Test

**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:**

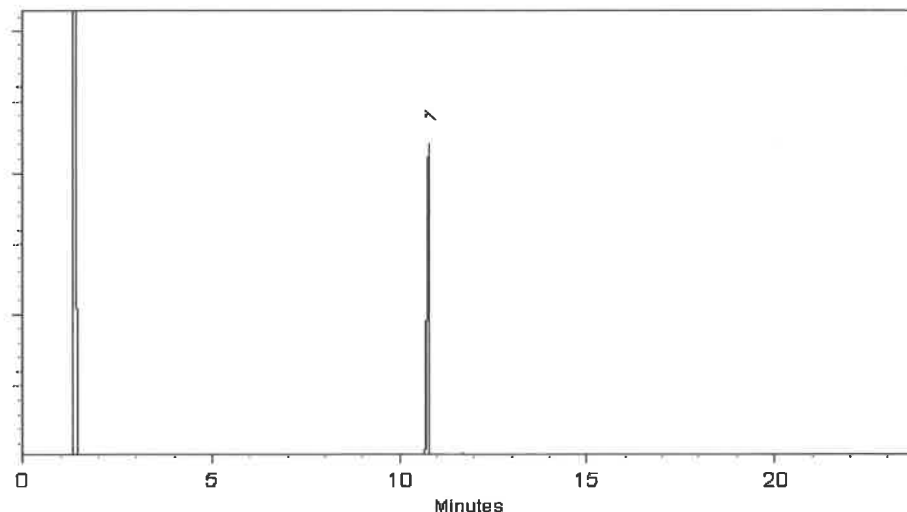
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

*Brittany Federinko*

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015  
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**Catalog No. :** 31098 **Lot No.:** A0225485  
**Description :** 1-Chlorooctadecane Standard  
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride,  
1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

P14028  
↓  
P14042 } RC/  
6/2/25

## CERTIFIED VALUES

| Elution Order | Compound           | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1-Chlorooctadecane | 3386-33-2 | 15711200 | 99%    | 10,006.8 µg/mL              | +/- 562.1814                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

# Quality Confirmation Test

**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:**

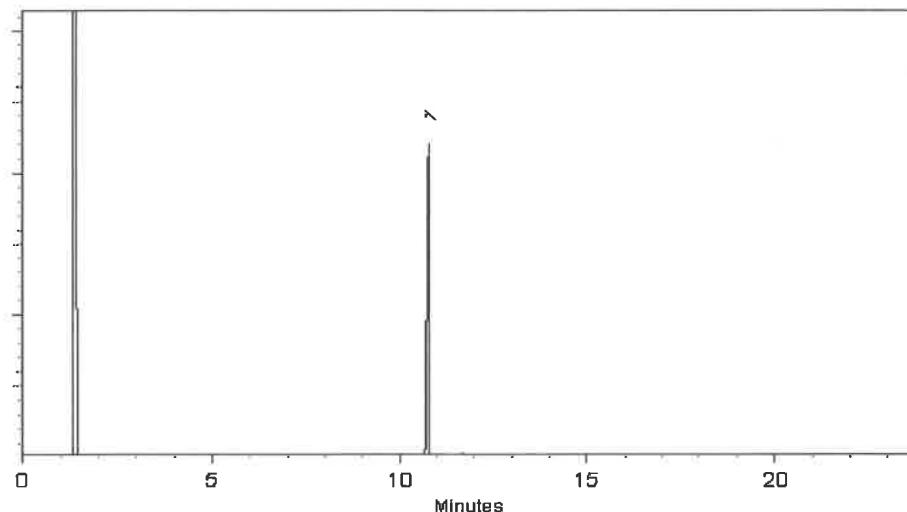
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

*Brittany Federinko*

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





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## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 31098 **Lot No.:** A0225485  
**Description :** 1-Chlorooctadecane Standard  
1-Chlorooctadecane Standard 10,000µg/mL, Methylene Chloride,  
1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** June 30, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

P14028  
↓  
P14042 } RC/  
6/2/25

## CERTIFIED VALUES

| Elution Order | Compound           | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1-Chlorooctadecane | 3386-33-2 | 15711200 | 99%    | 10,006.8 µg/mL              | +/- 562.1814                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

# Quality Confirmation Test

**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:**

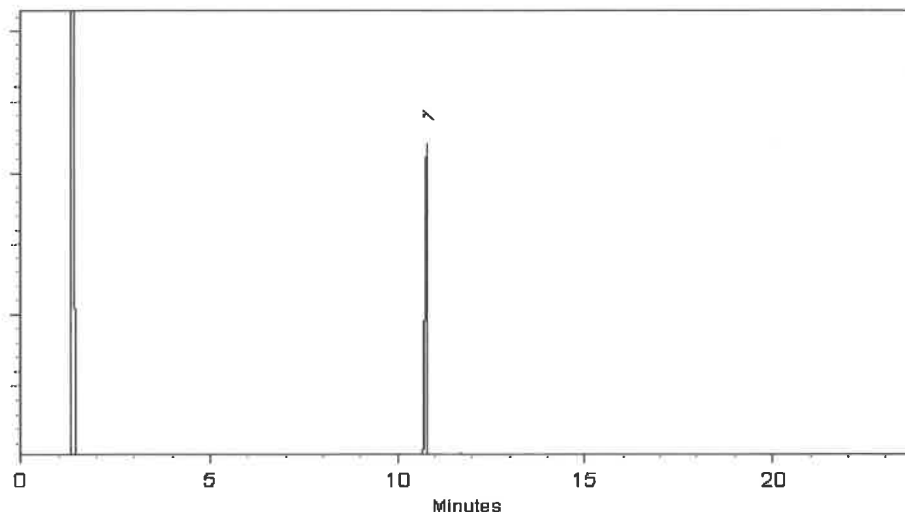
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Sam Moodler*

Sam Moodler - Operations Tech I

Date Mixed: 08-May-2025

Balance Serial # 1128360905

*Brittany Federinko*

Brittany Federinko - Operations Tech II

Date Passed: 13-May-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31480 **Lot No.:** A0224278

**Description :** MA Fractionation Surrogate Spike Mix  
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14043 } AC  
↓  
P14058 } 6/10/25

## CERTIFIED VALUES

| Elution Order | Compound           | CAS #    | Lot #     | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|----------|-----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorobiphenyl   | 321-60-8 | 00021384  | 99%    | 4,018.5 µg/mL               | +/- 181.0240                           |
| 2             | 2-Bromonaphthalene | 580-13-2 | STBC5362V | 99%    | 4,019.5 µg/mL               | +/- 181.0691                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%



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**Catalog No. :** 31480 **Lot No.:** A0221895  
**Description :** MA Fractionation Surrogate Spike Mix  
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** January 31, 2031 **Storage:** 10°C or colder  
**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059  
↓  
P14062 } AC  
6/10/25

### CERTIFIED VALUES

| Elution Order | Compound           | CAS #    | Lot #     | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|----------|-----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorobiphenyl   | 321-60-8 | 00021384  | 99%    | 4,032.5 µg/mL               | +/- 181.6547                           |
| 2             | 2-Bromonaphthalene | 580-13-2 | STBC5362V | 99%    | 4,033.0 µg/mL               | +/- 181.6772                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%



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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31480 **Lot No.:** A0221895  
**Description :** MA Fractionation Surrogate Spike Mix  
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** January 31, 2031 **Storage:** 10°C or colder  
**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059  
↓  
P14062 } AC  
6/10/25

### CERTIFIED VALUES

| Elution Order | Compound           | CAS #    | Lot #     | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|----------|-----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorobiphenyl   | 321-60-8 | 00021384  | 99%    | 4,032.5 µg/mL               | +/- 181.6547                           |
| 2             | 2-Bromonaphthalene | 580-13-2 | STBC5362V | 99%    | 4,033.0 µg/mL               | +/- 181.6772                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%



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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 31480 **Lot No.:** A0221895  
**Description :** MA Fractionation Surrogate Spike Mix  
MA Fractionation Surrogate Spike Mix 4000µg/mL, Hexane, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** January 31, 2031 **Storage:** 10°C or colder  
**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14059  
↓  
P14062 } AC  
6/10/25

### CERTIFIED VALUES

| Elution Order | Compound           | CAS #    | Lot #     | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------|----------|-----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Fluorobiphenyl   | 321-60-8 | 00021384  | 99%    | 4,032.5 µg/mL               | +/- 181.6547                           |
| 2             | 2-Bromonaphthalene | 580-13-2 | STBC5362V | 99%    | 4,033.0 µg/mL               | +/- 181.6772                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Hexane  
**CAS #** 110-54-3  
**Purity** 99%



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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

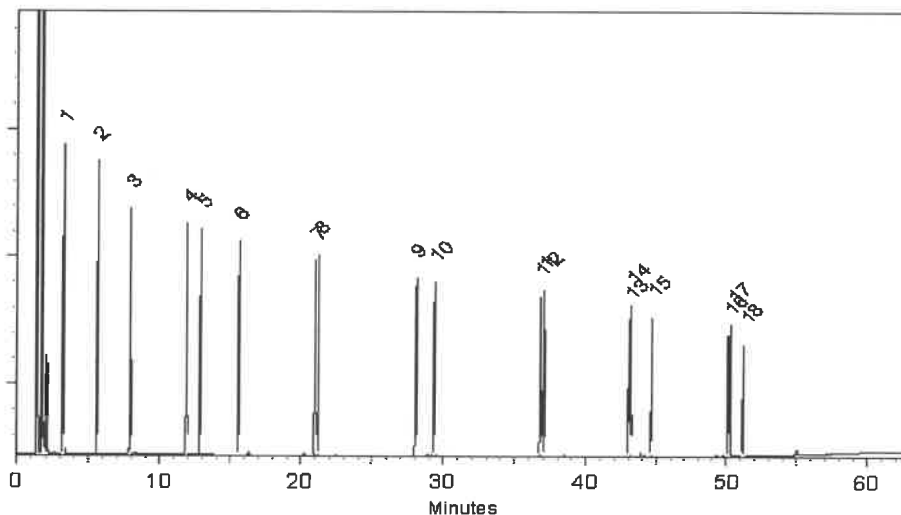
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





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## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

## CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

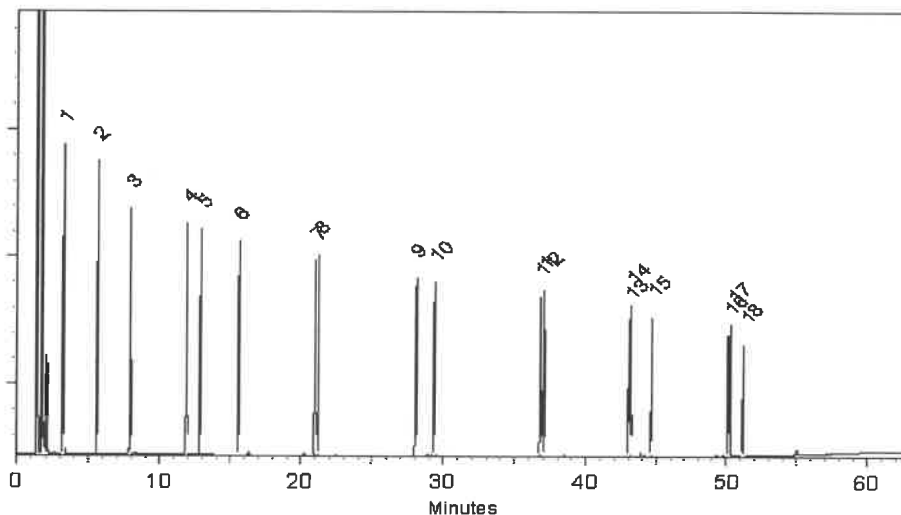
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

## CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

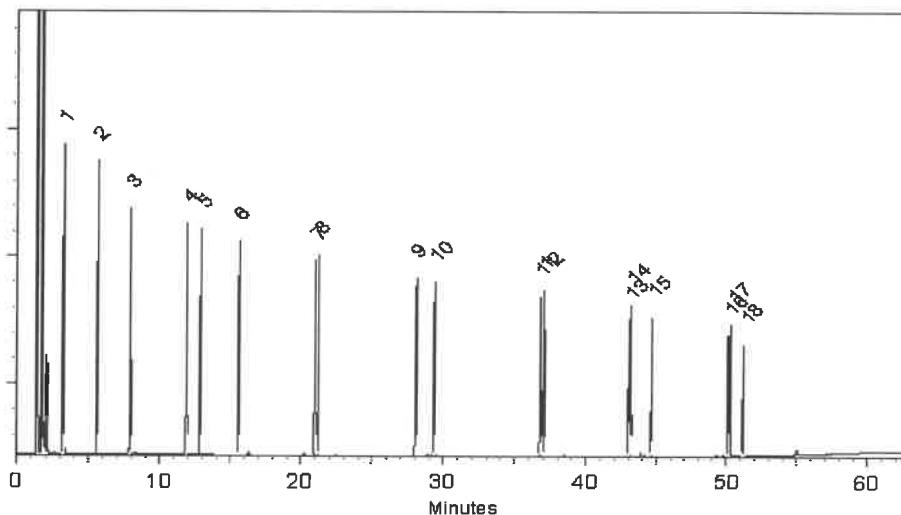
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
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Certificate #FM 80397



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**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

## CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

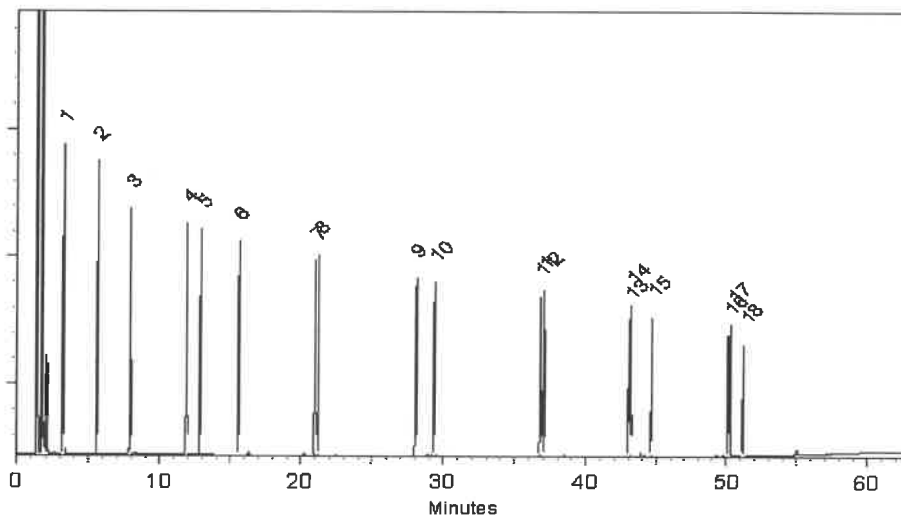
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

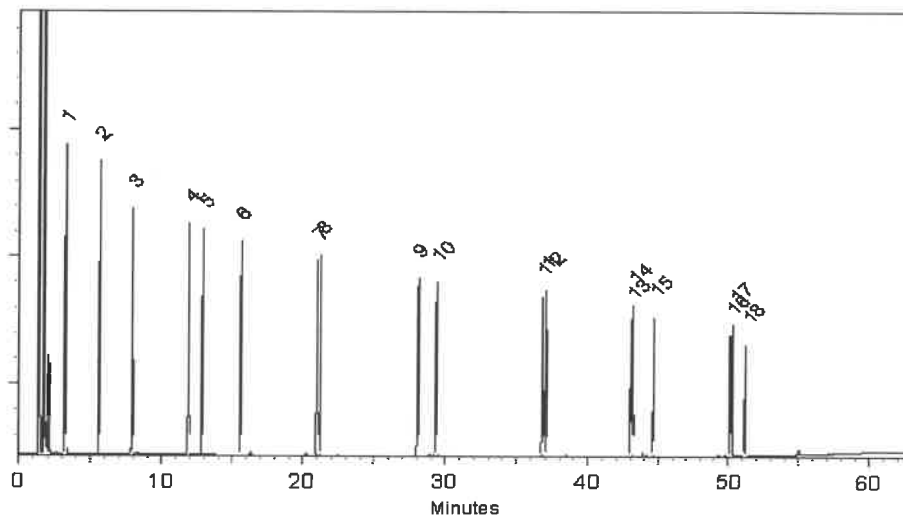
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



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*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
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**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

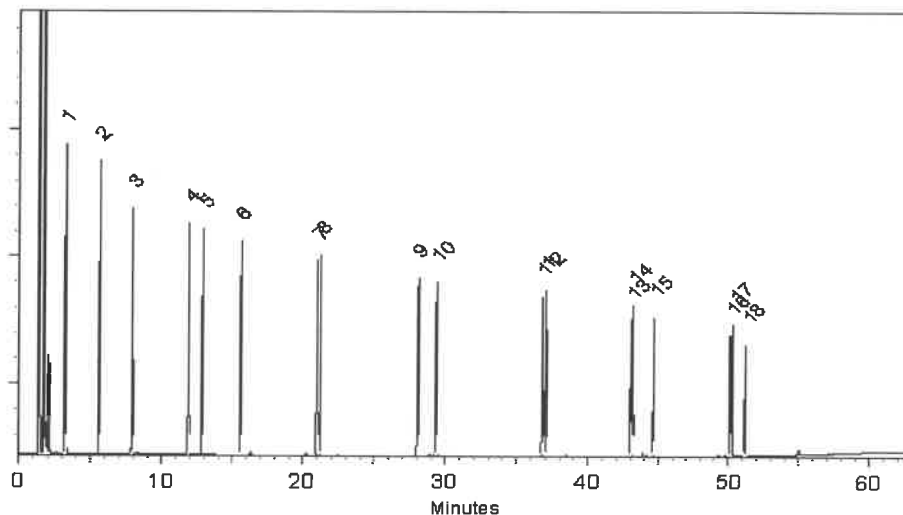
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
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Fax: 1-814-353-1309

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

## CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

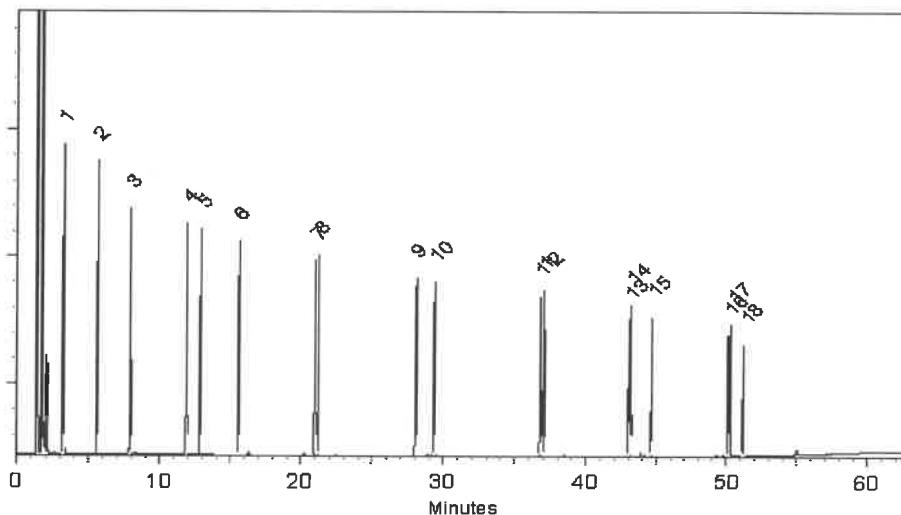
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



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*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
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Certificate #FM 80397



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**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

## CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

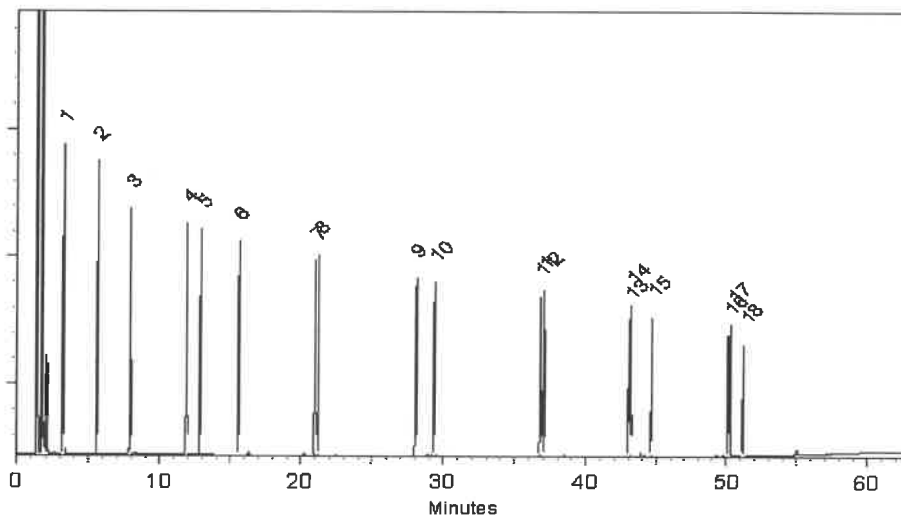
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



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*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
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**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

## CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

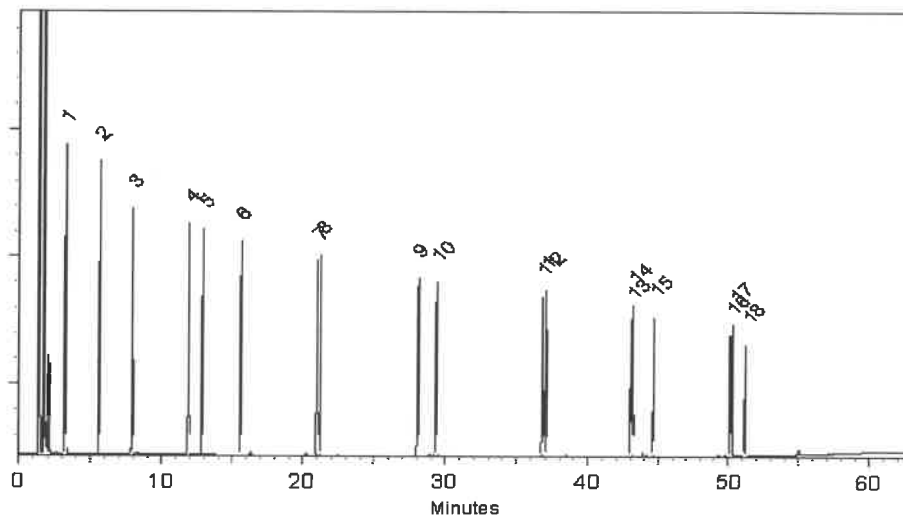
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30543 **Lot No.:** A0225381

**Description :** NJEPH Aromatics Matrix Spike Mix

NJEPH Aromatics Matrix Spike Mix 200µg/mL, Acetone/Toluene (50:50), 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** April 30, 2031 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

P14074 } AC  
↓  
P14083 } 7/16/25.

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1             | 1,2,3-Trimethylbenzene | 526-73-8 | 8776.10-39   | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 2             | Naphthalene            | 91-20-3  | STBL1057     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 3             | 2-Methylnaphthalene    | 91-57-6  | STBL3028     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 4             | Acenaphthylene         | 208-96-8 | 214935V16F   | 97%    | 200.2 µg/mL                 | +/- 9.0208                             |
| 5             | Acenaphthene           | 83-32-9  | MKCV8166     | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 6             | Fluorene               | 86-73-7  | 10246250     | 98%    | 200.3 µg/mL                 | +/- 9.0255                             |
| 7             | Phenanthrene           | 85-01-8  | MKCV8193     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 8             | Anthracene             | 120-12-7 | 101492T18R   | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 9             | Fluoranthene           | 206-44-0 | A0458721     | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 10            | Pyrene                 | 129-00-0 | BCCK2592     | 99%    | 200.8 µg/mL                 | +/- 9.0474                             |
| 11            | Benz(a)anthracene      | 56-55-3  | I70012022BAA | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 12            | Chrysene               | 218-01-9 | RP250121RSR  | 99%    | 200.0 µg/mL                 | +/- 9.0114                             |
| 13            | Benzo(b)fluoranthene   | 205-99-2 | 022013B      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 14            | Benzo(k)fluoranthene   | 207-08-9 | 012022K      | 99%    | 200.4 µg/mL                 | +/- 9.0294                             |
| 15            | Benzo(a)pyrene         | 50-32-8  | NQLXA        | 98%    | 200.7 µg/mL                 | +/- 9.0431                             |
| 16            | Indeno(1,2,3-cd)pyrene | 193-39-5 | 12-JKL-118-9 | 97%    | 200.6 µg/mL                 | +/- 9.0383                             |

|    |                       |          |               |     |             |            |
|----|-----------------------|----------|---------------|-----|-------------|------------|
| 17 | Dibenz(a,h)anthracene | 53-70-3  | 712061504-1-1 | 99% | 200.4 µg/mL | +/- 9.0294 |
| 18 | Benzo(g,h,i)perylene  | 191-24-2 | RP250219RSR   | 99% | 200.0 µg/mL | +/- 9.0114 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Acetone/Toluene (50:50)  
**CAS #** 67-64-1/108-88-3  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
100°C (hold 1 min.) to 330°C  
@ 4°C/min. (hold 5 min.)

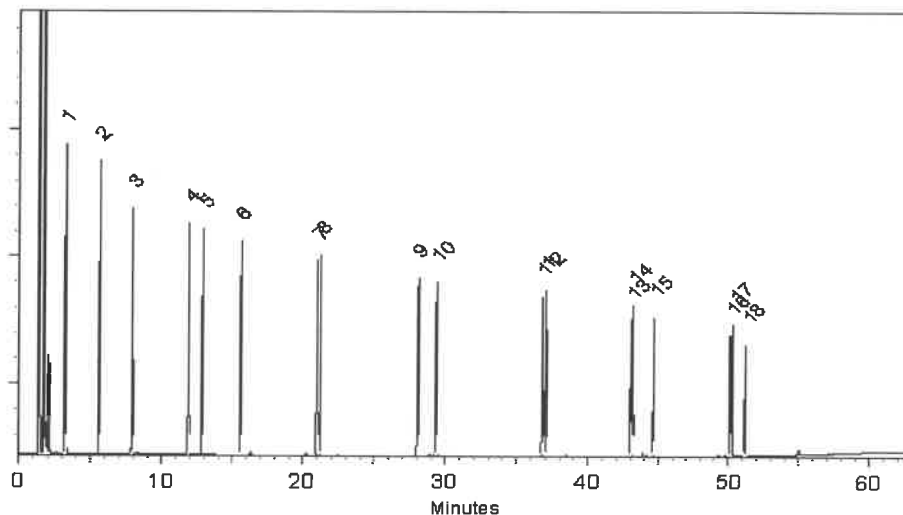
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
20 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Richard Zimmerman*  
Richard Zimmerman - Operations Tech I

**Date Mixed:** 06-May-2025 **Balance Serial #** 1128353505

*Brittany Federinko*  
Brittany Federinko - Operations Tech II

**Date Passed:** 09-May-2025

Manufactured under Restek's ISO 9001:2015  
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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30542 **Lot No.:** A0226411

**Description :** NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

P14094  
↓  
P14103 } AC  
7/16/25

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Nonane (C9)            | 111-84-2   | SHBP9752   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBR0670   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 10            | n-Tetracosane (C24)      | 646-31-1   | UH5GN      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 15            | n-Tetratriacontane (C34) | 14167-59-0 | 6JNHB      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 16            | n-Hexatriacontane (C36)  | 630-06-8   | U30H007    | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 17            | n-Octatriacontane (C38)  | 7194-85-6  | 0000207852 | 96%    | 200.0 µg/mL                 | +/- 5.1667                             |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

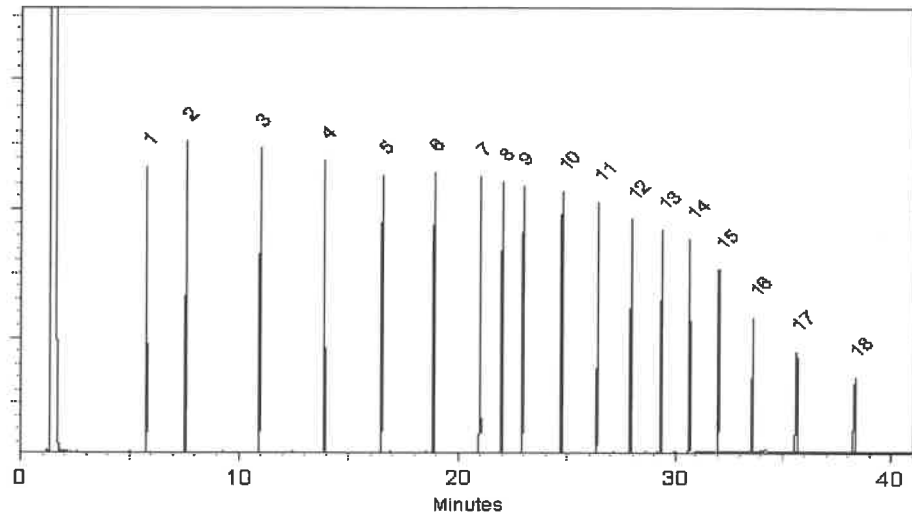
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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#### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30542 **Lot No.:** A0226411

**Description :** NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

P14094  
↓  
P14103 } AC  
7/16/25

#### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Nonane (C9)            | 111-84-2   | SHBP9752   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBR0670   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 10            | n-Tetracosane (C24)      | 646-31-1   | UH5GN      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 15            | n-Tetratriacontane (C34) | 14167-59-0 | 6JNHB      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 16            | n-Hexatriacontane (C36)  | 630-06-8   | U30H007    | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 17            | n-Octatriacontane (C38)  | 7194-85-6  | 0000207852 | 96%    | 200.0 µg/mL                 | +/- 5.1667                             |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

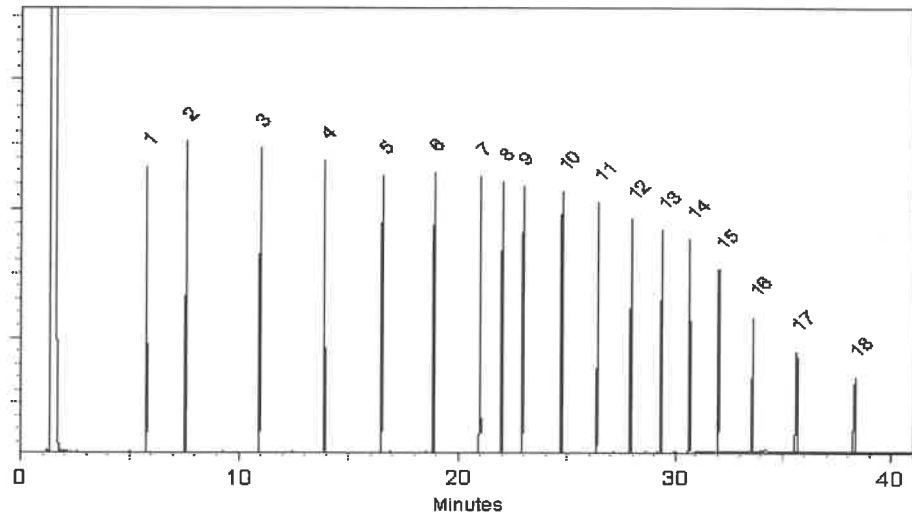
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30542 **Lot No.:** A0226411

**Description :** NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

P14094  
↓  
P14103 } AC  
7/16/25

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Nonane (C9)            | 111-84-2   | SHBP9752   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBR0670   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 10            | n-Tetracosane (C24)      | 646-31-1   | UH5GN      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 15            | n-Tetratriacontane (C34) | 14167-59-0 | 6JNHB      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 16            | n-Hexatriacontane (C36)  | 630-06-8   | U30H007    | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 17            | n-Octatriacontane (C38)  | 7194-85-6  | 0000207852 | 96%    | 200.0 µg/mL                 | +/- 5.1667                             |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

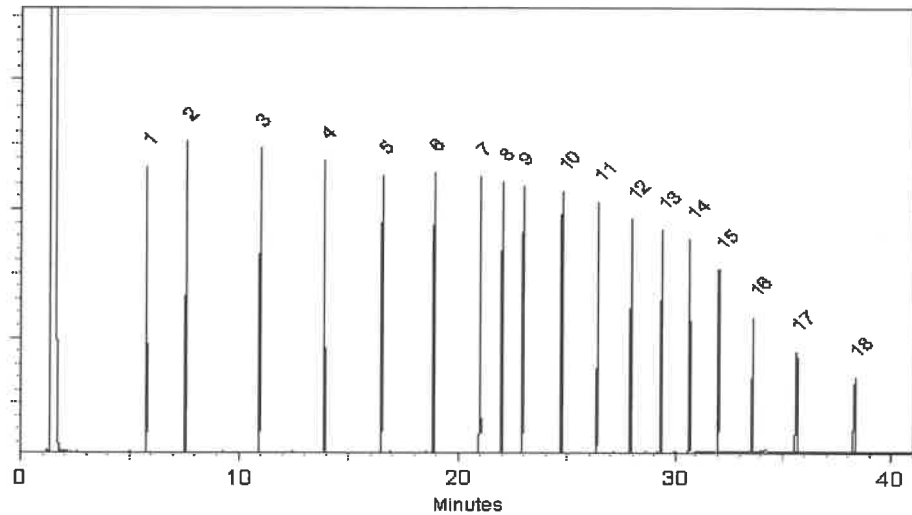
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
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chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30542 **Lot No.:** A0226411

**Description :** NJEPH Aliphatics Matrix Spike Mix  
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

P14094  
↓  
P14103 } AC  
7/16/25

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Nonane (C9)            | 111-84-2   | SHBP9752   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBR0670   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 10            | n-Tetracosane (C24)      | 646-31-1   | UH5GN      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 15            | n-Tetratriacontane (C34) | 14167-59-0 | 6JNHB      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 16            | n-Hexatriacontane (C36)  | 630-06-8   | U30H007    | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 17            | n-Octatriacontane (C38)  | 7194-85-6  | 0000207852 | 96%    | 200.0 µg/mL                 | +/- 5.1667                             |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

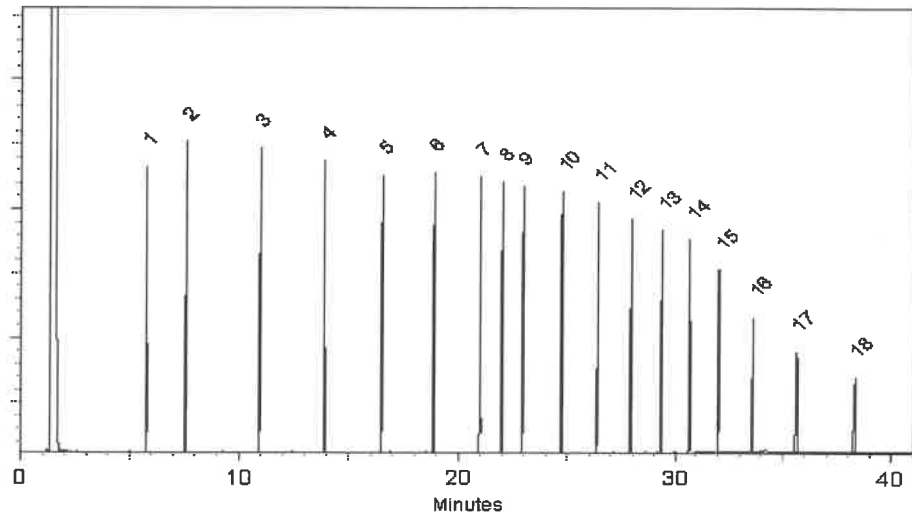
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**Catalog No. :** 30542 **Lot No.:** A0226411

**Description :** NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

P14094  
↓  
P14103 } AC  
7/16/25

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Nonane (C9)            | 111-84-2   | SHBP9752   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBR0670   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 10            | n-Tetracosane (C24)      | 646-31-1   | UH5GN      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 15            | n-Tetratriacontane (C34) | 14167-59-0 | 6JNHB      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 16            | n-Hexatriacontane (C36)  | 630-06-8   | U30H007    | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 17            | n-Octatriacontane (C38)  | 7194-85-6  | 0000207852 | 96%    | 200.0 µg/mL                 | +/- 5.1667                             |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

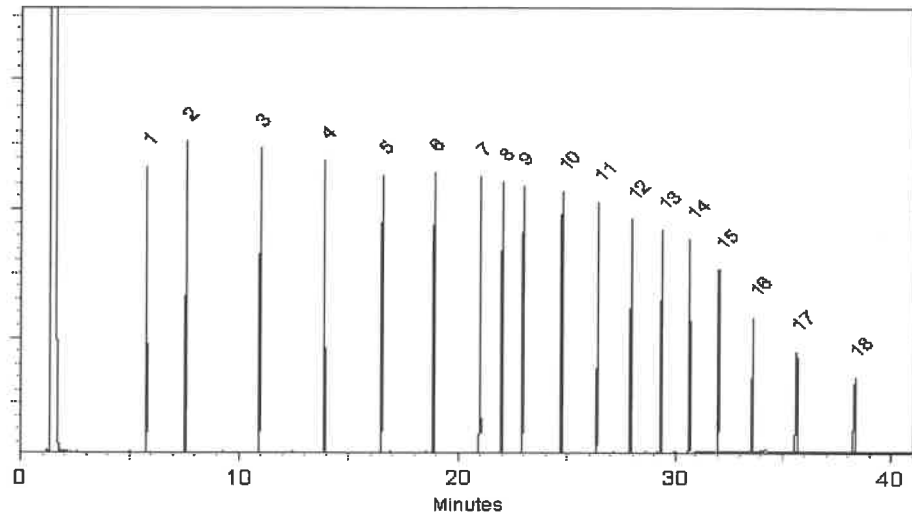
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

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**Catalog No. :** 30542 **Lot No.:** A0226411

**Description :** NJEPH Aliphatics Matrix Spike Mix  
NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

P14094  
↓  
P14103 } AC  
7/16/25

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Nonane (C9)            | 111-84-2   | SHBP9752   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBR0670   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 10            | n-Tetracosane (C24)      | 646-31-1   | UH5GN      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 15            | n-Tetratriacontane (C34) | 14167-59-0 | 6JNHB      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 16            | n-Hexatriacontane (C36)  | 630-06-8   | U30H007    | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 17            | n-Octatriacontane (C38)  | 7194-85-6  | 0000207852 | 96%    | 200.0 µg/mL                 | +/- 5.1667                             |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

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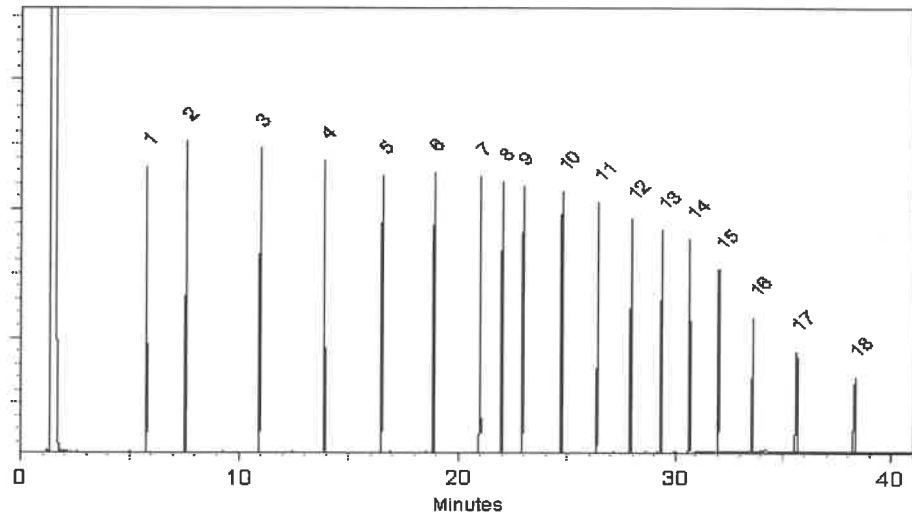
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



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*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

Manufactured under Restek's ISO 9001:2015  
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# Certificate of Analysis

### chromatographic plus



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**Catalog No. :** 30542 **Lot No.:** A0226411

**Description :** NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

P14094  
↓  
P14103 } AC  
7/16/25

#### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Nonane (C9)            | 111-84-2   | SHBP9752   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBR0670   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 10            | n-Tetracosane (C24)      | 646-31-1   | UH5GN      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
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\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

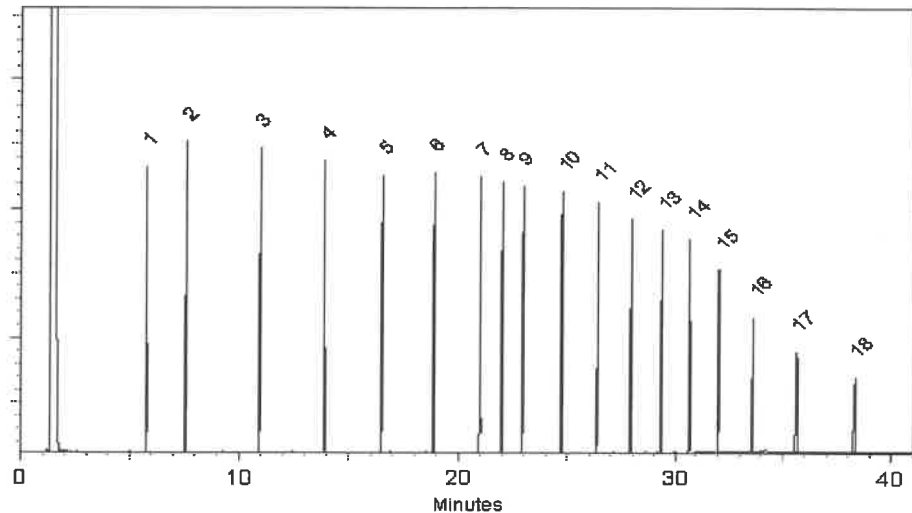
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



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*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

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P14094  
↓  
P14103 } AC  
7/16/25

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
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| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
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| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
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| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
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\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

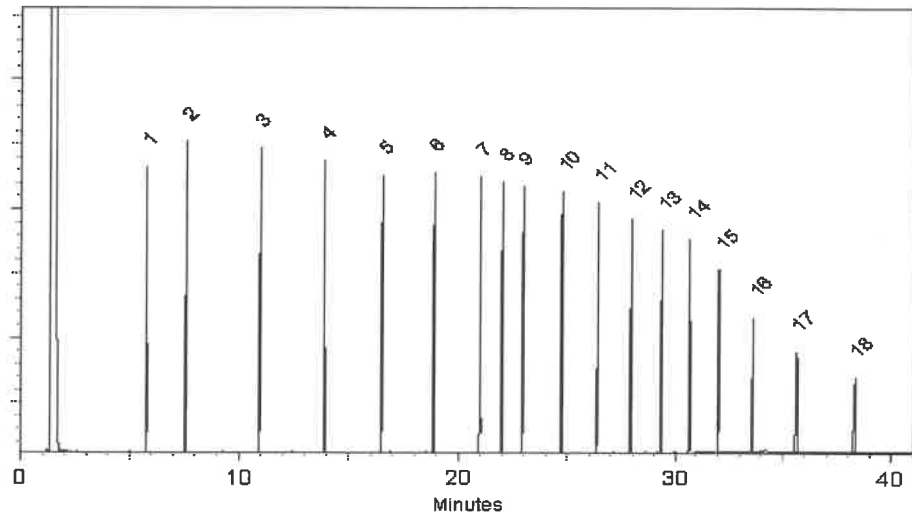
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30542 **Lot No.:** A0226411

**Description :** NJEPH Aliphatics Matrix Spike Mix

NJEPH Aliphatics Matrix Spike Mix 200 µg/mL, n-Pentane, 5mL/ampul

**Container Size :** 5 mL **Pkg Amt:** > 5 mL

**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

**Handling:** Sonicate prior to use. **Ship:** Ambient

P14094  
↓  
P14103 } AC  
7/16/25

### CERTIFIED VALUES

| Elution Order | Compound                 | CAS #      | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------|------------|------------|--------|-----------------------------|----------------------------------------|
| 1             | n-Nonane (C9)            | 111-84-2   | SHBP9752   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 2             | n-Decane (C10)           | 124-18-5   | SHBS1019   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 3             | n-Dodecane (C12)         | 112-40-3   | SHBP7054   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 4             | n-Tetradecane (C14)      | 629-59-4   | STBL2522   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 5             | n-Hexadecane (C16)       | 544-76-3   | SHBR0670   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 6             | n-Octadecane (C18)       | 593-45-3   | UE5NG      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 7             | n-Eicosane (C20)         | 112-95-8   | MKCN8767   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 8             | n-Heneicosane (C21)      | 629-94-7   | MKCP1960   | 99%    | 200.3 µg/mL                 | +/- 5.1753                             |
| 9             | n-Docosane (C22)         | 629-97-0   | MKCQ3729   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 10            | n-Tetracosane (C24)      | 646-31-1   | UH5GN      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 11            | n-Hexacosane (C26)       | 630-01-3   | MKCV0107   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 12            | n-Octacosane (C28)       | 630-02-4   | BCCM2091   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 13            | n-Triacontane (C30)      | 638-68-6   | MKCW9459   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 14            | n-Dotriacontane (C32)    | 544-85-4   | BCBW0661   | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 15            | n-Tetratriacontane (C34) | 14167-59-0 | 6JNHB      | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 16            | n-Hexatriacontane (C36)  | 630-06-8   | U30H007    | 99%    | 200.0 µg/mL                 | +/- 5.1667                             |
| 17            | n-Octatriacontane (C38)  | 7194-85-6  | 0000207852 | 96%    | 200.0 µg/mL                 | +/- 5.1667                             |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

## Quality Confirmation Test

**Column:**  
30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)  
**Carrier Gas:**  
hydrogen-constant pressure 10 psi.

**Temp. Program:**  
40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

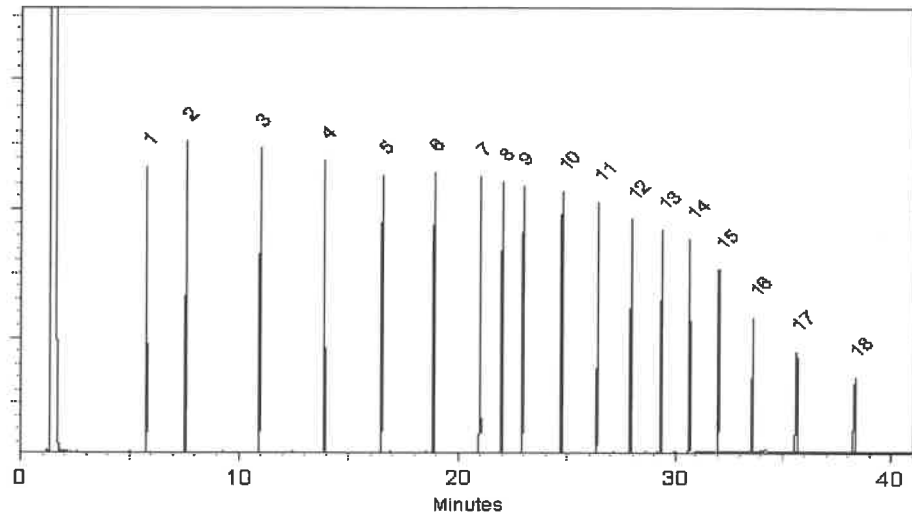
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*A.O.E.*  
Aaron Enyart - Operations Tech I

**Date Mixed:** 05-Jun-2025 **Balance Serial #** 1128353505

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

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**Expiration Date :** July 31, 2032 **Storage:** 10°C or colder

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P14094  
↓  
P14103 } AC  
7/16/25

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**Solvent:** n-Pentane  
**CAS #** 109-66-0  
**Purity** 99%

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hydrogen-constant pressure 10 psi.

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@ 10°C/min. (hold 10 min.)

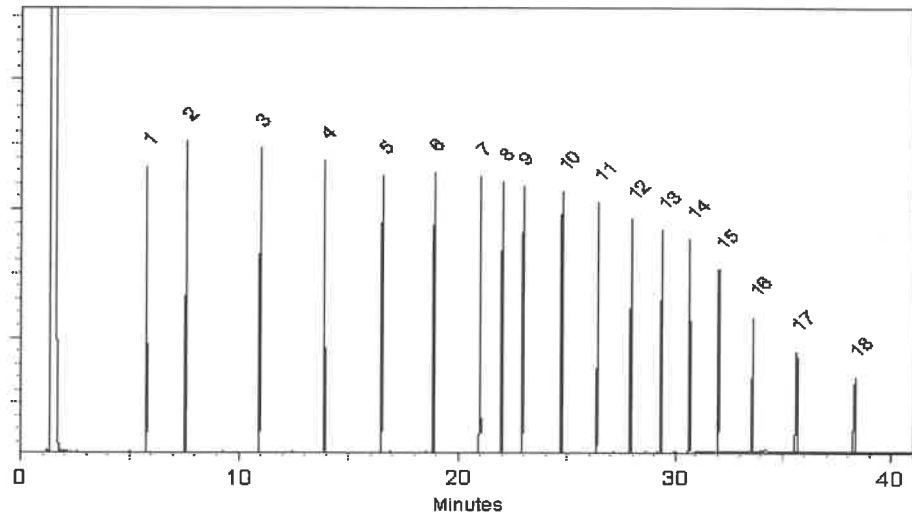
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**Det. Type:**  
FID

**Split Vent:**  
2 ml/min.

**Inj. Vol**  
1µl



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Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 09-Jun-2025

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

n-Hexane 95%  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis

 **avantor**™



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

W3234 JB  
OP4421. 07/28/2025

## Certificate of Analysis

| Test                                                                           | Specification | Result      |
|--------------------------------------------------------------------------------|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)           | <= 5          | 1           |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)            | <= 10         | 6           |
| ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL) | <= 5          | 5           |
| Assay (Total Saturated C <sub>6</sub> Isomers) (by GC, corrected for water)    | >= 99.5 %     | 100.0 %     |
| Assay (as n-Hexane) (by GC, corrected for water)                               | >= 95 %       | 100 %       |
| Color (APHA)                                                                   | <= 10         | 10          |
| Residue after Evaporation                                                      | <= 1.0 ppm    | 0.1 ppm     |
| Substances Darkened by H <sub>2</sub> SO <sub>4</sub>                          | Passes Test   | Passes Test |
| Water (by KF, coulometric)                                                     | <= 0.05 %     | <0.01 %     |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



# SHIPPING DOCUMENTS



## USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

## CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

**Contact Phone: 732-570-4993**

No: 2-092325-0004-0049-02

Cooler #: 2 of 2

Lab: Alliance Technical Group LLC (non-CLP)

Lab Phone: 908-789-8900

| Lab #       | Sample #    | Analyses                     | Matrix | Sample Date | Sample Time | Numb Cont | Container            | Preservative | Lab QC |
|-------------|-------------|------------------------------|--------|-------------|-------------|-----------|----------------------|--------------|--------|
| 7           | EME-TS14-01 | TAL VOCs,                    | Soil   | 9/23/2025   | 12:45       | 9         | 5 g Encore sampler   | 4 C          | Y      |
| 6           | EME-TS14-01 | EPH                          | Soil   | 9/23/2025   | 12:45       | 2         | 4 oz glass jar       | 4 C          | Y      |
| 8           | EME-TS14-01 | SPLP VOCs                    | Soil   | 9/23/2025   | 12:45       | 9         | 5 g Encore sampler   | 4 C          | Y      |
| 8           | EME-TS14-01 | SPLP SVOCs, Pesticides, PCBs | Soil   | 9/23/2025   | 12:45       | 4         | 8 oz amber glass jar | 4 C          | Y      |
| 5           | EME-TS14-01 | SPLP EPH                     | Soil   | 9/23/2025   | 12:45       | 2         | 4 oz glass jar       | 4 C          | Y      |
| 5           | EME-TS14-01 | TAL Metals + Hg and Cn       | Soil   | 9/23/2025   | 12:45       | 2         | 8 oz clear glass jar | 4 C          | Y      |
|             | EME-TS14-01 | SPLP Metals + Hg and Cn      | Soil   | 9/23/2025   | 12:45       | 2         | 8 oz clear glass jar | 4 C          | Y      |
|             | EME-TS14-01 | Percent Moisture             | Soil   | 9/23/2025   | 12:45       | 2         | 4 oz jar w/ septum   | 4 C          | Y      |
|             | EME-TS14-01 | TAL SVOCs, PCBs, Pesticides  | Soil   | 9/23/2025   | 12:45       | 4         | 8 oz amber glass jar | 4 C          | Y      |
| [Signature] |             |                              |        |             |             |           |                      |              |        |

9/23/25

Special Instructions: RFP # 916. Please email results to [leticia.campiglia@westonsolutions.com](mailto:leticia.campiglia@westonsolutions.com), [smita.sumbaly@westonsolutions.com](mailto:smita.sumbaly@westonsolutions.com), [ronan.clynch@westonsolutions.com](mailto:ronan.clynch@westonsolutions.com) and [michael.lang@westonsolutions.com](mailto:michael.lang@westonsolutions.com).  
7 day preliminary TAT.

**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                                     |
|--------------|----------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------|
| All samples  |  / START VI<br>Weston | 9/23/25<br>1700 |  | 9-23-25<br>1700 | 1.3°C<br>In situ #1<br>Outcrop scale intact<br>Temp. Btl. present |
|              |                                                                                                          |                 |                                                                                       |                 |                                                                   |

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
|                 |                  |
| Connecticut     | PH-0830          |
|                 |                  |
| DOD ELAP (ANAB) | L2219            |
|                 |                  |
| Maine           | 2024021          |
|                 |                  |
| Maryland        | 296              |
|                 |                  |
| New Hampshire   | 255425           |
|                 |                  |
| New Jersey      | 20012            |
|                 |                  |
| New York        | 11376            |
|                 |                  |
| Pennsylvania    | 68-00548         |
|                 |                  |
| Soil Permit     | 525-24-234-08441 |
|                 |                  |
| Texas           | TX-C25-00189     |
|                 |                  |
| Virginia        | 460312           |